

PERMESSO DI COSTRUIRE

AMPLIAMENTO DEL COMPARTO AUTODROMO DI MODENA

LOCALITA' MARZAGLIA – COMUNE DI MODENA

Provvedimento Autorizzatorio Unico (PAUR) e Valutazione di Impatto Ambientale (VIA), L.R. n. 4/2018, D.Lgs. 152/06
Progetto di modifica e ampliamento del comparto "Autodromo di Modena", in località Marzaglia, Comune di Modena (MO)



COMPARTO: AUTODROMO DI MODENA

PROPONENTE: AERAUTODROMO MODENA SPA

GRUPPO DI PROGETTAZIONE:

- ARCHILINEA Srl
- BLUEWORKS – Ing. Yos Zorzi
- GEOGROUP Srl
- PRAXIS AMBIENTE Srl
- STUDIO TECNICO CAPELLARI
- STIEM – Ing. Paolo Scuderi e Ing. Luca Buzzoni
- ATEAM PROGETTI
- STUDIO GECO
- STUDIO TECNICO TADDIA
- Dott. Agr. Giovanni Mondani

STR - R03 - RELAZIONE DI CALCOLO parte 2

P.d.C.6

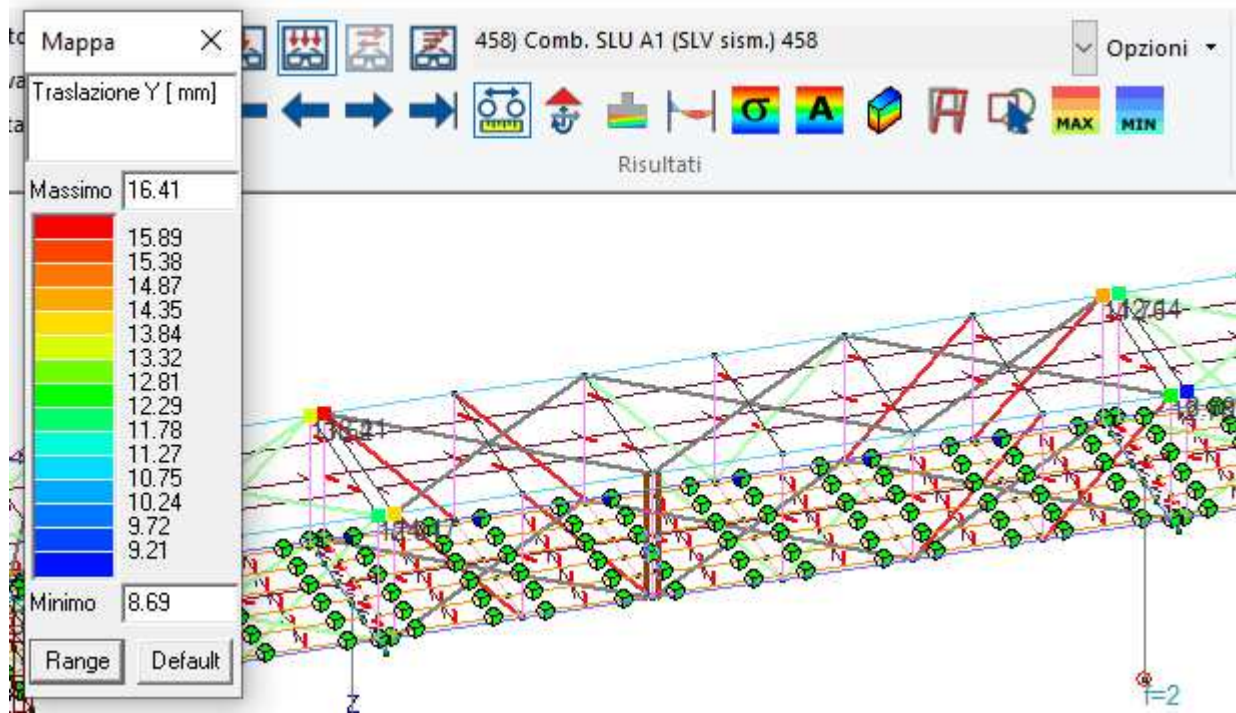
REALIZZAZIONE DI PONTE PEDONALE –
PDC 6 - VIA

Indice degli Elaborati

RELAZIONE DI CALCOLO	4
<i>DISTANZA TRA CAPRIATE</i>	<i>4</i>
<i>COLLEGAMENTO IMPALCATO – PULVINI</i>	<i>5</i>
Azione massima in combinazione sismica:	5
<i>COLLEGAMENTO INTERRUZIONE CORRENTE INFERIORE CAPRIATA.....</i>	<i>11</i>
<i>COLLEGAMENTO INTERRUZIONE CORRENTE SUPERIORE CAPRIATA</i>	<i>152</i>
<i>COLLEGAMENTO DIAGONALI CAMPATE LATERALI – VERIFICA BULLONI.....</i>	<i>264</i>
Dati	265
Forze	266
Risultati.....	266
Stato limite ultimo	268
<i>COLLEGAMENTO DIAGONALI FI 139.7 – VERIFICA SALDATURE.....</i>	<i>269</i>
Dati	269
Forze	269
Risultati.....	270
<i>COLLEGAMENTO DIAGONALI FI 114 CAMPATE CENTRALI – VERIFICA BULLONI</i>	<i>271</i>
Dati	272
Forze	273
Risultati.....	273
Stato limite ultimo	275
<i>COLLEGAMENTO DIAGONALI FI 114 CAMPATE CENTRALI – VERIFICA SALDATURE</i>	<i>276</i>
Dati	277
Forze	277
Risultati.....	278

RELAZIONE DI CALCOLO

DISTANZA TRA CAPRIATE

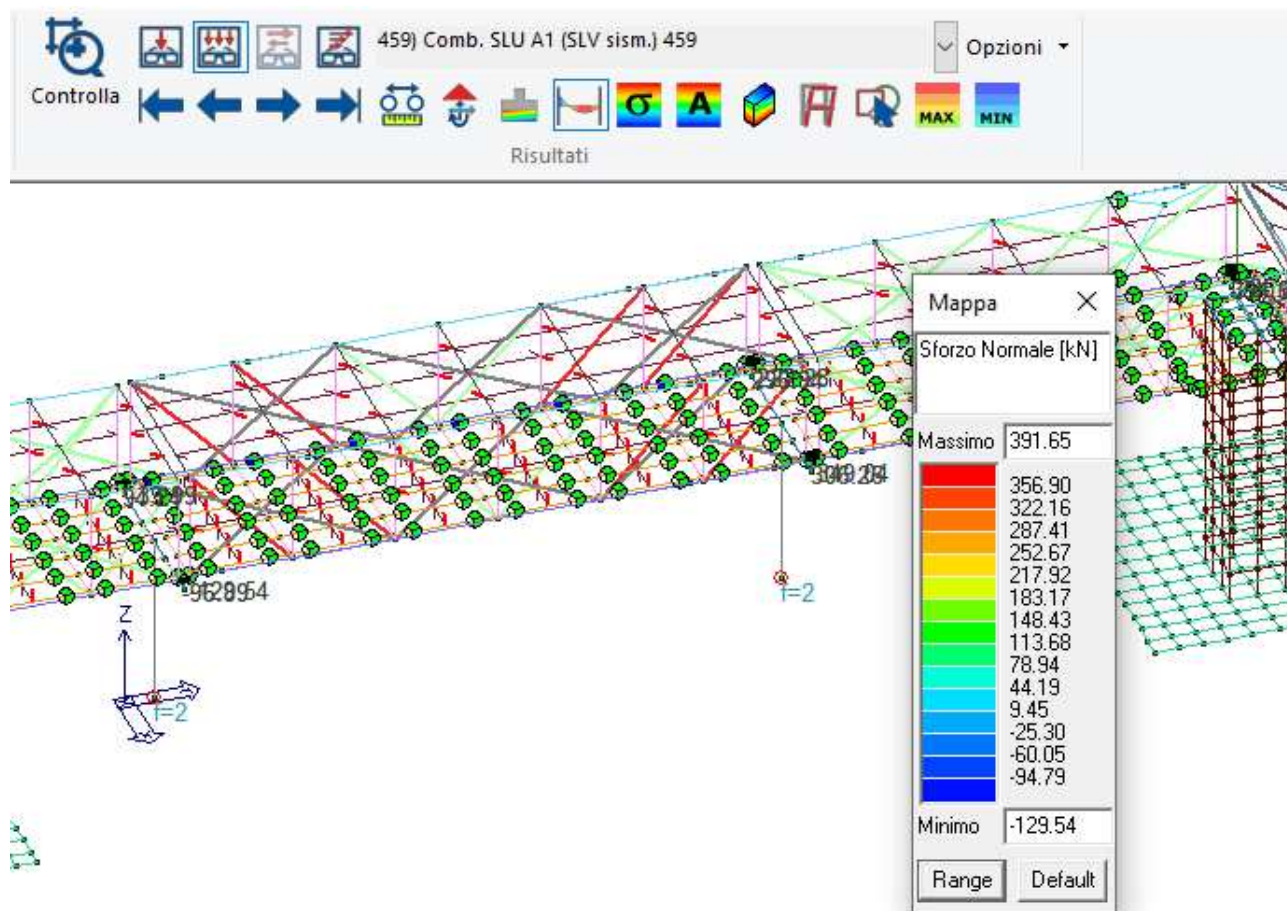


spostamento massimo * q = $16.41 * 1.5 * 2 = 49.23 \text{ mm} < 50 \text{ mm} \rightarrow \text{VERIFICATO}$

COLLEGAMENTO IMPALCATO – PULVINI

L'impalcato è in appoggio al pulvino con giunto a cerniera.

Azione massima in combinazione sismica:



Basi della progettazione

Ancorante

Sistema	fischer Sistema a iniezione FIS EM plus
Ancorante chimico ad iniezione	FIS EM Plus 390 S
Elemento di fissaggio	Barra filettata FIS A M 30 x 550 8.8, Acciaio zincato, Classe di resistenza 8.8
Profondità di ancoraggio	350 mm

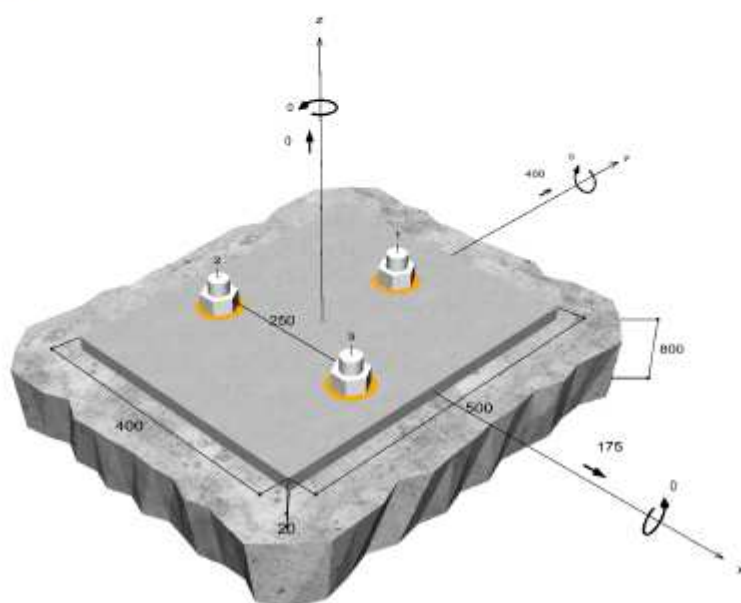


Dati di progetto Specifiche del produttore

Geometria / Carichi

mm, kN, kNm

Valore di progetto delle azioni (sono inclusi i
coefficienti parziali di sicurezza delle azioni)



Non in scala

+

Dati di input

Metodo di progettazione	Metodo di calcolo ENSO per ancoranti chimici
Materiale di base	C30/37, EN 206
Condizioni calcestruzzo	Non fessurato, Foro asciutto
Range di temperatura	24 °C Temperatura nel lungo periodo, 40 °C Temperatura nel breve periodo
Armatura	Armatura normale o senza armatura. Armatura di bordo ($\varnothing \geq 12$ mm)
Metodo di foratura	Rotopercussione
Tipo di installazione	Installazione passante
Spazio anulare tra foro della piastra e barra	Spazio anulare tra foro della piastra e barra riempito
Tipo di carico	Statico
Distanziato	Nessuna flessione
Dimensioni piastra di ancoraggio	Ancorante fissato sul materiale di base 400 mm x 500 mm x 20 mm
Tipo di profilo	Nessuno

Carichi di progetto *1

#	N _{sd} kN	V _{sd,x} kN	V _{sd,y} kN	M _{sd,x} kNm	M _{sd,y} kNm	M _{T,sd} kNm	Tipo di carico
1	0.00	175.00	400.00	0.00	0.00	0.00	Statico

*1 I coefficienti parziali di sicurezza per le azioni sono inclusi.

Forze risultanti sull'ancoraggio

Ancorante n°	Forza di trazione kN	Forza di taglio kN	Forza di taglio x kN	Forza di taglio y kN
1	0.00	145.54	58.33	133.33
2	0.00	145.54	58.33	133.33
3	0.00	145.54	58.33	133.33



max. deformazione a compressione del calcestruzzo :
max. tensione di compressione del calcestruzzo :
Forza risultante di trazione :
Forza risultante di compressione :

‰
N/mm²
kN , Coordinate x/y (/)
kN , Coordinate x/y (/)

Resistenza a taglio

Verifica	Carico kN	Portata kN	Utilizzo β_v %
Rottura dell'acciaio senza braccio di leva *	145.54	180.00	80.9
Rottura calcestruzzo sul lato opposto al carico	436.61	774.67	56.4

* Ancorante più sfavorevole

Rottura dell'acciaio senza braccio di leva

$$V_{Sd} \leq \frac{V_{Rk,s}}{\gamma_{Ms}} \quad (V_{Rd,s})$$



$V_{Rd,s}$ kN	γ_{Ms}	$V_{Rd,s}$ kN	V_{Sd} kN	β_{vs} %
225.00	1.25	180.00	145.54	80.9

Ancorante n°	β_{vs} %	Gruppo n°	Beta decisivo
1	80.9	1	$\beta_{vs,1}$
2	80.9	2	$\beta_{vs,2}$
3	80.9	3	$\beta_{vs,3}$

Rottura calcestruzzo sul lato opposto al carico

$$V_{Sd} \leq \frac{V_{Rk,op}}{\gamma_{Mcp}} \quad (V_{Rd,op})$$



$$V_{Rk,op} = k \cdot N_{Rk,e} = 2 \cdot 581.00 \text{ kN} = 1,162.01 \text{ kN}$$

Equazione
(5.7a)

$$N_{Rk,e} = N_{Rk,e}^0 \cdot \frac{A_{c,N}}{A_{c,N}^0} \cdot \Psi_{s,N} \cdot \Psi_{re,N} \cdot \Psi_{ce,N}$$

Equazione
(5.3)

$$N_{Rk,e} = 402.28 \text{ kN} \cdot \frac{1,592,332 \text{ mm}^2}{1,102,500 \text{ mm}^2} \cdot 1.000 \cdot 1.000 \cdot 1.000 = 581.00 \text{ kN}$$

$$N_{Rk,e}^0 = k_1 \cdot \sqrt{f_{ct,ed,e}} \cdot h_{ef}^{1.5} = 10.1 \cdot \sqrt{37.0 \text{ N/mm}^2} \cdot (350 \text{ mm})^{1.5} = 402.28 \text{ kN}$$

Equazione
(5.3a)

$$\Psi_{s,N} = \min\left(1; 0.7 + 0.3 \cdot \frac{c}{c_{cr,N}}\right) = \min\left(1; 0.7 + 0.3 \cdot \frac{\infty}{525 \text{ mm}}\right) = 1.000 \leq 1$$

Equazione
(5.3c)

$$\Psi_{re,N} = 1.000$$

Equazione
(5.3d)

$$\Psi_{ce,N} = \frac{1}{1 + \frac{2v_{cs}}{\delta_{cr,N}}} \Rightarrow \Psi_{ce,Nx} \cdot \Psi_{ce,Ny} = 1.000 \cdot 1.000 = 1.000 \leq 1$$

Equazione
(5.3e)

$V_{Rk,op}$ kN	γ_{Mop}	$V_{Rd,op}$ kN	V_{sd} kN	$\beta_{V,op}$ %
1,162.01	1.50	774.67	436.61	56.4

Ancorante n°	$\beta_{V,op}$ %	Gruppo n°	Beta decisivo
1, 2, 3	56.4	1	$\beta_{V,op;1}$

Resistenza alla combinazione di trazione e taglio

$\beta_V = \beta_{V;1} = 0.81 \leq 1$		Verifica soddisfatta	(5.9b)
---------------------------------------	---	----------------------	--------

Informazioni sulla piastra

Dettagli piastra di base

Spessore della piastra definito dall'utente senza verifiche

t = 20 mm

Dati di installazione

Ancorante

Sistema	fischer Sistema a iniezione FIS EM plus	
Ancorante chimico ad iniezione	FIS EM Plus 390 S (sono disponibili altri formati della cartuccia)	Articolo 544163
Elemento di fissaggio	Barra filettata FIS AM 30 x 550 8.8, Acciaio zincato, Classe di resistenza 8.8	Articolo 558869
Accessorio	FIS MR Plus	Articolo 545853
	Tubo flessibile da 9mm	Articolo 48983
	Adattatore da iniezione da 35mm	Articolo 90899
	Dispenser FIS DM S	Articolo 511118
	Pistola ad aria compressa ABS	Articolo 93286
	Pistola ad aria compressa (p >= 6 bar)	Fornito dal cliente
	Tubo flessibile da 9mm	Articolo 19705
	Ugello ad aria compressa D30-D35	Articolo 511959
	BSD 35	Articolo 90071
	Mandrino SDS con filettatura interna M8	Articolo 530332
	Estensione per scovolino	Articolo 508791
	Punta SDS Max IV 35/450/570 o alternativamente FHD Max 35/650/870	Articolo 504258
	Foratura a roto-percussione con o senza aspirazione	Articolo 548807
Cartucce alternative	FIS EM Plus 585 S	Articolo 544164
	FIS EM Plus 1500 S	Articolo 544167
	La cartucce mostrate sono alternative a quella evidenziata con lo stesso numero di Benestare/Valutazione.	



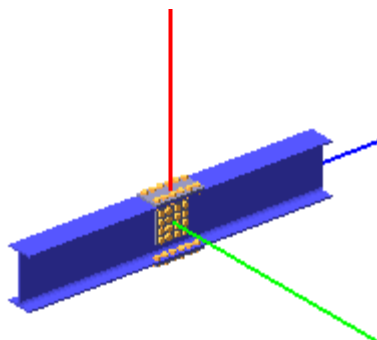
Dettagli di installazione

Filettatura	M 30
Diametro del foro	$d_0 = 35 \text{ mm}$
Profondità di foratura	$h_2 = 370 \text{ mm}$
Profondità di ancoraggio	$h_{ef} = 350 \text{ mm}$
Metodo di foratura	Rotopercussione
Pulizia del foro	Pulire con 2 soffiare, 2 spazzolate e 2 soffiare eseguite con idonei pistola ad aria compressa e scovolino
	Nessuna pulizia del foro richiesta in caso di utilizzo di una punta cava, per es. fischer FHD
Tipo di installazione	Installazione passante
Spazio anulare tra foro della piastra e barra	Spazio anulare tra foro della piastra e barra riempito
Coppia di serraggio massima	$T_{inst,max} = 300.0 \text{ Nm}$
Dimensioni della chiave	46 mm
Spessore della piastra di base	$t = 20 \text{ mm}$
t fix	$t_{fix} = 20 \text{ mm}$
Tfix,max	
Consumo di resina per foro	162 ml/81 Unità graduate



COLLEGAMENTO INTERRUZIONE CORRENTE INFERIORE CAPRIATA

Verifica secondo il D.M. 17/01/2018 dei nodi: 88, 89, 90, 111, 112, 226, 228, 291, 292, 293, 294, 691, 695, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1273, 1285, 1287



Coefficienti di sicurezza utilizzati

$$\gamma_{M0} = 1.05$$

$$\gamma_{M1} = 1.10$$

$$\gamma_{M2} = 1.25$$

Trave 3

Tipo di profilo: IPE 300

Materiale: Acciaio S355 $f_y = 355 \text{ N/mm}^2$ $f_t = 510 \text{ N/mm}^2$ $\gamma_{ov} = 1.25$

Classe sezione: 1

Coprigiunti:

Materiale: Acciaio S355 $f_y = 355 \text{ N/mm}^2$ $f_t = 510 \text{ N/mm}^2$ $\gamma_{ov} = 1.25$

Coprigiunti ala [mm]: 150.0 x 285.6 x 12 (piastra esterna)

Coprigiunti anima [mm]: 189.0 x 193.2 x 8 (due piastre)

Bullonature:

Viti cl. 8.8 Dadi 8 o 10 ($f_{yb} = 640 \text{ N/mm}^2$, $f_{tb} = 800 \text{ N/mm}^2$)

Diametro gambo $\varnothing = 20 \text{ mm}$ $A_{res} = 245.0 \text{ mm}^2$ (ridotta per filettatura)

Diametro dado/testa $d_m = 30 \text{ mm}$

Diametro foro $\varnothing_0 = 21 \text{ mm}$

Numero superfici di taglio: ala $n_{sl} = 1$, anima $n_{sn} = 2$

Sollecitazioni:

Nodo.CMB	V2 [N]	V3 [N]	N [N]	M2 [N mm]	M3 [N mm]	T [N mm]
88.1	-1104.7	5332.1	4695.5	-2052000.0	8965000.0	-136.0
88.2	-805.1	3851.7	3757.7	-1482000.0	6294000.0	-90.0
88.3	-1087.6	5560.6	4936.5	-2139000.0	8418000.0	-117.0
88.4	-786.9	4093.5	3997.7	-1573000.0	5747000.0	-72.0
88.5	-1048.0	7303.8	7645.3	-2813000.0	6895000.0	-77.0
88.6	-825.8	5810.7	6816.1	-2238000.0	4223000.0	-34.0
88.7	-1015.9	15015.3	14796.6	-5792000.0	66040000.0	-1180.0
88.8	-734.3	13538.8	13884.2	-5223000.0	63360000.0	-1134.0
88.9	-939.5	12597.1	12164.6	-4858000.0	51960000.0	-909.0
88.10	-746.4	11152.5	11379.4	-4301000.0	49290000.0	-879.0
88.11	-931.4	12807.8	12417.7	-4938000.0	51410000.0	-891.0
88.12	-661.5	11346.1	11522.6	-4375000.0	48740000.0	-846.0
88.13	-1024.6	14635.5	15317.9	-5644000.0	49890000.0	-870.0
88.14	-747.4	13148.0	14411.5	-5071000.0	47220000.0	-824.0
88.15	-1114.1	6269.1	5702.2	-2414000.0	14510000.0	-239.0
88.16	-1089.7	4406.2	3680.9	-1695000.0	3418000.0	-33.0
88.17	-817.0	4781.5	4767.9	-1841000.0	11840000.0	-193.0

88.18	-792.0	2924.0	2745.7	-1124000.0	746782.0	13.0
88.19	-1019.5	6887.2	6231.1	-2653000.0	18210000.0	-302.0
88.20	-1079.8	3790.2	3004.6	-1457000.0	-280026.0	36.0
88.21	-747.3	5396.9	5331.6	-2079000.0	15540000.0	-258.0
88.22	-785.4	2302.6	2073.9	-883595.0	-2951000.0	82.0
88.23	-1041.3	6479.9	5864.5	-2494000.0	13970000.0	-218.0
88.24	-1065.7	4639.9	3912.4	-1783000.0	2871000.0	-14.0
88.25	-805.8	5017.5	5017.6	-1930000.0	11290000.0	-175.0
88.26	-774.9	3161.1	2987.2	-1213000.0	199514.0	32.0
88.27	-1021.1	8229.9	8600.7	-3171000.0	12440000.0	-176.0
88.28	-1112.8	6362.1	6742.5	-2450000.0	1347000.0	24.0
88.29	-828.8	6746.8	7814.2	-2599000.0	9771000.0	-140.0
88.30	-819.8	4875.3	5813.9	-1877000.0	-1324000.0	69.0
88.31	-1010.4	15953.6	15782.8	-6154000.0	71580000.0	-1283.0
88.32	-997.0	14093.4	13776.9	-5436000.0	60490000.0	-1076.0
88.33	-732.0	14474.2	14874.9	-5584000.0	68910000.0	-1237.0
88.34	-719.3	12612.5	12869.9	-4865000.0	57820000.0	-1029.0
88.35	-945.3	14143.1	13828.4	-5455000.0	61200000.0	-1082.0
88.36	-984.8	11048.4	10572.9	-4260000.0	42710000.0	-743.0
88.37	-673.8	12662.0	12930.2	-4885000.0	58530000.0	-1037.0
88.38	-765.5	9589.4	9750.0	-3698000.0	40040000.0	-709.0
88.39	-952.7	13517.9	13176.2	-5214000.0	57510000.0	-1013.0
88.40	-976.8	11674.3	11224.3	-4502000.0	46410000.0	-811.0
88.41	-680.9	12037.3	12277.8	-4643000.0	54830000.0	-969.0
88.42	-762.4	10216.7	10408.3	-3940000.0	43740000.0	-778.0
88.43	-919.0	13746.3	13394.1	-5300000.0	56960000.0	-993.0
88.44	-943.6	11870.4	11441.1	-4576000.0	45860000.0	-789.0
88.45	-649.2	12285.4	12499.1	-4737000.0	54290000.0	-948.0
88.46	-673.4	10408.1	10545.5	-4012000.0	43190000.0	-744.0
88.47	-1019.2	15577.4	16304.5	-6008000.0	55430000.0	-973.0
88.48	-1031.0	13693.5	14332.9	-5280000.0	44340000.0	-768.0
88.49	-740.3	14091.2	15395.6	-5435000.0	52760000.0	-927.0
88.50	-753.9	12206.5	13426.5	-4708000.0	41670000.0	-721.0
88.51	2117.4	8395.6	-8085.7	-3222000.0	10690000.0	345.0
88.52	2294.1	7782.3	-8819.3	-2981000.0	8021000.0	384.0
88.53	4018.9	12637.7	-16182.6	-4833000.0	11840000.0	651.0
88.54	4223.2	12327.8	-16956.6	-4689000.0	9173000.0	688.0
88.55	2131.0	8503.3	-7843.1	-3263000.0	10150000.0	363.0
88.56	2308.8	7890.9	-8579.1	-3022000.0	7474000.0	402.0
88.57	2190.5	9140.5	-5203.6	-3517000.0	8622000.0	407.0
88.58	2381.3	8568.6	-5956.0	-3292000.0	5951000.0	446.0
88.59	2057.2	12462.1	2002.3	-4827000.0	67760000.0	-658.0
88.60	2338.2	11326.1	1104.7	-4388000.0	65090000.0	-617.0
88.61	2064.1	10534.4	-510.9	-4080000.0	53690000.0	-406.0
88.62	2380.5	9571.7	-1452.6	-3706000.0	51010000.0	-368.0
88.63	4478.3	15522.4	-9275.6	-5983000.0	54840000.0	-103.0
88.64	4697.7	14830.2	-10074.8	-5710000.0	52170000.0	-62.0
88.65	2128.6	10568.7	-343.7	-4092000.0	53140000.0	-390.0
88.66	2399.1	9600.3	-1222.0	-3716000.0	50470000.0	-349.0
88.67	2128.6	12148.9	2413.7	-4704000.0	51620000.0	-344.0
88.68	2402.3	10931.2	1522.6	-4234000.0	48940000.0	-304.0
88.69	-4133.4	8598.9	7618.6	-3287000.0	10690000.0	-662.0
88.70	-3823.4	7881.5	6623.5	-3008000.0	8021000.0	-613.0
88.71	-6099.3	12657.3	9389.1	-4830000.0	11840000.0	-1005.0
88.72	-5778.7	12068.9	8384.4	-4590000.0	9173000.0	-951.0
88.73	-4118.3	8674.8	7867.2	-3316000.0	10150000.0	-643.0
88.74	-3811.0	7887.9	6880.0	-3010000.0	7474000.0	-593.0
88.75	-4191.3	9325.0	10793.2	-3573000.0	8622000.0	-611.0
88.76	-3860.9	8814.5	9761.6	-3373000.0	5951000.0	-562.0
88.77	-4407.2	13835.5	18482.6	-5337000.0	67760000.0	-1731.0
88.78	-4079.1	12673.7	17482.8	-4889000.0	65090000.0	-1684.0
88.79	-4342.0	11941.2	15826.9	-4604000.0	53690000.0	-1468.0

88.80	-4038.8	10877.2	14858.6	-4192000.0	51010000.0	-1421.0
88.81	-6328.2	15879.0	17653.7	-6092000.0	54840000.0	-1816.0
88.82	-5980.7	15479.4	16594.2	-5934000.0	52170000.0	-1767.0
88.83	-4332.9	12037.2	16083.4	-4640000.0	53140000.0	-1450.0
88.84	-4024.0	10979.5	15105.7	-4231000.0	50470000.0	-1401.0
88.85	-4366.9	13449.4	18921.7	-5187000.0	51610000.0	-1416.0
88.86	-4059.8	12290.4	17950.8	-4740000.0	48940000.0	-1367.0
88.87	-9089.3	8923.2	7382.9	-3433000.0	23320000.0	1072.0
88.88	-8812.0	7299.5	6474.3	-2808000.0	20650000.0	1112.0
88.89	-11724.9	9912.0	8292.7	-3813000.0	28020000.0	1462.0
88.90	-11447.3	8299.2	7383.7	-3192000.0	25350000.0	1501.0
88.91	-9087.6	9202.8	7641.4	-3540000.0	22770000.0	1091.0
88.92	-8793.9	7591.1	6710.3	-2919000.0	20100000.0	1131.0
88.93	-9062.9	11064.3	10377.4	-4259000.0	21250000.0	1133.0
88.94	-8966.7	9478.3	9723.3	-3648000.0	18580000.0	1174.0
88.95	-9103.1	9946.0	8399.6	-3828000.0	28870000.0	975.0
88.96	-9108.1	7880.6	6411.8	-3031000.0	17770000.0	1166.0
88.97	-8807.9	8337.7	7466.3	-3208000.0	26200000.0	1014.0
88.98	-8829.3	6258.4	5501.1	-2406000.0	15100000.0	1207.0
88.99	-9117.7	10660.9	9084.9	-4104000.0	32570000.0	911.0
88.100	-9109.9	7190.3	5749.2	-2765000.0	14070000.0	1231.0
88.101	-8835.9	9042.8	8170.1	-3481000.0	29890000.0	951.0
88.102	-8816.7	5564.3	4818.5	-2138000.0	11400000.0	1271.0
88.103	-11757.7	10967.3	9335.6	-4221000.0	33570000.0	1366.0
88.104	-11745.8	8865.8	7324.6	-3410000.0	22470000.0	1555.0
88.105	-11475.9	9350.3	8420.8	-3598000.0	30900000.0	1406.0
88.106	-11466.7	7255.2	6413.4	-2789000.0	19800000.0	1595.0
88.107	-9059.2	10243.0	8598.9	-3941000.0	28320000.0	995.0
88.108	-9231.9	8200.0	6846.4	-3153000.0	17230000.0	1186.0
88.109	-8805.4	8615.7	7723.7	-3315000.0	25650000.0	1034.0
88.110	-8908.2	6560.3	5873.4	-2521000.0	14550000.0	1224.0
88.111	-9309.2	12079.6	11722.0	-4651000.0	26800000.0	1037.0
88.112	-9068.6	10036.3	9387.6	-3862000.0	15700000.0	1231.0
88.113	-8817.5	10488.6	10511.5	-4038000.0	24130000.0	1076.0
88.114	-8954.6	8445.9	8708.6	-3250000.0	13030000.0	1272.0
88.115	-5756.4	9582.9	-5655.0	-3690000.0	25050000.0	1527.0
88.116	-5544.4	8900.6	-6441.9	-3422000.0	22380000.0	1566.0
88.117	-3747.0	13442.7	-13924.3	-5155000.0	26200000.0	1835.0
88.118	-3625.6	13097.2	-14568.6	-5017000.0	23530000.0	1870.0
88.119	-8327.8	9800.6	-4866.3	-3783000.0	29750000.0	1914.0
88.120	-8098.9	9412.7	-5674.1	-3622000.0	27080000.0	1956.0
88.121	-5738.4	9674.9	-5420.2	-3725000.0	24500000.0	1546.0
88.122	-5534.9	9015.6	-6195.1	-3465000.0	21830000.0	1584.0
88.123	-5680.5	9733.3	-2800.3	-3760000.0	22980000.0	1587.0
88.124	-5475.9	9680.2	-3553.6	-3730000.0	20310000.0	1627.0
88.125	-12322.9	9185.5	10697.1	-3519000.0	25050000.0	499.0
88.126	-11946.4	9346.6	9563.2	-3581000.0	22380000.0	548.0
88.127	-14181.1	14619.4	12255.6	-5589000.0	26200000.0	153.0
88.128	-13871.1	13976.8	11258.0	-5339000.0	23530000.0	201.0
88.129	-14966.2	9603.8	11622.7	-3691000.0	29750000.0	878.0
88.130	-14642.3	9000.6	10622.4	-3447000.0	27080000.0	929.0
88.131	-12294.8	9251.3	10909.5	-3552000.0	24500000.0	517.0
88.132	-11917.6	9382.6	9796.4	-3592000.0	21830000.0	567.0
88.133	-12335.9	10072.3	13782.2	-3875000.0	22980000.0	551.0
88.134	-12019.0	9367.5	12780.3	-3600000.0	20310000.0	601.0
88.135	6929.3	7532.8	7502.4	-2906000.0	23320000.0	-1845.0
88.136	7243.6	6024.1	6542.0	-2324000.0	20650000.0	-1790.0
88.137	9569.3	8229.3	8406.6	-3176000.0	28020000.0	-2398.0
88.138	9867.5	6737.6	7470.0	-2601000.0	25350000.0	-2347.0
88.139	6955.6	7748.6	7729.9	-2987000.0	22770000.0	-1823.0
88.140	7251.5	6252.7	6796.5	-2411000.0	20100000.0	-1773.0
88.141	6930.8	9518.2	10530.7	-3671000.0	21250000.0	-1791.0

88.142	7234.2	8025.9	9586.9	-3096000.0	18580000.0	-1742.0
88.143	6924.0	8479.7	8504.5	-3271000.0	28870000.0	-1951.0
88.144	6960.2	6575.7	6463.3	-2536000.0	17770000.0	-1732.0
88.145	7217.4	6977.7	7574.4	-2693000.0	26200000.0	-1901.0
88.146	7254.7	5075.0	5531.7	-1958000.0	15100000.0	-1684.0
88.147	6919.8	9110.3	9173.5	-3515000.0	32570000.0	-2021.0
88.148	6970.7	5947.9	5785.5	-2293000.0	14070000.0	-1661.0
88.149	7213.9	7609.2	8242.3	-2936000.0	29890000.0	-1972.0
88.150	7258.9	4450.5	4863.0	-1717000.0	11400000.0	-1614.0
88.151	9565.2	9175.4	9407.1	-3541000.0	33570000.0	-2504.0
88.152	9591.5	7283.3	7380.4	-2810000.0	22470000.0	-2288.0
88.153	9857.5	7675.2	8478.3	-2963000.0	30900000.0	-2455.0
88.154	9891.4	5779.3	6441.1	-2231000.0	19800000.0	-2238.0
88.155	6944.6	8684.9	8739.8	-3349000.0	28320000.0	-1930.0
88.156	6989.0	6789.1	6687.4	-2616000.0	17230000.0	-1711.0
88.157	7243.2	7194.2	7802.6	-2774000.0	25650000.0	-1879.0
88.158	7276.1	5291.5	5766.4	-2040000.0	14550000.0	-1664.0
88.159	6925.5	10464.3	11532.7	-4037000.0	26800000.0	-1897.0
88.160	6946.1	8581.0	9515.0	-3309000.0	15700000.0	-1685.0
88.161	7219.4	8964.1	10601.9	-3459000.0	24130000.0	-1849.0
88.162	7237.2	7077.1	8588.0	-2730000.0	13030000.0	-1636.0
88.163	10075.1	9462.3	-5205.3	-3650000.0	25050000.0	-1331.0
88.164	10324.0	9019.4	-6030.8	-3474000.0	22380000.0	-1290.0
88.165	12129.0	14277.4	-13484.0	-5483000.0	26200000.0	-1026.0
88.166	12373.6	13450.2	-14321.6	-5161000.0	23530000.0	-985.0
88.167	12711.8	9610.9	-4297.3	-3723000.0	29750000.0	-1881.0
88.168	12961.2	9443.0	-5125.4	-3645000.0	27080000.0	-1841.0
88.169	10100.3	9586.4	-4978.8	-3698000.0	24500000.0	-1310.0
88.170	10338.9	9106.2	-5790.4	-3508000.0	21830000.0	-1272.0
88.171	10170.6	8863.4	-2416.9	-3432000.0	22980000.0	-1273.0
88.172	10383.0	9640.0	-3137.1	-3722000.0	20310000.0	-1230.0
88.173	3797.6	9424.6	10724.0	-3616000.0	25050000.0	-2354.0
88.174	4133.3	9079.6	9675.1	-3481000.0	22380000.0	-2306.0
88.175	1869.6	13824.0	12434.1	-5286000.0	26200000.0	-2699.0
88.176	2177.2	13041.7	11444.9	-4982000.0	23530000.0	-2649.0
88.177	6427.1	9839.3	11688.5	-3779000.0	29750000.0	-2909.0
88.178	6745.1	9418.0	10668.4	-3614000.0	27080000.0	-2860.0
88.179	3820.3	9469.8	10964.0	-3632000.0	24500000.0	-2336.0
88.180	4141.8	9086.1	9939.0	-3481000.0	21830000.0	-2288.0
88.181	3760.9	10257.1	13847.8	-3950000.0	22980000.0	-2303.0
88.182	4085.8	9585.3	12848.3	-3680000.0	20310000.0	-2254.0
88.183	-1004.6	2502.9	4443.2	-983647.0	8965000.0	-116.0
88.184	-703.5	1296.8	3517.4	-519362.0	6294000.0	-74.0
88.185	-982.3	2682.8	4674.8	-1051000.0	8418000.0	-97.0
88.186	-690.7	1453.7	3761.5	-578520.0	5746000.0	-56.0
88.187	-944.9	1325.2	4319.2	-544210.0	8965000.0	-113.0
88.188	-683.3	233.5	3451.1	-122598.0	6293000.0	-73.0
88.189	-1021.6	4263.0	7485.6	-1662000.0	6894000.0	-57.0
88.190	-727.8	2908.1	6562.8	-1141000.0	4223000.0	-15.0
88.191	-1111.3	11955.7	14806.9	-4634000.0	66040000.0	-1164.0
88.192	-847.3	10475.3	13918.9	-4063000.0	63360000.0	-1105.0
88.193	-1079.1	9567.2	12239.5	-3712000.0	51960000.0	-909.0
88.194	-808.0	8085.1	11341.5	-3140000.0	49290000.0	-852.0
88.195	-1019.6	9837.0	12423.5	-3814000.0	51410000.0	-898.0
88.196	-799.7	8303.0	11594.7	-3223000.0	48740000.0	-833.0
88.197	-1051.2	7555.7	12119.4	-2951000.0	51960000.0	-886.0
88.198	-760.6	6177.8	11199.8	-2420000.0	49290000.0	-844.0
88.199	-1076.8	11544.6	15266.5	-4474000.0	49890000.0	-852.0
88.200	-882.1	10006.9	14472.5	-3882000.0	47220000.0	-783.0
88.201	-9019.8	6038.7	7167.8	-2345000.0	23320000.0	1080.0
88.202	-8847.9	4606.8	6413.4	-1794000.0	20650000.0	1105.0
88.203	-11635.0	7328.9	8054.8	-2841000.0	28020000.0	1472.0

88.204	-11380.5	5829.7	7181.2	-2265000.0	25350000.0	1505.0
88.205	-9021.3	6271.7	7434.8	-2434000.0	22770000.0	1096.0
88.206	-8837.2	4827.9	6662.1	-1878000.0	20100000.0	1124.0
88.207	-9053.9	4168.9	7142.4	-1639000.0	23320000.0	1063.0
88.208	-8762.3	2864.6	6225.0	-1137000.0	20650000.0	1103.0
88.209	-8999.1	8028.3	10169.0	-3112000.0	21250000.0	1141.0
88.210	-8854.9	6589.3	9453.0	-2558000.0	18580000.0	1167.0
88.211	7071.2	4689.5	7190.1	-1832000.0	23320000.0	-1818.0
88.212	7347.1	3409.5	6296.3	-1339000.0	20650000.0	-1773.0
88.213	9704.8	5401.0	8104.4	-2108000.0	28020000.0	-2376.0
88.214	9985.9	4118.4	7202.9	-1614000.0	25350000.0	-2328.0
88.215	7084.6	4870.0	7434.3	-1900000.0	22770000.0	-1800.0
88.216	7361.0	3578.5	6539.3	-1403000.0	20100000.0	-1755.0
88.217	7097.3	3384.6	7109.7	-1345000.0	23320000.0	-1811.0
88.218	7431.1	2260.5	6140.6	-910936.1	20650000.0	-1762.0
88.219	7078.6	6477.4	10199.6	-2521000.0	21250000.0	-1764.0
88.220	7358.8	5106.1	9295.0	-1993000.0	18580000.0	-1719.0
88.221	-1081.4	5606.8	4692.3	-2156000.0	8965000.0	-132.0
88.222	-823.6	4046.8	3808.6	-1555000.0	6294000.0	-87.0
88.223	-1100.1	5823.6	4982.7	-2238000.0	8418000.0	-114.0
88.224	-797.7	4282.9	4036.3	-1644000.0	5747000.0	-69.0
88.225	-1092.2	5620.0	4717.6	-2160000.0	8966000.0	-133.0
88.226	-838.2	4033.5	3839.4	-1549000.0	6294000.0	-87.0
88.227	-1045.7	7649.5	7676.6	-2944000.0	6895000.0	-70.0
88.228	-770.1	6096.3	6767.7	-2346000.0	4223000.0	-27.0
88.229	-1070.7	15513.3	14919.4	-5982000.0	66040000.0	-1178.0
88.230	-765.1	14052.6	13973.4	-5419000.0	63360000.0	-1126.0
88.231	-1053.6	13135.4	12372.9	-5063000.0	51960000.0	-924.0
88.232	-778.6	11662.2	11470.4	-4496000.0	49290000.0	-873.0
88.233	-1045.2	13377.2	12626.7	-5155000.0	51410000.0	-906.0
88.234	-765.5	11917.1	11717.7	-4592000.0	48740000.0	-858.0
88.235	-1072.0	13412.7	12424.7	-5169000.0	51960000.0	-922.0
88.236	-788.3	11899.9	11506.5	-4585000.0	49290000.0	-874.0
88.237	-1056.4	15134.3	15407.9	-5834000.0	49890000.0	-864.0
88.238	-777.6	13670.1	14500.0	-5270000.0	47220000.0	-817.0
88.239	-9094.9	9091.5	7402.1	-3495000.0	23320000.0	1074.0
88.240	-8818.8	7477.4	6494.7	-2874000.0	20650000.0	1115.0
88.241	-11729.9	10091.4	8311.0	-3880000.0	28020000.0	1465.0
88.242	-11454.4	8469.3	7404.9	-3255000.0	25350000.0	1506.0
88.243	-9079.6	9329.9	7644.2	-3586000.0	22770000.0	1093.0
88.244	-8799.9	7760.8	6729.8	-2982000.0	20100000.0	1134.0
88.245	-9116.9	9089.1	7443.2	-3494000.0	23320000.0	1070.0
88.246	-8835.5	7517.7	6526.3	-2889000.0	20650000.0	1112.0
88.247	-9093.9	11155.6	10435.6	-4292000.0	21250000.0	1135.0
88.248	-8800.6	9604.5	9502.0	-3694000.0	18580000.0	1175.0
88.249	6888.3	8019.6	7604.9	-3091000.0	23320000.0	-1844.0
88.250	7202.3	6488.4	6644.1	-2501000.0	20650000.0	-1789.0
88.251	9538.4	8706.6	8494.3	-3358000.0	28020000.0	-2395.0
88.252	9827.9	7192.3	7569.2	-2774000.0	25350000.0	-2346.0
88.253	6917.7	8223.7	7827.5	-3168000.0	22770000.0	-1820.0
88.254	7216.5	6724.2	6889.5	-2590000.0	20100000.0	-1770.0
88.255	6864.6	8311.4	7666.7	-3202000.0	23320000.0	-1843.0
88.256	7256.4	6791.0	6596.9	-2617000.0	20650000.0	-1790.0
88.257	6898.3	10003.1	10620.8	-3856000.0	21250000.0	-1788.0
88.258	7199.2	8504.2	9680.3	-3279000.0	18580000.0	-1738.0
88.401	4702.2	22493.8	-49762.2	-7850000.0	5191000.0	3547.0
88.402	4243.6	22288.2	-47662.7	-7830000.0	12250000.0	3403.0
88.403	3428.9	55081.7	-47565.0	-21450000.0	8056000.0	4114.0
88.404	3045.1	54259.2	-45635.1	-21180000.0	15110000.0	3972.0
88.405	-4460.9	34895.9	49360.0	-12550000.0	150169.0	-4188.0
88.406	-5014.6	34638.0	51740.4	-12500000.0	7207000.0	-4383.0
88.407	-6120.4	56249.1	53634.1	-22050000.0	3015000.0	-3582.0

88.408	-6697.3	56550.5	56057.3	-22190000.0	10070000.0	-3780.0
88.409	4596.6	19169.0	-49688.8	-7019000.0	5044000.0	3554.0
88.410	4111.7	19601.8	-47551.0	-7219000.0	12100000.0	3412.0
88.411	3606.0	56926.7	-47767.6	-21760000.0	8203000.0	4104.0
88.412	3216.7	56153.8	-45822.0	-21500000.0	15260000.0	3962.0
88.413	-4485.2	35439.9	49317.2	-12950000.0	3369.0	-4177.0
88.414	-5051.5	34424.3	51708.2	-12630000.0	7060000.0	-4372.0
88.415	-6011.6	57125.0	53559.0	-22140000.0	3162000.0	-3590.0
88.416	-6571.6	57677.4	55957.5	-22370000.0	10220000.0	-3787.0
88.417	4466.6	24495.2	-55260.4	-8425000.0	5228000.0	3191.0
88.418	4057.8	24025.7	-53216.1	-8319000.0	12280000.0	3044.0
88.419	3156.3	54895.2	-52957.6	-21330000.0	8093000.0	3743.0
88.420	2802.9	54502.9	-51042.9	-21220000.0	15150000.0	3599.0
88.421	-4317.4	38093.9	55021.3	-13670000.0	113489.0	-3808.0
88.422	-4919.7	37002.5	57463.9	-13330000.0	7170000.0	-3997.0
88.423	-5829.6	60662.1	58931.4	-23710000.0	2978000.0	-3212.0
88.424	-6488.5	60356.0	61493.8	-23630000.0	10040000.0	-3406.0
88.425	4447.8	19886.4	-55315.7	-7149000.0	5081000.0	3215.0
88.426	4045.0	20052.1	-53280.7	-7267000.0	12140000.0	3070.0
88.427	3325.8	56912.4	-53124.6	-21710000.0	8239000.0	3728.0
88.428	2981.9	56451.7	-51226.6	-21580000.0	15300000.0	3584.0
88.429	-4289.9	37500.6	54891.0	-13680000.0	-33290.0	-3804.0
88.430	-4904.4	36280.9	57347.7	-13300000.0	7023000.0	-3992.0
88.431	-5779.1	62054.6	58922.8	-23990000.0	3125000.0	-3218.0
88.432	-6409.0	62274.8	61436.0	-24100000.0	10180000.0	-3412.0
88.433	2642.1	-38377.6	-17000.1	16980000.0	85149.0	86.0
88.434	2196.4	-37200.8	-14920.7	16540000.0	7142000.0	-85.0
88.435	-953.2	57686.5	-10177.1	-24490000.0	9635000.0	2050.0
88.436	-1426.6	58797.5	-8022.6	-24970000.0	16690000.0	1908.0
88.437	586.0	-34489.5	10462.5	15570000.0	-1427000.0	-2074.0
88.438	45.0	-32918.8	12843.4	14990000.0	5630000.0	-2251.0
88.439	-4684.6	50856.6	22910.4	-21970000.0	8122000.0	-177.0
88.440	-5185.3	52997.3	25079.9	-22870000.0	15180000.0	-364.0
88.441	2725.1	-39057.8	-18880.2	17260000.0	96115.0	21.0
88.442	2293.5	-37870.6	-16823.5	16820000.0	7153000.0	-137.0
88.443	-1018.6	57821.9	-11795.2	-24540000.0	9646000.0	1933.0
88.444	-1462.0	58924.1	-9683.3	-25010000.0	16700000.0	1784.0
88.445	550.3	-34437.0	12298.4	15540000.0	-1438000.0	-2013.0
88.446	-27.4	-33176.2	14726.3	15070000.0	5619000.0	-2193.0
88.447	-4624.9	51631.8	24549.6	-22270000.0	8111000.0	-58.0
88.448	-5163.0	53859.7	26770.7	-23190000.0	15170000.0	-245.0
88.449	2338.3	-42583.9	-16831.3	17410000.0	-404352.0	102.0
88.450	1826.7	-41578.5	-14674.7	17030000.0	6652000.0	-66.0
88.451	-504.3	69897.6	-10272.4	-27910000.0	10120000.0	1975.0
88.452	-897.8	71104.2	-8227.3	-28420000.0	17180000.0	1828.0
88.453	529.6	-44669.8	10254.4	18270000.0	-1916000.0	-2116.0
88.454	-90.9	-43819.3	12740.6	17930000.0	5140000.0	-2282.0
88.455	-4409.8	58636.2	23013.1	-23750000.0	8611000.0	-223.0
88.456	-4792.7	60502.1	25024.9	-24540000.0	15670000.0	-404.0
88.457	2346.0	-43191.8	-18600.5	17650000.0	-393401.0	24.0
88.458	1847.3	-42147.5	-16461.0	17270000.0	6663000.0	-140.0
88.459	-589.4	69980.4	-11863.8	-27930000.0	10140000.0	1848.0
88.460	-952.7	71198.6	-9861.0	-28450000.0	17190000.0	1697.0
88.461	539.5	-44518.6	12032.9	18210000.0	-1927000.0	-2049.0
88.462	-91.3	-43887.6	14523.9	17950000.0	5129000.0	-2231.0
88.463	-4391.2	59026.8	24704.7	-23920000.0	8600000.0	-108.0
88.464	-4807.8	60909.9	26762.9	-24720000.0	15660000.0	-285.0
88.529	2009.4	-4834.9	-17187.0	2546000.0	-4805000.0	990.0
88.530	367.3	-3468.2	-10027.7	1935000.0	18720000.0	463.0
88.531	794.4	26184.2	-14968.7	-10610000.0	-1940000.0	1580.0
88.532	-414.6	20130.2	-8829.7	-8418000.0	21580000.0	1079.0
88.533	-630.4	455.1	11946.6	579791.0	-6318000.0	-1256.0

88.534	-2390.5	466.7	19786.5	490129.0	17200000.0	-1874.0
88.535	-2451.7	16117.0	16690.2	-6742000.0	-3453000.0	-664.0
88.536	-4165.3	22062.5	24065.5	-9244000.0	20070000.0	-1313.0
88.537	1917.4	-6770.2	-17137.3	2906000.0	-4952000.0	997.0
88.538	236.3	-4855.3	-9922.6	2104000.0	18570000.0	465.0
88.539	1006.3	27499.6	-15231.4	-10720000.0	-1794000.0	1561.0
88.540	-128.4	23198.2	-9090.1	-9217000.0	21730000.0	1059.0
88.541	-639.6	127.4	11881.3	473614.0	-6464000.0	-1261.0
88.542	-2565.2	-2425.8	19945.4	1260000.0	17060000.0	-1877.0
88.543	-2370.6	17253.1	16691.9	-6901000.0	-3306000.0	-674.0
88.544	-3954.4	23850.3	23919.0	-9587000.0	20220000.0	-1317.0
88.545	1999.4	-5578.2	-18930.0	2842000.0	-4794000.0	904.0
88.546	493.8	-3790.8	-11951.8	2076000.0	18730000.0	375.0
88.547	695.2	25834.1	-16572.5	-10460000.0	-1929000.0	1465.0
88.548	-399.9	20521.7	-10549.5	-8556000.0	21590000.0	966.0
88.549	-628.3	749.7	13706.1	475121.0	-6329000.0	-1162.0
88.550	-2487.1	822.5	21678.1	352863.0	17190000.0	-1746.0
88.551	-2351.8	17221.7	18259.2	-7162000.0	-3464000.0	-557.0
88.552	-4151.9	23344.9	25762.4	-9729000.0	20060000.0	-1202.0
88.553	1919.2	-7524.0	-18898.4	3207000.0	-4941000.0	920.0
88.554	353.8	-5179.5	-11838.5	2248000.0	18580000.0	390.0
88.555	878.6	27625.1	-16764.2	-10760000.0	-1783000.0	1445.0
88.556	-188.1	23472.5	-10703.3	-9318000.0	21740000.0	941.0
88.557	-548.8	827.9	13514.7	224475.0	-6475000.0	-1163.0
88.558	-2562.2	-2122.7	21689.4	1137000.0	17050000.0	-1765.0
88.559	-2309.9	18229.8	18315.9	-7275000.0	-3317000.0	-559.0
88.560	-4027.4	24523.5	25748.0	-9853000.0	20210000.0	-1201.0
89.1	-1027.6	-5283.0	4606.2	2030000.0	8966000.0	-62.0
89.2	-788.2	-3824.5	3745.7	1470000.0	6294000.0	-39.0
89.3	-1063.8	-5530.4	4918.9	2125000.0	8418000.0	-43.0
89.4	-811.4	-4078.8	4040.3	1566000.0	5747000.0	-16.0
89.5	-1005.2	-7222.8	7611.0	2778000.0	6895000.0	8.5
89.6	-739.2	-5747.2	6713.7	2210000.0	4224000.0	35.0
89.7	-895.1	-14885.4	14709.4	5732000.0	66040000.0	-1038.0
89.8	-647.4	-13427.7	13837.4	5171000.0	63360000.0	-1013.0
89.9	-957.0	-12517.1	12257.1	4819000.0	51960000.0	-805.0
89.10	-680.7	-11050.5	11345.8	4255000.0	49290000.0	-770.0
89.11	-957.9	-12733.0	12521.8	4901000.0	51410000.0	-781.0
89.12	-691.1	-11280.1	11623.5	4342000.0	48740000.0	-751.0
89.13	-948.7	-14496.9	15281.5	5582000.0	49890000.0	-727.0
89.14	-676.0	-13020.4	14375.1	5014000.0	47220000.0	-700.0
89.15	-1151.2	-6228.3	5780.4	2395000.0	14510000.0	-149.0
89.16	-1069.4	-4373.6	3663.8	1680000.0	3418000.0	27.0
89.17	-765.5	-4745.9	4714.5	1825000.0	11840000.0	-130.0
89.18	-818.1	-2910.6	2786.8	1118000.0	746874.0	51.0
89.19	-1154.7	-6844.6	6452.5	2632000.0	18210000.0	-212.0
89.20	-1093.5	-3769.0	3030.3	1447000.0	-279900.0	86.0
89.21	-860.8	-5364.7	5515.9	2063000.0	15540000.0	-187.0
89.22	-835.5	-2297.3	2144.1	881211.1	-2951000.0	112.0
89.23	-1012.8	-6428.2	5848.6	2470000.0	13970000.0	-131.0
89.24	-1102.9	-4622.8	3972.8	1775000.0	2871000.0	47.0
89.25	-769.5	-4985.9	4982.6	1916000.0	11290000.0	-105.0
89.26	-839.8	-3158.6	3079.4	1212000.0	199596.0	74.0
89.27	-987.4	-8145.9	8586.6	3133000.0	12440000.0	-85.0
89.28	-1018.6	-6293.8	6629.3	2420000.0	1348000.0	101.0
89.29	-723.5	-6674.2	7692.3	2567000.0	9771000.0	-57.0
89.30	-754.2	-4819.6	5734.3	1853000.0	-1324000.0	127.0
89.31	-880.6	-15815.7	15689.4	6090000.0	71580000.0	-1130.0
89.32	-950.1	-13978.1	13784.6	5383000.0	60490000.0	-947.0
89.33	-615.9	-14348.1	14794.0	5526000.0	68910000.0	-1102.0
89.34	-695.0	-12514.3	12902.5	4820000.0	57820000.0	-922.0
89.35	-895.8	-14046.8	13840.0	5409000.0	61200000.0	-958.0

89.36	-978.9	-10970.6	10620.7	4223000.0	42710000.0	-649.0
89.37	-631.6	-12574.5	12945.1	4842000.0	58530000.0	-930.0
89.38	-702.4	-9498.0	9709.3	3657000.0	40040000.0	-616.0
89.39	-905.2	-13425.3	13186.1	5169000.0	57510000.0	-896.0
89.40	-972.7	-11592.7	11278.8	4463000.0	46410000.0	-711.0
89.41	-641.7	-11953.9	12292.5	4603000.0	54830000.0	-868.0
89.42	-693.6	-10119.5	10363.7	3896000.0	43740000.0	-677.0
89.43	-944.9	-13665.8	13503.8	5261000.0	56960000.0	-873.0
89.44	-971.1	-11801.4	11540.0	4542000.0	45860000.0	-689.0
89.45	-678.2	-12213.5	12605.5	4702000.0	54290000.0	-843.0
89.46	-704.8	-10348.0	10642.3	3983000.0	43190000.0	-659.0
89.47	-937.6	-15430.7	16266.1	5942000.0	55440000.0	-819.0
89.48	-957.7	-13562.6	14294.0	5222000.0	44340000.0	-635.0
89.49	-668.3	-13956.2	15364.3	5374000.0	52760000.0	-791.0
89.50	-685.2	-12086.6	13387.9	4654000.0	41670000.0	-608.0
89.51	2023.8	-8538.8	-7945.9	3281000.0	10690000.0	-882.0
89.52	2355.3	-8009.0	-8891.0	3073000.0	8021000.0	-844.0
89.53	4168.0	-12903.4	-16362.5	4953000.0	11840000.0	-1402.0
89.54	4457.2	-11831.7	-17246.2	4557000.0	9173000.0	-1367.0
89.55	2028.2	-8576.1	-7695.6	3294000.0	10150000.0	-861.0
89.56	2352.0	-8100.5	-8626.7	3108000.0	7474000.0	-822.0
89.57	2039.7	-9126.2	-4995.4	3514000.0	8622000.0	-823.0
89.58	2391.4	-8664.5	-5965.4	3332000.0	5951000.0	-786.0
89.59	2397.7	-12517.1	1531.9	4847000.0	67760000.0	-1904.0
89.60	2664.4	-11378.0	653.3	4407000.0	65090000.0	-1870.0
89.61	2395.4	-10599.5	-969.7	4105000.0	53690000.0	-1662.0
89.62	2628.9	-9704.4	-1790.9	3758000.0	51010000.0	-1625.0
89.63	4022.6	-15170.3	-8667.9	5847000.0	54840000.0	-2184.0
89.64	4312.4	-14690.6	-9548.8	5659000.0	52170000.0	-2148.0
89.65	2367.7	-10620.9	-674.3	4113000.0	53140000.0	-1637.0
89.66	2624.2	-9760.6	-1525.3	3780000.0	50470000.0	-1602.0
89.67	2400.4	-12173.8	2035.9	4713000.0	51620000.0	-1602.0
89.68	2649.1	-10966.4	1180.9	4247000.0	48940000.0	-1562.0
89.69	-4454.6	-9042.4	8012.4	3462000.0	10690000.0	652.0
89.70	-4125.3	-8313.8	6994.6	3179000.0	8021000.0	674.0
89.71	-6584.9	-13245.5	9996.6	5062000.0	11840000.0	1117.0
89.72	-6252.3	-12458.2	8957.2	4768000.0	9173000.0	1139.0
89.73	-4471.2	-9123.6	8304.8	3492000.0	10150000.0	679.0
89.74	-4146.1	-8403.6	7290.8	3214000.0	7474000.0	702.0
89.75	-4487.5	-9741.3	11148.5	3736000.0	8622000.0	730.0
89.76	-4178.7	-9223.9	10151.4	3534000.0	5951000.0	753.0
89.77	-4503.9	-13410.6	18606.5	5160000.0	67760000.0	-281.0
89.78	-4258.4	-12254.6	17726.5	4715000.0	65090000.0	-259.0
89.79	-4548.3	-11507.4	16112.2	4424000.0	53690000.0	-49.0
89.80	-4245.6	-10485.1	15144.8	4030000.0	51010000.0	-24.0
89.81	-6692.5	-16440.3	18074.6	6310000.0	54840000.0	423.0
89.82	-6402.6	-16023.9	17101.3	6146000.0	52170000.0	444.0
89.83	-4573.4	-11665.1	16411.4	4484000.0	53140000.0	-17.0
89.84	-4246.7	-10596.8	15413.2	4072000.0	50470000.0	1.6
89.85	-4599.7	-13062.7	19235.1	5026000.0	51620000.0	37.0
89.86	-4281.9	-11887.6	18254.0	4573000.0	48940000.0	55.0
89.87	-9189.2	-8797.5	7524.7	3383000.0	23320000.0	-1748.0
89.88	-8877.4	-7260.3	6563.8	2792000.0	20650000.0	-1712.0
89.89	-11802.8	-9855.4	8399.0	3791000.0	28020000.0	-2288.0
89.90	-11490.6	-8324.8	7437.9	3203000.0	25350000.0	-2251.0
89.91	-8967.2	-9017.5	7476.1	3465000.0	22770000.0	-1727.0
89.92	-8885.2	-7535.0	6837.1	2896000.0	20100000.0	-1687.0
89.93	-9189.1	-10819.2	10560.7	4160000.0	21250000.0	-1680.0
89.94	-8894.9	-9314.9	9623.9	3582000.0	18580000.0	-1647.0
89.95	-8952.7	-9724.4	8193.4	3739000.0	28870000.0	-1851.0
89.96	-9151.6	-7801.1	6472.5	2999000.0	17770000.0	-1646.0
89.97	-8896.4	-8243.9	7590.6	3171000.0	26200000.0	-1811.0

89.98	-8842.2	-6266.4	5515.1	2410000.0	15100000.0	-1610.0
89.99	-9200.7	-10423.0	9208.0	4008000.0	32570000.0	-1913.0
89.100	-9139.9	-7145.9	5789.5	2747000.0	14070000.0	-1580.0
89.101	-8892.5	-8892.7	8252.2	3420000.0	29890000.0	-1877.0
89.102	-8838.3	-5617.5	4842.7	2160000.0	11400000.0	-1544.0
89.103	-11799.1	-10830.7	9394.5	4166000.0	33570000.0	-2388.0
89.104	-11761.5	-8854.7	7341.8	3406000.0	22470000.0	-2185.0
89.105	-11491.6	-9299.3	8439.9	3578000.0	30900000.0	-2351.0
89.106	-11451.4	-7326.4	6383.5	2819000.0	19800000.0	-2149.0
89.107	-9185.3	-10020.4	8782.5	3851000.0	28320000.0	-1820.0
89.108	-9149.7	-8076.2	6732.5	3103000.0	17230000.0	-1620.0
89.109	-8684.5	-8468.1	7555.9	3255000.0	25650000.0	-1790.0
89.110	-8847.7	-6544.8	5785.1	2515000.0	14550000.0	-1584.0
89.111	-9206.6	-11796.0	11585.2	4536000.0	26800000.0	-1780.0
89.112	-9173.6	-9844.0	9539.0	3785000.0	15700000.0	-1583.0
89.113	-8909.1	-10280.0	10644.2	3954000.0	24130000.0	-1745.0
89.114	-8877.8	-8337.7	8599.9	3206000.0	13030000.0	-1549.0
89.115	-5878.9	-9561.7	-5491.7	3686000.0	25050000.0	-2535.0
89.116	-5582.8	-9011.0	-6386.4	3471000.0	22380000.0	-2500.0
89.117	-3800.5	-14143.2	-13803.9	5441000.0	26200000.0	-3062.0
89.118	-3382.8	-13843.6	-14861.1	5320000.0	23530000.0	-3018.0
89.119	-8470.1	-9199.2	-4721.8	3548000.0	29750000.0	-3078.0
89.120	-8174.2	-9483.8	-5571.9	3656000.0	27080000.0	-3049.0
89.121	-5884.7	-9638.6	-5224.7	3715000.0	24500000.0	-2512.0
89.122	-5571.5	-9164.7	-6139.0	3529000.0	21830000.0	-2475.0
89.123	-5846.8	-9446.2	-2595.3	3650000.0	22980000.0	-2474.0
89.124	-5567.0	-9702.6	-3430.6	3743000.0	20310000.0	-2437.0
89.125	-12346.8	-9970.8	10648.0	3831000.0	25050000.0	-961.0
89.126	-12046.3	-9548.2	9672.2	3660000.0	22380000.0	-939.0
89.127	-14584.2	-15143.7	12756.4	5797000.0	26200000.0	-499.0
89.128	-14242.9	-14518.7	11716.8	5554000.0	23530000.0	-476.0
89.129	-15005.8	-9483.7	11670.1	3641000.0	29750000.0	-1483.0
89.130	-14642.7	-9759.4	10547.3	3750000.0	27080000.0	-1465.0
89.131	-12403.0	-9145.6	11050.4	3507000.0	24500000.0	-932.0
89.132	-12100.9	-9709.5	10012.2	3722000.0	21830000.0	-913.0
89.133	-12451.6	-9912.6	13933.9	3808000.0	22980000.0	-883.0
89.134	-12121.2	-9279.5	12910.2	3562000.0	20310000.0	-861.0
89.135	6958.5	-7819.7	7530.5	3015000.0	23320000.0	1113.0
89.136	7202.6	-6357.0	6663.1	2452000.0	20650000.0	1131.0
89.137	9575.9	-8644.4	8484.0	3335000.0	28020000.0	1493.0
89.138	9812.9	-7190.9	7625.9	2776000.0	25350000.0	1513.0
89.139	6928.9	-8058.5	7834.7	3106000.0	22770000.0	1134.0
89.140	7176.5	-6595.2	6962.6	2543000.0	20100000.0	1155.0
89.141	6968.1	-9772.3	10553.5	3767000.0	21250000.0	1185.0
89.142	7212.5	-8307.9	9685.2	3204000.0	18580000.0	1208.0
89.143	6976.5	-8746.8	8505.6	3372000.0	28870000.0	1024.0
89.144	6924.0	-6903.4	6578.1	2662000.0	17770000.0	1196.0
89.145	7236.9	-7272.9	7615.9	2805000.0	26200000.0	1047.0
89.146	7187.2	-5427.1	5684.5	2094000.0	15100000.0	1220.0
89.147	6988.6	-9364.6	9155.6	3610000.0	32570000.0	964.0
89.148	6899.7	-6295.1	5945.1	2428000.0	14070000.0	1254.0
89.149	7248.4	-7891.3	8266.7	3043000.0	29890000.0	988.0
89.150	7164.1	-4818.5	5049.7	1860000.0	11400000.0	1279.0
89.151	9594.2	-9571.0	9458.6	3692000.0	33570000.0	1404.0
89.152	9536.7	-7734.6	7537.6	2984000.0	22470000.0	1578.0
89.153	9853.4	-8098.7	8570.6	3126000.0	30900000.0	1427.0
89.154	9799.9	-6256.7	6643.9	2416000.0	19800000.0	1601.0
89.155	6972.4	-8963.3	8774.7	3454000.0	28320000.0	1048.0
89.156	6901.9	-7134.6	6872.0	2750000.0	17230000.0	1219.0
89.157	7208.0	-7511.4	7919.2	2896000.0	25650000.0	1068.0
89.158	7165.7	-5657.0	5977.8	2181000.0	14550000.0	1243.0
89.159	6984.1	-10701.5	11531.4	4125000.0	26800000.0	1096.0

89.160	6933.6	-8855.4	9600.6	3414000.0	15700000.0	1273.0
89.161	7246.3	-9226.0	10639.5	3557000.0	24130000.0	1120.0
89.162	7199.0	-7376.2	8703.9	2845000.0	13030000.0	1298.0
89.163	10117.0	-9371.9	-5266.6	3612000.0	25050000.0	252.0
89.164	10340.2	-8965.4	-6053.6	3451000.0	22380000.0	291.0
89.165	12104.9	-14366.3	-13443.2	5519000.0	26200000.0	-261.0
89.166	12358.7	-13611.5	-14289.0	5226000.0	23530000.0	-225.0
89.167	12781.6	-8495.3	-4476.2	3274000.0	29750000.0	624.0
89.168	12960.6	-9070.0	-5146.8	3493000.0	27080000.0	666.0
89.169	10116.0	-9452.8	-5006.2	3642000.0	24500000.0	274.0
89.170	10339.3	-8965.9	-5797.8	3450000.0	21830000.0	316.0
89.171	10166.6	-8920.0	-2401.5	3453000.0	22980000.0	317.0
89.172	10390.2	-9509.2	-3152.8	3667000.0	20310000.0	353.0
89.173	3412.7	-10088.9	11171.0	3876000.0	25050000.0	1821.0
89.174	3711.7	-9563.8	10191.9	3669000.0	22380000.0	1842.0
89.175	1222.7	-14902.3	13211.0	5711000.0	26200000.0	2285.0
89.176	1550.3	-14116.1	12197.6	5407000.0	23530000.0	2306.0
89.177	5965.2	-10557.4	12233.5	4060000.0	29750000.0	2204.0
89.178	6294.6	-9984.9	11213.2	3835000.0	27080000.0	2226.0
89.179	3379.1	-10180.6	11486.2	3911000.0	24500000.0	1847.0
89.180	3701.9	-9732.1	10468.1	3734000.0	21830000.0	1869.0
89.181	3364.5	-10154.9	14367.6	3902000.0	22980000.0	1900.0
89.182	3678.9	-10286.4	13321.2	3955000.0	20310000.0	1920.0
89.183	-1222.4	-3311.9	4882.9	1281000.0	8965000.0	-119.0
89.184	-944.9	-1947.3	3968.5	754308.0	6294000.0	-88.0
89.185	-1234.9	-3522.0	5162.7	1361000.0	8418000.0	-95.0
89.186	-952.6	-2126.2	4243.0	822334.9	5747000.0	-65.0
89.187	-1290.9	-2341.7	4975.5	908648.1	8965000.0	-146.0
89.188	-978.6	-1197.7	4001.5	466183.0	6294000.0	-118.0
89.189	-1219.7	-5199.1	7914.7	2010000.0	6895000.0	-52.0
89.190	-934.7	-3754.9	6991.5	1454000.0	4223000.0	-22.0
89.191	-1087.3	-12858.9	14983.3	4963000.0	66040000.0	-1093.0
89.192	-921.3	-11445.6	14224.9	4420000.0	63360000.0	-1084.0
89.193	-1106.2	-10473.8	12471.9	4044000.0	51960000.0	-851.0
89.194	-920.1	-9048.1	11685.5	3496000.0	49290000.0	-838.0
89.195	-1124.6	-10722.6	12759.9	4138000.0	51410000.0	-825.0
89.196	-926.6	-9272.2	11957.0	3581000.0	48740000.0	-815.0
89.197	-1257.8	-9129.8	12687.2	3534000.0	51960000.0	-896.0
89.198	-970.8	-7674.8	11761.6	2973000.0	49290000.0	-867.0
89.199	-1097.4	-12421.4	15495.2	4794000.0	49890000.0	-780.0
89.200	-914.2	-10985.8	14713.0	4243000.0	47220000.0	-774.0
89.201	-9151.5	-6626.1	7481.7	2555000.0	23320000.0	-1777.0
89.202	-8866.0	-5167.0	6557.9	1993000.0	20650000.0	-1740.0
89.203	-11850.3	-7825.0	8474.3	3015000.0	28020000.0	-2329.0
89.204	-11465.1	-6274.2	7413.7	2418000.0	25350000.0	-2287.0
89.205	-9155.4	-6855.6	7749.4	2642000.0	22770000.0	-1752.0
89.206	-8870.5	-5392.1	6826.5	2079000.0	20100000.0	-1718.0
89.207	-9207.8	-5301.6	7565.2	2051000.0	23320000.0	-1798.0
89.208	-8906.8	-3891.2	6619.3	1507000.0	20650000.0	-1767.0
89.209	-9189.1	-8605.6	10569.0	3318000.0	21250000.0	-1711.0
89.210	-8884.7	-7140.2	9619.0	2754000.0	18580000.0	-1673.0
89.211	6782.0	-5825.5	7784.9	2256000.0	23320000.0	1054.0
89.212	7057.8	-4405.6	6874.8	1708000.0	20650000.0	1081.0
89.213	9436.2	-6637.9	8689.0	2571000.0	28020000.0	1438.0
89.214	9658.8	-5243.6	7852.5	2033000.0	25350000.0	1462.0
89.215	6775.4	-6035.1	8056.5	2336000.0	22770000.0	1078.0
89.216	7048.6	-4612.1	7150.0	1787000.0	20100000.0	1105.0
89.217	6724.3	-4647.7	7871.5	1804000.0	23320000.0	1025.0
89.218	6905.4	-3418.7	7087.5	1329000.0	20650000.0	1049.0
89.219	6799.0	-7715.8	10797.1	2986000.0	21250000.0	1126.0
89.220	7074.5	-6268.3	9887.2	2428000.0	18580000.0	1153.0
89.221	-1126.8	-4766.1	4721.8	1836000.0	8965000.0	-67.0

89.222	-768.7	-3262.4	3690.5	1258000.0	6294000.0	-43.0
89.223	-1058.0	-5011.0	4889.5	1929000.0	8418000.0	-46.0
89.224	-802.6	-3542.4	4000.3	1364000.0	5747000.0	-17.0
89.225	-1102.8	-4292.7	4649.4	1658000.0	8965000.0	-70.0
89.226	-807.4	-2698.8	3703.4	1045000.0	6294000.0	-42.0
89.227	-1152.3	-6731.0	7796.5	2592000.0	6895000.0	3.1
89.228	-855.6	-5241.7	6853.7	2020000.0	4223000.0	31.0
89.229	-862.2	-14394.8	14643.0	5545000.0	66040000.0	-1041.0
89.230	-636.8	-12969.1	13800.2	4997000.0	63360000.0	-1016.0
89.231	-1194.4	-12055.9	12572.0	4644000.0	51960000.0	-787.0
89.232	-667.7	-10587.5	11304.7	4079000.0	49290000.0	-775.0
89.233	-1196.6	-12303.4	12839.9	4738000.0	51410000.0	-758.0
89.234	-902.8	-10854.4	11902.5	4180000.0	48740000.0	-730.0
89.235	-1180.6	-11726.9	12531.4	4519000.0	51960000.0	-789.0
89.236	-858.6	-10269.2	11549.5	3959000.0	49290000.0	-763.0
89.237	-938.4	-14024.4	15245.4	5402000.0	49890000.0	-735.0
89.238	-666.8	-12571.5	14339.7	4843000.0	47220000.0	-703.0
89.239	-9175.5	-8260.4	7475.2	3180000.0	23320000.0	-1747.0
89.240	-8862.0	-6704.5	6509.8	2583000.0	20650000.0	-1710.0
89.241	-11794.2	-9342.7	8362.1	3598000.0	28020000.0	-2287.0
89.242	-11479.5	-7807.6	7395.8	3009000.0	25350000.0	-2250.0
89.243	-9188.4	-8527.3	7761.3	3282000.0	22770000.0	-1722.0
89.244	-8874.7	-6988.7	6794.2	2691000.0	20100000.0	-1686.0
89.245	-9152.1	-7685.6	7403.3	2963000.0	23320000.0	-1744.0
89.246	-8840.5	-6137.0	6442.1	2368000.0	20650000.0	-1708.0
89.247	-8971.7	-10251.1	10234.1	3947000.0	21250000.0	-1686.0
89.248	-8893.3	-8762.4	9590.4	3375000.0	18580000.0	-1646.0
89.249	6969.9	-7326.4	7489.3	2827000.0	23320000.0	1106.0
89.250	7237.1	-5832.3	6587.0	2253000.0	20650000.0	1127.0
89.251	9589.5	-8146.0	8438.7	3145000.0	28020000.0	1486.0
89.252	9853.8	-6657.0	7539.8	2573000.0	25350000.0	1509.0
89.253	6964.9	-7548.5	7762.5	2911000.0	22770000.0	1129.0
89.254	7195.9	-6089.4	6907.1	2351000.0	20100000.0	1147.0
89.255	6991.0	-6958.8	7431.4	2688000.0	23320000.0	1101.0
89.256	7258.1	-5455.2	6522.8	2110000.0	20650000.0	1122.0
89.257	6981.7	-9283.1	10511.1	3581000.0	21250000.0	1177.0
89.258	7230.2	-7810.1	9634.2	3015000.0	18580000.0	1200.0
89.401	6897.3	-49776.4	-47958.2	19560000.0	8560000.0	-4946.0
89.402	6476.6	-49719.3	-45839.5	19560000.0	15440000.0	-5186.0
89.403	7284.1	-25852.6	-52763.9	9284000.0	5812000.0	-5324.0
89.404	6754.6	-27747.5	-50368.1	10040000.0	12690000.0	-5562.0
89.405	-8767.1	-55433.5	55978.5	21940000.0	2574000.0	5197.0
89.406	-9417.1	-53924.5	58832.7	21390000.0	9451000.0	5015.0
89.407	-8162.0	-32215.1	49751.6	11760000.0	-173768.0	4928.0
89.408	-8687.0	-33300.8	52298.2	12200000.0	6703000.0	4744.0
89.409	6692.6	-53354.8	-47651.2	20510000.0	8574000.0	-5313.0
89.410	6289.3	-53425.9	-45522.2	20580000.0	15450000.0	-5556.0
89.411	7500.3	-24413.1	-53014.2	9108000.0	5797000.0	-4948.0
89.412	6899.7	-26070.0	-50534.0	9775000.0	12670000.0	-5187.0
89.413	-9021.5	-50601.5	56348.4	19940000.0	2588000.0	4831.0
89.414	-9697.6	-48118.2	59312.8	18990000.0	9465000.0	4646.0
89.415	-8024.4	-34169.5	49630.4	12710000.0	-187802.0	5312.0
89.416	-8546.2	-35358.3	52157.5	13200000.0	6689000.0	5124.0
89.417	7215.2	-42523.5	-41583.3	16920000.0	2805000.0	-4966.0
89.418	6767.5	-41263.8	-39503.5	16450000.0	9681000.0	-5194.0
89.419	7657.7	-22865.9	-46422.1	8138000.0	56563.0	-5374.0
89.420	7068.4	-24693.7	-43952.8	8869000.0	6933000.0	-5601.0
89.421	-8983.2	-50343.5	49444.8	20160000.0	8330000.0	5249.0
89.422	-9616.1	-47374.3	52371.0	19020000.0	15210000.0	5071.0
89.423	-8458.1	-30464.7	43297.4	11170000.0	5582000.0	4964.0
89.424	-8947.4	-31245.2	45812.2	11500000.0	12460000.0	4787.0
89.425	6973.8	-46509.8	-41259.4	17990000.0	2819000.0	-5307.0

89.426	6473.8	-46598.7	-39023.4	18050000.0	9695000.0	-5536.0
89.427	7806.0	-21472.8	-46593.1	7967000.0	42497.0	-5016.0
89.428	7230.1	-23061.1	-44153.2	8608000.0	6919000.0	-5243.0
89.429	-9292.0	-45813.2	49936.0	18220000.0	8344000.0	4884.0
89.430	-9916.9	-43600.5	52823.2	17370000.0	15220000.0	4702.0
89.431	-8241.6	-32352.6	43051.0	12100000.0	5568000.0	5331.0
89.432	-8737.4	-33525.2	45547.7	12590000.0	12440000.0	5155.0
89.433	1660.1	-38941.1	-7232.7	17100000.0	9672000.0	-889.0
89.434	1179.7	-40058.2	-4903.5	17610000.0	16550000.0	-1113.0
89.435	2286.7	21507.1	-22397.3	-10700000.0	511413.0	-2084.0
89.436	1756.1	18668.4	-19985.1	-9604000.0	7388000.0	-2296.0
89.437	-4473.8	-38272.5	28242.9	16990000.0	7876000.0	2040.0
89.438	-5014.1	-39196.6	30735.9	17430000.0	14750000.0	1853.0
89.439	-1992.5	23551.2	7028.3	-11490000.0	-1284000.0	946.0
89.440	-2526.8	20889.3	9590.7	-10490000.0	5593000.0	745.0
89.441	1635.6	-37791.0	-5151.4	16670000.0	7945000.0	-860.0
89.442	1132.6	-38843.7	-2793.0	17160000.0	14820000.0	-1087.0
89.443	2382.8	22161.0	-20473.1	-10960000.0	-1215000.0	-2119.0
89.444	1838.5	19340.7	-18043.7	-9872000.0	5662000.0	-2333.0
89.445	-4458.9	-38566.9	26150.1	17110000.0	9602000.0	2019.0
89.446	-4984.0	-39059.3	28650.6	17370000.0	16480000.0	1829.0
89.447	-2084.0	24160.4	5090.9	-11710000.0	442526.0	977.0
89.448	-2578.0	21502.5	7597.7	-10700000.0	7319000.0	773.0
89.449	775.0	-50805.5	-5440.0	20520000.0	9719000.0	-2096.0
89.450	318.7	-52147.3	-3094.1	21110000.0	16600000.0	-2321.0
89.451	2583.4	21724.0	-22585.9	-9659000.0	464541.0	-846.0
89.452	1994.1	18875.7	-20091.9	-8555000.0	7341000.0	-1059.0
89.453	-5196.8	-36200.1	29389.6	15110000.0	7922000.0	825.0
89.454	-5684.9	-37189.0	31837.0	15540000.0	14800000.0	639.0
89.455	-1419.2	26289.7	6384.5	-11470000.0	-1331000.0	2220.0
89.456	-2086.3	23859.3	9113.4	-10550000.0	5546000.0	2035.0
89.457	791.2	-50041.3	-3427.4	20230000.0	7992000.0	-2073.0
89.458	321.7	-51340.9	-1071.3	20810000.0	14870000.0	-2299.0
89.459	2707.2	22385.7	-20702.9	-9924000.0	-1262000.0	-880.0
89.460	2107.6	19558.1	-18194.4	-8827000.0	5615000.0	-1091.0
89.461	-5257.1	-35816.2	27414.4	14970000.0	9649000.0	811.0
89.462	-5719.5	-36914.9	29828.9	15440000.0	16530000.0	622.0
89.463	-1480.4	26188.6	4428.5	-11440000.0	395718.0	2252.0
89.464	-2108.1	23707.0	7101.8	-10500000.0	7272000.0	2071.0
89.529	2197.8	-19451.3	-14659.7	7973000.0	-1557000.0	-1084.0
89.530	974.0	-15563.7	-7909.7	6663000.0	21370000.0	-1859.0
89.531	2514.6	1205.6	-19388.3	-1202000.0	-4305000.0	-1452.0
89.532	750.1	-4928.1	-11365.1	1278000.0	18620000.0	-2203.0
89.533	-2603.3	-23974.5	16961.4	9819000.0	-3353000.0	1890.0
89.534	-4839.8	-14878.3	26627.1	6490000.0	19570000.0	1270.0
89.535	-2083.2	2357.0	10946.5	-1546000.0	-6101000.0	1604.0
89.536	-3819.5	-4914.4	19474.9	1211000.0	16820000.0	947.0
89.537	2000.3	-22290.1	-14317.4	8702000.0	-1543000.0	-1450.0
89.538	809.2	-18890.4	-7569.4	7594000.0	21380000.0	-2219.0
89.539	2631.5	2105.7	-19485.5	-1185000.0	-4319000.0	-1085.0
89.540	832.2	-3971.4	-11454.6	1251000.0	18600000.0	-1815.0
89.541	-2862.5	-20054.7	17349.7	8123000.0	-3339000.0	1518.0
89.542	-4958.0	-13114.1	26862.3	5513000.0	19580000.0	897.0
89.543	-1911.8	1174.8	10774.1	-856029.0	-6115000.0	1986.0
89.544	-3825.2	-4883.7	19484.4	1508000.0	16810000.0	1335.0
89.545	2283.3	-17248.2	-12790.3	7132000.0	-3284000.0	-1071.0
89.546	845.8	-14326.7	-5696.3	6194000.0	19640000.0	-1834.0
89.547	2644.3	2061.6	-17510.8	-1533000.0	-6032000.0	-1485.0
89.548	790.3	-4279.5	-9361.5	1021000.0	16890000.0	-2209.0
89.549	-2671.4	-22383.3	15035.8	9238000.0	-1626000.0	1883.0
89.550	-4791.2	-14524.4	24495.2	6371000.0	21300000.0	1278.0
89.551	-2178.6	2805.7	9012.6	-1696000.0	-4374000.0	1598.0

89.552	-3844.7	-4660.1	17440.2	1136000.0	18550000.0	977.0
89.553	2053.5	-20350.0	-12388.1	7962000.0	-3269000.0	-1429.0
89.554	702.8	-17810.3	-5376.1	7188000.0	19650000.0	-2196.0
89.555	2756.6	2746.7	-17602.9	-1441000.0	-6046000.0	-1120.0
89.556	872.4	-3021.1	-9472.2	874653.0	16880000.0	-1841.0
89.557	-2974.8	-18897.1	15456.9	7717000.0	-1612000.0	1532.0
89.558	-4940.7	-12937.8	24770.5	5456000.0	21310000.0	914.0
89.559	-1990.6	1672.5	8812.0	-1026000.0	-4388000.0	1981.0
89.560	-3765.6	-4726.6	17341.9	1456000.0	18530000.0	1352.0
90.1	-1211.5	-56.3	4918.8	20474.0	8968000.0	-83.0
90.2	-874.8	-33.5	3905.6	12472.0	6296000.0	-53.0
90.3	-1192.4	-40.1	5152.6	15191.0	8420000.0	-61.0
90.4	-861.8	-22.8	4148.1	9045.0	5748000.0	-31.0
90.5	-1241.0	-88.8	8024.4	31852.0	6896000.0	-17.0
90.6	-923.4	-70.1	7038.2	25269.0	4224000.0	17.0
90.7	-1480.6	-151.2	15728.5	54175.0	66060000.0	-1061.0
90.8	-1154.4	-131.0	14730.2	47083.0	63380000.0	-1029.0
90.9	-1345.1	-101.5	12964.0	36694.0	51980000.0	-829.0
90.10	-1064.4	-116.8	12030.6	41946.0	49300000.0	-793.0
90.11	-1348.0	-97.7	13229.1	35559.0	51430000.0	-807.0
90.12	-1036.1	-86.3	12251.2	31452.0	48760000.0	-773.0
90.13	-1412.2	-156.6	16123.2	56171.0	49900000.0	-757.0
90.14	-1104.3	-143.6	15150.8	51475.0	47230000.0	-724.0
90.15	-1213.6	-51.4	5935.1	18846.0	14520000.0	-181.0
90.16	-1167.7	-39.1	3843.2	14497.0	3419000.0	10.0
90.17	-907.9	-43.4	4965.9	16002.0	11840000.0	-146.0
90.18	-843.1	-18.7	2847.2	7303.0	746478.0	40.0
90.19	-1226.9	-54.9	6629.7	19982.0	18220000.0	-247.0
90.20	-1147.7	-27.3	3139.2	10377.0	-280668.0	73.0
90.21	-914.0	-42.3	5650.2	15497.0	15540000.0	-214.0
90.22	-821.1	-9.8	2140.3	4185.0	-2953000.0	102.0
90.23	-1232.5	-61.8	6223.1	22605.0	13970000.0	-157.0
90.24	-1142.7	-25.8	4068.8	10208.0	2871000.0	30.0
90.25	-904.9	-40.3	5222.8	15125.0	11300000.0	-123.0
90.26	-821.3	-9.4	3077.4	4376.0	198901.0	60.0
90.27	-1255.5	-94.1	9058.6	33737.0	12450000.0	-113.0
90.28	-1215.9	-75.3	6975.2	27116.0	1347000.0	79.0
90.29	-942.7	-80.6	8079.0	29016.0	9773000.0	-80.0
90.30	-904.8	-60.8	5998.3	21924.0	-1325000.0	111.0
90.31	-1505.0	-160.6	16776.5	57533.0	71610000.0	-1155.0
90.32	-1397.4	-135.1	14597.2	48623.0	60510000.0	-974.0
90.33	-1187.0	-146.8	15789.9	52605.0	68930000.0	-1123.0
90.34	-1081.1	-116.7	13613.0	42101.0	57840000.0	-941.0
90.35	-1433.5	-120.5	14778.1	43359.0	61220000.0	-981.0
90.36	-1322.8	-95.2	11243.3	34395.0	42730000.0	-669.0
90.37	-1120.1	-109.5	13798.1	39373.0	58550000.0	-948.0
90.38	-1033.7	-103.5	10298.0	37138.0	40050000.0	-635.0
90.39	-1421.0	-115.7	14084.9	41630.0	57520000.0	-917.0
90.40	-1333.0	-100.1	11933.5	36173.0	46430000.0	-733.0
90.41	-1104.8	-104.1	13100.7	37468.0	54850000.0	-885.0
90.42	-1048.3	-110.1	10994.3	39529.0	43750000.0	-698.0
90.43	-1367.1	-105.2	14269.6	38276.0	56980000.0	-902.0
90.44	-1329.0	-90.1	12188.7	32848.0	45880000.0	-712.0
90.45	-1055.2	-93.9	13291.7	34188.0	54300000.0	-868.0
90.46	-1016.3	-78.6	11209.8	28680.0	43210000.0	-677.0
90.47	-1432.9	-166.0	17166.0	59569.0	55450000.0	-852.0
90.48	-1394.5	-147.4	15084.5	52877.0	44350000.0	-663.0
90.49	-1120.1	-152.5	16186.7	54682.0	52780000.0	-819.0
90.50	-1086.1	-134.4	14111.5	48177.0	41680000.0	-629.0
90.51	1550.7	133.2	-7333.9	-45192.0	10700000.0	-284.0
90.52	1726.9	208.2	-8113.0	-71132.0	8024000.0	-238.0
90.53	3116.9	217.0	-15089.7	-67759.0	11850000.0	-391.0

90.54	3344.0	-607.4	-15907.5	244264.0	9177000.0	-353.0
90.55	1557.0	70.5	-7082.1	-23776.0	10150000.0	-263.0
90.56	1733.4	192.3	-7861.2	-65595.0	7477000.0	-217.0
90.57	1587.9	-8.9	-4333.2	3606.0	8625000.0	-222.0
90.58	1751.0	88.9	-5093.1	-30091.0	5953000.0	-175.0
90.59	1935.1	30.3	2495.6	-9489.0	67790000.0	-1244.0
90.60	2168.4	30.7	1632.6	-9850.0	65110000.0	-1210.0
90.61	1862.7	45.2	31.6	-14720.0	53700000.0	-1000.0
90.62	2043.0	108.6	-754.7	-36305.0	51030000.0	-971.0
90.63	3537.4	-301.8	-7875.0	103749.0	54860000.0	-1188.0
90.64	3768.1	-113.2	-8730.9	39293.0	52180000.0	-1147.0
90.65	1810.9	34.1	364.8	-10608.0	53160000.0	-983.0
90.66	2048.6	132.1	-502.5	-44108.0	50480000.0	-950.0
90.67	1878.5	6.5	3068.8	-1113.0	51630000.0	-938.0
90.68	2103.6	17.4	2216.8	-5138.0	48960000.0	-905.0
90.69	-3668.4	366.1	7145.2	-121437.0	10700000.0	18.0
90.70	-3358.5	359.3	6165.5	-119425.0	8024000.0	50.0
90.71	-5322.8	486.3	8643.1	-161126.0	11850000.0	85.0
90.72	-5007.2	234.8	7631.3	-62246.0	9176000.0	120.0
90.73	-3667.1	370.1	7404.4	-122562.0	10150000.0	41.0
90.74	-3355.4	431.7	6422.4	-143893.0	7476000.0	75.0
90.75	-3726.4	337.7	10298.5	-111347.0	8624000.0	89.0
90.76	-3402.9	334.9	9298.1	-110667.0	5952000.0	119.0
90.77	-4069.8	-416.1	18181.0	147133.0	67790000.0	-935.0
90.78	-3681.9	-407.3	17092.8	143930.0	65110000.0	-912.0
90.79	-3940.0	-418.3	15419.4	147432.0	53700000.0	-705.0
90.80	-3623.2	-378.6	14430.9	133590.0	51030000.0	-673.0
90.81	-5603.1	445.9	16924.9	-146200.0	54860000.0	-638.0
90.82	-5254.8	434.9	15888.4	-142667.0	52180000.0	-611.0
90.83	-3942.1	-365.2	15683.1	129458.0	53160000.0	-680.0
90.84	-3617.0	-371.0	14682.9	131239.0	50480000.0	-648.0
90.85	-4009.4	-382.3	18584.8	135312.0	51630000.0	-635.0
90.86	-3680.1	-392.8	17579.4	138744.0	48960000.0	-603.0
90.87	-9688.6	-116.1	8321.0	39921.0	23330000.0	-311.0
90.88	-9466.2	-37.1	7469.1	12661.0	20660000.0	-275.0
90.89	-12569.7	-53.5	9584.1	18184.0	28030000.0	-381.0
90.90	-12348.8	21.6	8734.4	-7744.0	25360000.0	-346.0
90.91	-9722.5	-169.6	8629.7	58441.0	22780000.0	-283.0
90.92	-9465.4	-52.6	7728.3	18133.0	20110000.0	-253.0
90.93	-9675.5	-224.9	11366.9	77381.0	21260000.0	-246.0
90.94	-9408.5	-150.1	10451.5	51724.0	18580000.0	-207.0
90.95	-9682.3	-202.5	9327.1	69703.0	28880000.0	-401.0
90.96	-9750.9	-73.7	7394.9	25259.0	17780000.0	-214.0
90.97	-9420.4	-87.0	8418.7	29892.0	26200000.0	-372.0
90.98	-9526.1	6.0	6539.5	-2284.0	15110000.0	-179.0
90.99	-9568.8	-218.2	9842.4	75028.0	32580000.0	-468.0
90.100	-9779.9	-41.6	6759.5	14174.0	14080000.0	-150.0
90.101	-9350.9	-138.2	8996.9	47422.0	29900000.0	-433.0
90.102	-9574.3	47.2	5931.3	-16434.0	11410000.0	-116.0
90.103	-12475.8	-126.1	10465.9	43080.0	33580000.0	-474.0
90.104	-12636.0	-11.7	8663.6	3725.0	22480000.0	-284.0
90.105	-12261.8	-48.1	9625.9	16169.0	30910000.0	-439.0
90.106	-12411.6	63.4	7808.8	-22241.0	19810000.0	-249.0
90.107	-9649.7	-204.2	9540.9	70257.0	28330000.0	-385.0
90.108	-9726.3	-113.6	7620.1	39101.0	17230000.0	-188.0
90.109	-9453.1	-135.3	8725.8	46609.0	25660000.0	-344.0
90.110	-9516.9	-15.1	6786.6	5219.0	14560000.0	-153.0
90.111	-9545.0	-260.8	12196.6	89980.0	26810000.0	-336.0
90.112	-9712.7	-176.6	10405.1	60729.0	15710000.0	-150.0
90.113	-9361.7	-191.7	11400.3	66035.0	24130000.0	-304.0
90.114	-9450.2	-99.6	9496.1	34284.0	13030000.0	-111.0
90.115	-7268.4	-2.6	-3467.5	828.0	25060000.0	-515.0

90.116	-7038.1	114.9	-4323.1	-39433.0	22380000.0	-474.0
90.117	-5581.7	643.6	-11400.9	-219487.0	26210000.0	-635.0
90.118	-5530.4	683.7	-12000.7	-233855.0	23540000.0	-577.0
90.119	-10122.4	-510.4	-2253.9	173263.0	29760000.0	-594.0
90.120	-9881.1	84.1	-3118.6	-28807.0	27090000.0	-553.0
90.121	-7262.1	-16.7	-3215.8	5782.0	24510000.0	-492.0
90.122	-7057.9	147.8	-4033.7	-50518.0	21840000.0	-449.0
90.123	-7248.6	-240.7	-449.7	82147.0	22980000.0	-451.0
90.124	-7032.5	33.5	-1277.6	-11345.0	20310000.0	-410.0
90.125	-12748.4	669.9	11412.1	-226466.0	25060000.0	-181.0
90.126	-12412.8	162.7	10391.5	-53622.0	22380000.0	-152.0
90.127	-14299.9	436.9	12755.8	-145346.0	26210000.0	-131.0
90.128	-14006.8	455.3	11799.1	-151977.0	23540000.0	-97.0
90.129	-15695.9	-120.7	12774.8	42900.0	29760000.0	-249.0
90.130	-15377.9	651.9	11779.8	-221025.0	27090000.0	-217.0
90.131	-12739.2	-110.9	11663.2	40204.0	24510000.0	-157.0
90.132	-12380.0	271.8	10606.4	-90593.0	21840000.0	-134.0
90.133	-12756.5	-161.2	14497.3	57581.0	22980000.0	-115.0
90.134	-12440.5	-95.4	13508.1	34910.0	20310000.0	-81.0
90.135	7547.6	219.3	6807.6	-71294.0	23330000.0	-343.0
90.136	7897.9	262.9	5774.7	-86497.0	20660000.0	-312.0
90.137	10434.6	325.1	7398.7	-106744.0	28030000.0	-429.0
90.138	10778.9	362.3	6374.4	-119646.0	25360000.0	-398.0
90.139	7570.0	239.0	7036.8	-77773.0	22780000.0	-320.0
90.140	7906.4	270.9	6023.7	-88939.0	20110000.0	-289.0
90.141	7499.9	185.8	9938.9	-59445.0	21260000.0	-273.0
90.142	7857.0	213.9	8896.6	-69236.0	18580000.0	-244.0
90.143	7513.4	199.6	7869.7	-64390.0	28880000.0	-437.0
90.144	7603.2	257.3	5715.0	-84489.0	17780000.0	-250.0
90.145	7845.0	227.5	6863.4	-74192.0	26200000.0	-405.0
90.146	7931.4	282.0	4713.5	-93193.0	15110000.0	-219.0
90.147	7490.9	186.8	8577.3	-59900.0	32580000.0	-499.0
90.148	7633.2	276.1	4996.6	-91003.0	14080000.0	-188.0
90.149	7822.6	214.4	7570.9	-69596.0	29900000.0	-468.0
90.150	7958.3	297.6	3999.7	-98605.0	11410000.0	-157.0
90.151	10400.6	305.7	8460.5	-99915.0	33580000.0	-523.0
90.152	10486.8	359.3	6310.9	-118582.0	22480000.0	-336.0
90.153	10732.6	333.3	7453.8	-109619.0	30910000.0	-492.0
90.154	10817.1	385.5	5306.6	-127814.0	19810000.0	-305.0
90.155	7523.1	208.8	8116.9	-67348.0	28330000.0	-414.0
90.156	7619.4	272.3	5952.9	-89414.0	17230000.0	-228.0
90.157	7866.1	246.4	7094.5	-80405.0	25660000.0	-383.0
90.158	7943.1	293.2	4958.0	-96794.0	14560000.0	-197.0
90.159	7469.3	168.6	10995.8	-53388.0	26800000.0	-366.0
90.160	7561.4	206.3	8838.2	-66547.0	15710000.0	-183.0
90.161	7797.2	193.5	9995.0	-62129.0	24130000.0	-335.0
90.162	7885.1	231.2	7843.2	-75356.0	13030000.0	-150.0
90.163	10563.8	-96.3	-5819.0	33657.0	25060000.0	-542.0
90.164	10809.1	-61.4	-6692.8	21581.0	22380000.0	-507.0
90.165	12096.2	75.1	-13525.6	-25033.0	26210000.0	-663.0
90.166	12362.8	142.1	-14435.1	-47958.0	23540000.0	-629.0
90.167	13499.4	-1006.0	-5308.9	343030.0	29760000.0	-629.0
90.168	13744.7	-349.6	-6175.9	119761.0	27090000.0	-597.0
90.169	10575.2	-135.3	-5574.5	46956.0	24510000.0	-520.0
90.170	10815.4	-138.0	-6441.6	47684.0	21840000.0	-485.0
90.171	10565.9	29.0	-2782.1	-8383.0	22980000.0	-476.0
90.172	10829.0	-133.1	-3670.2	46417.0	20310000.0	-440.0
90.173	5161.7	540.5	8952.8	-178735.0	25060000.0	-241.0
90.174	5495.2	386.1	7937.7	-126295.0	22380000.0	-212.0
90.175	3576.4	897.4	10349.7	-299043.0	26210000.0	-183.0
90.176	3887.4	897.1	9368.9	-299256.0	23540000.0	-150.0
90.177	8064.2	581.4	9528.3	-191952.0	29760000.0	-328.0

90.178	8377.6	452.3	8541.5	-148175.0	27090000.0	-296.0
90.179	5186.1	580.6	9179.6	-192152.0	24510000.0	-220.0
90.180	5496.5	526.9	8196.9	-174127.0	21840000.0	-189.0
90.181	5086.2	-135.4	12133.2	52255.0	22980000.0	-168.0
90.182	5452.5	571.5	11070.4	-189140.0	20310000.0	-142.0
90.183	-1072.8	696.5	4702.6	-248564.0	8968000.0	-98.0
90.184	-835.2	560.0	3831.1	-202536.0	6296000.0	-68.0
90.185	-1076.9	722.8	4969.2	-257242.0	8420000.0	-77.0
90.186	-827.8	578.8	4081.4	-208696.0	5748000.0	-46.0
90.187	-1139.9	875.4	4787.5	-318489.0	8968000.0	-108.0
90.188	-858.8	830.1	3853.8	-303750.0	6296000.0	-75.0
90.189	-1018.6	803.9	7688.6	-284568.0	6896000.0	-29.0
90.190	-771.0	728.3	6802.1	-259222.0	4224000.0	3.0
90.191	-1396.0	755.5	15586.7	-266958.0	66060000.0	-1071.0
90.192	-512.2	818.2	13801.7	-288494.0	63380000.0	-1049.0
90.193	-1358.8	764.2	12961.7	-270310.0	51980000.0	-829.0
90.194	-583.6	817.5	11329.9	-288658.0	49300000.0	-805.0
90.195	-1381.5	746.1	13255.3	-263818.0	51430000.0	-807.0
90.196	-580.4	822.5	11586.3	-290174.0	48760000.0	-783.0
90.197	-865.1	1349.5	12250.9	-477971.0	51980000.0	-842.0
90.198	-613.9	1284.4	11359.3	-456173.0	49300000.0	-810.0
90.199	-1403.8	733.8	16089.1	-259509.0	49900000.0	-758.0
90.200	-502.7	826.3	14278.9	-291408.0	47230000.0	-737.0
90.201	-9785.3	507.9	8438.3	-185344.0	23330000.0	-317.0
90.202	-9563.6	487.9	7588.2	-178459.0	20660000.0	-280.0
90.203	-12620.8	430.9	9637.7	-159242.0	28030000.0	-390.0
90.204	-12430.4	387.7	8832.3	-144902.0	25360000.0	-356.0
90.205	-9791.5	504.5	8708.0	-183912.0	22780000.0	-294.0
90.206	-9561.8	490.9	7846.5	-179284.0	20110000.0	-259.0
90.207	-9895.3	986.4	8580.4	-356312.0	23330000.0	-323.0
90.208	-9659.1	895.8	7710.4	-325859.0	20660000.0	-291.0
90.209	-9762.5	495.2	11469.8	-180509.0	21260000.0	-251.0
90.210	-9535.3	475.7	10612.0	-173874.0	18580000.0	-214.0
90.211	7572.8	962.2	6751.5	-337054.0	23330000.0	-351.0
90.212	7887.8	841.8	5770.4	-296523.0	20660000.0	-320.0
90.213	10437.2	1043.6	7375.3	-364193.0	28030000.0	-437.0
90.214	10774.9	948.4	6361.7	-332175.0	25360000.0	-406.0
90.215	7575.6	987.3	7008.2	-345396.0	22780000.0	-329.0
90.216	7892.1	874.3	6024.9	-307378.0	20110000.0	-298.0
90.217	7549.4	1070.2	6775.0	-382860.0	23330000.0	-356.0
90.218	7975.7	981.9	5637.0	-353121.0	20660000.0	-340.0
90.219	7531.5	1047.8	9872.5	-365598.0	21260000.0	-281.0
90.220	7842.0	983.7	8897.1	-344153.0	18580000.0	-250.0
90.221	-1195.0	-770.8	4896.9	278006.0	8968000.0	-88.0
90.222	-879.4	-717.8	3911.9	259799.0	6296000.0	-54.0
90.223	-1191.8	-746.5	5153.4	270070.0	8420000.0	-61.0
90.224	-854.8	-679.2	4137.6	246852.0	5748000.0	-31.0
90.225	-1205.6	-1210.1	4906.4	437168.0	8968000.0	-90.0
90.226	-875.2	-1212.6	3899.7	437817.0	6296000.0	-56.0
90.227	-1206.3	-843.5	7978.1	303095.0	6896000.0	-23.0
90.228	-900.6	-784.1	7007.4	282574.0	4224000.0	11.0
90.229	-1489.9	-1037.1	15747.1	370328.0	66060000.0	-1060.0
90.230	-1145.0	-1002.3	14721.8	358196.0	63380000.0	-1028.0
90.231	-1360.9	-997.0	12991.9	356044.0	51980000.0	-834.0
90.232	-1056.3	-988.6	12023.9	353237.0	49300000.0	-793.0
90.233	-1362.2	-992.5	13255.0	354665.0	51430000.0	-809.0
90.234	-1047.0	-978.9	12272.4	349812.0	48760000.0	-774.0
90.235	-1360.1	-1541.3	12991.9	551025.0	51980000.0	-833.0
90.236	-1041.8	-1488.8	12002.9	532938.0	49300000.0	-797.0
90.237	-1403.0	-1027.2	16115.3	367100.0	49900000.0	-758.0
90.238	-1091.8	-1013.7	15138.1	362184.0	47230000.0	-723.0
90.239	-9695.8	-755.6	8327.5	271925.0	23330000.0	-309.0

90.240	-9473.7	-701.2	7475.6	253051.0	20660000.0	-273.0
90.241	-12574.3	-681.5	9588.0	246267.0	28030000.0	-379.0
90.242	-12354.8	-602.0	8740.0	218781.0	25360000.0	-342.0
90.243	-9690.0	-731.5	8581.1	263883.0	22780000.0	-286.0
90.244	-9470.5	-701.5	7732.2	253320.0	20110000.0	-250.0
90.245	-9712.2	-1269.7	8345.0	456643.0	23330000.0	-308.0
90.246	-9489.2	-1246.8	7491.6	448478.0	20660000.0	-272.0
90.247	-9709.2	-824.3	11413.6	295926.0	21260000.0	-238.0
90.248	-9443.6	-765.6	10497.8	275486.0	18580000.0	-208.0
90.249	7548.0	-659.4	6811.2	242482.0	23330000.0	-345.0
90.250	7889.7	-623.7	5789.9	229890.0	20660000.0	-315.0
90.251	10440.2	-549.8	7394.7	205693.0	28030000.0	-432.0
90.252	10771.1	-524.0	6388.7	196591.0	25360000.0	-401.0
90.253	7562.6	-644.6	7052.0	237526.0	22780000.0	-323.0
90.254	7911.2	-605.2	6020.3	223900.0	20110000.0	-292.0
90.255	7545.1	-1249.7	6815.5	453153.0	23330000.0	-347.0
90.256	7872.3	-1231.4	5813.7	446482.0	20660000.0	-319.0
90.257	7503.1	-687.8	9938.9	252509.0	21260000.0	-276.0
90.258	7861.5	-661.2	8894.2	243227.0	18580000.0	-248.0
90.401	1310.8	-6434.2	-54557.3	3018000.0	5350000.0	-838.0
90.402	1078.7	-7391.5	-52383.2	3423000.0	16840000.0	-1070.0
90.403	1056.7	6890.1	-50118.5	-3506000.0	9026000.0	-978.0
90.404	820.6	8231.8	-47924.9	-3889000.0	20520000.0	-1212.0
90.405	-2427.0	-15241.1	52965.8	6682000.0	-5250000.0	937.0
90.406	-3025.7	-17550.5	55883.9	7577000.0	6244000.0	720.0
90.407	-2843.9	9862.6	57672.5	-4253000.0	-1574000.0	835.0
90.408	-3474.4	9376.4	60605.1	-3988000.0	9920000.0	618.0
90.409	956.0	-3579.3	-54665.8	1612000.0	5038000.0	-1009.0
90.410	716.2	-5148.6	-52465.9	2259000.0	16530000.0	-1236.0
90.411	1356.3	7632.9	-49872.6	-3408000.0	9337000.0	-806.0
90.412	1134.4	8722.6	-47700.6	-3706000.0	20830000.0	-1044.0
90.413	-2784.3	-25384.1	52773.1	10110000.0	-5561000.0	764.0
90.414	-3376.6	-27747.2	55689.1	11000000.0	5933000.0	547.0
90.415	-2518.5	15686.6	57982.2	-6119000.0	-1262000.0	1010.0
90.416	-3156.8	15013.4	60927.6	-5780000.0	10230000.0	790.0
90.417	1617.3	-15990.4	-52644.0	6565000.0	5043000.0	-1354.0
90.418	1341.7	-17738.3	-50416.9	7233000.0	16540000.0	-1587.0
90.419	1339.2	4167.0	-48117.6	-2521000.0	8719000.0	-1523.0
90.420	1074.6	5067.2	-45880.9	-2753000.0	20210000.0	-1759.0
90.421	-2697.8	-23866.9	50955.2	9850000.0	-4943000.0	1498.0
90.422	-3244.9	-26609.9	53807.3	10870000.0	6551000.0	1292.0
90.423	-3192.2	3729.8	55717.6	-2041000.0	-1268000.0	1382.0
90.424	-3760.1	3550.6	58560.2	-1888000.0	10230000.0	1176.0
90.425	1280.6	-11286.2	-52799.0	4457000.0	4732000.0	-1516.0
90.426	1017.6	-12463.9	-50590.5	4943000.0	16230000.0	-1749.0
90.427	1625.3	4868.1	-47850.9	-2424000.0	9031000.0	-1366.0
90.428	1351.9	5603.3	-45605.4	-2597000.0	20520000.0	-1601.0
90.429	-3062.3	-32374.3	50757.2	12660000.0	-5255000.0	1317.0
90.430	-3597.1	-34237.7	53587.0	13370000.0	6239000.0	1112.0
90.431	-2860.5	8944.1	56013.8	-3683000.0	-955793.0	1557.0
90.432	-3435.3	8581.9	58866.7	-3456000.0	10540000.0	1350.0
90.433	226.9	-39100.9	-21877.6	17140000.0	-2649000.0	-2.6
90.434	-122.7	-40637.0	-19443.8	17820000.0	8845000.0	-235.0
90.435	-732.7	40344.2	-6860.6	-18010000.0	9604000.0	-535.0
90.436	-1067.5	40860.6	-4503.7	-18120000.0	21100000.0	-751.0
90.437	-435.6	-44159.9	9991.4	19210000.0	-5828000.0	488.0
90.438	-894.9	-46304.7	12625.5	20110000.0	5666000.0	276.0
90.439	-1750.6	44108.2	25171.0	-19320000.0	6424000.0	51.0
90.440	-2290.1	43668.5	27901.9	-19120000.0	17920000.0	-177.0
90.441	199.0	-39576.3	-21161.7	17320000.0	-2741000.0	-134.0
90.442	-152.8	-41187.1	-18736.2	18030000.0	8754000.0	-362.0
90.443	-621.8	39632.1	-6285.3	-17760000.0	9512000.0	-713.0

90.444	-955.4	40137.3	-3938.4	-17870000.0	21010000.0	-936.0
90.445	-461.2	-43949.5	9436.7	19130000.0	-5736000.0	617.0
90.446	-896.7	-46154.0	12002.0	20040000.0	5758000.0	406.0
90.447	-1850.0	42728.3	24540.6	-18820000.0	6516000.0	226.0
90.448	-2385.5	42194.9	27279.9	-18590000.0	18010000.0	1.3
90.449	-1022.2	-37755.0	-21924.5	15640000.0	-3688000.0	-551.0
90.450	-1357.0	-38914.0	-19531.3	16190000.0	7806000.0	-778.0
90.451	181.8	42059.4	-5832.9	-17540000.0	10640000.0	4.0
90.452	-120.8	42488.1	-3529.5	-17630000.0	22140000.0	-220.0
90.453	-1883.5	-50202.1	10215.8	20310000.0	-6867000.0	-99.0
90.454	-2350.6	-51441.4	12847.3	20860000.0	4627000.0	-300.0
90.455	-915.6	47907.9	26744.5	-19630000.0	7463000.0	636.0
90.456	-1360.3	47487.1	29232.6	-19440000.0	18960000.0	407.0
90.457	-940.1	-37911.3	-21369.9	15700000.0	-3780000.0	-686.0
90.458	-1288.2	-39152.1	-18959.3	16280000.0	7714000.0	-912.0
90.459	234.2	41392.0	-5185.3	-17310000.0	10550000.0	-174.0
90.460	-83.7	41786.9	-2859.2	-17380000.0	22040000.0	-401.0
90.461	-1911.5	-50777.2	9544.6	20520000.0	-6775000.0	31.0
90.462	-2368.6	-51683.6	12174.7	20950000.0	4719000.0	-178.0
90.463	-936.6	47725.0	26043.4	-19580000.0	7555000.0	817.0
90.464	-1375.3	47343.3	28521.0	-19410000.0	19050000.0	596.0
90.529	437.4	-8355.0	-19684.9	3704000.0	-11770000.0	62.0
90.530	-632.6	-17527.4	-11937.4	7279000.0	26540000.0	-691.0
90.531	163.9	10352.9	-15190.0	-4886000.0	-8094000.0	-82.0
90.532	-891.8	17652.3	-7500.5	-7142000.0	30220000.0	-848.0
90.533	-368.7	-9940.5	11973.0	4497000.0	-14950000.0	591.0
90.534	-2057.5	-22729.3	21164.1	9343000.0	23360000.0	-144.0
90.535	-678.8	17539.6	16558.0	-7268000.0	-11270000.0	474.0
90.536	-2614.1	15552.3	26038.2	-6384000.0	27040000.0	-266.0
90.537	74.7	-7847.0	-19747.7	3191000.0	-12080000.0	-104.0
90.538	-1015.7	-17178.0	-11965.5	6843000.0	26230000.0	-852.0
90.539	444.9	12173.6	-14904.9	-5183000.0	-7782000.0	77.0
90.540	-603.4	17902.2	-7222.7	-6911000.0	30530000.0	-683.0
90.541	-721.1	-18174.4	11827.9	7218000.0	-15260000.0	407.0
90.542	-2449.6	-25900.1	21130.5	10180000.0	23050000.0	-305.0
90.543	-425.8	22181.6	17044.4	-8681000.0	-10960000.0	650.0
90.544	-2224.4	18029.4	26152.5	-6972000.0	27350000.0	-108.0
90.545	521.3	-9725.7	-19132.7	4191000.0	-11860000.0	-81.0
90.546	-594.2	-18400.8	-11325.3	7597000.0	26450000.0	-845.0
90.547	267.5	9867.5	-14614.9	-4712000.0	-8186000.0	-255.0
90.548	-812.7	16694.5	-6882.7	-6805000.0	30130000.0	-1016.0
90.549	-407.4	-11837.2	11335.8	5183000.0	-14860000.0	741.0
90.550	-2002.1	-23466.1	20401.4	9611000.0	23460000.0	39.0
90.551	-823.7	15999.8	16020.3	-6714000.0	-11180000.0	626.0
90.552	-2735.3	14013.8	25466.5	-5828000.0	27130000.0	-87.0
90.553	165.9	-8965.9	-19203.8	3591000.0	-12170000.0	-240.0
90.554	-958.7	-17917.9	-11380.0	7116000.0	26140000.0	-998.0
90.555	538.0	11480.6	-14313.7	-4942000.0	-7874000.0	-97.0
90.556	-532.2	16800.1	-6599.5	-6529000.0	30440000.0	-861.0
90.557	-825.1	-20101.1	11268.3	7924000.0	-15170000.0	561.0
90.558	-2563.5	-26384.0	20589.0	10360000.0	23140000.0	-131.0
90.559	-510.9	20721.9	16378.8	-8159000.0	-10870000.0	809.0
90.560	-2329.3	17235.1	25596.5	-6692000.0	27440000.0	81.0
111.1	-701.9	77.3	4853.0	-26106.0	9111000.0	628.0
111.2	-511.2	-8.3	3909.3	5325.0	6383000.0	399.0
111.3	-681.6	-99.7	5093.8	39670.0	8564000.0	503.0
111.4	-492.0	-216.4	4152.7	82766.0	5836000.0	273.0
111.5	-684.1	-22.9	8244.9	-1270.0	6755000.0	1188.0
111.6	-513.0	-128.4	7329.0	37449.0	4028000.0	959.0
111.7	-680.0	-882.3	16340.8	232243.0	74030000.0	1953.0
111.8	-528.5	-959.4	15457.4	264261.0	71300000.0	1723.0
111.9	-680.0	-585.0	13495.7	146823.0	58010000.0	1626.0

111.10	-506.7	-730.7	12583.7	203321.0	55290000.0	1397.0
111.11	-660.0	-780.3	13743.5	225925.0	57470000.0	1499.0
111.12	-504.9	-847.1	12853.9	253760.0	54740000.0	1270.0
111.13	-685.5	-841.6	16924.3	225375.0	55660000.0	2188.0
111.14	-535.8	-937.4	16044.6	264718.0	52930000.0	1958.0
111.15	-656.9	49.6	5911.3	-21079.0	15420000.0	745.0
111.16	-666.9	40.9	3684.3	-6501.0	2801000.0	510.0
111.17	-487.2	-28.6	4996.9	7181.0	12690000.0	516.0
111.18	-476.2	-43.3	2740.7	24386.0	73530.0	281.0
111.19	-659.8	51.5	6662.3	-25763.0	19630000.0	823.0
111.20	-644.4	5.3	2906.6	10713.0	-1405000.0	431.0
111.21	-495.0	-27.5	5754.6	2611.0	16900000.0	594.0
111.22	-458.9	-72.9	1969.8	39190.0	-4133000.0	201.0
111.23	-652.6	-122.4	6174.5	42544.0	14870000.0	619.0
111.24	-648.6	-118.7	3927.5	52530.0	2254000.0	384.0
111.25	-480.9	-230.2	5258.2	82386.0	12150000.0	391.0
111.26	-462.5	-213.8	2990.7	87749.0	-473751.0	154.0
111.27	-700.2	-24.8	9387.6	-7017.0	13070000.0	1305.0
111.28	-674.7	-19.9	7111.4	3947.0	445750.0	1071.0
111.29	-475.6	-208.3	8397.9	59244.0	10340000.0	1076.0
111.30	-512.5	-111.5	6207.4	37234.0	-2282000.0	841.0
111.31	-682.1	-950.0	17465.2	248594.0	80340000.0	2070.0
111.32	-680.8	-824.1	15220.8	219140.0	67720000.0	1836.0
111.33	-526.4	-1022.3	16575.6	278906.0	77610000.0	1841.0
111.34	-528.2	-899.1	14336.2	250772.0	64990000.0	1607.0
111.35	-677.7	-738.3	15361.9	188011.0	68530000.0	1821.0
111.36	-672.9	-458.0	11617.9	115616.0	47500000.0	1430.0
111.37	-531.5	-810.7	14486.8	218951.0	65800000.0	1591.0
111.38	-501.7	-617.2	10707.5	175763.0	44770000.0	1201.0
111.39	-684.1	-659.7	14622.8	165523.0	64320000.0	1742.0
111.40	-675.7	-512.1	12368.7	129103.0	51700000.0	1508.0
111.41	-528.8	-768.9	13735.7	209408.0	61600000.0	1513.0
111.42	-503.9	-663.4	11458.4	187084.0	48980000.0	1280.0
111.43	-650.7	-858.5	14852.0	245835.0	63780000.0	1617.0
111.44	-668.6	-690.4	12633.9	201967.0	51160000.0	1382.0
111.45	-493.6	-913.9	13959.3	269759.0	61050000.0	1388.0
111.46	-512.0	-774.0	11742.6	235780.0	48430000.0	1153.0
111.47	-690.0	-910.0	18051.9	241902.0	61970000.0	2306.0
111.48	-686.2	-782.6	15804.0	212098.0	49350000.0	2070.0
111.49	-532.2	-998.8	17160.7	278810.0	59240000.0	2076.0
111.50	-547.2	-869.6	14939.3	248375.0	46620000.0	1840.0
111.51	1779.2	-1100.3	-8083.1	495347.0	11080000.0	718.0
111.52	1923.6	-692.5	-8966.7	354037.0	8348000.0	486.0
111.53	3310.7	-742.0	-16546.4	443066.0	12390000.0	775.0
111.54	3450.2	-412.6	-17419.7	324319.0	9658000.0	547.0
111.55	1801.4	-1176.1	-7846.5	523741.0	10530000.0	590.0
111.56	1948.1	-766.0	-8733.9	380871.0	7801000.0	358.0
111.57	1779.5	-1129.8	-4668.9	490156.0	8720000.0	1280.0
111.58	1933.5	-778.9	-5565.7	366246.0	5993000.0	1047.0
111.59	1845.6	-987.2	3326.4	368769.0	75990000.0	2039.0
111.60	1974.8	-614.5	2462.8	237178.0	73260000.0	1811.0
111.61	1821.0	-930.2	523.0	372178.0	59980000.0	1713.0
111.62	1967.5	-549.2	-364.7	238047.0	57250000.0	1486.0
111.63	3380.6	-651.3	-7981.5	342626.0	61290000.0	1789.0
111.64	3508.8	-326.7	-8843.3	226940.0	58560000.0	1559.0
111.65	1840.1	-962.4	762.9	385424.0	59430000.0	1587.0
111.66	1988.1	-620.1	-126.9	263964.0	56700000.0	1359.0
111.67	1818.9	-1038.8	3941.9	393275.0	57620000.0	2273.0
111.68	1985.8	-683.2	3024.8	267077.0	54900000.0	2044.0
111.69	-3168.3	1436.0	6913.8	-409421.0	11080000.0	527.0
111.70	-2962.8	990.0	5932.8	-227324.0	8348000.0	294.0
111.71	-4747.5	1514.3	8146.4	-321275.0	12390000.0	451.0

111.72	-4578.7	1126.1	7214.8	-164158.0	9659000.0	207.0
111.73	-3172.2	1177.4	7195.8	-311244.0	10530000.0	400.0
111.74	-2975.4	754.3	6227.5	-138184.0	7801000.0	164.0
111.75	-3276.4	1414.0	10490.1	-418862.0	8721000.0	1092.0
111.76	-3074.4	974.4	9514.1	-238048.0	5993000.0	860.0
111.77	-3734.1	1508.7	19240.1	-513934.0	75990000.0	1866.0
111.78	-3512.6	1037.6	18233.9	-325411.0	73260000.0	1635.0
111.79	-3576.3	1493.8	16171.7	-490783.0	59980000.0	1536.0
111.80	-3366.1	1034.8	15180.9	-307506.0	57250000.0	1305.0
111.81	-5140.8	1476.3	17378.1	-375754.0	61290000.0	1465.0
111.82	-4924.8	1026.1	16380.5	-194693.0	58560000.0	1236.0
111.83	-3560.7	1249.8	16426.1	-397942.0	59430000.0	1410.0
111.84	-3351.7	793.0	15437.0	-215497.0	56700000.0	1180.0
111.85	-3722.0	1534.6	19803.4	-519398.0	57620000.0	2098.0
111.86	-3511.0	1083.1	18811.4	-338489.0	54900000.0	1868.0
111.87	-9981.4	-472.7	8109.2	146853.0	25440000.0	312.0
111.88	-9821.7	-445.4	7206.5	140765.0	22710000.0	83.0
111.89	-13049.6	-499.6	9212.6	150324.0	30790000.0	209.0
111.90	-12896.7	-265.9	8320.7	73797.0	28060000.0	-20.0
111.91	-9975.4	-717.8	8372.5	240177.0	24890000.0	185.0
111.92	-9813.4	-665.3	7467.3	225381.0	22160000.0	-44.0
111.93	-10013.0	-593.9	11571.4	180773.0	23080000.0	873.0
111.94	-9855.3	-486.5	10672.0	147301.0	20360000.0	643.0
111.95	-9972.6	-486.4	9216.9	145542.0	31750000.0	429.0
111.96	-9977.2	-462.2	6982.9	149313.0	19130000.0	194.0
111.97	-9818.2	-394.6	8322.3	117406.0	29020000.0	201.0
111.98	-9820.9	-483.2	6084.9	159759.0	16400000.0	-35.0
111.99	-9973.4	-483.9	9965.0	140625.0	35960000.0	508.0
111.100	-9974.9	-456.5	6232.7	151307.0	14920000.0	115.0
111.101	-9821.1	-368.7	9073.3	104570.0	33230000.0	279.0
111.102	-9825.8	-491.2	5345.0	166549.0	12200000.0	-113.0
111.103	-13042.8	-454.2	10323.6	128841.0	37090000.0	326.0
111.104	-13047.3	-540.1	8088.8	170226.0	24480000.0	90.0
111.105	-12887.1	-221.0	9427.6	52428.0	34370000.0	97.0
111.106	-12897.5	-303.3	7201.3	92604.0	21750000.0	-138.0
111.107	-9965.8	-711.4	9479.3	231863.0	31200000.0	303.0
111.108	-9986.8	-721.7	7268.0	247573.0	18580000.0	68.0
111.109	-9808.1	-622.4	8580.2	204651.0	28470000.0	73.0
111.110	-9825.9	-685.8	6364.2	238467.0	15850000.0	-162.0
111.111	-10016.0	-600.0	12696.0	176604.0	29390000.0	990.0
111.112	-10010.2	-601.7	10447.3	189556.0	16770000.0	755.0
111.113	-9859.5	-489.6	11798.9	141913.0	26670000.0	761.0
111.114	-9848.3	-528.0	9542.0	167563.0	14050000.0	525.0
111.115	-7559.4	45.3	-4779.3	47806.0	27400000.0	407.0
111.116	-7416.6	434.8	-5659.3	-95453.0	24680000.0	177.0
111.117	-6027.2	394.6	-13242.0	-11499.0	28710000.0	468.0
111.118	-5892.1	926.7	-14111.6	-198952.0	25990000.0	234.0
111.119	-10619.8	421.4	-3693.9	-100760.0	32750000.0	306.0
111.120	-10468.3	845.2	-4584.2	-258416.0	30020000.0	76.0
111.121	-7536.7	-25.0	-4544.0	73523.0	26860000.0	280.0
111.122	-7390.3	382.9	-5428.4	-77247.0	24130000.0	49.0
111.123	-7576.0	30.7	-1342.3	37043.0	25050000.0	968.0
111.124	-7422.8	367.9	-2237.5	-84480.0	22320000.0	738.0
111.125	-12651.3	289.3	10417.0	5870.0	27400000.0	208.0
111.126	-12443.9	-113.7	9431.4	169315.0	24680000.0	-21.0
111.127	-14231.2	473.3	11646.9	54995.0	28710000.0	140.0
111.128	-14028.8	2.5	10666.3	238102.0	25990000.0	-92.0
111.129	-15772.0	-82.1	11587.4	140690.0	32750000.0	104.0
111.130	-15561.4	-499.9	10596.1	306859.0	30020000.0	-126.0
111.131	-12649.7	49.2	10690.7	97273.0	26860000.0	83.0
111.132	-12441.4	-398.0	9703.8	275128.0	24130000.0	-146.0
111.133	-12777.9	313.1	14020.7	-17532.0	25050000.0	771.0

111.134	-12576.0	-125.7	13042.4	158267.0	22320000.0	541.0
111.135	8484.2	175.0	7987.8	-75215.0	25440000.0	1906.0
111.136	8672.6	90.3	7047.7	-44021.0	22710000.0	1677.0
111.137	11496.3	195.6	9008.8	-87214.0	30780000.0	2323.0
111.138	11691.8	94.2	8058.5	-50432.0	28060000.0	2095.0
111.139	8501.7	14.3	8232.3	-15702.0	24890000.0	1781.0
111.140	8691.9	-77.8	7289.4	17950.0	22160000.0	1552.0
111.141	8409.1	119.5	11507.8	-69633.0	23080000.0	2466.0
111.142	8597.9	-19.6	10566.1	-20908.0	20360000.0	2238.0
111.143	8450.9	194.4	9153.9	-89031.0	31750000.0	2024.0
111.144	8527.4	145.3	6808.6	-56996.0	19130000.0	1787.0
111.145	8642.8	98.2	8208.6	-54374.0	29020000.0	1795.0
111.146	8721.0	57.4	5860.9	-25010.0	16400000.0	1557.0
111.147	8430.3	202.2	9928.8	-96811.0	35950000.0	2103.0
111.148	8560.1	117.5	6017.1	-42375.0	14920000.0	1707.0
111.149	8622.0	82.5	8983.1	-54894.0	33230000.0	1874.0
111.150	8747.7	34.2	5077.7	-12184.0	12190000.0	1478.0
111.151	11463.3	190.0	10174.1	-93247.0	37090000.0	2442.0
111.152	11533.8	178.8	7837.0	-73926.0	24480000.0	2205.0
111.153	11655.6	63.1	9227.2	-49561.0	34370000.0	2213.0
111.154	11724.4	88.2	6893.8	-40799.0	21750000.0	1976.0
111.155	8474.0	23.9	9390.6	-26066.0	31200000.0	1898.0
111.156	8540.0	-12.3	7059.9	970.0	18580000.0	1662.0
111.157	8660.0	-65.7	8453.5	6977.0	28470000.0	1670.0
111.158	8736.4	-109.4	6108.2	36246.0	15850000.0	1432.0
111.159	8378.6	87.9	12669.2	-67100.0	29390000.0	2585.0
111.160	8440.4	110.8	10345.0	-59335.0	16770000.0	2348.0
111.161	8567.5	-106.7	11726.3	-566.0	26670000.0	2356.0
111.162	8629.3	17.6	9403.6	-25375.0	14050000.0	2119.0
111.163	11187.1	-1797.0	-5244.9	727935.0	27400000.0	1980.0
111.164	11324.3	-1566.6	-6114.4	648784.0	24680000.0	1752.0
111.165	12714.4	-1731.1	-13694.1	780761.0	28710000.0	2045.0
111.166	12850.7	-1382.8	-14564.7	660670.0	25990000.0	1817.0
111.167	14262.9	-2087.5	-4310.3	822261.1	32750000.0	2395.0
111.168	14399.0	-1806.3	-5177.4	727810.0	30020000.0	2166.0
111.169	11193.5	-1867.4	-4985.2	755953.0	26860000.0	1853.0
111.170	11343.1	-1644.3	-5871.6	679435.0	24130000.0	1625.0
111.171	11168.7	-1863.1	-1804.6	733421.0	25050000.0	2539.0
111.172	11310.8	-1608.4	-2679.9	647348.0	22320000.0	2311.0
111.173	6026.0	2756.1	10072.9	-949750.0	27400000.0	1808.0
111.174	6227.3	2214.4	9100.3	-731142.0	24680000.0	1577.0
111.175	4430.1	2668.3	11336.1	-792193.0	28710000.0	1737.0
111.176	4630.7	2192.0	10361.7	-601217.0	25990000.0	1504.0
111.177	9037.4	3134.8	11093.6	-1103000.0	32750000.0	2227.0
111.178	9237.2	2691.8	10134.0	-926021.0	30020000.0	1996.0
111.179	6022.0	2474.1	10355.9	-841613.0	26860000.0	1684.0
111.180	6224.3	1938.8	9382.0	-625290.0	24130000.0	1452.0
111.181	5892.5	2760.4	13687.2	-964280.0	25050000.0	2370.0
111.182	6098.2	2232.0	12706.9	-752314.0	22320000.0	2141.0
111.183	-708.1	557.2	4796.5	-255701.0	9110000.0	676.0
111.184	-507.7	467.9	3839.8	-223304.0	6383000.0	446.0
111.185	-693.3	495.8	5046.2	-227575.0	8563000.0	549.0
111.186	-507.2	397.7	4109.8	-192352.0	5836000.0	320.0
111.187	-713.6	821.4	4749.8	-387111.0	9110000.0	707.0
111.188	-492.9	767.9	3736.4	-357214.0	6383000.0	475.0
111.189	-712.0	443.2	8219.3	-229443.0	6755000.0	1237.0
111.190	-544.9	386.4	7309.9	-209516.0	4028000.0	1008.0
111.191	-685.8	-121.9	16283.7	-106656.0	74030000.0	2000.0
111.192	-525.6	52.1	15382.5	-165025.0	71300000.0	1772.0
111.193	-668.1	-2.6	13417.8	-127062.0	58010000.0	1673.0
111.194	-521.7	163.9	12535.9	-183126.0	55290000.0	1445.0
111.195	-667.8	-78.8	13687.6	-93863.0	57470000.0	1548.0

111.196	-516.8	80.8	12799.1	-147157.0	54740000.0	1319.0
111.197	-721.4	648.7	13448.9	-397031.0	58010000.0	1706.0
111.198	-543.6	723.1	12505.2	-415533.0	55290000.0	1477.0
111.199	-720.8	-145.6	16907.3	-92036.0	55660000.0	2233.0
111.200	-559.1	-11.2	16006.0	-135065.0	52930000.0	2005.0
111.201	-9987.5	688.0	8023.8	-324715.0	25440000.0	356.0
111.202	-9821.6	786.8	7090.5	-342064.0	22710000.0	129.0
111.203	-13064.0	851.6	9126.0	-378242.0	30780000.0	256.0
111.204	-12894.0	984.1	8193.2	-410842.0	28060000.0	24.0
111.205	-10000.0	622.7	8311.2	-292939.0	24890000.0	231.0
111.206	-9828.0	753.3	7371.4	-321388.0	22160000.0	2.6
111.207	-9986.6	984.3	7931.3	-453836.0	25440000.0	389.0
111.208	-9831.4	1167.8	7018.9	-508577.0	22710000.0	160.0
111.209	-10024.7	658.9	11505.2	-333475.0	23080000.0	919.0
111.210	-9847.0	655.1	10552.1	-310750.0	20360000.0	690.0
111.211	8477.9	422.8	7933.8	-230231.0	25440000.0	1954.0
111.212	8683.1	282.5	6971.5	-181609.0	22710000.0	1723.0
111.213	11487.5	356.6	8957.2	-215324.0	30780000.0	2371.0
111.214	11686.7	246.7	8003.4	-176369.0	28060000.0	2142.0
111.215	8498.3	328.5	8176.3	-190389.0	24890000.0	1827.0
111.216	8702.0	183.7	7216.2	-140204.0	22160000.0	1596.0
111.217	8487.6	595.5	7879.5	-339248.0	25440000.0	1982.0
111.218	8682.4	540.9	6932.6	-318262.0	22710000.0	1756.0
111.219	8383.7	317.0	11480.3	-211491.0	23080000.0	2516.0
111.220	8577.5	227.5	10532.5	-181121.0	20360000.0	2285.0
111.221	-694.3	-576.8	4848.2	224194.0	9111000.0	596.0
111.222	-504.1	-708.1	3906.8	273198.0	6383000.0	367.0
111.223	-678.0	-808.1	5097.1	311144.0	8564000.0	470.0
111.224	-487.6	-949.0	4156.7	363939.0	5836000.0	241.0
111.225	-690.3	-1054.5	4848.3	407121.0	9111000.0	576.0
111.226	-500.5	-1197.4	3909.5	461380.0	6384000.0	346.0
111.227	-687.0	-708.8	8256.3	261619.0	6756000.0	1156.0
111.228	-514.1	-848.5	7339.6	313550.0	4028000.0	927.0
111.229	-682.7	-1291.6	16363.3	418808.0	74030000.0	1918.0
111.230	-524.6	-1348.9	15471.0	444843.0	71300000.0	1690.0
111.231	-681.5	-1132.0	13513.7	374352.0	58010000.0	1592.0
111.232	-506.7	-1254.8	12601.9	425484.0	55290000.0	1364.0
111.233	-661.6	-1401.7	13762.3	477639.0	57470000.0	1467.0
111.234	-517.6	-1504.0	12893.1	522170.0	54740000.0	1238.0
111.235	-679.6	-1640.6	13522.0	571426.0	58010000.0	1571.0
111.236	-526.6	-1762.5	12641.4	622942.0	55290000.0	1343.0
111.237	-699.7	-1291.0	16962.3	423656.0	55660000.0	2154.0
111.238	-542.7	-1380.8	16073.5	462729.0	52930000.0	1924.0
111.239	-9990.1	-1378.8	8145.8	498274.0	25440000.0	279.0
111.240	-9829.7	-1361.5	7243.6	496135.0	22710000.0	50.0
111.241	-13056.7	-1437.1	9248.0	512929.0	30790000.0	175.0
111.242	-12898.2	-1377.1	8347.9	495554.0	28060000.0	-55.0
111.243	-9981.8	-1613.4	8407.0	588488.0	24890000.0	153.0
111.244	-9838.5	-1558.9	7528.1	572983.0	22160000.0	-77.0
111.245	-9994.9	-1971.7	8169.7	728784.0	25440000.0	259.0
111.246	-9835.6	-1955.9	7270.0	727787.0	22710000.0	29.0
111.247	-10023.1	-1491.7	11610.9	529858.0	23080000.0	839.0
111.248	-9856.2	-1444.7	10699.0	516900.0	20360000.0	610.0
111.249	8503.9	-433.1	7965.0	157247.0	25440000.0	1874.0
111.250	8687.9	-520.4	7028.8	188317.0	22710000.0	1644.0
111.251	11518.0	-399.3	8982.8	140247.0	30780000.0	2291.0
111.252	11710.1	-467.7	8033.8	163839.0	28060000.0	2061.0
111.253	8516.2	-617.9	8214.7	224722.0	24890000.0	1748.0
111.254	8701.3	-736.6	7281.3	269491.0	22160000.0	1520.0
111.255	8517.5	-871.6	7948.4	324279.0	25440000.0	1852.0
111.256	8700.0	-985.9	7018.7	367160.0	22710000.0	1624.0
111.257	8419.3	-522.2	11500.1	177082.0	23080000.0	2434.0

111.258	8607.6	-641.2	10559.8	220457.0	20360000.0	2206.0
111.401	4559.7	5010.9	-37149.4	-999457.0	-19860000.0	2732.0
111.402	2790.8	-1383.0	-32717.9	1535000.0	-11650000.0	3121.0
111.403	2917.2	11731.7	-26968.3	-4508000.0	-13080000.0	1983.0
111.404	1110.8	6975.9	-22482.9	-2518000.0	-4874000.0	2371.0
111.405	-2235.5	-10186.0	27673.3	5023000.0	20460000.0	-1223.0
111.406	-4144.4	-9236.3	32333.2	4897000.0	28670000.0	-849.0
111.407	-3903.3	8809.6	38142.3	-3190000.0	27230000.0	-2162.0
111.408	-5842.4	8926.6	42860.4	-3030000.0	35440000.0	-1790.0
111.409	4363.9	5241.3	-36606.2	-1411000.0	-19610000.0	2686.0
111.410	2614.7	-1947.7	-32212.8	1422000.0	-11400000.0	3076.0
111.411	3127.0	12280.2	-27500.5	-4457000.0	-13330000.0	2019.0
111.412	1321.3	7628.4	-23015.3	-2504000.0	-5123000.0	2408.0
111.413	-2307.2	-12463.1	27953.4	5652000.0	20710000.0	-1292.0
111.414	-4234.1	-11625.4	32641.7	5565000.0	28920000.0	-919.0
111.415	-3855.1	11047.5	37891.0	-3789000.0	26980000.0	-2111.0
111.416	-5796.6	11259.7	42605.4	-3668000.0	35190000.0	-1741.0
111.417	3861.1	1253.7	-59835.5	790792.0	-19880000.0	3002.0
111.418	2102.1	-4289.5	-55407.6	3020000.0	-11670000.0	3394.0
111.419	2279.6	11627.3	-49659.5	-4224000.0	-13110000.0	2217.0
111.420	500.1	7150.3	-45204.7	-2340000.0	-4904000.0	2608.0
111.421	-1895.3	-5741.4	50988.2	3816000.0	20490000.0	-1426.0
111.422	-3832.1	-4367.1	55716.2	3528000.0	28700000.0	-1045.0
111.423	-3393.4	12365.9	60992.7	-4018000.0	27260000.0	-2343.0
111.424	-5371.5	13038.0	65814.1	-4074000.0	35470000.0	-1962.0
111.425	3786.0	225.6	-59504.6	911394.1	-19640000.0	2954.0
111.426	2026.4	-5332.1	-55075.8	3146000.0	-11430000.0	3345.0
111.427	2355.5	12433.6	-50001.5	-4280000.0	-13360000.0	2254.0
111.428	575.7	7959.0	-45546.3	-2396000.0	-5152000.0	2645.0
111.429	-1979.4	-7416.8	51313.9	4184000.0	20740000.0	-1448.0
111.430	-3918.7	-5860.2	56050.6	3832000.0	28950000.0	-1063.0
111.431	-3276.3	14154.4	60633.9	-4442000.0	27010000.0	-2312.0
111.432	-5230.2	14832.3	65408.3	-4497000.0	35220000.0	-1931.0
111.433	3569.7	-22159.5	-24986.7	9367000.0	-13650000.0	2276.0
111.434	1836.7	-25121.7	-20661.5	10650000.0	-5435000.0	2687.0
111.435	-1142.0	16393.1	7466.6	-8173000.0	8926000.0	-383.0
111.436	-2962.2	12981.4	11976.5	-6662000.0	17140000.0	-15.0
111.437	2153.8	-31345.5	-7315.7	13030000.0	-1551000.0	1212.0
111.438	327.9	-31433.8	-2851.1	13180000.0	6659000.0	1611.0
111.439	-3283.8	27624.5	27306.7	-12220000.0	21020000.0	-1748.0
111.440	-5224.3	24835.6	31998.4	-10900000.0	29230000.0	-1369.0
111.441	4142.5	-25336.3	-33541.4	10650000.0	-13650000.0	2351.0
111.442	2508.8	-29046.1	-29437.4	12150000.0	-5444000.0	2751.0
111.443	-1305.1	16792.7	626.2	-8245000.0	8917000.0	-339.0
111.444	-3165.2	12549.2	5190.2	-6438000.0	17130000.0	40.0
111.445	1426.3	-25880.0	1709.3	10950000.0	-1542000.0	1151.0
111.446	-271.1	-27669.0	5865.3	11810000.0	6668000.0	1547.0
111.447	-3241.8	31289.0	34356.2	-13500000.0	21030000.0	-1777.0
111.448	-5169.3	28583.1	39028.1	-12220000.0	29240000.0	-1399.0
111.449	2914.7	-24613.9	-23119.4	9308000.0	-12820000.0	2156.0
111.450	1181.4	-27410.0	-18792.7	10530000.0	-4606000.0	2565.0
111.451	-649.5	20473.1	6005.4	-8827000.0	8097000.0	-336.0
111.452	-2483.6	17590.7	10545.4	-7479000.0	16310000.0	34.0
111.453	1656.0	-40776.9	-5644.9	15770000.0	-721533.0	1074.0
111.454	-306.8	-38810.1	-862.9	15090000.0	7488000.0	1476.0
111.455	-2979.5	32349.4	26137.3	-13070000.0	20190000.0	-1623.0
111.456	-4904.5	29539.1	30803.7	-11750000.0	28400000.0	-1253.0
111.457	3430.1	-29907.6	-31338.2	11380000.0	-12820000.0	2224.0
111.458	1690.1	-33326.1	-26981.6	12790000.0	-4615000.0	2623.0
111.459	-915.0	18994.0	-708.1	-8267000.0	8088000.0	-262.0
111.460	-2733.9	14814.1	3798.4	-6484000.0	16300000.0	110.0
111.461	562.1	-31028.7	4060.3	11940000.0	-712885.0	1036.0

111.462	-1221.5	-33388.6	8388.3	13030000.0	7497000.0	1432.0
111.463	-2830.5	36002.2	33035.9	-14350000.0	20200000.0	-1685.0
111.464	-4765.5	33197.5	37717.3	-13030000.0	28410000.0	-1316.0
111.529	4187.6	6036.0	-19334.2	-2001000.0	-15320000.0	852.0
111.530	-1576.3	-14863.7	-4799.1	6210000.0	12040000.0	2171.0
111.531	2763.8	11902.3	-9568.9	-5261000.0	-8552000.0	91.0
111.532	-3379.3	-2277.5	5563.1	773789.0	18810000.0	1370.0
111.533	2389.6	-11772.2	-515.2	4650000.0	-3229000.0	-280.0
111.534	-3931.9	-8651.9	14831.4	4022000.0	24140000.0	1015.0
111.535	780.3	9889.7	9889.0	-4443000.0	3543000.0	-1195.0
111.536	-5692.0	7334.7	25674.7	-2734000.0	30910000.0	72.0
111.537	3990.2	5385.7	-18791.5	-2050000.0	-15070000.0	817.0
111.538	-1755.0	-15211.4	-4250.2	6025000.0	12290000.0	2134.0
111.539	2923.9	12526.9	-10028.6	-5253000.0	-8800000.0	110.0
111.540	-3114.9	-1674.3	4959.7	789573.0	18570000.0	1396.0
111.541	2337.1	-14666.2	-197.2	5536000.0	-2980000.0	-343.0
111.542	-4051.2	-11094.0	15265.3	4662000.0	24390000.0	978.0
111.543	830.5	11871.4	9639.9	-4943000.0	3294000.0	-1143.0
111.544	-5569.9	8895.3	25258.1	-3052000.0	30660000.0	107.0
111.545	4147.3	3152.8	-26536.6	-719488.0	-15330000.0	930.0
111.546	-1617.2	-19350.1	-11915.6	7990000.0	12030000.0	2244.0
111.547	2581.2	12459.1	-16383.3	-5392000.0	-8561000.0	142.0
111.548	-3426.0	-2023.7	-1435.9	743398.0	18810000.0	1432.0
111.549	2238.0	-11105.9	7048.8	4420000.0	-3220000.0	-336.0
111.550	-3984.6	-4026.5	22316.1	2642000.0	24150000.0	935.0
111.551	932.3	10723.2	16700.2	-4596000.0	3552000.0	-1240.0
111.552	-5510.3	9905.2	32462.0	-3572000.0	30920000.0	40.0
111.553	4084.6	1854.9	-26217.7	-511965.0	-15080000.0	890.0
111.554	-1747.1	-21186.8	-11477.3	8399000.0	12280000.0	2206.0
111.555	2660.2	13151.5	-16729.7	-5412000.0	-8809000.0	178.0
111.556	-3296.5	-1135.5	-1854.2	661776.0	18560000.0	1464.0
111.557	2101.2	-12081.1	7508.7	4558000.0	-2971000.0	-369.0
111.558	-4254.0	-4975.3	23080.2	2728000.0	24400000.0	919.0
111.559	1025.3	12494.7	16376.7	-5010000.0	3303000.0	-1215.0
111.560	-5394.6	12068.0	32109.2	-4141000.0	30670000.0	56.0
112.1	455.6	-75.8	3665.3	57340.0	8532000.0	278.0
112.2	217.4	12.9	3179.2	15214.0	6019000.0	161.0
112.3	240.0	111.6	4177.1	-15280.0	8075000.0	174.0
112.4	23.7	230.1	3656.6	-68318.0	5565000.0	59.0
112.5	942.8	40.3	6420.7	12893.0	6366000.0	639.0
112.6	711.9	148.9	5922.6	-36636.0	3853000.0	521.0
112.7	5280.7	1215.9	10847.4	-452455.0	69340000.0	880.0
112.8	5024.9	1279.7	10394.8	-481307.0	66830000.0	759.0
112.9	4109.8	835.9	9041.0	-303593.0	54340000.0	734.0
112.10	3838.0	970.4	8610.6	-359419.0	51830000.0	615.0
112.11	3856.8	1014.6	9606.8	-366489.0	53880000.0	630.0
112.12	3627.3	1070.4	9115.3	-392835.0	51370000.0	509.0
112.13	4580.1	1121.1	11823.6	-414408.0	52180000.0	1097.0
112.14	4325.9	1201.3	11368.6	-448846.0	49660000.0	977.0
112.15	906.0	-30.1	4390.4	41416.0	14440000.0	321.0
112.16	-19.2	-61.0	2977.1	51960.0	2617000.0	236.0
112.17	677.3	52.9	3889.2	911.0	11930000.0	204.0
112.18	-243.8	25.8	2469.6	10515.0	105663.0	120.0
112.19	1215.1	-17.5	4859.8	36837.0	18390000.0	349.0
112.20	-331.0	-39.8	2510.5	44175.0	-1325000.0	208.0
112.21	994.6	66.3	4345.8	-4095.0	15880000.0	233.0
112.22	-548.3	41.8	1991.9	4464.0	-3836000.0	94.0
112.23	698.1	153.5	4889.6	-30132.0	13990000.0	216.0
112.24	-215.6	109.8	3459.6	-14974.0	2163000.0	134.0
112.25	459.3	264.0	4403.8	-80140.0	11480000.0	98.0
112.26	-443.2	206.7	2957.1	-59837.0	-349095.0	17.0
112.27	1426.8	64.8	7093.4	3401.0	12280000.0	684.0

112.28	477.2	14.7	5720.0	22673.0	451854.0	595.0
112.29	1159.1	254.3	6643.4	-77372.0	9767000.0	574.0
112.30	255.6	110.5	5207.6	-22447.0	-2060000.0	478.0
112.31	5739.8	1314.1	11559.5	-491164.0	75260000.0	924.0
112.32	4797.9	1128.4	10169.8	-418052.0	63430000.0	838.0
112.33	5507.6	1372.7	11072.2	-517981.0	72740000.0	802.0
112.34	4568.8	1188.2	9678.2	-445032.0	60920000.0	716.0
112.35	4829.4	1043.9	10294.2	-385498.0	64200000.0	808.0
112.36	3341.0	652.8	7860.4	-230696.0	44490000.0	661.0
112.37	4645.0	1100.1	9736.4	-410890.0	61690000.0	685.0
112.38	3075.2	806.5	7420.4	-294996.0	41970000.0	542.0
112.39	4570.0	942.2	9751.3	-345535.0	60260000.0	777.0
112.40	3648.7	730.3	8332.2	-261636.0	48430000.0	690.0
112.41	4337.8	1037.4	9263.3	-386004.0	57750000.0	656.0
112.42	3380.4	872.9	7896.4	-321078.0	45920000.0	571.0
112.43	4311.5	1124.7	10325.6	-409966.0	59800000.0	674.0
112.44	3423.4	891.9	8857.3	-318151.0	47970000.0	586.0
112.45	4081.1	1167.7	9835.4	-431207.0	57290000.0	553.0
112.46	3192.0	965.3	8368.2	-351265.0	45460000.0	464.0
112.47	5039.8	1220.1	12534.7	-453434.0	58090000.0	1142.0
112.48	4097.3	1032.1	11146.1	-379214.0	46260000.0	1054.0
112.49	4807.7	1292.9	12047.5	-485028.0	55580000.0	1020.0
112.50	3871.1	1102.9	10649.9	-410059.0	43750000.0	933.0
112.51	2804.1	620.8	-4795.4	-106627.0	9708000.0	1074.0
112.52	2591.7	176.7	-5324.1	57329.0	7196000.0	949.0
112.53	4459.0	-152.1	-10585.1	262907.0	10500000.0	1589.0
112.54	4241.4	-488.9	-11095.3	380118.0	7987000.0	1466.0
112.55	2589.0	708.2	-4278.6	-142601.0	9251000.0	970.0
112.56	2377.5	264.8	-4808.2	20382.0	6740000.0	845.0
112.57	3286.3	678.7	-2030.6	-133358.0	7542000.0	1439.0
112.58	3064.5	306.1	-2540.5	348.0	5029000.0	1312.0
112.59	7577.7	786.9	2459.1	-187133.0	70510000.0	1669.0
112.60	7357.7	390.1	1943.2	-43530.0	68000000.0	1546.0
112.61	6404.6	645.9	658.1	-126620.0	55510000.0	1521.0
112.62	6182.4	238.6	144.7	21343.0	53000000.0	1400.0
112.63	7989.1	-23.6	-5025.2	198332.0	56300000.0	2052.0
112.64	7772.3	-364.0	-5542.3	319088.0	53790000.0	1928.0
112.65	6189.6	685.6	1172.9	-143934.0	55060000.0	1418.0
112.66	5964.8	323.7	665.3	-14304.0	52550000.0	1295.0
112.67	6883.1	796.7	3434.7	-191077.0	53350000.0	1885.0
112.68	6653.3	420.0	2933.4	-55628.0	50840000.0	1762.0
112.69	-1958.0	-1874.2	6792.2	845836.1	9079000.0	-498.0
112.70	-2181.8	-1505.0	6295.2	718358.0	6569000.0	-608.0
112.71	-3553.8	-2419.9	8878.8	1170000.0	9449000.0	-997.0
112.72	-3548.5	-2095.3	8033.4	1055000.0	6965000.0	-1095.0
112.73	-2152.7	-1614.5	7273.6	748898.0	8625000.0	-603.0
112.74	-2369.8	-1265.0	6766.7	628109.0	6115000.0	-711.0
112.75	-1477.2	-1810.3	9555.0	815261.0	6910000.0	-151.0
112.76	-1699.6	-1452.9	9057.5	693251.0	4400000.0	-262.0
112.77	2928.9	-1667.8	13916.5	753524.0	69890000.0	38.0
112.78	2741.9	-1263.5	13359.0	610159.0	67380000.0	-68.0
112.79	1729.1	-1716.7	12147.7	774267.0	54890000.0	-93.0
112.80	1493.7	-1318.4	11662.9	632604.0	52380000.0	-207.0
112.81	93.7	-2127.5	14280.2	1040000.0	55250000.0	-603.0
112.82	-159.4	-1741.7	13824.5	904023.1	52740000.0	-716.0
112.83	1518.9	-1471.8	12652.3	682899.0	54430000.0	-200.0
112.84	1284.6	-1075.8	12166.0	542056.0	51920000.0	-313.0
112.85	2218.8	-1732.0	14904.5	776937.0	52720000.0	254.0
112.86	1984.1	-1343.2	14419.5	639136.0	50210000.0	141.0
112.87	-7347.2	593.7	5502.7	-216274.0	23740000.0	2580.0
112.88	-7586.3	553.7	5022.9	-206358.0	21230000.0	2455.0
112.89	-9905.4	647.2	6112.4	-241050.0	28720000.0	3326.0

112.90	-10140.2	373.2	5616.8	-138715.0	26210000.0	3201.0
112.91	-7565.2	839.9	6019.2	-308133.0	23290000.0	2473.0
112.92	-7814.2	772.5	5558.6	-287526.0	20770000.0	2349.0
112.93	-6848.3	725.1	8241.3	-265149.0	21580000.0	2942.0
112.94	-7086.2	594.6	7757.7	-219506.0	19070000.0	2817.0
112.95	-6892.1	630.0	6218.0	-229962.0	29660000.0	2624.0
112.96	-7813.0	560.5	4802.9	-203723.0	17830000.0	2535.0
112.97	-7135.1	516.8	5740.8	-191207.0	27140000.0	2501.0
112.98	-8056.9	575.0	4332.0	-215298.0	15320000.0	2410.0
112.99	-6583.0	641.7	6686.9	-234205.0	33600000.0	2654.0
112.100	-8128.6	540.1	4343.6	-196106.0	13890000.0	2505.0
112.101	-6826.3	501.7	6208.4	-184773.0	31090000.0	2531.0
112.102	-8361.0	569.7	3855.9	-213564.0	11370000.0	2380.0
112.103	-9449.3	616.8	6823.6	-228420.0	34640000.0	3371.0
112.104	-10371.8	671.7	5415.5	-251215.0	22810000.0	3281.0
112.105	-9682.8	343.6	6326.2	-126385.0	32120000.0	3246.0
112.106	-10611.1	394.1	4926.2	-147471.0	20300000.0	3156.0
112.107	-7114.7	854.3	6742.3	-313304.0	29200000.0	2518.0
112.108	-8015.2	822.6	5295.8	-301854.0	17370000.0	2427.0
112.109	-7352.3	745.1	6261.4	-276062.0	26690000.0	2393.0
112.110	-8258.4	774.1	4827.3	-288584.0	14860000.0	2303.0
112.111	-6384.7	753.9	8945.4	-276081.0	27490000.0	2986.0
112.112	-7312.6	712.3	7538.7	-260638.0	15670000.0	2896.0
112.113	-6621.9	620.2	8459.8	-229348.0	24980000.0	2862.0
112.114	-7552.9	620.2	7061.6	-230155.0	13150000.0	2772.0
112.115	-5000.8	-438.0	-2969.0	264201.0	24920000.0	3364.0
112.116	-5220.5	-828.1	-3478.6	399613.0	22410000.0	3242.0
112.117	-3394.2	-1159.6	-8677.3	604633.0	25700000.0	3881.0
112.118	-3621.7	-1725.7	-9183.4	813398.0	23190000.0	3754.0
112.119	-7558.6	-779.1	-2366.3	381977.0	29900000.0	4115.0
112.120	-7780.7	-1195.5	-2870.4	525236.0	27390000.0	3994.0
112.121	-5218.3	-353.4	-2448.0	228608.0	24460000.0	3260.0
112.122	-5452.6	-758.9	-2935.3	369034.0	21950000.0	3136.0
112.123	-4504.9	-394.9	-224.9	242934.0	22750000.0	3729.0
112.124	-4746.5	-742.3	-703.2	364751.0	20240000.0	3605.0
112.125	-9754.4	-705.1	8641.1	411444.0	24290000.0	1772.0
112.126	-9988.0	-365.3	8157.5	291825.0	21780000.0	1659.0
112.127	-11384.7	-1355.4	10784.6	773712.0	24660000.0	1270.0
112.128	-11586.8	-923.9	10243.9	615059.0	22150000.0	1157.0
112.129	-12296.7	-327.4	9231.4	271313.0	29270000.0	2516.0
112.130	-12531.0	39.9	8744.9	138792.0	26760000.0	2403.0
112.131	-9948.5	-464.6	9122.0	321680.0	23840000.0	1666.0
112.132	-10188.0	-71.6	8643.7	180431.0	21320000.0	1554.0
112.133	-9245.7	-700.6	11367.5	405656.0	22120000.0	2123.0
112.134	-9469.6	-321.9	10866.2	271016.0	19610000.0	2011.0
112.135	11113.1	-148.9	5446.1	106274.0	23690000.0	-1522.0
112.136	10866.0	-61.0	4973.5	64473.0	21170000.0	-1642.0
112.137	14607.4	-161.0	6022.2	117677.0	28650000.0	-2111.0
112.138	14357.5	-53.9	5553.8	68251.0	26130000.0	-2230.0
112.139	10882.3	23.9	5981.0	38746.0	23230000.0	-1629.0
112.140	10653.8	119.6	5479.1	-6113.0	20710000.0	-1746.0
112.141	11643.4	-66.2	8137.7	70743.0	21520000.0	-1162.0
112.142	11410.7	85.6	7642.3	2871.0	19010000.0	-1280.0
112.143	11582.6	-144.4	6141.7	103975.0	29600000.0	-1479.0
112.144	10626.1	-144.9	4778.1	105960.0	17770000.0	-1567.0
112.145	11351.6	-42.4	5643.8	56242.0	27090000.0	-1597.0
112.146	10397.2	-53.0	4277.0	62320.0	15260000.0	-1684.0
112.147	11895.3	-134.3	6605.8	99399.0	33540000.0	-1451.0
112.148	10329.2	-133.4	4289.5	101928.0	13830000.0	-1592.0
112.149	11664.0	-3.2	6108.1	39513.0	31030000.0	-1568.0
112.150	10098.9	-45.7	3790.5	59757.0	11320000.0	-1710.0
112.151	15076.5	-125.6	6718.1	102537.0	34560000.0	-2069.0

112.152	14118.6	-168.9	5357.0	121575.0	22730000.0	-2156.0
112.153	14845.3	16.1	6220.3	37811.0	32050000.0	-2186.0
112.154	13889.9	-75.0	4855.5	77394.0	20220000.0	-2273.0
112.155	11370.9	38.1	6646.8	32742.0	29140000.0	-1584.0
112.156	10414.4	25.5	5283.2	38936.0	17310000.0	-1671.0
112.157	11120.9	131.1	6178.4	-10804.0	26630000.0	-1704.0
112.158	10201.5	126.5	4756.9	-8118.0	14800000.0	-1786.0
112.159	12113.1	-0.7	8832.6	43479.0	27440000.0	-1120.0
112.160	11173.8	-83.5	7442.7	78073.0	15610000.0	-1205.0
112.161	11879.4	217.3	8338.2	-51438.0	24920000.0	-1238.0
112.162	10940.9	14.0	6947.5	32506.0	13100000.0	-1322.0
112.163	13408.1	1384.9	-2932.1	-378111.0	24860000.0	-716.0
112.164	13188.1	1130.4	-3444.8	-287118.0	22350000.0	-839.0
112.165	15020.5	913.1	-8654.7	-121738.0	25650000.0	-197.0
112.166	14808.6	531.3	-9183.1	18579.0	23130000.0	-318.0
112.167	16880.6	1718.0	-2317.0	-502662.0	29820000.0	-1301.0
112.168	16663.3	1398.5	-2837.5	-384214.0	27310000.0	-1424.0
112.169	13196.3	1459.8	-2422.0	-407675.0	24400000.0	-821.0
112.170	12973.2	1213.0	-2929.7	-319642.0	21890000.0	-944.0
112.171	13910.6	1491.0	-191.9	-425762.0	22690000.0	-355.0
112.172	13686.2	1204.8	-699.7	-321276.0	20180000.0	-476.0
112.173	8664.9	-2989.7	8611.7	1238000.0	24230000.0	-2315.0
112.174	8436.6	-2530.8	8119.7	1079000.0	21710000.0	-2425.0
112.175	7055.3	-3407.2	10723.8	1523000.0	24590000.0	-2814.0
112.176	6841.4	-2996.9	10208.0	1378000.0	22080000.0	-2925.0
112.177	12151.3	-3321.4	9199.2	1358000.0	29190000.0	-2907.0
112.178	11923.2	-2935.1	8702.9	1220000.0	26680000.0	-3020.0
112.179	8462.1	-2713.0	9106.1	1136000.0	23770000.0	-2421.0
112.180	8248.1	-2261.3	8592.7	979357.0	21260000.0	-2531.0
112.181	9186.4	-2974.0	11320.1	1230000.0	22060000.0	-1964.0
112.182	8935.8	-2519.6	10860.2	1070000.0	19550000.0	-2077.0
112.183	567.2	-461.3	3391.0	178378.0	8514000.0	256.0
112.184	325.8	-369.5	2911.1	134919.0	6001000.0	138.0
112.185	365.9	-409.7	3881.5	160820.0	8059000.0	153.0
112.186	127.1	-307.3	3398.0	112967.0	5546000.0	35.0
112.187	627.9	-676.6	3225.4	245260.0	8501000.0	241.0
112.188	392.2	-672.3	2731.4	245112.0	5990000.0	131.0
112.189	1059.6	-319.3	6146.0	120706.0	6348000.0	616.0
112.190	821.5	-258.3	5661.0	88092.0	3835000.0	498.0
112.191	5329.0	562.5	10679.1	-237515.0	69320000.0	855.0
112.192	5104.8	364.6	10169.8	-167436.0	66810000.0	735.0
112.193	4139.1	363.5	8904.1	-156087.0	54320000.0	708.0
112.194	3918.2	174.9	8389.9	-89957.0	51810000.0	589.0
112.195	3931.1	432.2	9405.0	-180310.0	53860000.0	605.0
112.196	3728.6	250.1	8864.0	-116231.0	51350000.0	484.0
112.197	4258.6	-254.9	8650.6	64297.0	54310000.0	689.0
112.198	4026.2	-369.9	8151.9	106984.0	51800000.0	573.0
112.199	4690.7	543.3	11569.3	-229236.0	52160000.0	1070.0
112.200	4457.2	381.9	11073.2	-172012.0	49650000.0	950.0
112.201	-7248.1	-524.4	5232.3	185942.0	23720000.0	2555.0
112.202	-7470.9	-707.7	4713.5	264784.0	21210000.0	2439.0
112.203	-9788.0	-723.3	5797.8	268120.0	28710000.0	3306.0
112.204	-10020.5	-927.9	5299.4	352188.0	26190000.0	3186.0
112.205	-7441.5	-477.7	5710.1	172614.0	23270000.0	2449.0
112.206	-7675.2	-695.5	5207.8	264894.0	20760000.0	2333.0
112.207	-7169.7	-838.1	5036.1	304420.0	23720000.0	2550.0
112.208	-7397.0	-1079.9	4529.3	398754.0	21200000.0	2433.0
112.209	-6752.2	-450.1	7980.4	149629.0	21560000.0	2915.0
112.210	-6990.0	-540.2	7484.3	196213.0	19050000.0	2798.0
112.211	11216.6	-261.6	5194.3	115299.0	23670000.0	-1548.0
112.212	11003.0	-109.2	4672.2	46816.0	21160000.0	-1662.0
112.213	14710.7	-167.2	5771.0	82388.0	28630000.0	-2138.0

112.214	14471.9	-50.1	5288.5	28541.0	26120000.0	-2255.0
112.215	11019.9	-175.6	5676.2	84628.0	23210000.0	-1651.0
112.216	10803.5	-18.3	5158.2	14265.0	20700000.0	-1765.0
112.217	11296.1	-336.1	5015.2	118557.0	23660000.0	-1563.0
112.218	11058.8	-284.9	4528.0	91384.0	21140000.0	-1678.0
112.219	11727.2	-108.5	7919.2	48584.0	21500000.0	-1192.0
112.220	11500.0	-7.7	7418.7	-269.0	18990000.0	-1308.0
112.221	386.0	609.8	3828.3	-202786.0	8549000.0	286.0
112.222	153.2	741.5	3333.4	-260136.0	6036000.0	169.0
112.223	171.5	847.4	4338.5	-292913.0	8092000.0	181.0
112.224	-44.8	987.5	3818.7	-353220.0	5582000.0	66.0
112.225	340.1	1106.6	3936.5	-390408.0	8560000.0	291.0
112.226	106.9	1246.2	3443.0	-449749.0	6047000.0	174.0
112.227	883.8	754.1	6567.5	-256692.0	6384000.0	646.0
112.228	661.3	894.4	6056.3	-317446.0	3872000.0	530.0
112.229	5228.7	1553.5	10979.7	-558304.0	69360000.0	889.0
112.230	4997.1	1593.2	10491.6	-577116.0	66850000.0	768.0
112.231	4050.6	1348.5	9187.3	-483537.0	54360000.0	743.0
112.232	3779.7	1449.1	8755.6	-524025.0	51850000.0	623.0
112.233	3794.6	1614.3	9759.5	-581875.0	53900000.0	638.0
112.234	3607.0	1690.9	9206.8	-612391.0	51390000.0	516.0
112.235	4003.1	1864.2	9300.9	-675467.0	54370000.0	747.0
112.236	3772.6	1961.4	8810.5	-713977.0	51860000.0	626.0
112.237	4548.0	1510.6	11928.4	-542416.0	52200000.0	1106.0
112.238	4315.3	1578.4	11441.1	-570530.0	49690000.0	985.0
112.239	-7415.9	1496.1	5668.3	-548530.0	23760000.0	2586.0
112.240	-7658.0	1465.6	5197.9	-541877.0	21250000.0	2461.0
112.241	-9978.4	1583.6	6291.2	-586253.0	28740000.0	3332.0
112.242	-10222.0	1508.4	5824.5	-562506.0	26230000.0	3207.0
112.243	-7634.2	1728.4	6186.6	-634506.0	23300000.0	2480.0
112.244	-7863.2	1659.2	5698.2	-613105.0	20790000.0	2354.0
112.245	-7461.7	2085.9	5779.9	-765586.0	23770000.0	2591.0
112.246	-7704.1	2054.2	5310.6	-757870.0	21260000.0	2466.0
112.247	-6917.7	1615.8	8409.1	-592320.0	21600000.0	2948.0
112.248	-7160.8	1555.2	7941.0	-574379.0	19080000.0	2824.0
112.249	11043.2	494.7	5609.7	-139414.0	23700000.0	-1513.0
112.250	10811.6	589.6	5111.6	-184688.0	21190000.0	-1632.0
112.251	14537.0	470.2	6186.3	-123592.0	28660000.0	-2103.0
112.252	14305.4	548.2	5687.8	-163070.0	26150000.0	-2220.0
112.253	10832.2	695.5	6112.5	-218100.0	23250000.0	-1620.0
112.254	10584.8	813.2	5640.9	-269882.0	20730000.0	-1739.0
112.255	10996.1	958.4	5718.0	-316023.0	23710000.0	-1508.0
112.256	10765.6	1072.3	5220.3	-366716.0	21200000.0	-1626.0
112.257	11572.4	603.4	8303.0	-182477.0	21540000.0	-1155.0
112.258	11341.3	727.4	7804.8	-238087.0	19030000.0	-1272.0
112.401	6206.6	-22036.8	-36397.6	9269000.0	17580000.0	3609.0
112.402	8056.3	-15225.3	-31970.3	6479000.0	25320000.0	4116.0
112.403	4826.9	16856.5	-24578.8	-6300000.0	26820000.0	4517.0
112.404	6759.0	21783.9	-20351.7	-8334000.0	34560000.0	5031.0
112.405	-5890.0	-24237.0	23385.4	10610000.0	-20060000.0	-4371.0
112.406	-3925.5	-24986.9	27589.5	10660000.0	-12310000.0	-3866.0
112.407	-7076.1	2884.1	35195.8	-760166.0	-10800000.0	-3453.0
112.408	-4977.9	3067.3	39143.5	-1078000.0	-3030000.0	-2941.0
112.409	6184.0	-24931.8	-36209.8	10010000.0	17920000.0	3621.0
112.410	8013.3	-17347.2	-31748.0	6938000.0	25660000.0	4118.0
112.411	4821.9	19271.3	-24662.8	-6933000.0	26470000.0	4524.0
112.412	6757.9	24088.5	-20444.6	-8925000.0	34220000.0	5040.0
112.413	-5604.1	-25124.2	23096.8	10720000.0	-19680000.0	-4351.0
112.414	-3555.6	-25748.9	27166.6	10720000.0	-11920000.0	-3842.0
112.415	-7174.7	3724.1	35218.0	-836651.0	-11150000.0	-3463.0
112.416	-5048.6	3831.3	39121.0	-1130000.0	-3385000.0	-2952.0
112.417	9040.5	-18987.5	-57696.6	8705000.0	19350000.0	4668.0

112.418	10905.1	-13062.0	-53309.1	6252000.0	27090000.0	5184.0
112.419	7635.3	16898.3	-45733.6	-5904000.0	28590000.0	5636.0
112.420	9561.2	21559.3	-41495.9	-7843000.0	36340000.0	6156.0
112.421	-8919.6	-31772.3	44506.0	13720000.0	-21850000.0	-5575.0
112.422	-6952.4	-32921.6	48715.3	13910000.0	-14100000.0	-5074.0
112.423	-9948.6	-3976.4	56103.9	2148000.0	-12570000.0	-4682.0
112.424	-7906.9	-4299.7	60144.5	2006000.0	-4808000.0	-4179.0
112.425	8999.2	-20907.5	-57539.3	9152000.0	19690000.0	4654.0
112.426	10868.1	-14965.2	-53157.5	6691000.0	27430000.0	5171.0
112.427	7658.2	19101.9	-45853.1	-6470000.0	28250000.0	5647.0
112.428	9586.0	23760.2	-41618.2	-8408000.0	36000000.0	6167.0
112.429	-8743.5	-33084.3	44358.5	13950000.0	-21490000.0	-5585.0
112.430	-6817.6	-34431.7	48642.2	14210000.0	-13740000.0	-5088.0
112.431	-10488.2	-2717.3	56784.0	1927000.0	-12970000.0	-4691.0
112.432	-8511.4	-3054.2	60925.6	1792000.0	-5222000.0	-4189.0
112.433	3219.6	-49897.3	-28188.4	20160000.0	-6417000.0	-326.0
112.434	5113.5	-46625.6	-23863.2	18690000.0	1325000.0	184.0
112.435	-1335.7	63035.1	11149.9	-25460000.0	24360000.0	2757.0
112.436	537.8	66548.2	15520.3	-26950000.0	32110000.0	3269.0
112.437	-330.8	-46260.9	-11178.4	19100000.0	-17740000.0	-2901.0
112.438	1552.8	-45559.9	-6835.2	18510000.0	-10000000.0	-2431.0
112.439	-4618.9	46499.4	28441.0	-19190000.0	13120000.0	315.0
112.440	-2606.3	49229.2	32529.5	-20360000.0	20880000.0	826.0
112.441	3690.5	-46841.0	-33707.1	19170000.0	-5942000.0	-113.0
112.442	5554.9	-42532.8	-29337.5	17250000.0	1794000.0	386.0
112.443	-427.0	62611.3	4678.2	-25180000.0	24910000.0	3123.0
112.444	1509.6	67003.5	8888.8	-27010000.0	32660000.0	3644.0
112.445	-680.2	-51838.6	-5928.2	21080000.0	-18210000.0	-3111.0
112.446	1180.8	-49756.2	-1540.7	20050000.0	-10470000.0	-2633.0
112.447	-5478.2	42168.1	34683.6	-17560000.0	12580000.0	-78.0
112.448	-3474.2	44821.8	38785.5	-18700000.0	20340000.0	432.0
112.449	3177.4	-56884.1	-27531.5	21760000.0	-5271000.0	-309.0
112.450	5070.9	-53757.9	-23210.6	20340000.0	2471000.0	203.0
112.451	-1229.7	68781.3	10724.0	-26710000.0	23240000.0	2832.0
112.452	729.7	71611.6	14886.9	-27910000.0	31000000.0	3352.0
112.453	-162.8	-47322.2	-10830.1	18730000.0	-16550000.0	-2825.0
112.454	1755.9	-48310.5	-6537.3	18680000.0	-8810000.0	-2375.0
112.455	-4860.2	51442.0	28471.3	-20110000.0	11950000.0	343.0
112.456	-2876.6	54195.4	32601.3	-21280000.0	19700000.0	859.0
112.457	3694.5	-51777.1	-33178.5	20020000.0	-4785000.0	-44.0
112.458	5606.9	-47819.7	-28917.6	18250000.0	2959000.0	469.0
112.459	-306.2	70512.5	4239.2	-27290000.0	23780000.0	3189.0
112.460	1651.7	74841.1	8434.3	-29090000.0	31540000.0	3717.0
112.461	-489.7	-56421.3	-5619.7	21840000.0	-17010000.0	-3057.0
112.462	1427.9	-53841.7	-1323.1	20640000.0	-9269000.0	-2570.0
112.463	-5750.3	47117.7	34760.9	-18480000.0	11410000.0	-27.0
112.464	-3753.4	49863.0	38872.6	-19650000.0	19170000.0	487.0
112.529	-228.5	-27233.9	-20330.2	11130000.0	-4639000.0	183.0
112.530	5889.6	-4607.0	-5462.3	1770000.0	21150000.0	1886.0
112.531	-1734.0	12778.9	-8252.9	-4918000.0	4578000.0	1076.0
112.532	4729.8	27452.1	5764.1	-11030000.0	30400000.0	2805.0
112.533	-3775.4	-14288.7	-2915.8	6461000.0	-15940000.0	-2239.0
112.534	2650.2	-15815.5	11350.3	6035000.0	9873000.0	-616.0
112.535	-5301.4	9684.3	9645.6	-3648000.0	-6705000.0	-1319.0
112.536	1522.2	12862.2	23086.3	-5564000.0	19160000.0	381.0
112.537	-244.0	-29413.6	-20184.0	11650000.0	-4296000.0	184.0
112.538	5874.3	-6984.9	-5300.2	2330000.0	21490000.0	1899.0
112.539	-1703.3	15179.7	-8377.1	-5561000.0	4241000.0	1097.0
112.540	4750.3	29876.2	5658.8	-11680000.0	30060000.0	2824.0
112.541	-3699.5	-14699.4	-2860.9	6425000.0	-15580000.0	-2212.0
112.542	2800.9	-16328.2	11285.6	5954000.0	10240000.0	-617.0
112.543	-5446.3	10763.0	9736.0	-3809000.0	-7068000.0	-1332.0

112.544	1250.0	14236.3	23384.7	-5805000.0	18790000.0	387.0
112.545	603.0	-24960.8	-26763.9	10550000.0	-4114000.0	464.0
112.546	6629.2	-315.3	-11592.4	352638.0	21660000.0	2177.0
112.547	-848.3	12200.2	-14672.7	-4579000.0	5118000.0	1429.0
112.548	5547.9	27225.1	-537.0	-10840000.0	30940000.0	3157.0
112.549	-4451.8	-15390.8	2930.0	6854000.0	-16450000.0	-2563.0
112.550	1803.8	-22192.3	17664.8	8685000.0	9349000.0	-933.0
112.551	-6206.9	7817.0	15981.3	-2835000.0	-7242000.0	-1697.0
112.552	618.3	9450.8	29416.1	-4233000.0	18620000.0	-6.1
112.553	559.1	-26554.3	-26576.3	10860000.0	-3775000.0	455.0
112.554	6581.5	-1380.0	-11391.5	471118.0	22000000.0	2165.0
112.555	-835.4	14541.4	-14769.5	-5202000.0	4777000.0	1438.0
112.556	5581.7	29329.0	-677.5	-11360000.0	30600000.0	3173.0
112.557	-4441.2	-17537.5	3092.8	7419000.0	-16100000.0	-2562.0
112.558	1926.1	-24187.0	17638.1	9151000.0	9712000.0	-925.0
112.559	-6358.5	9069.7	16082.1	-3051000.0	-7604000.0	-1695.0
112.560	283.3	10361.4	29791.5	-4332000.0	18240000.0	-1.2
226.1	7.7	-0.3	1094.8	5456.0	-146244.0	17.0
226.2	3.4	0.4	824.6	3411.0	-111117.0	5.8
226.3	7.5	0.0	1126.7	3821.0	-152773.0	16.0
226.4	3.3	0.7	856.2	1741.0	-117743.0	5.8
226.5	6.4	-2.3	1562.2	6559.0	-219743.0	8.7
226.6	1.9	-1.6	1291.8	4460.0	-184756.0	-1.1
226.7	-14.0	-5.6	2696.4	52122.0	-402427.0	-6.8
226.8	-18.9	-4.9	2424.8	49916.0	-367785.0	-17.0
226.9	-8.2	-4.2	2302.1	40682.0	-338865.0	-1.7
226.10	-12.9	-3.6	2031.3	38482.0	-304497.0	-12.0
226.11	-8.7	-4.1	2334.2	38908.0	-346302.0	-1.5
226.12	-13.0	-3.4	2062.9	36715.0	-311801.0	-12.0
226.13	-9.7	-5.8	2773.4	42046.0	-412545.0	-7.0
226.14	-14.6	-5.1	2502.4	39849.0	-378138.0	-17.0
226.15	6.9	-1.1	1107.9	5076.0	-148442.0	15.0
226.16	8.5	0.4	1081.5	5827.0	-144061.0	18.0
226.17	2.6	-0.3	837.7	2993.0	-113449.0	4.0
226.18	4.4	1.1	811.0	3800.0	-108791.0	7.3
226.19	6.5	-1.5	1117.1	4783.0	-150095.0	13.0
226.20	9.2	0.9	1072.4	6077.0	-142531.0	19.0
226.21	2.3	-0.8	846.5	2695.0	-115049.0	2.6
226.22	5.1	1.6	801.8	4024.0	-107350.0	8.3
226.23	6.9	-0.8	1140.0	3428.0	-155029.0	14.0
226.24	8.2	0.8	1113.1	4182.0	-150562.0	18.0
226.25	2.7	0.0	869.6	1330.0	-120084.0	3.7
226.26	4.3	1.3	841.8	2079.0	-115506.0	7.4
226.27	5.3	-3.0	1575.6	6144.0	-222101.0	7.2
226.28	7.3	-1.6	1549.0	6973.0	-217415.0	10.0
226.29	1.0	-2.3	1305.2	4038.0	-187121.0	-2.8
226.30	2.8	-0.8	1278.6	4868.0	-182438.0	0.5
226.31	-15.4	-6.1	2711.3	51841.0	-404452.0	-8.3
226.32	-12.8	-5.1	2681.7	52403.0	-400429.0	-5.3
226.33	-20.0	-5.4	2440.5	49650.0	-370113.0	-18.0
226.34	-17.6	-4.3	2410.0	50197.0	-365793.0	-15.0
226.35	-10.3	-5.1	2327.4	40220.0	-342427.0	-4.2
226.36	-6.2	-3.3	2277.1	41148.0	-335426.0	0.7
226.37	-15.1	-4.4	2056.0	38019.0	-307886.0	-14.0
226.38	-10.9	-2.6	2005.9	38939.0	-300882.0	-9.3
226.39	-9.4	-4.8	2317.1	40405.0	-340971.0	-3.3
226.40	-7.0	-3.7	2287.1	40961.0	-336791.0	-0.3
226.41	-14.2	-4.1	2046.1	38204.0	-306519.0	-13.0
226.42	-11.7	-3.0	2015.8	38751.0	-302221.0	-10.0
226.43	-10.0	-4.5	2349.0	38627.0	-348303.0	-2.9
226.44	-7.3	-3.5	2319.1	39187.0	-344192.0	0.3
226.45	-14.3	-3.9	2077.8	36437.0	-313870.0	-13.0

226.46	-11.8	-2.9	2047.9	36995.0	-309753.0	-10.0
226.47	-10.9	-6.3	2788.2	41770.0	-414610.0	-8.5
226.48	-8.4	-5.3	2758.5	42325.0	-410499.0	-5.5
226.49	-15.8	-5.6	2517.2	39570.0	-380148.0	-18.0
226.50	-13.2	-4.6	2487.7	40131.0	-376151.0	-15.0
226.51	8.8	7.9	1051.2	6286.0	-140189.0	22.0
226.52	4.2	9.0	778.3	4186.0	-105055.0	12.0
226.53	7.7	15.1	1011.3	6789.0	-135293.0	27.0
226.54	2.6	16.9	735.7	4699.0	-99996.0	17.0
226.55	8.8	8.0	1082.7	4590.0	-146987.0	22.0
226.56	4.1	9.2	809.7	2476.0	-111881.0	12.0
226.57	6.6	6.1	1523.0	7526.0	-213889.0	17.0
226.58	-1.2	7.9	1249.8	5358.0	-178758.0	10.0
226.59	-12.0	-0.2	2663.8	52893.0	-398336.0	-0.5
226.60	-16.8	0.5	2392.9	50711.0	-364001.0	-11.0
226.61	-6.5	1.5	2271.6	41490.0	-335531.0	5.2
226.62	-11.2	2.3	1999.8	39305.0	-300963.0	-5.1
226.63	-6.0	6.6	2242.6	42096.0	-331437.0	10.0
226.64	-10.8	7.4	1970.7	39919.0	-296920.0	-0.2
226.65	-6.7	1.8	2302.7	39708.0	-342629.0	5.4
226.66	-11.4	2.5	2030.5	37516.0	-307919.0	-5.0
226.67	-9.8	0.4	2742.4	42845.0	-409020.0	1.1
226.68	-14.5	1.0	2471.0	40645.0	-374480.0	-8.9
226.69	-200.5	57.9	876.8	7277.0	-121432.0	124.0
226.70	-204.8	57.9	605.4	5236.0	-86029.0	113.0
226.71	-340.9	96.1	723.0	8686.0	-103190.0	194.0
226.72	-345.6	96.2	450.7	6672.0	-67617.0	183.0
226.73	-200.4	58.0	906.1	5543.0	-127475.0	124.0
226.74	-204.7	58.0	634.7	3490.0	-92126.0	112.0
226.75	-205.5	55.7	1349.1	8501.0	-194756.0	123.0
226.76	-209.5	55.7	1077.9	6451.0	-159420.0	111.0
226.77	-225.0	54.0	2514.2	54263.0	-383340.0	106.0
226.78	-229.5	54.2	2246.7	52058.0	-349612.0	96.0
226.79	-219.3	55.3	2110.7	42790.0	-318606.0	111.0
226.80	-223.4	55.2	1841.3	40625.0	-283940.0	100.0
226.81	-359.3	93.0	1965.9	43947.0	-303027.0	182.0
226.82	-363.7	93.0	1695.1	41840.0	-267966.0	170.0
226.83	-219.0	54.9	2146.0	41005.0	-326155.0	111.0
226.84	-223.0	54.7	1876.7	38813.0	-291526.0	100.0
226.85	-222.4	52.9	2584.3	44089.0	-391956.0	108.0
226.86	-226.6	52.8	2315.8	41907.0	-357613.0	97.0
226.87	-24.6	-43.3	1592.0	18619.0	-238580.0	1385.0
226.88	-29.6	-42.3	1316.4	16412.0	-202588.0	1375.0
226.89	-36.6	-56.8	1746.4	22794.0	-267131.0	1835.0
226.90	-41.5	-55.8	1474.5	20630.0	-232305.0	1825.0
226.91	-24.8	-43.2	1623.9	16878.0	-245709.0	1385.0
226.92	-29.8	-42.1	1351.0	14703.0	-210665.0	1375.0
226.93	-27.0	-44.9	2063.6	19949.0	-312245.0	1380.0
226.94	-31.9	-43.9	1791.4	17795.0	-277357.0	1370.0
226.95	-26.2	-43.9	1607.1	18318.0	-240777.0	1384.0
226.96	-22.9	-42.8	1577.0	18917.0	-236430.0	1386.0
226.97	-31.0	-42.9	1335.0	16168.0	-205933.0	1374.0
226.98	-27.9	-41.8	1301.5	16700.0	-200445.0	1377.0
226.99	-27.0	-44.3	1617.2	18119.0	-242262.0	1383.0
226.100	-22.4	-42.4	1563.2	19057.0	-233698.0	1387.0
226.101	-31.7	-43.3	1345.1	15969.0	-207405.0	1373.0
226.102	-26.9	-41.4	1291.5	16890.0	-198990.0	1377.0
226.103	-38.2	-57.4	1761.5	22499.0	-269347.0	1834.0
226.104	-34.8	-56.3	1731.4	23085.0	-264944.0	1836.0
226.105	-42.9	-56.4	1489.8	20341.0	-234541.0	1824.0
226.106	-39.8	-55.3	1459.3	20917.0	-230064.0	1826.0
226.107	-26.1	-43.7	1638.8	16582.0	-247824.0	1384.0

226.108	-23.1	-42.7	1608.7	17166.0	-243496.0	1386.0
226.109	-31.0	-42.7	1366.2	14416.0	-212857.0	1374.0
226.110	-28.1	-41.6	1336.1	14992.0	-208579.0	1376.0
226.111	-28.6	-45.4	2078.7	19653.0	-314473.0	1378.0
226.112	-26.1	-44.3	2048.5	20247.0	-310016.0	1381.0
226.113	-33.5	-44.4	1806.4	17499.0	-279534.0	1369.0
226.114	-30.7	-43.3	1776.3	18089.0	-275179.0	1371.0
226.115	-26.1	-33.7	1538.0	19212.0	-231136.0	1393.0
226.116	-30.7	-32.7	1265.9	17098.0	-196268.0	1383.0
226.117	-27.1	-26.7	1498.7	19755.0	-226330.0	1398.0
226.118	-32.0	-25.3	1225.6	17672.0	-191482.0	1388.0
226.119	-37.6	-47.4	1697.3	23416.0	-260918.0	1843.0
226.120	-42.2	-46.4	1425.1	21313.0	-226186.0	1832.0
226.121	-26.2	-33.5	1570.3	17497.0	-238383.0	1393.0
226.122	-30.9	-32.5	1298.3	15368.0	-203473.0	1383.0
226.123	-27.9	-35.3	2013.5	20524.0	-306012.0	1387.0
226.124	-32.9	-34.0	1739.0	18393.0	-270528.0	1378.0
226.125	-238.8	20.2	1358.3	20175.0	-212618.0	1497.0
226.126	-242.9	19.9	1089.7	18031.0	-178183.0	1486.0
226.127	-378.7	58.1	1207.5	21489.0	-195390.0	1568.0
226.128	-383.1	58.0	937.2	19362.0	-160438.0	1557.0
226.129	-251.2	7.7	1515.6	24386.0	-242359.0	1946.0
226.130	-255.3	7.6	1245.5	22258.0	-207556.0	1935.0
226.131	-238.6	19.9	1391.5	18412.0	-219710.0	1497.0
226.132	-242.7	19.9	1120.8	16297.0	-184718.0	1486.0
226.133	-243.9	18.4	1828.8	21526.0	-285418.0	1496.0
226.134	-247.8	18.1	1560.6	19388.0	-250991.0	1484.0
226.135	30.3	37.1	1645.0	16898.0	-248408.0	-1367.0
226.136	25.9	37.9	1374.8	14806.0	-213470.0	-1378.0
226.137	37.3	49.5	1824.9	20666.0	-281739.0	-1820.0
226.138	33.0	50.1	1553.1	18566.0	-246511.0	-1831.0
226.139	29.8	37.6	1679.8	15225.0	-255727.0	-1367.0
226.140	25.5	38.2	1408.9	13116.0	-220688.0	-1378.0
226.141	25.1	35.9	2114.9	18041.0	-322564.0	-1369.0
226.142	20.3	36.5	1843.5	15941.0	-287410.0	-1379.0
226.143	29.3	36.5	1659.5	16480.0	-251062.0	-1369.0
226.144	31.1	37.9	1631.8	17315.0	-246076.0	-1365.0
226.145	25.0	37.0	1387.7	14392.0	-215786.0	-1380.0
226.146	26.8	38.6	1360.9	15191.0	-211095.0	-1376.0
226.147	28.7	36.0	1668.6	16208.0	-252715.0	-1370.0
226.148	31.2	38.5	1623.6	17571.0	-244672.0	-1364.0
226.149	24.3	36.5	1396.8	14112.0	-217456.0	-1381.0
226.150	27.0	39.2	1352.7	15438.0	-209748.0	-1375.0
226.151	36.3	48.7	1838.4	20250.0	-284168.0	-1822.0
226.152	38.1	50.4	1812.4	21064.0	-279597.0	-1818.0
226.153	31.9	49.3	1567.4	18160.0	-249099.0	-1832.0
226.154	33.8	50.9	1540.3	18938.0	-244400.0	-1829.0
226.155	28.9	36.9	1693.3	14817.0	-258149.0	-1369.0
226.156	30.7	38.3	1666.4	15630.0	-253405.0	-1365.0
226.157	24.5	37.5	1422.5	12714.0	-223122.0	-1379.0
226.158	26.3	39.1	1395.9	13494.0	-218474.0	-1376.0
226.159	24.1	35.2	2128.3	17628.0	-324974.0	-1371.0
226.160	25.8	36.7	2101.6	18463.0	-320161.0	-1367.0
226.161	19.7	35.6	1856.7	15517.0	-289807.0	-1381.0
226.162	21.4	37.2	1830.1	16353.0	-284975.0	-1377.0
226.163	30.1	45.8	1622.9	18037.0	-242863.0	-1361.0
226.164	25.4	46.7	1351.2	15893.0	-207849.0	-1372.0
226.165	30.8	50.8	1597.7	18709.0	-238739.0	-1357.0
226.166	26.1	51.6	1324.9	16523.0	-203897.0	-1367.0
226.167	37.0	58.1	1802.5	21737.0	-276129.0	-1814.0
226.168	32.3	58.9	1529.3	19596.0	-240628.0	-1825.0
226.169	29.7	46.3	1655.7	16310.0	-250007.0	-1361.0

226.170	25.0	47.1	1384.2	14158.0	-215132.0	-1371.0
226.171	23.7	44.9	2093.8	19231.0	-316813.0	-1362.0
226.172	19.1	45.7	1822.0	17140.0	-281779.0	-1372.0
226.173	-176.4	92.3	1484.7	19069.0	-229633.0	-1259.0
226.174	-180.6	92.2	1214.1	16981.0	-194499.0	-1270.0
226.175	-316.3	129.8	1334.9	20280.0	-212586.0	-1188.0
226.176	-320.8	129.8	1063.6	18230.0	-177248.0	-1199.0
226.177	-168.5	103.7	1682.2	22952.0	-264669.0	-1711.0
226.178	-172.6	103.4	1412.9	20792.0	-229931.0	-1722.0
226.179	-176.2	92.1	1517.6	17335.0	-236595.0	-1259.0
226.180	-180.4	91.9	1247.4	15238.0	-201571.0	-1270.0
226.181	-181.6	90.6	1953.2	20295.0	-302068.0	-1260.0
226.182	-185.5	90.2	1685.1	18224.0	-267531.0	-1271.0
226.183	5.0	-1.7	1202.5	1215.0	-164926.0	3.8
226.184	1.0	-1.0	931.4	-853.0	-129779.0	-7.1
226.185	4.7	-1.4	1233.8	-398.0	-171328.0	3.8
226.186	0.6	-0.6	963.7	-2489.0	-136407.0	-6.9
226.187	2.7	-2.6	1273.3	-1601.0	-177270.0	-4.3
226.188	-0.8	-2.4	1000.4	-3634.0	-141786.0	-15.0
226.189	3.8	-3.9	1668.6	2334.0	-238251.0	-3.1
226.190	-0.3	-3.2	1397.5	267.0	-203110.0	-13.0
226.191	-19.4	-5.9	2815.3	49138.0	-418605.0	-18.0
226.192	-24.1	-5.3	2543.0	46917.0	-383673.0	-29.0
226.193	-13.4	-4.7	2421.6	37728.0	-355423.0	-13.0
226.194	-18.0	-4.1	2150.4	35519.0	-320857.0	-23.0
226.195	-13.4	-4.9	2459.7	36056.0	-364936.0	-12.0
226.196	-17.9	-4.2	2182.8	33770.0	-328499.0	-23.0
226.197	-15.8	-5.9	2504.0	35599.0	-369174.0	-20.0
226.198	-20.3	-5.4	2232.5	33432.0	-334143.0	-31.0
226.199	-14.4	-6.9	2893.3	39086.0	-429431.0	-18.0
226.200	-19.2	-6.2	2621.7	36901.0	-394629.0	-29.0
226.201	-29.9	-43.8	1706.5	15019.0	-255935.0	1375.0
226.202	-34.0	-43.2	1435.4	12983.0	-220782.0	1364.0
226.203	-41.3	-57.5	1866.7	19389.0	-285710.0	1824.0
226.204	-45.7	-56.7	1595.5	17278.0	-250828.0	1813.0
226.205	-29.8	-43.8	1738.5	13367.0	-262749.0	1375.0
226.206	-34.0	-43.1	1467.2	11309.0	-227635.0	1364.0
226.207	-32.8	-44.4	1782.1	12455.0	-268246.0	1368.0
226.208	-36.9	-43.8	1510.8	10436.0	-232998.0	1358.0
226.209	-31.3	-45.8	2177.6	16367.0	-329291.0	1369.0
226.210	-35.6	-45.0	1906.4	14293.0	-294321.0	1359.0
226.211	27.2	35.8	1754.5	12793.0	-267273.0	-1380.0
226.212	22.6	36.5	1484.4	10692.0	-232459.0	-1391.0
226.213	34.1	48.1	1935.5	16521.0	-301018.0	-1833.0
226.214	29.7	48.5	1663.0	14436.0	-265655.0	-1844.0
226.215	26.7	36.3	1786.5	11145.0	-273820.0	-1380.0
226.216	22.1	36.9	1516.6	9037.0	-239087.0	-1391.0
226.217	25.0	34.9	1825.0	10086.0	-279193.0	-1389.0
226.218	20.4	35.5	1553.8	8004.0	-244114.0	-1399.0
226.219	21.8	34.4	2221.3	13938.0	-340643.0	-1382.0
226.220	17.3	34.9	1950.5	11827.0	-305685.0	-1393.0
226.221	14.1	-0.9	1017.2	7963.0	-134772.0	28.0
226.222	9.9	-0.3	745.7	5742.0	-100080.0	17.0
226.223	14.0	-0.8	1047.2	6176.0	-141612.0	28.0
226.224	9.7	-0.2	775.4	3961.0	-106859.0	17.0
226.225	18.7	-1.5	962.3	9389.0	-127451.0	35.0
226.226	14.5	-1.0	690.1	7172.0	-92597.0	24.0
226.227	12.2	-2.8	1485.7	9294.0	-207622.0	21.0
226.228	7.7	-2.2	1214.2	7078.0	-172912.0	11.0
226.229	-8.0	-6.1	2615.8	54285.0	-392070.0	4.8
226.230	-12.8	-5.3	2344.0	52089.0	-357451.0	-5.4
226.231	-2.5	-4.9	2221.0	42836.0	-328341.0	9.8

226.232	-6.5	-4.1	1950.5	40651.0	-294125.0	-0.3
226.233	-2.8	-4.7	2251.9	41051.0	-335389.0	10.0
226.234	-7.1	-4.0	1981.8	38884.0	-301355.0	0.0
226.235	1.2	-5.4	2167.2	44290.0	-321489.0	18.0
226.236	-3.1	-4.6	1896.6	42109.0	-287262.0	7.3
226.237	-4.0	-6.3	2692.1	44205.0	-401994.0	4.6
226.238	-8.4	-5.6	2421.4	42022.0	-367732.0	-5.4
226.239	-18.1	-44.5	1509.4	20745.0	-226413.0	1397.0
226.240	-22.8	-43.5	1237.9	18563.0	-191980.0	1387.0
226.241	-29.7	-58.1	1668.2	24992.0	-256335.0	1846.0
226.242	-34.5	-57.1	1396.8	22810.0	-221889.0	1837.0
226.243	-18.6	-44.3	1540.9	18976.0	-233709.0	1397.0
226.244	-23.1	-43.2	1269.1	16791.0	-199159.0	1387.0
226.245	-13.5	-45.1	1455.5	22195.0	-219491.0	1404.0
226.246	-18.4	-44.0	1184.4	20019.0	-185175.0	1395.0
226.247	-21.5	-46.0	1980.7	22110.0	-300099.0	1391.0
226.248	-25.9	-44.9	1708.9	19924.0	-265543.0	1382.0
226.249	36.0	36.7	1566.9	19469.0	-236448.0	-1355.0
226.250	31.9	37.4	1290.9	17237.0	-199853.0	-1366.0
226.251	43.2	49.1	1746.2	23222.0	-269721.0	-1808.0
226.252	39.0	49.7	1468.8	20974.0	-232656.0	-1820.0
226.253	35.8	37.0	1600.1	17730.0	-243618.0	-1355.0
226.254	31.6	37.7	1328.4	15574.0	-208571.0	-1366.0
226.255	39.6	36.3	1508.5	20968.0	-226902.0	-1348.0
226.256	35.8	37.1	1238.5	18797.0	-192393.0	-1359.0
226.257	31.0	35.3	2035.6	20729.0	-309972.0	-1357.0
226.258	26.4	35.9	1764.4	18571.0	-275087.0	-1367.0
226.401	817.6	-266.9	-499.9	-12119.0	11745.0	-292.0
226.402	791.8	-300.5	-310.9	-910.0	-16031.0	-248.0
226.403	549.6	-245.2	-914.7	42236.0	131457.0	-178.0
226.404	523.4	-276.4	-722.4	51761.0	99018.0	-138.0
226.405	-581.8	339.6	288.2	-26139.0	-87049.0	180.0
226.406	-611.9	318.2	629.1	-18902.0	-139304.0	222.0
226.407	-727.8	256.3	-280.1	20627.0	25418.0	240.0
226.408	-758.6	235.6	56.4	27906.0	-26126.0	282.0
226.409	828.2	-264.9	-468.6	-9802.0	7393.0	-225.0
226.410	802.5	-299.2	-291.8	1494.0	-17254.0	-180.0
226.411	539.0	-247.2	-940.7	39308.0	133694.0	-247.0
226.412	513.5	-279.3	-753.8	49170.0	103014.0	-206.0
226.413	-578.5	350.7	300.2	-21712.0	-82986.0	245.0
226.414	-608.6	329.1	645.3	-14463.0	-136493.0	289.0
226.415	-730.4	244.7	-292.8	16188.0	22101.0	173.0
226.416	-761.2	224.1	42.9	23461.0	-29202.0	215.0
226.417	916.3	-294.1	-568.8	-9957.0	18233.0	-308.0
226.418	892.2	-330.9	-407.7	1625.0	-3236.0	-262.0
226.419	652.9	-278.0	-1002.0	44063.0	139892.0	-196.0
226.420	625.5	-308.6	-803.8	53441.0	105807.0	-155.0
226.421	-684.0	373.3	124.5	-24628.0	-66784.0	197.0
226.422	-713.7	351.5	469.6	-17383.0	-120177.0	240.0
226.423	-830.6	290.2	-436.4	22162.0	43192.0	258.0
226.424	-860.9	269.1	-97.8	29456.0	-8819.0	300.0
226.425	926.0	-292.1	-541.8	-7469.0	14835.0	-239.0
226.426	901.6	-328.3	-377.2	4020.0	-7284.0	-193.0
226.427	644.0	-281.3	-1035.9	41415.0	144361.0	-264.0
226.428	616.5	-311.7	-835.6	50745.0	109675.0	-223.0
226.429	-680.8	384.5	139.4	-20189.0	-63773.0	263.0
226.430	-710.6	362.6	484.5	-12915.0	-117191.0	305.0
226.431	-833.2	278.3	-446.7	17660.0	39497.0	192.0
226.432	-863.4	257.3	-108.6	24953.0	-12452.0	234.0
226.433	635.9	-71.1	965.5	-87450.0	-242154.0	-266.0
226.434	613.6	-108.6	1144.2	-77150.0	-270026.0	-224.0
226.435	-123.8	-105.5	-933.7	81756.0	158026.0	52.0

226.436	-162.4	-119.3	-662.3	89492.0	117166.0	92.0
226.437	107.0	215.0	1227.8	-80038.0	-232379.0	-83.0
226.438	79.5	184.8	1572.9	-71827.0	-283881.0	-35.0
226.439	-445.7	-19.8	-671.9	75090.0	120371.0	172.0
226.440	-484.5	-33.5	-399.5	82791.0	79377.0	212.0
226.441	667.1	-81.6	943.5	-86799.0	-239797.0	-270.0
226.442	641.4	-116.1	1128.2	-76633.0	-269074.0	-226.0
226.443	-100.4	-109.4	-924.7	81882.0	156701.0	48.0
226.444	-138.8	-123.8	-651.9	89578.0	115651.0	88.0
226.445	73.3	226.8	1200.6	-79578.0	-229312.0	-78.0
226.446	43.9	198.0	1540.4	-71440.0	-279844.0	-29.0
226.447	-469.9	-15.9	-682.0	74982.0	121834.0	176.0
226.448	-508.7	-29.7	-409.7	82685.0	80849.0	216.0
226.449	663.4	-59.8	1061.5	-78785.0	-251779.0	-37.0
226.450	641.6	-99.4	1235.6	-68427.0	-279020.0	6.7
226.451	-148.6	-123.5	-1094.2	72456.0	172404.0	-176.0
226.452	-186.6	-137.5	-823.2	80200.0	131598.0	-137.0
226.453	129.8	233.1	1364.1	-71599.0	-253535.0	141.0
226.454	105.0	200.8	1689.6	-62827.0	-299447.0	187.0
226.455	-470.3	-37.5	-830.7	65755.0	134538.0	-56.0
226.456	-508.7	-51.3	-558.0	73446.0	93504.0	-16.0
226.457	696.6	-72.3	1041.8	-78560.0	-252153.0	-43.0
226.458	671.7	-108.2	1224.0	-68484.0	-281097.0	1.9
226.459	-124.1	-128.1	-1082.5	72512.0	170722.0	-180.0
226.460	-162.4	-142.3	-810.3	80227.0	129760.0	-141.0
226.461	96.1	245.2	1332.3	-70864.0	-249546.0	146.0
226.462	70.7	213.5	1660.9	-62191.0	-295943.0	192.0
226.463	-495.2	-33.5	-840.5	65641.0	135977.0	-51.0
226.464	-533.3	-47.3	-568.0	73337.0	94971.0	-11.0
226.529	377.9	-31.1	239.2	-37615.0	-68814.0	-190.0
226.530	299.0	-154.3	780.4	1705.0	-142422.0	-40.0
226.531	138.0	-40.7	-319.2	19718.0	65536.0	-80.0
226.532	33.2	-115.3	466.4	47555.0	-60672.0	52.0
226.533	-71.8	169.7	227.4	-31833.0	-44707.0	-30.0
226.534	-169.1	87.8	1392.3	-7142.0	-222132.0	119.0
226.535	-214.8	79.7	-298.3	14251.0	57470.0	39.0
226.536	-324.1	13.1	804.7	39469.0	-108496.0	180.0
226.537	386.3	-26.9	279.8	-35059.0	-74710.0	-123.0
226.538	308.8	-152.0	808.7	4168.0	-145980.0	28.0
226.539	130.6	-46.2	-365.9	16892.0	69669.0	-148.0
226.540	22.3	-116.9	442.9	44433.0	-59492.0	-17.0
226.541	-68.5	179.7	249.2	-27452.0	-43008.0	35.0
226.542	-165.8	97.6	1409.9	-2717.0	-219654.0	185.0
226.543	-218.8	70.4	-320.0	10533.0	56164.0	-28.0
226.544	-326.2	1.2	790.2	35186.0	-111300.0	113.0
226.545	407.1	-38.2	220.5	-36838.0	-67093.0	-195.0
226.546	328.2	-162.3	761.3	2466.0	-141437.0	-44.0
226.547	162.6	-44.5	-310.5	19860.0	64276.0	-84.0
226.548	62.0	-125.5	439.4	48197.0	-57802.0	49.0
226.549	-101.7	178.2	189.3	-31397.0	-40747.0	-24.0
226.550	-200.2	99.9	1345.0	-6753.0	-217349.0	124.0
226.551	-243.6	88.0	-339.3	14510.0	62842.0	43.0
226.552	-353.6	22.4	762.3	39750.0	-104228.0	184.0
226.553	414.3	-33.6	263.1	-34267.0	-73261.0	-126.0
226.554	337.6	-159.2	789.2	5034.0	-144748.0	25.0
226.555	156.7	-50.2	-357.6	17023.0	68526.0	-154.0
226.556	51.9	-127.2	416.4	45085.0	-56816.0	-21.0
226.557	-97.8	188.9	205.5	-26995.0	-37965.0	41.0
226.558	-197.1	110.0	1363.3	-2319.0	-214991.0	190.0
226.559	-248.0	78.7	-361.9	10862.0	62397.0	-23.0
226.560	-355.8	10.7	750.5	35436.0	-107240.0	117.0
228.1	142.2	3.3	1106.1	167.0	-190613.0	23.0

228.2	90.6	3.2	837.2	274.0	-139318.0	20.0
228.3	106.7	5.0	1208.0	494.0	-197494.0	30.0
228.4	54.2	5.0	936.4	620.0	-145521.0	27.0
228.5	139.3	3.3	1622.0	481.0	-273481.0	15.0
228.6	90.1	3.1	1352.2	549.0	-222542.0	11.0
228.7	174.4	1.2	2601.9	-6151.0	-496987.0	176.0
228.8	124.1	1.4	2334.9	-5966.0	-446266.0	171.0
228.9	168.7	1.3	2233.2	-4727.0	-422139.0	138.0
228.10	118.7	1.5	1966.3	-4539.0	-371503.0	133.0
228.11	136.4	3.6	2342.8	-4290.0	-431122.0	142.0
228.12	84.9	3.9	2076.6	-4076.0	-380164.0	138.0
228.13	159.5	0.4	2756.0	-4790.0	-504977.0	132.0
228.14	112.2	0.7	2488.6	-4604.0	-454915.0	127.0
228.15	143.1	3.4	1106.8	184.0	-191219.0	24.0
228.16	141.2	3.2	1104.7	161.0	-189896.0	22.0
228.17	91.3	3.7	837.0	354.0	-139892.0	20.0
228.18	90.2	2.9	835.9	222.0	-138650.0	18.0
228.19	143.7	3.4	1107.4	191.0	-191641.0	25.0
228.20	141.3	3.1	1102.1	155.0	-189328.0	20.0
228.21	91.9	3.9	837.2	387.0	-140285.0	21.0
228.22	89.9	2.8	833.9	205.0	-138040.0	17.0
228.23	107.4	5.4	1207.9	571.0	-198056.0	31.0
228.24	106.2	4.6	1207.9	422.0	-196955.0	28.0
228.25	54.9	5.5	936.2	699.0	-146090.0	28.0
228.26	53.5	4.6	936.5	539.0	-144963.0	26.0
228.27	139.4	3.5	1624.4	513.0	-274220.0	16.0
228.28	138.4	3.1	1619.6	445.0	-272556.0	14.0
228.29	90.5	3.3	1354.3	585.0	-223302.0	12.0
228.30	89.4	2.8	1350.0	509.0	-221687.0	10.0
228.31	175.2	1.1	2604.6	-6163.0	-497841.0	177.0
228.32	176.0	1.0	2598.6	-6214.0	-496711.0	174.0
228.33	125.1	1.3	2337.6	-5976.0	-447142.0	172.0
228.34	125.7	1.2	2331.7	-6020.0	-445986.0	170.0
228.35	167.5	1.5	2238.3	-4675.0	-422963.0	141.0
228.36	168.8	1.4	2228.3	-4715.0	-421000.0	137.0
228.37	117.9	1.8	1971.4	-4470.0	-372414.0	135.0
228.38	117.4	1.6	1961.9	-4516.0	-370117.0	131.0
228.39	167.2	1.5	2236.5	-4666.0	-422447.0	140.0
228.40	168.6	1.3	2230.3	-4733.0	-421433.0	137.0
228.41	117.3	1.8	1969.6	-4462.0	-371847.0	134.0
228.42	118.1	1.6	1963.6	-4525.0	-370695.0	131.0
228.43	137.2	3.6	2345.5	-4305.0	-431955.0	143.0
228.44	135.5	3.6	2340.1	-4299.0	-430254.0	141.0
228.45	85.8	4.0	2079.4	-4064.0	-381042.0	139.0
228.46	84.0	3.8	2073.7	-4103.0	-379278.0	137.0
228.47	160.2	0.4	2758.8	-4799.0	-505768.0	133.0
228.48	159.1	0.5	2753.3	-4776.0	-504201.0	131.0
228.49	111.9	0.6	2491.7	-4629.0	-455557.0	128.0
228.50	112.0	0.7	2485.9	-4619.0	-454249.0	126.0
228.51	161.5	-1.8	923.7	27.0	-171732.0	25.0
228.52	111.0	-2.0	655.2	89.0	-120606.0	22.0
228.53	173.5	-4.6	797.0	150.0	-157777.0	26.0
228.54	122.6	-5.2	523.6	31.0	-105923.0	22.0
228.55	127.7	-0.9	1030.3	95.0	-179718.0	33.0
228.56	75.8	-1.1	762.4	161.0	-128344.0	30.0
228.57	154.5	-2.8	1447.3	-116.0	-255322.0	18.0
228.58	106.6	-3.2	1178.1	-74.0	-204778.0	13.0
228.59	181.0	1.4	2425.4	-4628.0	-475422.0	177.0
228.60	132.9	1.7	2158.1	-4440.0	-425211.0	172.0
228.61	176.5	0.9	2056.2	-3424.0	-400863.0	139.0
228.62	129.4	0.9	1788.8	-3332.0	-350950.0	134.0
228.63	185.4	-0.5	1937.4	-2948.0	-387700.0	140.0

228.64	137.5	-0.3	1669.7	-2759.0	-337467.0	134.0
228.65	150.9	2.7	2164.2	-3149.0	-411299.0	143.0
228.66	100.1	3.0	1898.1	-2951.0	-360621.0	138.0
228.67	170.9	-2.4	2577.3	-4244.0	-484433.0	135.0
228.68	118.1	0.1	2313.4	-3385.0	-433536.0	129.0
228.69	115.7	13.4	1261.5	2291.0	-212539.0	27.0
228.70	63.9	13.3	992.8	2481.0	-162161.0	24.0
228.71	100.3	18.8	1371.8	3584.0	-230525.0	30.0
228.72	48.5	18.6	1104.4	3691.0	-180311.0	27.0
228.73	78.3	16.2	1358.0	2823.0	-218091.0	35.0
228.74	26.6	15.8	1088.7	2910.0	-167051.0	32.0
228.75	113.4	13.1	1780.5	2707.0	-297489.0	19.0
228.76	63.9	12.8	1510.5	2823.0	-247094.0	15.0
228.77	153.8	5.1	2812.3	-6627.0	-520074.0	178.0
228.78	107.3	4.7	2546.9	-6637.0	-470607.0	173.0
228.79	147.8	6.0	2439.1	-4915.0	-444467.0	140.0
228.80	97.8	6.2	2172.4	-4769.0	-394061.0	136.0
228.81	133.2	11.6	2556.2	-4132.0	-458376.0	141.0
228.82	82.5	12.3	2284.5	-3852.0	-407430.0	137.0
228.83	114.9	8.8	2542.3	-4409.0	-452405.0	145.0
228.84	64.2	8.8	2277.1	-4313.0	-402007.0	141.0
228.85	140.9	6.5	2954.4	-4537.0	-526806.0	133.0
228.86	92.3	6.5	2687.1	-4423.0	-476703.0	128.0
228.87	177.4	5.8	1590.4	2546.0	-310421.0	-1300.0
228.88	128.4	5.9	1323.1	2699.0	-260008.0	-1306.0
228.89	187.3	7.1	1748.4	3495.0	-349080.0	-1734.0
228.90	138.6	7.1	1480.7	3605.0	-298633.0	-1739.0
228.91	150.7	7.4	1698.3	2751.0	-320645.0	-1299.0
228.92	99.3	7.3	1430.9	2859.0	-269546.0	-1303.0
228.93	169.9	4.9	2112.9	2473.0	-393602.0	-1306.0
228.94	119.9	5.0	1845.8	2607.0	-342962.0	-1311.0
228.95	177.4	5.8	1593.3	2537.0	-311110.0	-1300.0
228.96	176.8	5.9	1587.6	2564.0	-309629.0	-1301.0
228.97	129.0	6.0	1326.0	2717.0	-260838.0	-1305.0
228.98	127.9	5.9	1320.0	2678.0	-259191.0	-1306.0
228.99	176.9	5.9	1595.4	2580.0	-311424.0	-1299.0
228.100	176.4	5.9	1585.7	2557.0	-309089.0	-1302.0
228.101	128.3	6.1	1328.3	2755.0	-261129.0	-1304.0
228.102	127.4	5.8	1318.1	2661.0	-258626.0	-1307.0
228.103	186.3	7.3	1751.8	3546.0	-349546.0	-1733.0
228.104	186.8	7.1	1745.2	3477.0	-348239.0	-1735.0
228.105	137.9	7.3	1484.0	3657.0	-299168.0	-1738.0
228.106	138.0	7.0	1477.5	3580.0	-297773.0	-1740.0
228.107	151.6	7.5	1701.2	2770.0	-321525.0	-1299.0
228.108	149.8	7.3	1695.3	2718.0	-319715.0	-1301.0
228.109	100.3	7.4	1433.8	2887.0	-270475.0	-1302.0
228.110	98.3	7.2	1427.9	2826.0	-268603.0	-1304.0
228.111	169.1	4.9	2116.1	2457.0	-394141.0	-1305.0
228.112	169.2	5.0	2110.1	2478.0	-392778.0	-1307.0
228.113	120.3	5.1	1848.9	2626.0	-343783.0	-1310.0
228.114	120.0	4.9	1842.5	2585.0	-342244.0	-1312.0
228.115	192.8	2.0	1404.9	2844.0	-289802.0	-1300.0
228.116	145.1	1.5	1131.2	2729.0	-238829.0	-1304.0
228.117	196.6	-1.3	1269.2	2710.0	-272673.0	-1296.0
228.118	151.1	-2.1	992.9	2492.0	-221919.0	-1301.0
228.119	202.3	3.0	1558.7	3637.0	-327803.0	-1733.0
228.120	151.3	2.6	1286.3	3584.0	-276138.0	-1737.0
228.121	168.4	3.5	1513.6	3027.0	-300636.0	-1297.0
228.122	117.8	3.3	1245.2	3097.0	-249519.0	-1301.0
228.123	183.0	1.3	1930.1	2815.0	-372850.0	-1305.0
228.124	135.2	1.0	1659.6	2832.0	-322259.0	-1310.0
228.125	159.8	9.4	1809.1	2120.0	-334849.0	-1300.0

228.126	111.5	9.6	1541.6	2267.0	-284655.0	-1306.0
228.127	144.6	15.3	1922.9	3155.0	-349708.0	-1299.0
228.128	96.0	15.4	1653.4	3363.0	-300125.0	-1304.0
228.129	170.0	9.9	1971.8	2788.0	-374277.0	-1734.0
228.130	121.4	9.9	1705.5	2896.0	-324182.0	-1739.0
228.131	131.0	11.7	1914.8	2513.0	-344209.0	-1297.0
228.132	79.4	11.9	1648.1	2640.0	-293359.0	-1301.0
228.133	151.1	9.5	2329.4	2403.0	-417304.0	-1306.0
228.134	102.1	9.7	2062.7	2569.0	-367178.0	-1311.0
228.135	119.7	2.8	1620.4	1482.0	-299547.0	1446.0
228.136	68.2	3.3	1349.1	1675.0	-248300.0	1442.0
228.137	112.6	2.4	1790.0	1870.0	-335686.0	1912.0
228.138	61.1	3.0	1518.2	2070.0	-284302.0	1908.0
228.139	84.8	6.0	1717.1	2033.0	-306257.0	1452.0
228.140	32.7	6.7	1444.7	2277.0	-254714.0	1448.0
228.141	117.5	2.0	2143.4	1567.0	-384148.0	1437.0
228.142	67.6	2.5	1873.1	1777.0	-333433.0	1433.0
228.143	120.3	2.9	1621.2	1518.0	-300214.0	1447.0
228.144	119.0	2.6	1620.5	1411.0	-299020.0	1445.0
228.145	69.0	3.5	1349.1	1744.0	-248911.0	1443.0
228.146	67.2	3.2	1348.3	1647.0	-247569.0	1441.0
228.147	120.9	3.0	1621.7	1541.0	-300688.0	1448.0
228.148	118.4	2.5	1620.1	1390.0	-298557.0	1444.0
228.149	69.6	3.6	1349.7	1763.0	-249406.0	1444.0
228.150	66.6	3.1	1347.8	1627.0	-247098.0	1440.0
228.151	113.4	2.5	1790.8	1902.0	-336386.0	1913.0
228.152	111.9	2.1	1790.6	1774.0	-335206.0	1911.0
228.153	61.8	3.2	1518.2	2151.0	-284916.0	1909.0
228.154	60.4	2.8	1517.6	2032.0	-283671.0	1907.0
228.155	85.8	6.1	1717.7	2065.0	-306960.0	1453.0
228.156	83.9	5.9	1716.4	2001.0	-305547.0	1450.0
228.157	33.7	6.8	1445.6	2311.0	-255475.0	1449.0
228.158	31.7	6.6	1443.4	2263.0	-253878.0	1447.0
228.159	118.3	2.1	2144.1	1599.0	-384865.0	1438.0
228.160	116.7	2.2	2141.6	1604.0	-383317.0	1437.0
228.161	68.6	2.5	1874.0	1803.0	-334193.0	1434.0
228.162	66.7	2.4	1872.2	1747.0	-332685.0	1433.0
228.163	142.1	-3.8	1469.8	982.0	-285446.0	1447.0
228.164	90.7	-2.7	1204.1	1446.0	-234581.0	1442.0
228.165	152.5	-4.5	1350.2	1704.0	-272352.0	1445.0
228.166	101.8	-4.3	1083.3	1886.0	-221462.0	1441.0
228.167	135.7	-4.9	1648.0	1195.0	-322517.0	1913.0
228.168	85.3	-4.5	1381.0	1418.0	-271732.0	1909.0
228.169	109.5	-0.9	1579.0	1609.0	-294204.0	1452.0
228.170	57.5	-0.5	1313.7	1851.0	-243253.0	1448.0
228.171	138.5	-4.9	1992.4	834.0	-369748.0	1438.0
228.172	88.2	-4.5	1726.5	1064.0	-319147.0	1434.0
228.173	94.6	12.5	1774.7	3138.0	-319465.0	1449.0
228.174	43.1	12.7	1506.1	3360.0	-269276.0	1445.0
228.175	79.6	17.9	1886.4	4370.0	-337372.0	1452.0
228.176	28.0	18.0	1617.7	4595.0	-287294.0	1448.0
228.177	87.7	12.5	1940.8	3563.0	-354637.0	1914.0
228.178	36.1	12.8	1671.5	3784.0	-304190.0	1911.0
228.179	57.0	16.1	1870.5	3875.0	-325942.0	1456.0
228.180	5.3	16.3	1601.9	4096.0	-275702.0	1453.0
228.181	93.9	12.0	2297.5	3463.0	-405340.0	1439.0
228.182	42.7	12.1	2028.9	3698.0	-355370.0	1436.0
228.183	649.5	-95.9	414.3	-36459.0	-240431.0	-124.0
228.184	598.3	-97.2	137.9	-36864.0	-189974.0	-127.0
228.185	610.5	-91.2	549.4	-34867.0	-249535.0	-117.0
228.186	557.9	-92.8	269.4	-35350.0	-197899.0	-118.0
228.187	991.8	-167.6	-97.3	-63263.0	-273415.0	-220.0

228.188	940.4	-168.7	-374.3	-63523.0	-222725.0	-222.0
228.189	646.0	-94.8	944.8	-35673.0	-325892.0	-136.0
228.190	596.9	-96.5	663.9	-36202.0	-274795.0	-139.0
228.191	691.4	-103.8	1881.7	-44610.0	-538395.0	29.0
228.192	642.2	-104.4	1606.8	-44748.0	-487471.0	25.0
228.193	681.4	-101.8	1515.3	-42386.0	-463254.0	-8.6
228.194	632.5	-102.3	1240.7	-42491.0	-412638.0	-13.0
228.195	645.1	-97.1	1653.9	-40979.0	-474246.0	-2.6
228.196	593.6	-97.8	1379.2	-41139.0	-423009.0	-5.6
228.197	1022.9	-171.6	992.2	-67875.0	-487945.0	-105.0
228.198	973.0	-172.1	717.8	-68007.0	-436951.0	-109.0
228.199	667.7	-101.1	2045.5	-41886.0	-545324.0	-15.0
228.200	626.8	-101.3	1770.6	-41841.0	-496515.0	-23.0
228.201	699.1	-100.1	823.2	-36179.0	-350690.0	-1451.0
228.202	649.9	-101.2	546.4	-36636.0	-299421.0	-1455.0
228.203	714.8	-101.5	963.6	-36207.0	-389289.0	-1886.0
228.204	666.0	-102.7	683.7	-36688.0	-337187.0	-1889.0
228.205	661.7	-95.5	961.8	-34750.0	-361520.0	-1445.0
228.206	611.4	-96.5	684.9	-35150.0	-309977.0	-1448.0
228.207	1043.5	-172.5	302.6	-63386.0	-380666.0	-1548.0
228.208	992.6	-172.4	43.9	-63464.0	-334636.0	-1552.0
228.209	687.7	-99.2	1357.2	-35411.0	-435151.0	-1459.0
228.210	645.9	-100.2	1079.7	-35909.0	-385695.0	-1466.0
228.211	622.4	-93.0	1005.5	-32836.0	-350129.0	1299.0
228.212	571.9	-94.0	728.8	-33161.0	-298645.0	1296.0
228.213	613.1	-92.1	1204.9	-31852.0	-388150.0	1765.0
228.214	562.7	-93.0	928.9	-32083.0	-337020.0	1762.0
228.215	585.1	-88.4	1143.9	-31446.0	-360948.0	1306.0
228.216	533.8	-89.3	868.4	-31684.0	-309556.0	1303.0
228.217	965.2	-164.4	486.6	-59419.0	-378695.0	1203.0
228.218	915.4	-165.9	210.3	-60071.0	-328252.0	1200.0
228.219	619.1	-92.1	1535.8	-32203.0	-434976.0	1289.0
228.220	569.0	-92.7	1261.3	-32298.0	-384220.0	1285.0
228.221	132.0	4.8	1096.0	657.0	-186546.0	19.0
228.222	79.8	5.4	823.3	875.0	-134699.0	15.0
228.223	95.5	7.3	1193.6	1132.0	-192715.0	25.0
228.224	42.8	7.4	921.9	1266.0	-140689.0	22.0
228.225	124.5	6.2	1086.5	1055.0	-183299.0	16.0
228.226	72.0	6.9	813.6	1302.0	-131423.0	12.0
228.227	129.7	5.1	1612.2	1002.0	-269639.0	11.0
228.228	79.8	5.1	1339.7	1135.0	-218240.0	7.2
228.229	166.1	1.7	2600.2	-5944.0	-494686.0	173.0
228.230	115.3	2.0	2334.2	-5740.0	-443939.0	166.0
228.231	160.2	1.7	2230.9	-4550.0	-419631.0	135.0
228.232	109.7	2.0	1965.1	-4348.0	-369050.0	128.0
228.233	126.9	4.0	2341.5	-4122.0	-428490.0	138.0
228.234	75.2	4.4	2075.9	-3884.0	-377609.0	134.0
228.235	155.0	2.1	2229.6	-4413.0	-418070.0	129.0
228.236	103.3	2.3	1964.5	-4235.0	-367297.0	126.0
228.237	154.4	0.5	2753.5	-4749.0	-503321.0	129.0
228.238	105.2	0.8	2487.1	-4546.0	-452918.0	124.0
228.239	168.1	6.4	1589.2	2761.0	-307829.0	-1304.0
228.240	119.3	6.4	1322.4	2887.0	-257577.0	-1309.0
228.241	178.2	7.5	1747.7	3656.0	-346639.0	-1738.0
228.242	129.7	7.8	1480.5	3839.0	-296355.0	-1743.0
228.243	140.9	8.0	1697.8	2963.0	-318060.0	-1304.0
228.244	89.3	8.2	1431.2	3141.0	-267078.0	-1307.0
228.245	162.3	6.3	1588.9	2746.0	-306334.0	-1306.0
228.246	113.1	6.4	1321.8	2892.0	-255909.0	-1314.0
228.247	160.9	5.3	2112.2	2611.0	-391177.0	-1309.0
228.248	112.0	5.6	1845.0	2809.0	-340810.0	-1314.0
228.249	109.2	4.5	1608.8	2003.0	-295492.0	1442.0

228.250	57.5	5.0	1337.2	2205.0	-244129.0	1438.0
228.251	102.6	3.9	1779.3	2332.0	-331765.0	1908.0
228.252	50.7	4.6	1506.7	2577.0	-280218.0	1904.0
228.253	74.0	7.6	1706.2	2530.0	-302225.0	1448.0
228.254	22.1	8.1	1434.5	2751.0	-250862.0	1444.0
228.255	102.4	5.4	1601.8	2312.0	-292888.0	1440.0
228.256	50.5	6.0	1329.7	2521.0	-241372.0	1436.0
228.257	108.1	3.9	2131.3	2169.0	-380271.0	1434.0
228.258	57.0	4.5	1859.0	2407.0	-329037.0	1431.0
228.401	534.3	-81.8	-1543.6	-24054.0	175188.0	213.0
228.402	516.9	-75.5	-1303.8	-27205.0	122615.0	266.0
228.403	203.5	-17.9	-1383.2	-3319.0	264204.0	78.0
228.404	185.9	-11.6	-1144.0	-6507.0	211754.0	132.0
228.405	262.4	-76.2	1268.2	-24678.0	-436403.0	-112.0
228.406	230.1	-62.4	1573.0	-24199.0	-479504.0	-58.0
228.407	-227.1	118.1	1653.5	40799.0	-327263.0	-204.0
228.408	-254.9	123.8	1925.6	38452.0	-363456.0	-153.0
228.409	576.7	-94.9	-1556.4	-28292.0	163494.0	219.0
228.410	558.7	-88.6	-1316.9	-31453.0	111107.0	273.0
228.411	162.3	-4.8	-1369.7	924.0	275518.0	71.0
228.412	144.7	1.4	-1130.6	-2269.0	223058.0	124.0
228.413	332.7	-109.8	1094.8	-36576.0	-445508.0	-109.0
228.414	298.2	-94.1	1412.1	-35476.0	-490953.0	-54.0
228.415	-296.4	152.5	1547.8	50865.0	-303435.0	-206.0
228.416	-325.2	161.6	1764.8	48764.0	-328891.0	-158.0
228.417	520.4	-74.4	-1072.2	-21491.0	120905.0	180.0
228.418	501.0	-66.2	-837.3	-23907.0	70526.0	232.0
228.419	197.9	-10.0	-950.0	-41.0	214824.0	48.0
228.420	176.0	-1.9	-715.2	-2468.0	165129.0	100.0
228.421	270.4	-80.2	784.6	-26853.0	-364471.0	-84.0
228.422	239.2	-69.6	1062.2	-27481.0	-403169.0	-27.0
228.423	-214.0	116.0	1208.5	37717.0	-261482.0	-182.0
228.424	-240.0	117.0	1545.9	33599.0	-313777.0	-127.0
228.425	560.5	-87.3	-1075.6	-25823.0	108215.0	187.0
228.426	540.7	-79.2	-840.9	-28246.0	57953.0	238.0
228.427	154.5	7.4	-997.5	5214.0	234798.0	41.0
228.428	134.1	11.2	-710.6	1896.0	178234.0	95.0
228.429	334.9	-110.7	638.4	-37649.0	-375076.0	-81.0
228.430	302.0	-97.6	933.6	-37610.0	-417617.0	-26.0
228.431	-279.1	149.4	1098.0	47605.0	-236857.0	-185.0
228.432	-303.9	149.6	1423.9	43028.0	-288073.0	-129.0
228.433	876.9	-217.7	-1402.9	-75907.0	-86792.0	250.0
228.434	845.6	-201.7	-1080.7	-75114.0	-138192.0	303.0
228.435	-388.0	175.6	-896.8	50962.0	255613.0	-189.0
228.436	-412.9	174.6	-570.4	46033.0	202757.0	-133.0
228.437	775.6	-213.7	-522.9	-74501.0	-287869.0	147.0
228.438	744.9	-199.5	-220.9	-74332.0	-334863.0	199.0
228.439	-510.2	214.9	12.8	64499.0	64527.0	-262.0
228.440	-530.2	214.0	319.4	60146.0	17501.0	-208.0
228.441	868.0	-215.2	-1232.4	-74855.0	-111704.0	239.0
228.442	836.7	-199.6	-914.4	-74334.0	-161813.0	293.0
228.443	-388.8	176.3	-772.1	51683.0	238827.0	-195.0
228.444	-415.3	179.5	-510.2	48737.0	202569.0	-144.0
228.445	783.3	-216.4	-694.2	-75608.0	-262495.0	157.0
228.446	752.7	-202.0	-390.0	-75393.0	-309835.0	209.0
228.447	-505.2	214.2	-121.3	63972.0	83212.0	-258.0
228.448	-527.1	212.6	203.6	58755.0	30298.0	-200.0
228.449	1061.0	-303.3	-1881.7	-106567.0	-117759.0	266.0
228.450	1030.8	-288.4	-1567.9	-106433.0	-167892.0	319.0
228.451	-553.3	258.4	-1316.9	74600.0	331953.0	-205.0
228.452	-578.2	257.4	-989.8	69649.0	279017.0	-149.0
228.453	971.1	-302.7	-1031.8	-106293.0	-318616.0	163.0

228.454	940.4	-288.5	-729.4	-106142.0	-366148.0	215.0
228.455	-692.6	301.8	-400.9	89557.0	139778.0	-280.0
228.456	-714.8	301.2	-84.1	84892.0	88966.0	-224.0
228.457	1053.4	-301.0	-1713.2	-105634.0	-142768.0	255.0
228.458	1022.4	-285.6	-1394.6	-105175.0	-193675.0	308.0
228.459	-554.1	258.3	-1181.1	74992.0	312419.0	-210.0
228.460	-579.4	259.0	-877.9	70783.0	265540.0	-157.0
228.461	972.8	-303.3	-1181.0	-106778.0	-294868.0	172.0
228.462	942.6	-288.8	-875.2	-106609.0	-343376.0	224.0
228.463	-685.5	300.8	-538.3	88966.0	158976.0	-276.0
228.464	-709.4	299.8	-210.3	84032.0	105609.0	-219.0
228.529	439.7	-86.0	-764.8	-22295.0	40642.0	40.0
228.530	340.1	-35.9	324.5	-20651.0	-151381.0	215.0
228.531	59.1	38.7	-661.0	17231.0	148510.0	-102.0
228.532	-16.9	32.3	464.6	1424.0	-52876.0	91.0
228.533	362.8	-89.0	66.7	-24030.0	-158407.0	-65.0
228.534	261.4	-44.2	1032.8	-24088.0	-309506.0	113.0
228.535	-78.8	83.8	235.9	32034.0	-39289.0	-176.0
228.536	-152.7	84.2	1247.7	18045.0	-200116.0	3.5
228.537	497.9	-113.8	-928.6	-32624.0	35897.0	46.0
228.538	397.2	-63.7	144.4	-31074.0	-146177.0	223.0
228.539	9.1	64.2	-791.9	24297.0	173258.0	-107.0
228.540	-72.0	60.6	306.2	8969.0	-15806.0	81.0
228.541	423.3	-116.1	-97.0	-33712.0	-165601.0	-59.0
228.542	318.0	-71.0	869.3	-33464.0	-313059.0	119.0
228.543	-135.0	109.4	122.1	39707.0	-18238.0	-181.0
228.544	-206.7	109.9	1113.1	25557.0	-172004.0	-4.2
228.545	433.5	-85.1	-608.4	-22091.0	18540.0	31.0
228.546	330.6	-31.3	486.6	-19025.0	-168782.0	203.0
228.547	58.9	38.5	-519.8	17306.0	127889.0	-106.0
228.548	-28.2	43.5	512.5	4831.0	-52542.0	79.0
228.549	365.6	-90.0	-88.7	-24592.0	-133653.0	-55.0
228.550	258.5	-45.2	892.9	-24755.0	-287794.0	123.0
228.551	-69.7	81.1	104.7	31067.0	-19944.0	-171.0
228.552	-145.7	76.7	1178.4	14855.0	-191928.0	12.0
228.553	490.2	-112.1	-764.5	-32087.0	12738.0	36.0
228.554	388.8	-60.8	300.6	-30043.0	-163835.0	212.0
228.555	9.1	63.7	-649.2	24387.0	152048.0	-112.0
228.556	-78.9	69.1	365.6	11881.0	-19034.0	71.0
228.557	420.4	-115.6	-233.9	-33756.0	-142157.0	-50.0
228.558	313.3	-70.8	735.4	-33759.0	-290844.0	129.0
228.559	-125.5	107.4	-19.9	38795.0	2909.0	-177.0
228.560	-198.1	102.6	1050.1	22281.0	-168431.0	5.8
291.1	-734.0	332.2	3297.9	87364.0	5046000.0	58.0
291.2	-558.7	273.0	2717.9	51040.0	3733000.0	-43.0
291.3	-742.9	351.1	3617.5	81491.0	5187000.0	50.0
291.4	-552.6	267.5	3044.2	54833.0	3864000.0	-51.0
291.5	-732.8	368.8	5652.9	10627.0	3649000.0	34.0
291.6	-546.1	278.6	5092.3	-13625.0	2323000.0	-64.0
291.7	618.0	-1824.7	9645.2	2481000.0	38200000.0	-710.0
291.8	852.6	-1975.6	9075.5	2480000.0	36850000.0	-807.0
291.9	264.5	-1256.1	8070.0	1876000.0	30030000.0	-526.0
291.10	489.5	-1393.3	7502.8	1871000.0	28690000.0	-622.0
291.11	279.9	-1273.0	8399.4	1885000.0	30170000.0	-531.0
291.12	512.7	-1416.8	7827.4	1883000.0	28830000.0	-632.0
291.13	121.2	-1049.0	10486.5	1737000.0	28720000.0	-545.0
291.14	349.5	-1188.1	9916.6	1733000.0	27390000.0	-642.0
291.15	-769.1	379.8	3284.8	66642.0	5016000.0	52.0
291.16	-695.4	280.1	3309.6	109766.0	5075000.0	64.0
291.17	-579.7	299.0	2705.8	38706.0	3695000.0	-48.0
291.18	-521.9	228.4	2724.3	70244.0	3762000.0	-39.0
291.19	-773.2	385.6	3271.8	62987.0	4989000.0	48.0

291.20	-666.7	246.0	3310.6	124154.0	5092000.0	67.0
291.21	-582.4	304.2	2693.1	35176.0	3665000.0	-53.0
291.22	-484.0	180.7	2726.4	90000.0	3775000.0	-35.0
291.23	-771.2	391.4	3600.7	63626.0	5154000.0	44.0
291.24	-702.2	295.8	3628.1	104892.0	5212000.0	57.0
291.25	-572.2	296.0	3027.8	41683.0	3829000.0	-58.0
291.26	-503.0	206.0	3049.8	80406.0	3885000.0	-46.0
291.27	-757.0	396.2	5644.8	-2119.0	3613000.0	30.0
291.28	-706.0	339.2	5659.6	24311.0	3685000.0	39.0
291.29	-573.7	309.2	5084.6	-27748.0	2286000.0	-68.0
291.30	-516.7	244.0	5100.4	1994.0	2357000.0	-59.0
291.31	546.3	-1732.6	9641.8	2443000.0	3819000.0	-715.0
291.32	690.9	-1915.3	9645.9	2518000.0	3821000.0	-706.0
291.33	771.5	-1868.4	9073.9	2438000.0	3685000.0	-813.0
291.34	925.9	-2065.9	9075.6	2517000.0	3686000.0	-803.0
291.35	137.2	-1093.4	8067.8	1810000.0	3002000.0	-533.0
291.36	389.6	-1412.6	8070.4	1939000.0	3004000.0	-518.0
291.37	368.1	-1239.3	7499.4	1808000.0	2868000.0	-630.0
291.38	620.2	-1558.6	7502.1	1937000.0	2870000.0	-614.0
291.39	189.8	-1160.0	8067.8	1837000.0	3003000.0	-531.0
291.40	340.5	-1350.5	8069.4	1914000.0	3004000.0	-521.0
291.41	417.1	-1301.4	7500.6	1833000.0	2869000.0	-627.0
291.42	571.2	-1497.8	7501.8	1912000.0	2869000.0	-617.0
291.43	208.3	-1182.2	8396.8	1848000.0	3016000.0	-535.0
291.44	353.1	-1369.3	8404.3	1924000.0	3017000.0	-527.0
291.45	437.9	-1322.6	7826.5	1845000.0	2882000.0	-636.0
291.46	586.6	-1510.0	7828.8	1921000.0	2884000.0	-627.0
291.47	47.5	-955.5	10485.0	1699000.0	2872000.0	-550.0
291.48	194.3	-1142.0	10488.6	1775000.0	2873000.0	-541.0
291.49	275.9	-1097.1	9916.8	1696000.0	2738000.0	-647.0
291.50	419.0	-1278.3	9921.5	1769000.0	2740000.0	-637.0
291.51	-571.0	157.1	3308.5	156767.0	5039000.0	-35.0
291.52	-364.5	56.7	2727.6	136550.0	3708000.0	-132.0
291.53	-449.7	43.7	3304.0	201163.0	5012000.0	-86.0
291.54	-251.9	-36.8	2722.5	173897.0	3686000.0	-182.0
291.55	-558.0	143.9	3628.8	163418.0	5170000.0	-41.0
291.56	-345.2	34.3	3048.0	146758.0	3835000.0	-138.0
291.57	-648.2	264.5	5722.1	54788.0	3681000.0	-50.0
291.58	-475.1	139.9	5206.2	42456.0	2337000.0	-126.0
291.59	765.6	-2033.0	9685.9	2563000.0	3822000.0	-793.0
291.60	996.4	-2167.7	9109.9	2558000.0	3689000.0	-891.0
291.61	385.3	-1425.2	8118.6	1946000.0	3009000.0	-607.0
291.62	622.2	-1572.2	7544.3	1945000.0	2875000.0	-705.0
291.63	539.0	-1631.5	8132.2	2026000.0	3006000.0	-662.0
291.64	775.6	-1776.0	7556.8	2024000.0	2873000.0	-759.0
291.65	413.8	-1459.0	8443.6	1961000.0	3021000.0	-613.0
291.66	654.8	-1612.9	7868.6	1962000.0	2886000.0	-711.0
291.67	234.8	-1228.3	10551.4	1810000.0	2877000.0	-617.0
291.68	467.7	-1374.0	9980.5	1808000.0	2743000.0	-714.0
291.69	-4641.4	3869.7	4927.9	-1244000.0	6625000.0	306.0
291.70	-4430.7	3760.8	4340.8	-1262000.0	5291000.0	204.0
291.71	-7288.0	6311.3	5987.7	-2166000.0	7687000.0	471.0
291.72	-7079.7	6209.9	5397.5	-2187000.0	6356000.0	368.0
291.73	-4604.0	3819.3	5242.1	-1226000.0	6718000.0	300.0
291.74	-4386.6	3700.0	4655.8	-1240000.0	5381000.0	198.0
291.75	-4743.1	3904.6	7424.7	-1322000.0	5231000.0	315.0
291.76	-4524.2	3787.0	6835.1	-1336000.0	3895000.0	211.0
291.77	-3512.2	1978.5	11306.6	1062000.0	4005000.0	-421.0
291.78	-3254.3	1799.4	10732.0	1075000.0	3872000.0	-520.0
291.79	-3875.6	2570.8	9732.0	444922.0	3186000.0	-240.0
291.80	-3618.7	2387.4	9153.2	456340.0	3050000.0	-341.0
291.81	-6444.5	4877.7	10821.1	-420168.0	3292000.0	-71.0

291.82	-6204.1	4726.6	10234.4	-421606.0	31570000.0	-173.0
291.83	-3828.7	2495.3	10062.4	476249.0	31980000.0	-245.0
291.84	-3556.7	2289.2	9483.9	496231.0	30610000.0	-347.0
291.85	-3980.4	2646.2	12197.5	352536.0	30490000.0	-246.0
291.86	-3719.9	2456.0	11622.4	367459.0	29140000.0	-346.0
291.87	-6627.4	-415.9	4861.9	660849.0	12900000.0	2608.0
291.88	-6368.5	-607.6	4285.2	671424.0	11500000.0	2514.0
291.89	-8492.8	-769.2	5376.1	883899.0	15380000.0	3455.0
291.90	-8265.3	-908.8	4803.8	878876.0	14030000.0	3359.0
291.91	-6603.8	-444.6	5186.2	674332.0	13030000.0	2602.0
291.92	-6367.3	-596.2	4611.3	673188.0	11680000.0	2504.0
291.93	-6735.0	-255.8	7270.0	539703.0	11570000.0	2589.0
291.94	-6512.8	-388.0	6698.2	531747.0	10230000.0	2492.0
291.95	-6701.0	-332.0	4870.1	626777.0	12890000.0	2604.0
291.96	-6552.1	-500.8	4852.3	695417.0	12910000.0	2611.0
291.97	-6478.5	-461.4	4295.7	617957.0	11550000.0	2507.0
291.98	-6290.5	-696.2	4275.5	707377.0	11510000.0	2517.0
291.99	-6747.2	-275.5	4871.6	603991.0	12890000.0	2600.0
291.100	-6467.7	-623.4	4848.0	738662.0	12850000.0	2620.0
291.101	-6524.6	-405.0	4297.1	595181.0	11550000.0	2503.0
291.102	-6236.9	-757.6	4268.8	732160.0	11510000.0	2520.0
291.103	-8567.5	-683.6	5384.4	849296.0	15370000.0	3451.0
291.104	-8413.3	-857.7	5363.8	919690.1	15380000.0	3457.0
291.105	-8341.3	-818.3	4809.6	842555.0	14030000.0	3355.0
291.106	-8184.3	-1002.3	4793.6	916346.0	14040000.0	3362.0
291.107	-6672.7	-360.2	5186.4	639879.0	13020000.0	2594.0
291.108	-6523.2	-536.6	5175.6	711381.0	13040000.0	2606.0
291.109	-6441.3	-503.8	4612.6	636075.0	11670000.0	2498.0
291.110	-6289.4	-686.0	4604.2	709854.0	11690000.0	2509.0
291.111	-6811.7	-169.0	7280.2	504658.0	11570000.0	2585.0
291.112	-6663.4	-340.9	7264.5	573958.0	11580000.0	2596.0
291.113	-6589.1	-301.6	6707.6	496718.0	10220000.0	2490.0
291.114	-6441.6	-475.3	6696.1	567024.0	10240000.0	2499.0
291.115	-6427.3	-646.5	4864.7	745332.0	12810000.0	2540.0
291.116	-6216.1	-756.6	4287.1	729447.0	11480000.0	2445.0
291.117	-6323.7	-738.2	4863.8	781803.0	12790000.0	2492.0
291.118	-6139.7	-800.3	4284.0	748433.0	11480000.0	2397.0
291.119	-8329.6	-938.0	5378.5	948545.0	15340000.0	3385.0
291.120	-8125.3	-1036.7	4802.6	929037.0	14020000.0	3289.0
291.121	-6418.5	-650.3	5187.5	749900.0	12950000.0	2533.0
291.122	-6200.9	-770.2	4609.1	737458.0	11610000.0	2439.0
291.123	-6551.6	-448.7	7270.6	613571.0	11520000.0	2520.0
291.124	-6330.3	-577.5	6693.8	602977.0	10160000.0	2427.0
291.125	-10677.9	3368.9	6480.7	-767386.0	14510000.0	2899.0
291.126	-10422.0	3182.0	5908.7	-753655.0	13160000.0	2797.0
291.127	-13282.9	5738.1	7555.3	-1660000.0	15560000.0	3064.0
291.128	-13030.4	5561.3	6975.9	-1651000.0	14210000.0	2962.0
291.129	-12635.9	3178.8	6987.2	-601758.0	17070000.0	3746.0
291.130	-12383.0	2999.3	6410.2	-591819.0	15720000.0	3643.0
291.131	-10638.2	3307.6	6806.9	-742498.0	14620000.0	2893.0
291.132	-10385.1	3131.1	6226.5	-734052.0	13270000.0	2791.0
291.133	-10842.5	3507.1	8969.6	-885109.9	13150000.0	2904.0
291.134	-10585.6	3325.4	8390.2	-873392.0	11800000.0	2801.0
291.135	5620.7	372.7	5089.8	540048.0	12840000.0	-2892.0
291.136	5819.7	280.4	4516.0	517131.0	11510000.0	-2994.0
291.137	7701.9	387.7	5677.4	687776.0	15390000.0	-3858.0
291.138	7899.4	300.0	5102.8	662192.0	14050000.0	-3961.0
291.139	5617.1	376.0	5421.7	542415.0	12990000.0	-2899.0
291.140	5821.6	276.8	4846.4	521641.0	11660000.0	-3002.0
291.141	5520.6	448.2	7557.2	450133.0	11470000.0	-2888.0
291.142	5710.6	358.4	6993.8	425368.0	10140000.0	-2986.0
291.143	5597.7	401.4	5078.3	527695.0	12810000.0	-2898.0

291.144	5645.0	340.3	5102.5	554791.0	12870000.0	-2888.0
291.145	5789.5	319.9	4505.8	499627.0	11480000.0	-2999.0
291.146	5856.0	232.7	4525.4	537322.0	11540000.0	-2990.0
291.147	5577.7	426.8	5072.1	516757.0	12790000.0	-2901.0
291.148	5669.0	301.3	5114.1	571466.0	12890000.0	-2882.0
291.149	5771.6	342.5	4499.0	489753.0	11460000.0	-3002.0
291.150	5884.6	189.9	4534.5	555617.0	11560000.0	-2985.0
291.151	7675.2	421.6	5666.6	672719.0	15350000.0	-3863.0
291.152	7737.2	339.6	5688.1	708970.0	15420000.0	-3852.0
291.153	7867.2	340.0	5094.2	645390.0	14030000.0	-3964.0
291.154	7943.9	238.8	5112.4	688261.0	14080000.0	-3954.0
291.155	5589.7	412.0	5410.3	526663.0	12960000.0	-2904.0
291.156	5645.0	340.0	5432.9	558457.0	13020000.0	-2895.0
291.157	5790.4	317.4	4836.2	504225.0	11630000.0	-3006.0
291.158	5865.7	218.2	4853.3	546435.0	11680000.0	-2997.0
291.159	5492.7	480.8	7549.1	435554.0	11440000.0	-2892.0
291.160	5536.8	419.9	7577.5	463056.0	11510000.0	-2881.0
291.161	5693.3	386.6	6975.3	412428.0	10110000.0	-2992.0
291.162	5737.4	324.6	7004.3	440289.0	10180000.0	-2983.0
291.163	5727.7	208.2	5111.4	604747.0	12870000.0	-2977.0
291.164	5957.8	69.3	4535.4	599231.0	11530000.0	-3077.0
291.165	5853.3	32.8	5128.4	672638.0	12870000.0	-3036.0
291.166	6100.8	-127.8	4550.5	675763.0	11520000.0	-3135.0
291.167	7822.0	202.5	5697.0	759259.0	15410000.0	-3941.0
291.168	8061.1	50.2	5118.3	757359.0	14040000.0	-4041.0
291.169	5745.0	184.9	5439.1	616431.0	13010000.0	-2983.0
291.170	5977.0	43.6	4863.2	612177.0	11660000.0	-3084.0
291.171	5579.5	342.9	7591.1	491630.0	11530000.0	-2964.0
291.172	5795.1	225.4	7018.2	478506.0	10200000.0	-3065.0
291.173	1811.8	3603.6	6774.9	-663394.0	14500000.0	-2640.0
291.174	2044.9	3455.7	6195.2	-666288.0	13160000.0	-2742.0
291.175	-738.6	5885.4	7856.9	-1523000.0	15520000.0	-2473.0
291.176	-521.8	5767.4	7271.6	-1537000.0	14190000.0	-2576.0
291.177	3920.1	3524.9	7376.4	-477471.0	17080000.0	-3605.0
291.178	4184.2	3328.5	6800.4	-461249.0	15720000.0	-3707.0
291.179	1842.9	3556.3	7100.5	-643939.0	14620000.0	-2645.0
291.180	2079.9	3401.5	6522.0	-643965.0	13280000.0	-2747.0
291.181	1712.3	3643.3	9253.3	-745946.0	13090000.0	-2631.0
291.182	1937.5	3509.8	8676.9	-752294.0	11770000.0	-2735.0
291.183	-855.3	540.6	3190.9	-3743.0	4919000.0	-56.0
291.184	-672.8	471.1	2611.9	-36259.0	3600000.0	-156.0
291.185	-881.8	581.9	3516.8	-18432.0	5066000.0	-64.0
291.186	-687.2	490.8	2940.9	-42120.0	3743000.0	-163.0
291.187	-951.5	696.1	3126.7	-70793.0	4839000.0	-125.0
291.188	-795.3	672.8	2542.2	-121823.0	3529000.0	-223.0
291.189	-890.4	614.3	5565.2	-95267.0	3531000.0	-74.0
291.190	-716.3	547.8	4996.5	-128956.0	2212000.0	-173.0
291.191	-10.7	-924.8	9595.1	2126000.0	38370000.0	-818.0
291.192	236.4	-1089.2	9018.3	2130000.0	37010000.0	-916.0
291.193	-379.7	-340.9	8031.0	1517000.0	30220000.0	-633.0
291.194	-144.4	-486.1	7455.6	1514000.0	28880000.0	-732.0
291.195	-434.1	-254.3	8379.0	1495000.0	30460000.0	-640.0
291.196	-135.7	-494.2	7788.9	1522000.0	29030000.0	-740.0
291.197	-800.3	275.1	8009.7	1283000.0	30400000.0	-706.0
291.198	-569.5	131.5	7434.9	1279000.0	29050000.0	-805.0
291.199	-518.8	-140.4	10449.5	1381000.0	28920000.0	-655.0
291.200	-292.6	-276.9	9878.0	1375000.0	27570000.0	-753.0
291.201	-7048.7	168.4	4845.0	427782.0	12930000.0	2501.0
291.202	-6878.1	116.4	4263.7	388677.0	11620000.0	2403.0
291.203	-9023.6	-8.6	5353.5	588600.0	15520000.0	3341.0
291.204	-8820.4	-108.8	4775.7	568560.0	14190000.0	3246.0
291.205	-7059.3	189.8	5165.5	421380.0	13080000.0	2493.0

291.206	-6877.7	121.1	4585.5	388731.0	11760000.0	2395.0
291.207	-7238.5	429.7	4829.7	323167.0	12910000.0	2432.0
291.208	-7078.7	389.4	4257.1	279664.0	11600000.0	2334.0
291.209	-7157.2	328.2	7251.0	305532.0	11590000.0	2479.0
291.210	-6975.2	253.3	6677.6	275676.0	10280000.0	2383.0
291.211	5414.4	716.4	4959.4	397632.0	12780000.0	-2998.0
291.212	5610.6	627.9	4387.0	373604.0	11450000.0	-3098.0
291.213	7501.0	722.2	5548.1	549684.0	15330000.0	-3962.0
291.214	7690.2	646.6	4975.6	519236.0	14000000.0	-4063.0
291.215	5407.9	724.3	5290.8	396163.0	12910000.0	-3005.0
291.216	5606.8	630.8	4718.6	374179.0	11590000.0	-3105.0
291.217	5272.3	949.3	4875.1	299649.0	12720000.0	-3066.0
291.218	5463.2	869.3	4303.6	271787.0	11400000.0	-3168.0
291.219	5318.1	787.5	7424.2	307014.0	11390000.0	-2990.0
291.220	5518.9	692.2	6851.4	284975.0	10060000.0	-3091.0
291.221	-405.0	-121.8	3320.7	269252.0	4998000.0	196.0
291.222	-165.9	-274.3	2745.6	268939.0	3646000.0	96.0
291.223	-364.7	-169.7	3640.9	289046.0	5109000.0	189.0
291.224	-124.2	-325.3	3066.5	289830.0	3756000.0	89.0
291.225	-92.8	-551.6	3328.8	438534.0	4906000.0	288.0
291.226	152.2	-713.1	2752.8	441235.0	3548000.0	187.0
291.227	-499.3	42.5	5704.3	144084.0	3650000.0	172.0
291.228	-265.9	-111.1	5137.1	144056.0	2298000.0	75.0
291.229	1070.2	-2441.8	9659.9	2726000.0	38090000.0	-571.0
291.230	1306.8	-2591.5	9087.4	2726000.0	36740000.0	-669.0
291.231	723.9	-1881.2	8081.0	2124000.0	29910000.0	-386.0
291.232	943.4	-2011.0	7516.1	2117000.0	28580000.0	-484.0
291.233	748.9	-1917.4	8411.9	2140000.0	30030000.0	-390.0
291.234	964.7	-2038.1	7846.0	2130000.0	28710000.0	-489.0
291.235	1022.3	-2289.2	8093.0	2287000.0	29840000.0	-290.0
291.236	1246.5	-2419.8	7522.9	2280000.0	28510000.0	-390.0
291.237	580.8	-1675.6	10498.5	1986000.0	28600000.0	-405.0
291.238	801.7	-1807.7	9933.9	1979000.0	27270000.0	-503.0
291.239	-6112.8	-1155.6	4875.2	945684.9	12700000.0	2759.0
291.240	-5874.9	-1299.4	4298.4	943819.1	11360000.0	2658.0
291.241	-8012.0	-1444.1	5387.3	1149000.0	15240000.0	3598.0
291.242	-7780.7	-1591.4	4821.7	1148000.0	13900000.0	3501.0
291.243	-6080.2	-1190.6	5196.9	962301.9	12830000.0	2752.0
291.244	-5844.6	-1338.8	4626.8	961608.0	11490000.0	2652.0
291.245	-5799.1	-1580.6	4880.1	1115000.0	12620000.0	2851.0
291.246	-5572.5	-1716.1	4311.6	1110000.0	11290000.0	2753.0
291.247	-6233.8	-960.6	7272.0	811885.0	11390000.0	2741.0
291.248	-6005.0	-1109.1	6710.3	811156.0	10040000.0	2642.0
291.249	5938.5	-77.0	5131.4	719942.0	12780000.0	-2753.0
291.250	6219.2	-291.3	4540.8	736985.0	11360000.0	-2856.0
291.251	8022.7	-66.8	5719.0	869192.0	15330000.0	-3719.0
291.252	8314.1	-298.0	5126.2	890963.9	13880000.0	-3822.0
291.253	5959.9	-104.7	5456.4	733141.0	12910000.0	-2761.0
291.254	6181.9	-230.3	4879.7	722037.0	11570000.0	-2862.0
291.255	6265.1	-542.7	5135.6	896187.0	12630000.0	-2661.0
291.256	6494.4	-678.0	4557.6	890387.0	11290000.0	-2764.0
291.257	5789.7	70.3	7604.0	601619.0	11440000.0	-2751.0
291.258	6007.4	-58.0	7035.7	591915.0	10100000.0	-2850.0
291.401	-2302.0	10810.0	-18578.6	-4226000.0	5670000.0	2474.0
291.402	-5002.6	13712.9	-15931.9	-5185000.0	11600000.0	2170.0
291.403	106.0	5010.3	-11853.4	-1601000.0	13590000.0	1645.0
291.404	-1781.0	6735.7	-9341.2	-2111000.0	19070000.0	1346.0
291.405	-12010.9	17488.6	12653.9	-6867000.0	-6442000.0	-1522.0
291.406	-12014.6	16035.9	15047.1	-6142000.0	-1752000.0	-1763.0
291.407	-7834.3	9829.6	18870.8	-3623000.0	233555.0	-2304.0
291.408	-7834.6	8383.9	21255.6	-2902000.0	4917000.0	-2551.0
291.409	-2236.1	10726.5	-18495.9	-4167000.0	6390000.0	2656.0

291.410	-4963.4	13654.1	-15832.9	-5144000.0	12260000.0	2356.0
291.411	323.5	4677.9	-11984.5	-1501000.0	12720000.0	1477.0
291.412	-1738.2	6666.6	-9447.6	-2113000.0	18280000.0	1175.0
291.413	-12878.5	18855.9	12651.7	-7368000.0	-5248000.0	-1342.0
291.414	-12901.9	17427.1	15058.5	-6648000.0	-513207.0	-1584.0
291.415	-6962.0	8461.2	18856.5	-3126000.0	-988421.0	-2479.0
291.416	-6961.0	7014.8	21238.3	-2405000.0	3687000.0	-2725.0
291.417	-2696.4	12606.9	-22275.2	-4947000.0	5196000.0	2119.0
291.418	-5666.6	15912.4	-19575.2	-6076000.0	11130000.0	1821.0
291.419	-352.4	6960.1	-15562.4	-2389000.0	13070000.0	1323.0
291.420	-2178.0	8584.7	-13051.2	-2857000.0	18540000.0	1026.0
291.421	-14198.9	20168.8	16376.5	-7863000.0	-4793000.0	-1204.0
291.422	-14201.6	18715.7	18774.0	-7135000.0	-69791.0	-1448.0
291.423	-10041.6	12532.3	22618.9	-4620000.0	1966000.0	-1996.0
291.424	-10043.9	11093.8	25000.6	-3900000.0	6666000.0	-2244.0
291.425	-2733.9	12660.2	-22158.9	-4942000.0	5957000.0	2302.0
291.426	-5638.8	15864.1	-19469.0	-6031000.0	11860000.0	2003.0
291.427	-278.6	6857.0	-15682.6	-2381000.0	12250000.0	1152.0
291.428	-2082.1	8450.7	-13176.3	-2835000.0	17720000.0	855.0
291.429	-15069.1	21538.6	16384.2	-8361000.0	-3565000.0	-1033.0
291.430	-15085.2	20104.0	18783.9	-7639000.0	1169000.0	-1275.0
291.431	-9166.9	11151.5	22611.5	-4118000.0	739224.0	-2163.0
291.432	-9162.6	9705.2	24991.3	-3395000.0	5435000.0	-2412.0
291.433	-1622.9	7881.0	-15881.6	-3551000.0	-10530000.0	2124.0
291.434	-3999.9	10317.6	-13290.1	-4343000.0	-4859000.0	1850.0
291.435	6990.9	-10186.8	5916.8	4632000.0	14880000.0	-623.0
291.436	6501.6	-10707.4	8198.9	4983000.0	19660000.0	-903.0
291.437	-8754.8	15782.1	-6280.8	-6577000.0	-11990000.0	852.0
291.438	-9254.7	14976.1	-3660.9	-6092000.0	-6994000.0	630.0
291.439	4919.3	-9560.9	15550.5	4308000.0	10740000.0	-1785.0
291.440	4413.1	-10076.5	17848.2	4657000.0	15530000.0	-2056.0
291.441	-1887.2	8630.7	-16954.6	-3852000.0	-10630000.0	2013.0
291.442	-4116.9	10813.1	-14361.7	-4543000.0	-5010000.0	1733.0
291.443	7249.5	-10284.7	4763.7	4662000.0	14560000.0	-705.0
291.444	6754.4	-10799.0	7046.7	5010000.0	19340000.0	-980.0
291.445	-9382.5	16508.2	-5160.4	-6836000.0	-11450000.0	961.0
291.446	-9867.0	15681.4	-2547.9	-6347000.0	-6496000.0	750.0
291.447	4656.6	-9471.3	16719.6	4281000.0	11070000.0	-1698.0
291.448	4155.0	-9987.3	19010.7	4630000.0	15850000.0	-1969.0
291.449	-1701.8	7971.8	-15584.9	-3502000.0	-8044000.0	2783.0
291.450	-4179.3	10530.5	-12940.3	-4342000.0	-2337000.0	2512.0
291.451	7063.1	-10111.9	5545.0	4506000.0	12260000.0	-1181.0
291.452	6581.5	-10635.6	7819.4	4859000.0	17050000.0	-1461.0
291.453	-8661.4	15682.7	-6150.8	-6421000.0	-9300000.0	1540.0
291.454	-9445.1	15328.1	-3564.7	-6125000.0	-4240000.0	1309.0
291.455	4984.1	-9473.1	15175.9	4176000.0	8127000.0	-2352.0
291.456	4482.6	-9986.7	17464.9	4524000.0	12910000.0	-2623.0
291.457	-1861.7	8579.5	-16664.6	-3745000.0	-8159000.0	2667.0
291.458	-4091.5	10751.0	-14052.5	-4434000.0	-2562000.0	2393.0
291.459	7320.9	-10194.3	4375.9	4529000.0	11940000.0	-1263.0
291.460	6830.1	-10711.5	6656.3	4879000.0	16720000.0	-1540.0
291.461	-9421.5	16613.7	-5011.6	-6758000.0	-8683000.0	1639.0
291.462	-10150.2	16180.3	-2447.6	-6431000.0	-3650000.0	1418.0
291.463	4718.2	-9382.1	16347.9	4149000.0	8448000.0	-2261.0
291.464	4221.7	-9896.6	18630.7	4498000.0	13230000.0	-2535.0
291.529	3393.8	-785.5	-10989.6	35230.0	-7872000.0	1517.0
291.530	-6909.1	10897.0	-1987.4	-3965000.0	12270000.0	527.0
291.531	3229.5	-2366.8	-3924.1	1042000.0	1365000.0	654.0
291.532	-218.3	-1129.8	3990.3	1075000.0	18200000.0	-319.0
291.533	-5082.4	9919.6	-1073.4	-4107000.0	-8930000.0	179.0
291.534	-5370.7	5324.2	7128.8	-1774000.0	6922000.0	-586.0
291.535	-690.0	1759.0	5426.6	-645436.0	-2254000.0	-569.0

291.536	-1100.6	-2367.7	13303.7	1488000.0	13560000.0	-1413.0
291.537	3416.2	-785.5	-10918.8	71218.0	-7055000.0	1693.0
291.538	-6890.2	10867.9	-1891.5	-3928000.0	13010000.0	713.0
291.539	3244.3	-2335.9	-4035.6	1001000.0	578377.0	488.0
291.540	115.6	-1626.1	3835.9	1240000.0	17290000.0	-485.0
291.541	-5972.3	11306.4	-1077.2	-4610000.0	-7676000.0	375.0
291.542	-6261.0	6705.1	7156.2	-2275000.0	8164000.0	-402.0
291.543	-181.5	970.8	5376.4	-368783.0	-3267000.0	-738.0
291.544	-307.3	-3611.4	13282.7	1938000.0	12380000.0	-1580.0
291.545	3232.4	-176.0	-12098.8	-206276.0	-7972000.0	1398.0
291.546	-7123.0	11579.7	-3071.0	-4232000.0	12220000.0	404.0
291.547	3489.5	-2465.5	-5081.6	1072000.0	1041000.0	571.0
291.548	-434.5	-455.9	2914.8	803598.0	18080000.0	-408.0
291.549	-5772.8	10748.9	80.2	-4410000.0	-8378000.0	282.0
291.550	-6005.4	6111.6	8243.2	-2061000.0	7443000.0	-508.0
291.551	-1252.7	2397.3	6552.0	-883151.0	-1810000.0	-484.0
291.552	-1682.7	-1684.6	14433.2	1239000.0	14040000.0	-1318.0
291.553	3233.0	-169.7	-12003.6	-172451.0	-7146000.0	1577.0
291.554	-7118.6	11565.5	-2966.3	-4200000.0	12970000.0	580.0
291.555	3524.2	-2440.2	-5216.6	1032000.0	247062.0	396.0
291.556	-103.3	-933.2	2749.6	962200.0	17170000.0	-578.0
291.557	-6636.4	12115.0	57.5	-4907000.0	-7151000.0	465.0
291.558	-6893.7	7491.8	8264.9	-2562000.0	8688000.0	-325.0
291.559	-790.2	1666.6	6504.0	-631418.0	-2818000.0	-650.0
291.560	-890.6	-2925.8	14406.3	1687000.0	12860000.0	-1485.0
292.1	-1221.4	784.4	3770.9	37599.0	7780000.0	-203.0
292.2	-979.0	681.3	3060.6	-17382.0	5645000.0	-61.0
292.3	-1412.2	1054.5	4061.7	-68166.0	7702000.0	-206.0
292.4	-1158.5	948.8	3335.5	-121976.0	5564000.0	-65.0
292.5	-1268.7	1081.2	6026.7	-139894.0	6510000.0	-211.0
292.6	-1042.4	981.5	5318.9	-197181.0	4383000.0	-68.0
292.7	-114.9	-766.1	12418.1	2833000.0	53530000.0	-1143.0
292.8	125.0	-902.4	11686.8	2794000.0	51430000.0	-1003.0
292.9	-386.7	-313.9	10298.1	2112000.0	42200000.0	-909.0
292.10	-102.6	-523.4	9559.5	2105000.0	40080000.0	-769.0
292.11	-449.6	-213.5	10576.1	2079000.0	42010000.0	-913.0
292.12	-197.6	-404.5	9860.7	2064000.0	39890000.0	-770.0
292.13	-298.3	-267.5	12553.5	2037000.0	40810000.0	-909.0
292.14	-20.9	-472.7	11818.8	2029000.0	38690000.0	-768.0
292.15	-1300.4	905.7	3782.0	-5042.0	7993000.0	-210.0
292.16	-1143.7	662.7	3763.7	80431.0	7565000.0	-196.0
292.17	-1055.9	800.1	3069.0	-58871.0	5857000.0	-69.0
292.18	-910.4	581.7	3053.9	16497.0	5443000.0	-55.0
292.19	-1292.1	984.8	3717.3	-31583.0	8119000.0	-220.0
292.20	-1096.4	596.3	3758.5	103000.0	7428000.0	-192.0
292.21	-1063.0	888.4	3018.1	-89241.0	5992000.0	-78.0
292.22	-857.3	510.6	3043.6	41011.0	5301000.0	-50.0
292.23	-1445.2	1178.3	4018.1	-110944.0	7904000.0	-217.0
292.24	-1350.3	940.7	4067.1	-29125.0	7492000.0	-199.0
292.25	-1205.3	1066.7	3313.0	-162231.0	5769000.0	-74.0
292.26	-1091.0	844.5	3332.6	-86298.0	5357000.0	-58.0
292.27	-1346.1	1193.0	6036.8	-179001.0	6717000.0	-217.0
292.28	-1189.1	965.9	6013.2	-99325.0	6303000.0	-204.0
292.29	-1122.7	1097.6	5329.1	-238250.0	4591000.0	-74.0
292.30	-965.6	870.7	5306.6	-158552.0	4177000.0	-62.0
292.31	-185.2	-639.6	12454.3	2786000.0	53700000.0	-1147.0
292.32	-40.3	-899.1	12380.1	2884000.0	53350000.0	-1139.0
292.33	113.8	-871.1	11707.8	2789000.0	5158000.0	-1008.0
292.34	197.8	-1038.4	11651.5	2846000.0	51250000.0	-999.0
292.35	-473.9	-155.0	10349.5	2056000.0	42490000.0	-915.0
292.36	-283.5	-506.7	10243.7	2183000.0	41920000.0	-902.0
292.37	-215.4	-323.5	9618.2	2031000.0	40370000.0	-776.0

292.38	-38.6	-661.4	9519.2	2151000.0	39810000.0	-761.0
292.39	-443.1	-212.0	10330.3	2075000.0	42370000.0	-913.0
292.40	-326.9	-426.2	10266.2	2153000.0	42030000.0	-905.0
292.41	-170.8	-401.2	9595.1	2059000.0	40250000.0	-773.0
292.42	-86.0	-573.8	9542.9	2118000.0	39930000.0	-764.0
292.43	-527.7	-80.0	10614.4	2028000.0	42190000.0	-916.0
292.44	-393.9	-316.8	10544.9	2116000.0	41840000.0	-909.0
292.45	-258.7	-292.8	9893.7	2023000.0	40060000.0	-774.0
292.46	-133.1	-525.1	9827.7	2108000.0	39720000.0	-766.0
292.47	-365.8	-156.6	12582.1	1997000.0	40990000.0	-913.0
292.48	-230.5	-384.6	12516.4	2081000.0	40630000.0	-905.0
292.49	-94.7	-345.6	11854.2	1981000.0	38870000.0	-772.0
292.50	60.9	-610.3	11775.6	2081000.0	38500000.0	-765.0
292.51	-1099.5	571.7	3902.3	138274.0	7682000.0	-309.0
292.52	-863.4	440.1	3160.8	94975.0	5593000.0	-167.0
292.53	-1074.1	389.8	3920.6	217872.0	7738000.0	-377.0
292.54	-816.8	206.5	3157.4	195825.0	5662000.0	-234.0
292.55	-1282.8	801.6	4211.3	50297.0	7600000.0	-312.0
292.56	-1053.9	674.9	3476.5	4774.0	5518000.0	-170.0
292.57	-1156.3	789.0	6179.2	-8236.0	6425000.0	-312.0
292.58	-1113.6	694.6	5711.0	-78284.0	4270000.0	-163.0
292.59	176.9	-1208.0	12132.2	3038000.0	53380000.0	-1278.0
292.60	496.8	-1456.1	11387.2	3048000.0	51230000.0	-1138.0
292.61	44.1	-995.0	10084.2	2421000.0	41970000.0	-1037.0
292.62	318.6	-1182.7	9338.1	2405000.0	39850000.0	-898.0
292.63	71.9	-1139.3	10042.7	2489000.0	42010000.0	-1122.0
292.64	355.4	-1355.8	9299.2	2486000.0	39900000.0	-981.0
292.65	-71.5	-803.4	10372.3	2348000.0	41810000.0	-1040.0
292.66	184.4	-947.1	9610.3	2312000.0	39700000.0	-902.0
292.67	39.3	-894.1	12442.2	2320000.0	40590000.0	-1036.0
292.68	303.7	-1065.4	11696.1	2296000.0	38480000.0	-896.0
292.69	-2351.1	-2216.9	5241.6	1328000.0	9492000.0	-299.0
292.70	-2168.7	-2244.8	4554.3	1244000.0	7411000.0	-161.0
292.71	-3213.3	-4113.6	6295.6	2148000.0	10730000.0	-372.0
292.72	-3039.2	-4141.6	5621.2	2063000.0	8645000.0	-234.0
292.73	-2697.6	-1749.2	5575.4	1136000.0	9509000.0	-302.0
292.74	-2512.8	-1779.4	4887.5	1052000.0	7425000.0	-165.0
292.75	-2774.4	-1818.4	7740.0	1102000.0	8436000.0	-310.0
292.76	-2595.9	-1848.8	7061.4	1019000.0	6352000.0	-170.0
292.77	-116.6	-5030.5	13659.0	4646000.0	54310000.0	-1204.0
292.78	228.6	-5330.1	12935.6	4680000.0	52150000.0	-1061.0
292.79	-523.1	-4441.3	11551.8	3869000.0	43110000.0	-976.0
292.80	-327.9	-4516.1	10873.2	3805000.0	41020000.0	-836.0
292.81	-1062.3	-6695.6	12558.9	4842000.0	44050000.0	-1042.0
292.82	-882.2	-6745.2	11888.8	4766000.0	41970000.0	-904.0
292.83	-630.8	-4243.1	11805.8	3794000.0	42940000.0	-980.0
292.84	-451.2	-4294.0	11134.0	3719000.0	40860000.0	-840.0
292.85	-784.6	-4099.7	13985.6	3666000.0	41880000.0	-985.0
292.86	-549.5	-4236.6	13297.4	3629000.0	39780000.0	-844.0
292.87	-7654.1	-309.6	6101.3	989109.0	18500000.0	-1858.0
292.88	-7624.0	-100.8	5282.2	794943.0	16530000.0	-1724.0
292.89	-10077.9	-212.1	6734.5	1096000.0	22240000.0	-2410.0
292.90	-9839.3	-339.6	5982.9	1052000.0	20140000.0	-2271.0
292.91	-7770.8	-136.2	6407.5	924449.0	18340000.0	-1860.0
292.92	-7643.6	-212.2	5733.8	855938.9	16290000.0	-1715.0
292.93	-7640.3	-199.5	8412.2	886557.0	17140000.0	-1855.0
292.94	-7422.5	-327.4	7673.9	842594.1	15060000.0	-1716.0
292.95	-7708.3	-210.9	6146.5	953707.0	18650000.0	-1864.0
292.96	-7589.1	-414.8	6047.5	1028000.0	18340000.0	-1851.0
292.97	-7475.3	-352.8	5399.7	916430.9	16570000.0	-1725.0
292.98	-7557.4	-197.4	5230.9	828766.0	16370000.0	-1717.0
292.99	-7734.1	-153.3	6167.8	934280.0	18750000.0	-1868.0

292.100	-7777.7	-93.5	5942.9	877549.0	18370000.0	-1851.0
292.101	-7503.3	-290.3	5420.1	894753.0	16670000.0	-1729.0
292.102	-7516.9	-254.6	5193.7	848145.0	16260000.0	-1712.0
292.103	-10137.2	-125.0	6784.5	1067000.0	22410000.0	-2416.0
292.104	-10014.0	-299.1	6675.8	1126000.0	22080000.0	-2403.0
292.105	-9890.5	-261.7	6033.9	1026000.0	20300000.0	-2277.0
292.106	-9795.6	-409.3	5923.0	1074000.0	20000000.0	-2264.0
292.107	-7904.0	-25.1	6537.2	882342.0	18510000.0	-1857.0
292.108	-7719.6	-218.2	6348.6	952503.0	18200000.0	-1853.0
292.109	-7684.1	-124.9	5764.0	826179.0	16440000.0	-1720.0
292.110	-7510.3	-322.9	5601.8	898366.0	16120000.0	-1715.0
292.111	-7703.1	-118.1	8477.9	858892.0	17290000.0	-1861.0
292.112	-7601.3	-283.5	8378.2	914600.0	16980000.0	-1849.0
292.113	-7483.9	-232.3	7731.3	808475.0	15210000.0	-1722.0
292.114	-7378.4	-422.9	7642.4	875896.0	14900000.0	-1711.0
292.115	-7892.1	-167.4	6090.1	925321.0	18700000.0	-1963.0
292.116	-7635.0	-342.3	5328.2	901895.0	16620000.0	-1821.0
292.117	-7843.1	-398.8	6072.7	1028000.0	18780000.0	-2033.0
292.118	-7547.6	-661.8	5318.4	1043000.0	16690000.0	-1889.0
292.119	-10158.2	-372.3	6804.0	1168000.0	22350000.0	-2506.0
292.120	-9863.2	-611.0	6046.6	1173000.0	20250000.0	-2364.0
292.121	-7994.7	-52.6	6418.8	887743.0	18560000.0	-1964.0
292.122	-7742.6	-195.7	5647.0	849290.1	16470000.0	-1821.0
292.123	-7687.9	-325.1	8387.7	945612.0	17290000.0	-1960.0
292.124	-7531.8	-351.9	7611.2	854692.0	15260000.0	-1820.0
292.125	-8486.3	-3388.6	7435.7	2278000.0	19770000.0	-1919.0
292.126	-8227.1	-3535.9	6735.3	2245000.0	17640000.0	-1782.0
292.127	-9251.3	-5424.5	8467.2	3159000.0	20940000.0	-1992.0
292.128	-9068.0	-5468.3	7787.8	3081000.0	18850000.0	-1855.0
292.129	-10534.4	-3721.9	8154.7	2567000.0	23170000.0	-2453.0
292.130	-10321.0	-3807.5	7475.6	2507000.0	21060000.0	-2314.0
292.131	-8671.5	-3123.1	7710.4	2174000.0	19690000.0	-1923.0
292.132	-8479.9	-3179.3	7032.4	2101000.0	17590000.0	-1786.0
292.133	-8920.9	-3024.2	9973.3	2065000.0	18710000.0	-1928.0
292.134	-8648.6	-3168.9	9256.0	2032000.0	16560000.0	-1791.0
292.135	6426.7	244.7	5849.1	890293.0	18830000.0	959.0
292.136	6650.3	133.0	5149.0	839584.0	16730000.0	1102.0
292.137	8862.0	82.8	6568.8	1163000.0	22520000.0	1341.0
292.138	9046.3	23.6	5895.8	1089000.0	20420000.0	1485.0
292.139	6344.5	372.8	6098.3	845184.9	18670000.0	957.0
292.140	6552.4	292.3	5413.8	780651.0	16560000.0	1101.0
292.141	6225.0	317.1	8362.7	801549.0	17550000.0	960.0
292.142	6420.6	248.3	7675.2	731622.0	15450000.0	1103.0
292.143	6403.1	291.9	5840.5	879343.0	19000000.0	951.0
292.144	6426.6	125.8	5931.7	931019.1	18650000.0	973.0
292.145	6586.8	238.3	5161.9	803244.0	16910000.0	1094.0
292.146	6641.2	43.1	5228.1	867975.0	16540000.0	1115.0
292.147	6372.7	338.1	5841.4	865771.0	19130000.0	946.0
292.148	6456.0	40.8	5943.0	961270.0	18520000.0	977.0
292.149	6559.8	285.6	5162.5	789104.0	17030000.0	1090.0
292.150	6679.6	-51.0	5234.1	902488.0	16420000.0	1119.0
292.151	8810.0	172.1	6574.5	1134000.0	22700000.0	1334.0
292.152	8945.8	-51.1	6547.4	1212000.0	22320000.0	1349.0
292.153	9019.7	72.6	5888.5	1078000.0	20590000.0	1479.0
292.154	9128.8	-100.4	5864.5	1135000.0	20240000.0	1490.0
292.155	6284.2	458.4	6106.1	817744.0	18870000.0	950.0
292.156	6359.4	257.4	6165.6	884675.0	18480000.0	970.0
292.157	6500.0	368.2	5418.8	757332.0	16750000.0	1094.0
292.158	6569.1	187.5	5464.9	815820.0	16370000.0	1113.0
292.159	6161.2	408.7	8370.2	771541.0	17750000.0	954.0
292.160	6267.4	213.7	8383.1	836051.0	17360000.0	968.0

292.161	6373.9	351.0	7658.3	697345.0	15650000.0	1096.0
292.162	6477.6	164.3	7671.3	758360.0	15260000.0	1109.0
292.163	6480.2	268.9	5982.8	873805.9	18610000.0	865.0
292.164	6703.3	192.4	5276.6	806731.0	16480000.0	1007.0
292.165	6554.4	181.0	6027.9	913732.0	18480000.0	788.0
292.166	6785.2	57.7	5284.3	868650.0	16390000.0	927.0
292.167	8882.5	188.3	6707.7	1110000.0	22290000.0	1250.0
292.168	9012.7	233.3	6044.4	989432.0	20210000.0	1392.0
292.169	6349.0	454.4	6261.3	804422.0	18480000.0	863.0
292.170	6598.3	344.7	5547.1	751868.0	16340000.0	1004.0
292.171	6248.9	376.7	8509.3	766908.0	17340000.0	869.0
292.172	6529.3	249.1	7773.4	722527.0	15180000.0	1009.0
292.173	5525.4	-3115.8	7332.8	2338000.0	20310000.0	875.0
292.174	5704.2	-3150.3	6650.4	2256000.0	18230000.0	1013.0
292.175	4676.6	-5050.8	8386.4	3176000.0	21540000.0	804.0
292.176	4852.0	-5084.1	7709.9	3093000.0	19460000.0	942.0
292.177	8050.4	-3348.1	8041.2	2641000.0	23890000.0	1261.0
292.178	8232.5	-3393.8	7361.3	2564000.0	21810000.0	1399.0
292.179	5336.8	-2848.0	7607.8	2232000.0	20230000.0	871.0
292.180	5526.4	-2896.2	6921.2	2157000.0	18140000.0	1009.0
292.181	4939.2	-2538.7	9906.1	2033000.0	19350000.0	865.0
292.182	5237.1	-2720.4	9183.0	2016000.0	17190000.0	1004.0
292.183	-1807.6	1672.1	3674.1	-319527.0	8430000.0	23.0
292.184	-1575.9	1570.8	2974.6	-375025.0	6303000.0	166.0
292.185	-2006.7	1937.7	3979.0	-423653.0	8352000.0	19.0
292.186	-1762.0	1820.8	3266.2	-472506.0	6220000.0	162.0
292.187	-2221.5	2242.9	3635.8	-550175.0	8867000.0	179.0
292.188	-1999.0	2152.7	2944.3	-610565.0	6743000.0	324.0
292.189	-1905.1	1949.9	5993.2	-490541.0	7169000.0	19.0
292.190	-1679.1	1845.8	5295.2	-545767.0	5038000.0	162.0
292.191	-545.6	-72.2	12427.8	2546000.0	53930000.0	-897.0
292.192	-345.2	-115.9	11716.8	2465000.0	51820000.0	-757.0
292.193	-783.1	247.4	10255.0	1886000.0	42660000.0	-668.0
292.194	-500.4	98.6	9521.0	1852000.0	40500000.0	-528.0
292.195	-391.0	-297.9	10305.3	2140000.0	42260000.0	-676.0
292.196	-509.5	115.8	9737.2	1858000.0	40310000.0	-536.0
292.197	-510.8	-79.4	9943.5	2047000.0	42690000.0	-518.0
292.198	-343.0	-113.0	9257.0	1964000.0	40620000.0	-376.0
292.199	-609.8	210.6	12403.1	1853000.0	41260000.0	-677.0
292.200	-375.8	103.5	11701.9	1799000.0	39120000.0	-535.0
292.201	-8247.3	521.9	6141.8	645388.0	19030000.0	-1612.0
292.202	-7980.5	385.8	5419.6	604479.0	16880000.0	-1470.0
292.203	-10371.6	148.5	6930.0	960555.0	22520000.0	-2152.0
292.204	-10104.9	1.2	6174.8	924795.0	20410000.0	-2010.0
292.205	-8390.3	709.9	6453.0	575797.0	18900000.0	-1616.0
292.206	-8130.5	579.6	5725.1	532591.0	16770000.0	-1475.0
292.207	-8612.2	1000.7	6090.7	454698.0	19460000.0	-1451.0
292.208	-8341.7	871.9	5359.9	409798.0	17310000.0	-1309.0
292.209	-8243.8	715.4	8384.1	510141.0	17720000.0	-1617.0
292.210	-7986.2	554.8	7665.6	479490.0	15590000.0	-1475.0
292.211	5962.4	937.1	5734.0	612844.0	19340000.0	1194.0
292.212	6231.6	792.1	5013.0	575917.0	17190000.0	1337.0
292.213	8490.7	704.2	6417.8	915636.1	22940000.0	1577.0
292.214	8675.2	651.6	5744.0	839570.0	20840000.0	1719.0
292.215	5747.5	1219.1	6041.1	501362.0	19280000.0	1191.0
292.216	6027.9	1063.0	5312.2	469366.0	17120000.0	1333.0
292.217	5559.5	1517.5	5686.0	376148.0	19750000.0	1350.0
292.218	5799.8	1405.0	4983.4	325482.0	17620000.0	1491.0
292.219	5622.6	1186.9	8287.8	448022.0	18180000.0	1192.0
292.220	5876.2	1079.2	7561.1	395564.0	16040000.0	1334.0
292.221	-868.9	214.9	3849.2	271676.0	7414000.0	-402.0
292.222	-627.3	114.3	3134.3	216133.0	5281000.0	-261.0

292.223	-1042.3	475.7	4122.4	169666.0	7320000.0	-406.0
292.224	-805.5	381.1	3406.6	111589.0	5191000.0	-266.0
292.225	-671.9	-110.5	3913.6	404731.0	7189000.0	-537.0
292.226	-473.9	-176.9	3227.1	335519.0	5094000.0	-396.0
292.227	-885.1	511.0	6056.3	90698.0	6118000.0	-409.0
292.228	-665.1	413.8	5346.1	33371.0	3999000.0	-268.0
292.229	249.5	-1439.8	12455.1	3117000.0	53240000.0	-1348.0
292.230	502.5	-1597.2	11714.6	3087000.0	51140000.0	-1209.0
292.231	-50.9	-934.0	10340.0	2371000.0	41920000.0	-1112.0
292.232	270.1	-1202.3	9588.3	2391000.0	39790000.0	-973.0
292.233	-181.0	-726.2	10636.0	2291000.0	41760000.0	-1116.0
292.234	187.8	-1065.6	9870.0	2342000.0	39600000.0	-977.0
292.235	212.5	-1414.3	10368.0	2574000.0	41720000.0	-1246.0
292.236	535.6	-1687.1	9615.3	2596000.0	39580000.0	-1108.0
292.237	37.3	-888.2	12591.9	2297000.0	40530000.0	-1113.0
292.238	350.8	-1150.8	11845.9	2314000.0	38390000.0	-975.0
292.239	-7602.4	-361.5	5990.2	992484.0	18350000.0	-2065.0
292.240	-7335.8	-586.8	5269.8	992979.0	16250000.0	-1926.0
292.241	-9812.5	-670.6	6721.3	1282000.0	21980000.0	-2613.0
292.242	-9537.4	-889.7	5980.4	1280000.0	19890000.0	-2475.0
292.243	-7702.9	-229.9	6312.5	946663.0	18190000.0	-2065.0
292.244	-7446.5	-425.1	5579.5	933553.0	16100000.0	-1928.0
292.245	-7352.1	-810.4	6002.9	1182000.0	18160000.0	-2199.0
292.246	-7058.9	-1073.4	5274.6	1199000.0	16050000.0	-2059.0
292.247	-7558.7	-311.5	8316.8	916798.1	16980000.0	-2061.0
292.248	-7308.8	-504.7	7584.8	902301.9	14890000.0	-1923.0
292.249	6645.0	-224.2	5959.1	1082000.0	18620000.0	761.0
292.250	6501.2	215.0	5411.3	788678.0	16680000.0	904.0
292.251	9065.5	-369.2	6692.6	1347000.0	22310000.0	1144.0
292.252	8842.0	205.7	6178.6	994287.0	20390000.0	1287.0
292.253	6523.8	-27.1	6237.8	1006000.0	18460000.0	760.0
292.254	6711.2	-79.3	5553.0	929628.0	16360000.0	902.0
292.255	6419.8	50.4	6184.9	951111.1	18630000.0	626.0
292.256	6668.5	-112.4	5494.3	923715.1	16500000.0	771.0
292.257	6425.1	-106.1	8492.2	972076.0	17320000.0	761.0
292.258	6618.7	-192.6	7812.1	911150.0	15230000.0	902.0
292.401	2372.6	-6983.3	-23293.1	3259000.0	-6399000.0	1961.0
292.402	6659.0	-15367.1	-20642.8	6659000.0	885951.9	1377.0
292.403	758.1	-7650.9	-15977.7	3749000.0	-618969.0	1151.0
292.404	4653.4	-15548.4	-13367.7	6946000.0	6970000.0	550.0
292.405	-2012.9	-1939.0	17624.0	1481000.0	11850000.0	-1137.0
292.406	1439.7	-8537.3	19656.3	4070000.0	19380000.0	-1701.0
292.407	-4918.9	-2327.2	27376.3	2021000.0	18350000.0	-1904.0
292.408	-1491.4	-8873.5	29420.3	4586000.0	25880000.0	-2474.0
292.409	2403.3	-6087.3	-22972.8	2908000.0	-5224000.0	2194.0
292.410	6288.9	-13883.6	-20450.1	6049000.0	2373000.0	1592.0
292.411	628.8	-8387.0	-16314.1	4032000.0	-1742000.0	929.0
292.412	4512.3	-16264.7	-13713.8	7218000.0	5857000.0	329.0
292.413	-2086.6	-1221.2	17869.5	1204000.0	13400000.0	-910.0
292.414	1615.3	-8134.6	19814.9	3930000.0	20770000.0	-1475.0
292.415	-5047.5	-2790.4	27190.7	2187000.0	16940000.0	-2123.0
292.416	-1673.6	-9271.0	29253.6	4724000.0	24520000.0	-2692.0
292.417	4702.9	-8408.9	-27350.4	4088000.0	-4149000.0	1656.0
292.418	8477.1	-16033.6	-24869.5	7150000.0	3541000.0	1050.0
292.419	2916.1	-8766.4	-20070.5	4438000.0	1706000.0	880.0
292.420	6956.9	-16861.7	-17431.7	7723000.0	9192000.0	280.0
292.421	-4233.3	-3895.2	22060.2	2210000.0	11720000.0	-885.0
292.422	-590.1	-10756.9	24042.6	4914000.0	19110000.0	-1445.0
292.423	-6587.5	-4939.5	31608.4	3036000.0	17840000.0	-1664.0
292.424	-3089.3	-11594.3	33640.1	5649000.0	25320000.0	-2230.0
292.425	4755.0	-7531.4	-27044.4	3744000.0	-2975000.0	1875.0
292.426	8516.1	-15141.1	-24562.5	6801000.0	4723000.0	1269.0

292.427	2671.1	-9341.3	-20434.2	4648000.0	664192.0	663.0
292.428	6767.4	-17517.1	-17779.6	7969000.0	8109000.0	65.0
292.429	-4110.2	-3464.5	22272.1	2058000.0	13120000.0	-658.0
292.430	-427.6	-10368.0	24233.0	4780000.0	20490000.0	-1219.0
292.431	-6706.0	-5387.9	31387.6	3197000.0	16450000.0	-1885.0
292.432	-3222.4	-12031.7	33431.4	5805000.0	23940000.0	-2450.0
292.433	547.8	2444.4	-17616.1	-992633.0	-8220000.0	1860.0
292.434	4377.8	-5312.5	-15101.5	2132000.0	-558538.0	1286.0
292.435	-4206.7	-5621.3	9093.4	3475000.0	13170000.0	-794.0
292.436	-737.6	-11480.0	11213.9	5716000.0	20130000.0	-1380.0
292.437	-15.4	5201.0	-7689.3	-2324000.0	-3610000.0	909.0
292.438	3833.0	-2118.1	-5773.9	584385.0	3846000.0	371.0
292.439	-6525.9	-3123.4	22905.3	2601000.0	18800000.0	-1682.0
292.440	-3069.3	-8970.2	24988.1	4837000.0	25770000.0	-2273.0
292.441	1254.8	2075.2	-18748.5	-766561.0	-7592000.0	1748.0
292.442	5125.2	-5768.7	-16290.2	2399000.0	83082.0	1153.0
292.443	-3549.4	-5515.5	7711.1	3472000.0	13610000.0	-865.0
292.444	-90.9	-11353.9	9831.6	5705000.0	20570000.0	-1444.0
292.445	-489.3	4329.7	-6453.3	-1982000.0	-3786000.0	1024.0
292.446	3274.7	-2766.5	-4548.2	820667.0	3667000.0	488.0
292.447	-7181.8	-3236.5	24290.7	2607000.0	18360000.0	-1610.0
292.448	-3724.2	-9084.3	26372.6	4844000.0	25340000.0	-2200.0
292.449	306.8	5863.8	-16684.0	-2369000.0	-3870000.0	2626.0
292.450	4210.1	-1938.5	-14197.2	776163.0	3694000.0	2045.0
292.451	-4133.9	-9040.9	8176.1	4845000.0	9194000.0	-1508.0
292.452	-670.6	-14904.2	10307.3	7088000.0	16150000.0	-2089.0
292.453	906.0	6322.7	-7180.0	-2668000.0	583554.0	1701.0
292.454	4431.0	-405.8	-5197.7	-22178.0	8161000.0	1141.0
292.455	-6479.6	-6519.5	22018.3	3960000.0	14820000.0	-2396.0
292.456	-3030.2	-12362.0	24106.9	6195000.0	21800000.0	-2983.0
292.457	1402.0	5069.5	-17735.4	-1950000.0	-3639000.0	2514.0
292.458	5200.0	-2650.9	-15267.0	1161000.0	4062000.0	1922.0
292.459	-3511.2	-8900.4	6813.8	4827000.0	9638000.0	-1566.0
292.460	-50.1	-14748.4	8937.1	7063000.0	16600000.0	-2147.0
292.461	563.0	5283.3	-6053.6	-2251000.0	380507.0	1802.0
292.462	4041.2	-1390.0	-4084.5	368086.0	7987000.0	1259.0
292.463	-7117.2	-6628.0	23379.1	3965000.0	14380000.0	-2330.0
292.464	-3671.4	-12474.0	25474.1	6200000.0	21360000.0	-2916.0
292.529	-5689.4	11136.3	-12032.1	-4250000.0	-10800000.0	1654.0
292.530	7828.0	-15796.9	-3392.7	6608000.0	14070000.0	-292.0
292.531	-5986.5	6619.7	-3811.4	-2002000.0	-4793000.0	864.0
292.532	5810.0	-16062.1	4103.0	6983000.0	20050000.0	-1128.0
292.533	-5818.6	10515.6	529.0	-3901000.0	-5707000.0	655.0
292.534	6177.5	-12226.8	7005.1	5068000.0	19280000.0	-1175.0
292.535	-8076.7	8859.8	9922.5	-2790000.0	775822.0	-70.0
292.536	3561.4	-12737.8	16632.3	5652000.0	25440000.0	-2000.0
292.537	-5351.0	11564.6	-11611.6	-4394000.0	-9875000.0	1881.0
292.538	7841.6	-14878.8	-3108.4	6246000.0	15280000.0	-66.0
292.539	-5975.1	5613.6	-4085.0	-1600000.0	-5984000.0	649.0
292.540	5701.9	-16845.4	3794.5	7288000.0	18900000.0	-1345.0
292.541	-5553.2	10790.6	693.3	-3983000.0	-4381000.0	890.0
292.542	6400.6	-11876.6	7145.6	4952000.0	20640000.0	-947.0
292.543	-8127.0	7936.9	9660.1	-2419000.0	-368832.0	-280.0
292.544	3472.0	-13272.8	16432.5	5849000.0	24020000.0	-2210.0
292.545	-4904.3	10565.3	-13196.7	-3938000.0	-10170000.0	1552.0
292.546	8852.8	-16655.0	-4547.9	7049000.0	14490000.0	-400.0
292.547	-5335.0	6726.2	-5160.8	-2006000.0	-4366000.0	791.0
292.548	6475.5	-16427.0	2902.4	7201000.0	20720000.0	-1209.0
292.549	-6209.6	9571.8	1690.6	-3524000.0	-5877000.0	741.0
292.550	5798.1	-13146.3	8245.8	5430000.0	19020000.0	-1113.0
292.551	-8661.8	8516.3	11274.8	-2685000.0	400553.0	3.1
292.552	3044.1	-13523.5	17907.6	5959000.0	25310000.0	-1923.0

292.553	-4513.2	10958.6	-12749.5	-4066000.0	-9287000.0	1767.0
292.554	8878.8	-15768.9	-4258.3	6702000.0	15700000.0	-186.0
292.555	-5393.1	5761.3	-5437.7	-1620000.0	-5492000.0	583.0
292.556	6413.3	-17277.0	2601.7	7536000.0	19530000.0	-1421.0
292.557	-6089.2	10009.9	1892.0	-3678000.0	-4465000.0	976.0
292.558	6020.0	-12818.8	8398.5	5324000.0	20370000.0	-883.0
292.559	-8733.4	7768.6	11022.9	-2393000.0	-819799.0	-213.0
292.560	2931.0	-14008.7	17704.9	6134000.0	23910000.0	-2137.0
293.1	-357.6	-697.1	3452.1	-480817.0	5048000.0	22.0
293.2	-341.0	-516.7	2930.1	-354333.0	3772000.0	27.0
293.3	-525.4	-740.5	3996.4	-496271.0	5222000.0	57.0
293.4	-520.5	-549.5	3481.2	-364642.0	3935000.0	62.0
293.5	-431.3	-456.1	5735.9	-342131.0	3823000.0	19.0
293.6	-381.7	-308.5	5198.1	-226233.0	2530000.0	17.0
293.7	1589.3	-4775.4	9046.3	-3372000.0	35610000.0	180.0
293.8	1635.9	-4615.3	8501.5	-3253000.0	34330000.0	180.0
293.9	1113.0	-3757.4	7653.0	-2655000.0	28080000.0	136.0
293.10	1163.1	-3595.5	7101.1	-2536000.0	26810000.0	136.0
293.11	973.6	-3791.4	8152.7	-2673000.0	28300000.0	160.0
293.12	1007.4	-3628.4	7622.3	-2553000.0	27030000.0	161.0
293.13	965.4	-3452.1	9980.4	-2496000.0	26910000.0	154.0
293.14	1013.2	-3284.2	9428.3	-2376000.0	25640000.0	148.0
293.15	-360.0	-681.2	3431.5	-473291.0	4975000.0	26.0
293.16	-360.1	-703.8	3471.4	-485078.0	5123000.0	18.0
293.17	-370.5	-451.3	2905.2	-330776.0	3720000.0	31.0
293.18	-312.2	-562.6	2937.8	-371228.0	3828000.0	23.0
293.19	-361.0	-671.9	3418.0	-468699.0	4925000.0	29.0
293.20	-350.6	-711.7	3469.7	-488436.0	5165000.0	15.0
293.21	-382.5	-421.1	2889.2	-319394.0	3680000.0	33.0
293.22	-305.6	-577.7	2947.6	-376977.0	3868000.0	20.0
293.23	-558.4	-675.9	3977.5	-472930.0	5170000.0	60.0
293.24	-491.3	-802.2	4010.9	-518658.0	5275000.0	53.0
293.25	-552.7	-482.8	3458.9	-340615.0	3883000.0	65.0
293.26	-488.2	-616.0	3503.0	-388647.0	3987000.0	59.0
293.27	-445.0	-421.3	5714.7	-329238.0	3766000.0	25.0
293.28	-419.2	-485.6	5754.8	-353176.0	3882000.0	15.0
293.29	-395.0	-270.0	5173.2	-212077.0	2473000.0	22.0
293.30	-368.7	-343.0	5219.9	-238967.0	2588000.0	12.0
293.31	1598.9	-4781.8	9028.1	-3372000.0	35530000.0	185.0
293.32	1597.7	-4765.6	9039.3	-3370000.0	35690000.0	170.0
293.33	1645.8	-4621.2	8482.6	-3254000.0	34260000.0	184.0
293.34	1639.2	-4605.5	8501.8	-3252000.0	34410000.0	170.0
293.35	1108.7	-3770.9	7650.7	-2656000.0	27950000.0	151.0
293.36	1088.3	-3747.2	7695.3	-2654000.0	28210000.0	128.0
293.37	1164.1	-3606.9	7090.0	-2537000.0	26680000.0	149.0
293.38	1149.3	-3584.4	7127.1	-2536000.0	26940000.0	129.0
293.39	1103.8	-3766.0	7660.2	-2656000.0	28000000.0	147.0
293.40	1100.4	-3751.4	7675.7	-2655000.0	28160000.0	131.0
293.41	1158.2	-3602.7	7101.5	-2537000.0	26730000.0	146.0
293.42	1156.1	-3588.8	7114.5	-2536000.0	26890000.0	131.0
293.43	981.4	-3798.0	8137.4	-2673000.0	28230000.0	165.0
293.44	964.1	-3787.3	8172.4	-2673000.0	28380000.0	156.0
293.45	1017.1	-3632.0	7601.9	-2553000.0	26950000.0	165.0
293.46	997.8	-3626.2	7643.6	-2554000.0	27100000.0	157.0
293.47	971.7	-3459.6	9967.3	-2497000.0	26830000.0	161.0
293.48	957.9	-3445.0	9995.4	-2496000.0	26990000.0	148.0
293.49	1023.9	-3290.7	9409.1	-2376000.0	25560000.0	154.0
293.50	1005.1	-3274.8	9442.2	-2375000.0	25720000.0	141.0
293.51	450.5	-1826.6	3422.5	-874524.0	4722000.0	159.0
293.52	485.9	-1675.8	2900.4	-757788.0	3435000.0	161.0
293.53	1020.0	-2598.1	3378.3	-1142000.0	4475000.0	247.0
293.54	999.3	-2369.2	2872.9	-996924.0	3202000.0	247.0

293.55	282.2	-1900.8	3993.5	-901595.0	4905000.0	193.0
293.56	307.7	-1745.9	3481.9	-783369.0	3619000.0	198.0
293.57	304.6	-1508.8	5736.4	-711837.0	3559000.0	169.0
293.58	365.4	-1366.2	5188.6	-598240.0	2270000.0	163.0
293.59	2410.3	-5885.1	8983.7	-3764000.0	35280000.0	332.0
293.60	2466.6	-5716.9	8421.0	-3643000.0	34020000.0	324.0
293.61	1923.5	-4863.6	7599.8	-3045000.0	27760000.0	287.0
293.62	1981.8	-4691.3	7032.0	-2924000.0	26500000.0	278.0
293.63	2445.5	-5574.8	7568.2	-3296000.0	27570000.0	376.0
293.64	2504.7	-5409.4	7004.4	-3177000.0	26300000.0	367.0
293.65	1799.1	-4890.9	8078.6	-3061000.0	27990000.0	291.0
293.66	1831.2	-4718.6	7543.5	-2939000.0	26720000.0	290.0
293.67	1753.7	-4572.4	9965.6	-2887000.0	26570000.0	307.0
293.68	1799.1	-4376.1	9396.6	-2761000.0	25330000.0	303.0
293.69	-935.4	167.6	3519.3	-171713.0	5058000.0	-115.0
293.70	-847.7	242.0	3006.3	-83154.0	3750000.0	-107.0
293.71	-1075.4	375.8	3575.6	-95737.0	4963000.0	-198.0
293.72	-992.2	450.2	3067.3	-7477.0	3658000.0	-189.0
293.73	-1217.4	291.9	4074.5	-129164.0	5276000.0	-84.0
293.74	-1141.4	373.3	3564.1	-35968.0	3958000.0	-76.0
293.75	-826.3	152.8	5798.2	-123812.0	3760000.0	-123.0
293.76	-722.6	223.8	5262.3	-34983.0	2441000.0	-123.0
293.77	526.4	-3329.7	9135.0	-2861000.0	35970000.0	45.0
293.78	592.9	-3172.2	8568.2	-2745000.0	34700000.0	39.0
293.79	70.9	-2322.1	7725.8	-2147000.0	28410000.0	-1.8
293.80	108.5	-2150.3	7185.7	-2025000.0	27150000.0	-0.5
293.81	-513.9	-1452.5	7738.7	-1838000.0	28550000.0	-92.0
293.82	-492.2	-1247.7	7197.5	-1705000.0	27290000.0	-90.0
293.83	-151.3	-2231.9	8233.4	-2121000.0	28660000.0	25.0
293.84	-120.9	-2067.1	7708.2	-2002000.0	27400000.0	29.0
293.85	-51.1	-2024.5	10031.2	-1990000.0	27220000.0	6.0
293.86	-2.7	-1853.6	9478.5	-1869000.0	25950000.0	3.0
293.87	6706.3	-1489.3	4987.7	-1208000.0	12530000.0	-2582.0
293.88	6764.1	-1327.0	4427.3	-1090000.0	11260000.0	-2588.0
293.89	9029.6	-1758.0	5482.6	-1449000.0	14970000.0	-3434.0
293.90	9084.2	-1600.9	4931.0	-1332000.0	13700000.0	-3438.0
293.91	6619.2	-1523.3	5419.9	-1226000.0	12750000.0	-2581.0
293.92	6655.7	-1374.2	4897.9	-1111000.0	11470000.0	-2578.0
293.93	6531.6	-1178.9	7343.8	-1048000.0	11360000.0	-2561.0
293.94	6593.2	-1018.1	6779.9	-929282.0	10090000.0	-2565.0
293.95	6714.8	-1495.7	4969.8	-1209000.0	12450000.0	-2577.0
293.96	6699.0	-1482.1	5002.4	-1208000.0	12610000.0	-2587.0
293.97	6772.3	-1330.6	4408.6	-1089000.0	11180000.0	-2583.0
293.98	6755.3	-1323.9	4447.4	-1090000.0	11330000.0	-2593.0
293.99	6714.9	-1501.5	4967.1	-1209000.0	12400000.0	-2573.0
293.100	6694.3	-1479.1	5013.4	-1208000.0	12660000.0	-2590.0
293.101	6771.0	-1334.9	4405.7	-1089000.0	11130000.0	-2579.0
293.102	6749.8	-1321.8	4460.2	-1090000.0	11380000.0	-2596.0
293.103	9029.2	-1764.1	5476.0	-1450000.0	14900000.0	-3427.0
293.104	9021.3	-1755.1	5502.1	-1450000.0	15050000.0	-3438.0
293.105	9084.2	-1606.7	4924.3	-1332000.0	13620000.0	-3429.0
293.106	9076.8	-1599.2	4950.5	-1333000.0	13770000.0	-3440.0
293.107	6628.6	-1526.3	5399.3	-1226000.0	12680000.0	-2578.0
293.108	6613.2	-1522.1	5436.9	-1227000.0	12830000.0	-2585.0
293.109	6666.1	-1376.2	4875.1	-1110000.0	11400000.0	-2574.0
293.110	6649.2	-1372.9	4915.5	-1112000.0	11540000.0	-2581.0
293.111	6547.5	-1185.8	7317.5	-1048000.0	11290000.0	-2556.0
293.112	6523.7	-1173.2	7360.5	-1048000.0	11440000.0	-2566.0
293.113	6601.7	-1021.1	6760.2	-928705.9	10020000.0	-2561.0
293.114	6580.9	-1015.9	6805.4	-930007.0	10160000.0	-2570.0
293.115	7538.2	-2636.2	4939.5	-1606000.0	12170000.0	-2443.0
293.116	7544.0	-2396.0	4391.4	-1459000.0	10910000.0	-2451.0

293.117	7924.6	-3235.6	5007.6	-1811000.0	11950000.0	-2339.0
293.118	7935.4	-2974.4	4438.7	-1656000.0	10700000.0	-2350.0
293.119	9815.4	-2845.3	5452.2	-1826000.0	14620000.0	-3294.0
293.120	9799.6	-2613.2	4936.8	-1681000.0	13350000.0	-3296.0
293.121	7444.5	-2682.7	5392.3	-1628000.0	12390000.0	-2450.0
293.122	7480.9	-2525.5	4864.4	-1510000.0	11110000.0	-2450.0
293.123	7382.3	-2338.1	7281.6	-1450000.0	11010000.0	-2424.0
293.124	7417.2	-2149.7	6733.2	-1321000.0	9732000.0	-2431.0
293.125	5803.1	-231.7	5020.1	-762328.0	12830000.0	-2729.0
293.126	5845.9	-38.0	4453.8	-632902.0	11560000.0	-2739.0
293.127	5342.5	459.5	5041.8	-516229.0	12900000.0	-2824.0
293.128	5457.9	537.5	4491.2	-427608.0	11590000.0	-2828.0
293.129	8118.9	-510.1	5532.2	-1007000.0	15280000.0	-3586.0
293.130	8163.4	-333.8	4978.3	-883759.9	14010000.0	-3590.0
293.131	5652.6	-207.5	5489.9	-759615.0	13060000.0	-2725.0
293.132	5656.6	-2.5	4965.3	-626294.0	11800000.0	-2718.0
293.133	5677.5	28.4	7358.0	-618813.0	11630000.0	-2712.0
293.134	5730.0	194.7	6804.0	-498894.0	10360000.0	-2721.0
293.135	-6815.2	-1576.7	5047.1	-1076000.0	12510000.0	2822.0
293.136	-6833.1	-1329.3	4518.7	-928055.0	11260000.0	2826.0
293.137	-8900.0	-1916.4	5577.4	-1289000.0	14940000.0	3741.0
293.138	-8930.2	-1649.1	5047.4	-1134000.0	13700000.0	3745.0
293.139	-7123.3	-1367.6	5569.1	-1009000.0	12790000.0	2855.0
293.140	-7150.0	-1107.0	5041.7	-855980.9	11540000.0	2861.0
293.141	-6809.1	-1427.3	7309.8	-971800.0	11280000.0	2815.0
293.142	-6806.0	-1213.2	6782.3	-835333.0	10030000.0	2819.0
293.143	-6807.9	-1579.6	5031.9	-1075000.0	12430000.0	2826.0
293.144	-6819.9	-1585.5	5069.3	-1081000.0	12590000.0	2818.0
293.145	-6822.4	-1328.8	4496.0	-925883.0	11180000.0	2830.0
293.146	-6843.9	-1326.3	4539.4	-928955.9	11340000.0	2823.0
293.147	-6804.0	-1582.0	5023.5	-1075000.0	12380000.0	2829.0
293.148	-6825.5	-1585.7	5083.0	-1083000.0	12640000.0	2816.0
293.149	-6815.1	-1332.5	4483.8	-925826.9	11130000.0	2833.0
293.150	-6850.8	-1324.7	4553.0	-929708.0	11390000.0	2820.0
293.151	-8890.4	-1918.0	5557.3	-1288000.0	14860000.0	3745.0
293.152	-8906.5	-1923.9	5600.5	-1294000.0	15020000.0	3737.0
293.153	-8917.0	-1654.3	5026.8	-1134000.0	13620000.0	3748.0
293.154	-8932.7	-1653.2	5062.6	-1138000.0	13780000.0	3741.0
293.155	-7114.8	-1369.0	5550.5	-1007000.0	12710000.0	2859.0
293.156	-7130.6	-1367.4	5587.2	-1011000.0	12870000.0	2852.0
293.157	-7135.8	-1114.8	5021.0	-856742.0	11460000.0	2864.0
293.158	-7164.8	-1096.4	5061.1	-854213.9	11620000.0	2857.0
293.159	-6796.7	-1432.6	7289.3	-971697.0	11200000.0	2819.0
293.160	-6832.5	-1411.1	7336.5	-967933.0	11360000.0	2811.0
293.161	-6791.3	-1221.2	6760.9	-836199.0	9945000.0	2823.0
293.162	-6820.1	-1205.5	6803.1	-834625.0	10110000.0	2815.0
293.163	-5800.2	-3022.9	5002.7	-1587000.0	12180000.0	2973.0
293.164	-5759.4	-2850.7	4456.5	-1466000.0	10920000.0	2969.0
293.165	-5239.1	-3740.6	4925.0	-1841000.0	11980000.0	3045.0
293.166	-5201.7	-3582.7	4394.2	-1722000.0	10700000.0	3042.0
293.167	-7850.4	-3423.4	5530.7	-1822000.0	14610000.0	3891.0
293.168	-7812.2	-3263.7	4997.7	-1704000.0	13340000.0	3894.0
293.169	-5962.9	-3050.1	5528.5	-1603000.0	12410000.0	2996.0
293.170	-5937.4	-2878.0	5001.1	-1481000.0	11140000.0	2995.0
293.171	-5920.2	-2697.1	7277.3	-1422000.0	11030000.0	2971.0
293.172	-5884.6	-2524.8	6737.6	-1300000.0	9756000.0	2966.0
293.173	-7660.4	-310.5	5094.8	-626958.0	12670000.0	2689.0
293.174	-7585.1	-211.7	4578.5	-530925.0	11370000.0	2696.0
293.175	-7821.0	-76.5	5151.7	-541544.0	12580000.0	2608.0
293.176	-7731.5	1.8	4635.7	-452794.0	11280000.0	2616.0
293.177	-9818.4	-525.5	5609.1	-796398.0	15130000.0	3607.0
293.178	-9761.7	-395.3	5088.6	-689421.0	13850000.0	3614.0

293.179	-7948.9	-154.0	5644.1	-577460.0	12920000.0	2719.0
293.180	-7873.7	-56.4	5129.4	-481856.0	11620000.0	2726.0
293.181	-7522.4	-353.2	7358.8	-589860.0	11370000.0	2674.0
293.182	-7427.5	-276.9	6837.8	-501838.0	10070000.0	2680.0
293.183	-1857.1	7018.1	-5653.8	2223000.0	6654000.0	35.0
293.184	-1908.7	7292.7	-6141.4	2379000.0	5414000.0	42.0
293.185	-1770.8	6530.7	-5118.4	2052000.0	6745000.0	74.0
293.186	-1832.1	6811.6	-5594.8	2213000.0	5486000.0	83.0
293.187	-3300.8	12869.1	-11625.6	4265000.0	7913000.0	41.0
293.188	-3295.4	13056.6	-12118.2	4393000.0	6632000.0	48.0
293.189	-1709.5	7013.8	-3473.3	2272000.0	5391000.0	20.0
293.190	-1788.0	7338.9	-3966.8	2448000.0	4149000.0	24.0
293.191	-124.8	3296.1	-73.3	-511711.0	37170000.0	196.0
293.192	-146.4	3545.9	-591.1	-361732.0	35920000.0	200.0
293.193	-460.8	4079.1	-1465.3	123760.0	29560000.0	161.0
293.194	-459.1	4297.4	-1989.2	262759.0	28300000.0	165.0
293.195	-451.7	3720.1	-932.7	-9727.0	29730000.0	193.0
293.196	-467.3	3954.7	-1442.5	135146.0	28470000.0	200.0
293.197	-1558.3	9443.4	-7533.6	2029000.0	30490000.0	181.0
293.198	-1585.4	9692.3	-8042.5	2179000.0	29240000.0	187.0
293.199	-481.9	4278.7	787.3	244488.0	28350000.0	156.0
293.200	-428.0	4448.8	221.6	366045.0	27080000.0	152.0
293.201	5091.4	6603.2	-4219.6	1662000.0	14000000.0	-2588.0
293.202	4950.6	7030.9	-4719.0	1872000.0	12810000.0	-2584.0
293.203	7332.4	6520.0	-3743.7	1488000.0	16480000.0	-3449.0
293.204	7187.6	6953.6	-4241.7	1702000.0	15280000.0	-3442.0
293.205	5116.6	6215.3	-3683.1	1519000.0	14160000.0	-2551.0
293.206	5002.4	6600.7	-4182.6	1715000.0	12960000.0	-2545.0
293.207	3460.2	12764.7	-10197.7	3816000.0	15330000.0	-2586.0
293.208	3444.9	12994.6	-10703.6	3944000.0	14170000.0	-2585.0
293.209	5226.9	6584.2	-2001.7	1705000.0	12740000.0	-2594.0
293.210	5080.7	7046.3	-2529.8	1925000.0	11580000.0	-2599.0
293.211	-7482.7	4730.5	-4114.5	1160000.0	13680000.0	2856.0
293.212	-7555.0	5049.6	-4617.0	1334000.0	12440000.0	2863.0
293.213	-9411.8	4103.3	-3589.1	844868.0	16070000.0	3774.0
293.214	-9438.0	4357.3	-4100.8	996444.1	14810000.0	3782.0
293.215	-7464.7	4358.1	-3579.9	1022000.0	13850000.0	2892.0
293.216	-7510.9	4634.2	-4082.6	1181000.0	12600000.0	2899.0
293.217	-8929.5	10599.6	-10112.8	3221000.0	14880000.0	2869.0
293.218	-9106.4	11067.6	-10591.5	3442000.0	13710000.0	2871.0
293.219	-7437.1	4870.9	-1915.6	1258000.0	12470000.0	2841.0
293.220	-7421.3	5060.4	-2432.7	1387000.0	11190000.0	2847.0
293.221	-429.9	-627.4	3479.5	-456640.0	5065000.0	-8.7
293.222	-461.3	-360.5	2949.7	-300749.0	3813000.0	-3.9
293.223	-655.8	-570.6	4018.7	-437814.0	5264000.0	24.0
293.224	-653.8	-375.5	3503.8	-304759.0	3976000.0	29.0
293.225	-507.6	-538.4	3502.1	-425452.0	5083000.0	-30.0
293.226	-557.3	-239.3	2969.4	-258927.0	3842000.0	-26.0
293.227	-519.3	-364.9	5768.0	-311337.0	3853000.0	-14.0
293.228	-492.2	-176.3	5226.3	-180992.0	2565000.0	-17.0
293.229	1554.8	-4794.5	9099.3	-3380000.0	35620000.0	149.0
293.230	1608.7	-4626.9	8535.7	-3259000.0	34350000.0	145.0
293.231	1082.2	-3788.0	7710.4	-2666000.0	28090000.0	107.0
293.232	1135.0	-3614.3	7143.0	-2544000.0	26820000.0	103.0
293.233	943.1	-3814.9	8201.7	-2682000.0	28310000.0	128.0
293.234	970.1	-3643.7	7673.9	-2560000.0	27040000.0	129.0
293.235	1090.7	-3806.7	7702.6	-2673000.0	28090000.0	83.0
293.236	1112.1	-3628.8	7178.1	-2549000.0	26820000.0	80.0
293.237	927.0	-3471.8	10038.5	-2504000.0	26920000.0	117.0
293.238	971.0	-3301.1	9488.5	-2382000.0	25650000.0	109.0
293.239	6681.5	-1515.2	5032.0	-1218000.0	12530000.0	-2621.0
293.240	6728.1	-1342.7	4478.3	-1096000.0	11270000.0	-2623.0

293.241	8993.7	-1775.9	5535.4	-1456000.0	14980000.0	-3470.0
293.242	9052.3	-1608.8	4970.8	-1336000.0	13710000.0	-3477.0
293.243	6587.7	-1540.9	5465.3	-1233000.0	12760000.0	-2615.0
293.244	6617.4	-1378.9	4942.5	-1114000.0	11490000.0	-2610.0
293.245	6648.8	-1522.8	5074.4	-1220000.0	12540000.0	-2643.0
293.246	6723.8	-1358.4	4486.9	-1101000.0	11270000.0	-2648.0
293.247	6491.2	-1198.2	7403.8	-1054000.0	11370000.0	-2597.0
293.248	6555.9	-1032.2	6832.6	-934982.0	10100000.0	-2606.0
293.249	-6884.2	-1520.4	5086.4	-1057000.0	12520000.0	2791.0
293.250	-6907.3	-1265.4	4558.1	-905812.0	11270000.0	2796.0
293.251	-8971.5	-1853.0	5611.6	-1267000.0	14960000.0	3710.0
293.252	-9002.1	-1585.6	5083.0	-1112000.0	13710000.0	3714.0
293.253	-7191.4	-1314.7	5609.7	-990420.0	12800000.0	2825.0
293.254	-7207.3	-1070.5	5082.3	-843451.9	11550000.0	2831.0
293.255	-6929.7	-1484.9	5112.8	-1044000.0	12530000.0	2771.0
293.256	-6965.3	-1213.4	4586.4	-887718.0	11290000.0	2776.0
293.257	-6886.1	-1376.5	7365.1	-953884.9	11290000.0	2778.0
293.258	-6902.9	-1127.4	6835.6	-805193.0	10040000.0	2784.0
293.401	4980.1	-6225.9	3702.0	-2728000.0	27720000.0	2089.0
293.402	5678.7	-6827.8	5961.4	-3121000.0	32630000.0	2320.0
293.403	3637.9	-6812.3	11923.7	-2971000.0	29130000.0	374.0
293.404	4340.9	-7418.0	14181.7	-3366000.0	34040000.0	608.0
293.405	-6136.5	11059.2	-11247.5	4355000.0	-27120000.0	-716.0
293.406	-4772.1	9245.5	-9031.0	3578000.0	-22690000.0	-464.0
293.407	-5032.9	6542.6	-3286.3	2622000.0	-26540000.0	-1952.0
293.408	-4035.3	5239.4	-1022.8	2045000.0	-22080000.0	-1727.0
293.409	4229.6	-6118.0	1972.1	-2691000.0	27950000.0	2295.0
293.410	4926.1	-6722.4	4236.8	-3085000.0	32860000.0	2529.0
293.411	4394.6	-6913.0	13639.2	-3006000.0	28900000.0	164.0
293.412	5098.5	-7519.3	15896.7	-3400000.0	33810000.0	398.0
293.413	-7726.5	12700.7	-12923.2	4937000.0	-26640000.0	-523.0
293.414	-6295.6	10784.1	-10712.2	4116000.0	-22190000.0	-270.0
293.415	-4973.7	7752.9	-1583.0	3015000.0	-26530000.0	-2175.0
293.416	-4694.7	7657.2	583.2	2864000.0	-21780000.0	-1948.0
293.417	4343.4	-5169.8	1623.8	-2098000.0	17560000.0	2060.0
293.418	5145.2	-5899.0	3847.6	-2528000.0	22350000.0	2266.0
293.419	3352.7	-6197.1	9764.7	-2482000.0	18720000.0	409.0
293.420	4144.9	-6933.1	12005.9	-2915000.0	23510000.0	626.0
293.421	-6268.2	11197.2	-9174.9	4167000.0	-16820000.0	-754.0
293.422	-5096.1	9661.8	-6902.2	3499000.0	-12420000.0	-513.0
293.423	-6028.9	8042.4	-1396.2	2877000.0	-15500000.0	-2000.0
293.424	-4987.6	6551.7	1007.6	2198000.0	-10790000.0	-1763.0
293.425	3510.1	-4959.2	-87.2	-2028000.0	17840000.0	2247.0
293.426	4311.0	-5690.2	2139.6	-2459000.0	22630000.0	2454.0
293.427	3768.6	-5665.2	11417.4	-2292000.0	18580000.0	219.0
293.428	4957.7	-7134.6	13735.6	-2981000.0	23230000.0	446.0
293.429	-7733.8	12613.8	-10850.7	4666000.0	-16380000.0	-585.0
293.430	-6541.4	11067.8	-8605.7	3981000.0	-11890000.0	-348.0
293.431	-5879.7	9135.8	268.1	3234000.0	-15530000.0	-2195.0
293.432	-4986.5	7889.8	2677.3	2640000.0	-10750000.0	-1960.0
293.433	-3407.9	10620.0	-10517.2	3605000.0	8907000.0	2877.0
293.434	-2124.5	8999.8	-8329.1	2871000.0	13510000.0	3088.0
293.435	-7268.9	8400.2	15443.4	2556000.0	13740000.0	-2401.0
293.436	-6348.1	7095.2	17881.3	1940000.0	18500000.0	-2151.0
293.437	-5823.0	14262.9	-14957.7	5177000.0	-7990000.0	1886.0
293.438	-4648.4	12843.5	-12779.7	4521000.0	-3386000.0	2105.0
293.439	-9059.4	11272.8	10944.8	3802000.0	-3094000.0	-2908.0
293.440	-7874.2	9573.6	13338.9	3072000.0	13990000.0	-2662.0
293.441	-3332.3	10469.7	-11123.7	3619000.0	5806000.0	2839.0
293.442	-2159.7	9014.5	-8920.0	2943000.0	10460000.0	3050.0
293.443	-7153.9	8251.0	14850.1	2586000.0	10530000.0	-2358.0
293.444	-6060.6	6800.6	17140.6	1965000.0	14870000.0	-2138.0

293.445	-5892.4	14421.1	-14365.1	5166000.0	-4893000.0	1927.0
293.446	-4725.2	13014.0	-12189.1	4514000.0	-281689.0	2139.0
293.447	-9060.7	11268.5	11506.4	3727000.0	11950.0	-2952.0
293.448	-8221.9	10057.8	13968.6	3142000.0	4840000.0	-2688.0
293.449	-8176.3	15147.2	-16057.0	5193000.0	10190000.0	3378.0
293.450	-7121.6	13878.0	-13839.5	4578000.0	14920000.0	3594.0
293.451	-6933.1	12410.7	20856.4	3910000.0	13670000.0	-3012.0
293.452	-6026.6	11130.2	23291.5	3302000.0	18440000.0	-2761.0
293.453	-10619.2	18914.9	-20534.7	6807000.0	-6640000.0	2476.0
293.454	-9435.9	17484.2	-18357.6	6145000.0	-2017000.0	2704.0
293.455	-8613.0	15091.7	16426.4	5086000.0	-3308000.0	-3631.0
293.456	-7650.0	13714.5	18862.0	4452000.0	1381000.0	-3388.0
293.457	-8123.2	15041.5	-16668.4	5221000.0	7117000.0	3347.0
293.458	-6948.5	13587.7	-14465.7	4543000.0	11790000.0	3566.0
293.459	-6843.4	12277.0	20291.1	3938000.0	10530000.0	-2964.0
293.460	-5889.6	10969.9	22670.0	3337000.0	15160000.0	-2728.0
293.461	-10697.7	19053.0	-19931.2	6785000.0	-3530000.0	2465.0
293.462	-9536.2	17658.0	-17754.4	6131000.0	1126000.0	2687.0
293.463	-8587.1	15064.0	16965.2	5005000.0	-221497.0	-3670.0
293.464	-7680.2	13743.1	19436.8	4383000.0	4543000.0	-3424.0
293.529	-1592.4	3047.0	-3886.2	1072000.0	3854000.0	863.0
293.530	3102.4	-3006.9	3436.8	-1646000.0	19240000.0	1567.0
293.531	-3164.3	3227.1	3674.7	1059000.0	5422000.0	-836.0
293.532	1506.0	-3468.3	11871.9	-1851000.0	20720000.0	45.0
293.533	-4657.2	7869.0	-8375.8	3053000.0	-12690000.0	-110.0
293.534	-739.8	3068.5	-1027.9	851513.9	2561000.0	677.0
293.535	-5398.2	6745.3	-766.5	2526000.0	-11310000.0	-1446.0
293.536	-1667.3	1573.5	7150.1	232892.0	3918000.0	-644.0
293.537	-3426.7	5020.6	-5496.9	1764000.0	4416000.0	1025.0
293.538	979.9	-616.5	1855.4	-788344.0	19810000.0	1735.0
293.539	-3244.6	4709.5	5284.8	1562000.0	5488000.0	-1022.0
293.540	923.7	-1194.4	13405.0	-1049000.0	20890000.0	-179.0
293.541	-6153.3	9360.3	-10042.1	3577000.0	-12250000.0	95.0
293.542	-2193.1	4447.4	-2676.6	1351000.0	2887000.0	871.0
293.543	-5040.7	7533.7	894.3	2788000.0	-11480000.0	-1666.0
293.544	-1575.2	2775.7	8764.3	655708.0	3788000.0	-864.0
293.545	-1795.8	3329.4	-4460.8	1237000.0	879762.0	841.0
293.546	3009.0	-2863.4	2799.3	-1520000.0	16150000.0	1537.0
293.547	-3247.5	3346.9	3115.7	1168000.0	2413000.0	-786.0
293.548	987.8	-2460.2	11108.5	-1403000.0	17590000.0	27.0
293.549	-4730.2	7975.8	-7750.1	3022000.0	-9596000.0	-90.0
293.550	-863.8	3177.2	-344.3	816352.0	5675000.0	643.0
293.551	-5286.3	6581.3	-238.3	2401000.0	-8237000.0	-1450.0
293.552	-1911.4	1777.0	7839.5	209846.0	7370000.0	-671.0
293.553	-3558.9	5191.4	-6082.8	1889000.0	1412000.0	989.0
293.554	834.3	-407.6	1241.8	-638568.0	16750000.0	1711.0
293.555	-3250.6	4708.9	4732.2	1630000.0	2440000.0	-969.0
293.556	683.1	-645.1	12672.5	-761154.0	17650000.0	-168.0
293.557	-6179.1	9363.0	-9412.5	3508000.0	-9193000.0	79.0
293.558	-2315.9	4554.5	-2001.9	1315000.0	5992000.0	823.0
293.559	-5052.5	7584.0	1400.1	2738000.0	-8352000.0	-1668.0
293.560	-1817.9	3001.9	9462.0	623043.0	7354000.0	-870.0
294.1	1179.1	-4535.4	4415.2	-1960000.0	6691000.0	-313.0
294.2	544.1	-3155.6	3815.8	-1383000.0	4957000.0	-270.0
294.3	326.5	-4080.8	5401.2	-1817000.0	6930000.0	-405.0
294.4	-429.7	-2586.1	4799.0	-1200000.0	5321000.0	-365.0
294.5	959.3	-4300.7	6778.9	-1837000.0	5695000.0	-238.0
294.6	211.5	-2817.5	6147.1	-1225000.0	4095000.0	-187.0
294.7	10642.6	-25274.7	12814.4	-10970000.0	49670000.0	-1267.0
294.8	10075.6	-23938.7	12189.7	-10410000.0	47900000.0	-1225.0
294.9	8446.6	-20230.5	10632.4	-8778000.0	38980000.0	-1015.0
294.10	7883.1	-18904.2	10016.1	-8220000.0	37190000.0	-973.0

294.11	8076.5	-20176.0	11571.4	-8774000.0	38750000.0	-1104.0
294.12	7486.9	-18829.9	10997.6	-8208000.0	36970000.0	-1069.0
294.13	8646.4	-20329.0	12904.7	-8774000.0	37540000.0	-940.0
294.14	8123.8	-19041.4	12281.9	-8230000.0	35710000.0	-890.0
294.15	1575.6	-5286.1	4377.0	-2205000.0	6511000.0	-283.0
294.16	778.5	-3777.9	4448.6	-1712000.0	6879000.0	-343.0
294.17	1065.4	-4018.4	3780.5	-1667000.0	4646000.0	-240.0
294.18	20.8	-2291.0	3850.2	-1099000.0	5271000.0	-300.0
294.19	1840.9	-5787.9	4352.0	-2368000.0	6389000.0	-263.0
294.20	429.1	-3203.6	4474.3	-1523000.0	7086000.0	-362.0
294.21	1380.4	-4565.0	3756.1	-1846000.0	4474000.0	-219.0
294.22	-326.2	-1715.4	3871.3	-909411.1	5480000.0	-319.0
294.23	849.5	-4945.7	5366.9	-2101000.0	6617000.0	-374.0
294.24	-197.9	-3215.6	5436.9	-1532000.0	7244000.0	-435.0
294.25	92.9	-3449.7	4764.7	-1484000.0	5007000.0	-335.0
294.26	-952.8	-1723.3	4834.8	-915955.0	5635000.0	-394.0
294.27	1484.7	-5163.8	6743.9	-2121000.0	5380000.0	-210.0
294.28	435.8	-3438.3	6812.9	-1553000.0	6009000.0	-267.0
294.29	735.5	-3680.4	6113.2	-1509000.0	3780000.0	-158.0
294.30	-314.3	-1954.3	6184.0	-941163.9	4408000.0	-216.0
294.31	11047.4	-26033.3	12780.7	-11220000.0	49480000.0	-1238.0
294.32	10314.5	-24516.6	12723.8	-10730000.0	49860000.0	-1279.0
294.33	10481.8	-24698.4	12156.7	-10660000.0	47700000.0	-1195.0
294.34	9740.1	-23183.2	12114.2	-10170000.0	48080000.0	-1238.0
294.35	9056.9	-21498.2	10690.2	-9190000.0	38660000.0	-983.0
294.36	7770.1	-18960.9	10678.3	-8363000.0	39300000.0	-1061.0
294.37	8521.7	-20186.1	10059.6	-8637000.0	36860000.0	-939.0
294.38	7214.8	-17639.6	10063.7	-7807000.0	37510000.0	-1022.0
294.39	8791.2	-20995.6	10710.8	-9026000.0	38780000.0	-1002.0
294.40	8036.8	-19465.2	10657.9	-8528000.0	39180000.0	-1042.0
294.41	8252.2	-19681.3	10083.6	-8472000.0	36980000.0	-959.0
294.42	7478.4	-18145.8	10049.7	-7972000.0	37380000.0	-1002.0
294.43	8477.0	-20928.9	11534.9	-9020000.0	38560000.0	-1075.0
294.44	7654.4	-19404.3	11605.9	-8522000.0	38960000.0	-1133.0
294.45	7911.3	-19603.6	10964.3	-8461000.0	36760000.0	-1040.0
294.46	7051.5	-18046.1	11028.5	-7952000.0	37190000.0	-1097.0
294.47	9044.0	-21081.8	12874.0	-9020000.0	37350000.0	-913.0
294.48	8247.4	-19575.5	12937.0	-8528000.0	37720000.0	-968.0
294.49	8524.3	-19795.5	12248.6	-8476000.0	35520000.0	-862.0
294.50	7733.5	-18294.3	12306.4	-7987000.0	35880000.0	-915.0
294.51	1616.4	-5915.2	4746.9	-2405000.0	6403000.0	31.0
294.52	919.7	-4480.3	4137.2	-1810000.0	4729000.0	63.0
294.53	1668.0	-6623.4	4996.7	-2627000.0	6477000.0	212.0
294.54	918.1	-5184.3	4463.1	-2029000.0	4804000.0	235.0
294.55	906.0	-5559.9	5673.3	-2299000.0	6478000.0	-51.0
294.56	210.3	-4125.7	5065.5	-1705000.0	4803000.0	-22.0
294.57	1872.9	-6034.6	6945.3	-2412000.0	4919000.0	109.0
294.58	1194.1	-4600.4	6288.4	-1818000.0	3256000.0	154.0
294.59	11083.5	-26649.0	13519.2	-11400000.0	49420000.0	-1008.0
294.60	10547.5	-25323.3	12891.3	-10850000.0	47610000.0	-962.0
294.61	8867.8	-21632.0	11362.6	-9219000.0	38690000.0	-747.0
294.62	8415.8	-20345.2	10633.2	-8677000.0	36840000.0	-696.0
294.63	9348.5	-22735.0	11745.2	-9575000.0	38270000.0	-593.0
294.64	8821.8	-21432.3	11120.0	-9025000.0	36450000.0	-552.0
294.65	8535.0	-21558.8	12196.9	-9213000.0	38450000.0	-803.0
294.66	8025.3	-20286.4	11613.2	-8673000.0	36590000.0	-774.0
294.67	8952.7	-21545.6	13388.0	-9160000.0	37390000.0	-639.0
294.68	8634.7	-20454.6	12930.4	-8678000.0	35360000.0	-642.0
294.69	-100.7	-2434.7	4315.0	-1252000.0	7776000.0	-656.0
294.70	-654.2	-1110.3	3708.2	-695644.0	5959000.0	-615.0
294.71	-907.5	-1125.1	4271.2	-816838.0	8465000.0	-872.0
294.72	-1469.8	138.8	3673.8	-285202.0	6695000.0	-831.0

294.73	-842.2	-2039.6	5280.2	-1129000.0	7909000.0	-766.0
294.74	-1604.6	-536.9	4678.7	-510534.0	6306000.0	-727.0
294.75	-250.8	-2239.7	6665.4	-1145000.0	6712000.0	-571.0
294.76	-974.0	-764.4	6031.6	-535908.0	5083000.0	-524.0
294.77	9915.1	-23616.4	12365.7	-10440000.0	50180000.0	-1578.0
294.78	9498.7	-22344.3	11603.6	-9900000.0	48310000.0	-1514.0
294.79	7527.1	-18410.4	10231.7	-8181000.0	39690000.0	-1334.0
294.80	7043.9	-17153.1	9611.2	-7647000.0	37820000.0	-1291.0
294.81	6709.8	-17062.1	10133.1	-7730000.0	40380000.0	-1558.0
294.82	6223.5	-15801.6	9518.5	-7194000.0	38510000.0	-1514.0
294.83	7184.2	-18369.0	11162.9	-8182000.0	39450000.0	-1440.0
294.84	6722.6	-17130.6	10557.7	-7655000.0	37530000.0	-1400.0
294.85	7551.4	-18382.2	12593.0	-8130000.0	38440000.0	-1264.0
294.86	7073.8	-17121.8	11950.5	-7596000.0	36560000.0	-1214.0
294.87	11297.0	-9497.9	6355.0	-4194000.0	17170000.0	1243.0
294.88	10730.8	-8176.1	5720.2	-3638000.0	15390000.0	1294.0
294.89	14475.9	-11060.0	7155.8	-4901000.0	20670000.0	1741.0
294.90	13887.9	-9704.1	6488.7	-4334000.0	18930000.0	1794.0
294.91	10881.2	-9410.4	7154.5	-4183000.0	17020000.0	1192.0
294.92	10223.6	-8010.6	6561.3	-3599000.0	15310000.0	1234.0
294.93	11479.8	-9631.7	8754.5	-4202000.0	15660000.0	1314.0
294.94	10917.0	-8299.8	8096.4	-3643000.0	13890000.0	1365.0
294.95	11668.2	-10252.8	6371.1	-4440000.0	16980000.0	1269.0
294.96	10904.3	-8753.2	6387.0	-3951000.0	17360000.0	1217.0
294.97	11149.7	-8946.0	5698.1	-3890000.0	15180000.0	1320.0
294.98	10306.8	-7403.9	5744.6	-3386000.0	15610000.0	1269.0
294.99	11915.5	-10753.4	6374.6	-4603000.0	16860000.0	1278.0
294.100	10628.6	-8243.5	6403.5	-3785000.0	17490000.0	1199.0
294.101	11384.0	-9457.6	5739.3	-4056000.0	15050000.0	1330.0
294.102	10022.9	-6885.9	5757.3	-3217000.0	15750000.0	1252.0
294.103	14839.3	-11825.6	7197.8	-5150000.0	20480000.0	1757.0
294.104	14058.1	-10288.9	7174.3	-4649000.0	20880000.0	1716.0
294.105	14296.7	-10472.2	6471.3	-4584000.0	18730000.0	1811.0
294.106	13497.6	-8926.4	6455.3	-4080000.0	19150000.0	1769.0
294.107	11308.1	-10185.7	7120.8	-4436000.0	16810000.0	1219.0
294.108	10445.1	-8625.1	7183.0	-3926000.0	17250000.0	1166.0
294.109	10657.9	-8794.9	6532.4	-3856000.0	15090000.0	1261.0
294.110	9787.1	-7226.2	6591.6	-3343000.0	15530000.0	1207.0
294.111	11872.9	-10380.8	8729.4	-4446000.0	15480000.0	1340.0
294.112	11079.4	-8876.8	8779.5	-3956000.0	15850000.0	1287.0
294.113	11335.8	-9071.9	8078.2	-3895000.0	13680000.0	1390.0
294.114	10492.5	-7522.2	8112.6	-3389000.0	14110000.0	1340.0
294.115	11434.9	-10631.4	6828.0	-4549000.0	17200000.0	1544.0
294.116	10830.8	-9268.3	6163.1	-3980000.0	15460000.0	1584.0
294.117	11187.9	-11314.4	7450.3	-4756000.0	17330000.0	1658.0
294.118	10648.4	-9976.4	6725.1	-4196000.0	15570000.0	1714.0
294.119	14601.5	-12166.8	7596.9	-5247000.0	20730000.0	2030.0
294.120	13861.5	-10777.0	7066.2	-4666000.0	19030000.0	2049.0
294.121	10981.1	-10492.2	7567.5	-4522000.0	17100000.0	1503.0
294.122	10303.0	-9074.7	6966.6	-3933000.0	15400000.0	1535.0
294.123	11684.9	-10736.7	9118.4	-4550000.0	15690000.0	1607.0
294.124	11074.7	-9369.9	8460.2	-3979000.0	13960000.0	1649.0
294.125	10287.0	-7594.9	5947.8	-3570000.0	17980000.0	881.0
294.126	9770.6	-6277.4	5279.1	-3016000.0	16160000.0	923.0
294.127	9431.6	-6199.5	5843.8	-3102000.0	18710000.0	666.0
294.128	8950.5	-4931.7	5200.0	-2565000.0	16840000.0	720.0
294.129	13609.0	-9180.2	6601.8	-4288000.0	21360000.0	1360.0
294.130	13118.7	-7911.7	5937.8	-3752000.0	19510000.0	1409.0
294.131	9901.4	-7477.9	6771.6	-3547000.0	17810000.0	799.0
294.132	9445.1	-6249.1	6168.4	-3023000.0	15890000.0	840.0
294.133	10343.7	-7601.5	8397.4	-3530000.0	16650000.0	937.0
294.134	9835.8	-6282.7	7714.7	-2976000.0	14820000.0	975.0

294.135	-3498.6	-11503.3	7206.8	-4860000.0	17490000.0	-2362.0
294.136	-3944.2	-10283.9	6599.6	-4340000.0	15560000.0	-2319.0
294.137	-5010.7	-13805.0	8116.4	-5818000.0	21010000.0	-3028.0
294.138	-5457.8	-12582.7	7507.4	-5296000.0	19080000.0	-2987.0
294.139	-3796.9	-11531.7	8193.5	-4885000.0	17160000.0	-2460.0
294.140	-4254.5	-10307.2	7597.0	-4362000.0	15240000.0	-2418.0
294.141	-3512.1	-11453.6	9521.2	-4805000.0	16280000.0	-2271.0
294.142	-3921.7	-10215.7	8827.3	-4278000.0	14370000.0	-2228.0
294.143	-3105.9	-12249.7	7171.2	-5104000.0	17310000.0	-2332.0
294.144	-3880.9	-10764.2	7236.0	-4620000.0	17650000.0	-2390.0
294.145	-3562.7	-11023.0	6571.6	-4580000.0	15390000.0	-2290.0
294.146	-4335.9	-9536.0	6633.0	-4096000.0	15740000.0	-2349.0
294.147	-2843.1	-12748.0	7147.1	-5266000.0	17190000.0	-2312.0
294.148	-4140.6	-10265.7	7256.5	-4457000.0	17770000.0	-2410.0
294.149	-3300.3	-11521.4	6547.8	-4743000.0	15280000.0	-2271.0
294.150	-4598.0	-9037.5	6656.9	-3933000.0	15850000.0	-2369.0
294.151	-4618.0	-14551.6	8080.6	-6061000.0	20830000.0	-2999.0
294.152	-5385.6	-13070.9	8140.6	-5579000.0	21160000.0	-3057.0
294.153	-5078.7	-13319.9	7481.3	-5536000.0	18910000.0	-2958.0
294.154	-5850.3	-11837.2	7544.4	-5053000.0	19250000.0	-3016.0
294.155	-3403.7	-12279.9	8158.6	-5129000.0	16980000.0	-2431.0
294.156	-4190.6	-10782.2	8228.5	-4640000.0	17340000.0	-2491.0
294.157	-3863.0	-11053.6	7562.5	-4605000.0	15060000.0	-2388.0
294.158	-4650.5	-9556.9	7633.8	-4117000.0	15420000.0	-2448.0
294.159	-3119.9	-12200.7	9490.2	-5048000.0	16100000.0	-2242.0
294.160	-3872.8	-10685.3	9482.3	-4554000.0	16470000.0	-2298.0
294.161	-3530.0	-10963.2	8796.3	-4522000.0	14200000.0	-2198.0
294.162	-4311.0	-9469.6	8857.5	-4035000.0	14550000.0	-2258.0
294.163	-2676.7	-13240.2	7629.7	-5433000.0	16810000.0	-2002.0
294.164	-3187.9	-11970.5	7105.2	-4892000.0	14950000.0	-1990.0
294.165	-2237.3	-14255.1	7983.7	-5756000.0	16480000.0	-1860.0
294.166	-2859.0	-12873.2	7395.8	-5179000.0	14720000.0	-1837.0
294.167	-4169.7	-15538.1	8532.9	-6391000.0	20300000.0	-2678.0
294.168	-4742.0	-14225.6	7968.6	-5836000.0	18500000.0	-2641.0
294.169	-3031.1	-13201.1	8667.7	-5433000.0	16520000.0	-2109.0
294.170	-3581.7	-11871.7	8085.6	-4873000.0	14690000.0	-2093.0
294.171	-2357.2	-13393.7	9749.1	-5453000.0	15300000.0	-1905.0
294.172	-2894.5	-12075.8	9154.9	-4898000.0	13470000.0	-1883.0
294.173	-4625.0	-9551.7	7021.7	-4207000.0	18440000.0	-2678.0
294.174	-5079.1	-8317.8	6420.5	-3682000.0	16520000.0	-2636.0
294.175	-5421.6	-8199.3	6950.5	-3754000.0	19100000.0	-2895.0
294.176	-5867.9	-6974.7	6347.0	-3232000.0	17170000.0	-2850.0
294.177	-6147.7	-11852.1	7939.0	-5163000.0	21970000.0	-3343.0
294.178	-6601.1	-10622.4	7338.5	-4639000.0	20050000.0	-3299.0
294.179	-4958.0	-9517.5	7992.1	-4210000.0	18140000.0	-2783.0
294.180	-5414.6	-8283.4	7395.4	-3684000.0	16220000.0	-2742.0
294.181	-4715.7	-9422.9	9363.2	-4123000.0	17310000.0	-2585.0
294.182	-5160.5	-8191.5	8735.8	-3599000.0	15380000.0	-2541.0
294.183	3704.8	-7586.4	-2020.1	-3170000.0	7325000.0	424.0
294.184	3327.9	-6781.1	-2508.6	-2812000.0	5468000.0	461.0
294.185	2897.9	-6773.4	-1107.3	-2881000.0	7300000.0	324.0
294.186	2334.6	-5699.7	-1624.7	-2424000.0	5590000.0	359.0
294.187	6055.7	-11461.0	-5954.2	-4685000.0	7614000.0	901.0
294.188	5502.0	-10421.2	-6462.8	-4242000.0	5897000.0	933.0
294.189	3696.6	-7588.7	185.1	-3141000.0	6298000.0	525.0
294.190	3159.0	-6558.2	-330.8	-2700000.0	4573000.0	564.0
294.191	12216.4	-24938.3	4995.3	-10890000.0	50340000.0	-443.0
294.192	11730.5	-23712.0	4421.9	-10370000.0	48450000.0	-406.0
294.193	9689.2	-19747.4	3106.5	-8642000.0	39920000.0	-233.0
294.194	9206.3	-18524.1	2531.2	-8121000.0	38020000.0	-195.0
294.195	9316.5	-19654.7	4096.7	-8624000.0	39610000.0	-325.0
294.196	8841.0	-18433.2	3518.6	-8103000.0	37700000.0	-289.0

294.197	10230.2	-19542.9	-1484.7	-8596000.0	40910000.0	227.0
294.198	9754.9	-18343.4	-2047.8	-8084000.0	39000000.0	261.0
294.199	9725.2	-19679.9	5314.5	-8581000.0	38780000.0	-147.0
294.200	9222.9	-18452.6	4741.6	-8059000.0	36890000.0	-101.0
294.201	12419.0	-9233.9	-1077.2	-4149000.0	18420000.0	2021.0
294.202	12084.7	-8317.7	-1606.8	-3743000.0	16440000.0	2062.0
294.203	15758.8	-10796.0	-602.4	-4859000.0	21820000.0	2552.0
294.204	15308.4	-9636.0	-1167.3	-4359000.0	19900000.0	2597.0
294.205	12034.1	-9116.5	-86.4	-4120000.0	18100000.0	1935.0
294.206	11650.7	-8096.6	-628.7	-3674000.0	16150000.0	1977.0
294.207	14566.6	-12634.4	-5099.9	-5481000.0	18780000.0	2498.0
294.208	15052.4	-13081.5	-5458.9	-5588000.0	16250000.0	2542.0
294.209	12539.1	-9314.0	1133.6	-4146000.0	17230000.0	2111.0
294.210	12308.9	-8620.6	630.4	-3825000.0	15210000.0	2165.0
294.211	-2641.4	-10948.3	155.5	-4703000.0	18840000.0	-1638.0
294.212	-3085.0	-9786.9	-405.9	-4204000.0	16910000.0	-1605.0
294.213	-4222.4	-13088.7	1027.8	-5601000.0	22380000.0	-2303.0
294.214	-4681.0	-11893.3	458.0	-5089000.0	20450000.0	-2271.0
294.215	-3013.0	-10851.2	1151.3	-4682000.0	18520000.0	-1737.0
294.216	-3470.2	-9665.8	587.1	-4175000.0	16600000.0	-1703.0
294.217	-880.7	-13216.2	-4051.6	-5595000.0	19220000.0	-1164.0
294.218	-1041.9	-12709.8	-4513.6	-5347000.0	17190000.0	-1127.0
294.219	-2542.4	-11019.8	2359.0	-4696000.0	17680000.0	-1538.0
294.220	-3034.2	-9766.9	1779.5	-4163000.0	15780000.0	-1503.0
294.221	1155.0	-4478.9	4316.8	-1943000.0	6800000.0	-324.0
294.222	614.8	-3175.2	3713.8	-1393000.0	4971000.0	-283.0
294.223	394.3	-4085.5	5296.0	-1821000.0	6944000.0	-423.0
294.224	-366.4	-2575.7	4690.6	-1198000.0	5336000.0	-383.0
294.225	1131.2	-4428.9	4250.8	-1928000.0	6880000.0	-331.0
294.226	655.1	-3165.1	3642.9	-1391000.0	4980000.0	-293.0
294.227	1029.3	-4326.2	6686.6	-1849000.0	5705000.0	-248.0
294.228	279.4	-2830.8	6052.5	-1232000.0	4104000.0	-200.0
294.229	10771.2	-25333.9	12667.8	-11000000.0	49610000.0	-1269.0
294.230	10201.2	-23975.2	12043.2	-10430000.0	47830000.0	-1233.0
294.231	8505.4	-20230.8	10483.0	-8784000.0	38990000.0	-1016.0
294.232	7972.8	-18916.2	9868.6	-8230000.0	37160000.0	-979.0
294.233	8129.6	-20142.6	11401.1	-8769000.0	38770000.0	-1113.0
294.234	7581.7	-18826.2	10830.2	-8213000.0	36930000.0	-1078.0
294.235	8513.1	-20188.5	10383.3	-8773000.0	39020000.0	-1021.0
294.236	7992.8	-18870.8	9758.4	-8218000.0	37180000.0	-987.0
294.237	8751.8	-20364.4	12715.2	-8795000.0	37490000.0	-928.0
294.238	8195.8	-19022.3	12092.5	-8231000.0	35690000.0	-888.0
294.239	11283.7	-9433.2	6231.1	-4177000.0	17220000.0	1225.0
294.240	10808.0	-8165.0	5549.7	-3641000.0	15380000.0	1281.0
294.241	14533.8	-11033.2	6983.5	-4898000.0	20670000.0	1726.0
294.242	14012.8	-9736.3	6331.7	-4351000.0	18860000.0	1780.0
294.243	10953.3	-9388.8	6993.0	-4181000.0	17010000.0	1175.0
294.244	10381.8	-8064.6	6414.8	-3624000.0	15210000.0	1216.0
294.245	11343.7	-9420.5	6076.7	-4178000.0	17200000.0	1224.0
294.246	10793.2	-8095.8	5419.7	-3622000.0	15420000.0	1277.0
294.247	11525.4	-9592.6	8570.7	-4195000.0	15670000.0	1297.0
294.248	10997.8	-8287.9	7924.0	-3645000.0	13870000.0	1351.0
294.249	-3510.0	-11445.2	7092.2	-4844000.0	17590000.0	-2371.0
294.250	-3956.9	-10228.2	6488.8	-4324000.0	15660000.0	-2327.0
294.251	-5007.8	-13757.8	7992.7	-5805000.0	21090000.0	-3037.0
294.252	-5467.2	-12528.2	7393.9	-5281000.0	19170000.0	-2995.0
294.253	-3798.3	-11484.6	8075.1	-4872000.0	17240000.0	-2467.0
294.254	-4249.7	-10264.1	7475.7	-4351000.0	15320000.0	-2425.0
294.255	-3507.3	-11416.4	7011.4	-4836000.0	17640000.0	-2375.0
294.256	-3955.5	-10195.5	6406.1	-4315000.0	15710000.0	-2332.0
294.257	-3559.4	-11365.5	9421.5	-4777000.0	16400000.0	-2277.0
294.258	-3957.3	-10136.6	8723.5	-4254000.0	14490000.0	-2233.0

294.401	-2473.0	-14189.2	3324.6	-4868000.0	27050000.0	3657.0
294.402	516.8	-18742.2	5859.5	-6575000.0	32780000.0	3364.0
294.403	-1276.1	-9184.7	16436.8	-3182000.0	29150000.0	1867.0
294.404	1731.0	-13779.8	18973.1	-4902000.0	34870000.0	1587.0
294.405	656.0	-2322.5	-10814.6	-1653000.0	-20500000.0	-2202.0
294.406	456.5	-1365.8	-8552.1	-1275000.0	-13070000.0	-2581.0
294.407	2006.1	2809.2	1263.0	227903.0	-18020000.0	-3062.0
294.408	312.5	5226.6	5091.8	1145000.0	-9851000.0	-3473.0
294.409	-2330.3	-14433.3	-493.2	-4900000.0	27170000.0	3891.0
294.410	669.1	-19002.3	2038.7	-6611000.0	32890000.0	3603.0
294.411	-1445.0	-8897.6	20267.4	-3136000.0	29050000.0	1618.0
294.412	1561.9	-13497.3	22805.3	-4858000.0	34760000.0	1339.0
294.413	1282.4	-4564.9	-14173.2	-2467000.0	-20240000.0	-1981.0
294.414	1564.3	-4248.4	-11972.1	-2326000.0	-13150000.0	-2353.0
294.415	3141.8	461.1	4741.9	-720481.0	-18300000.0	-3341.0
294.416	1344.9	2995.1	8667.0	251379.0	-10070000.0	-3727.0
294.417	-5493.0	-9080.0	2664.1	-3362000.0	21150000.0	2734.0
294.418	-3388.0	-12786.5	5364.6	-4767000.0	27790000.0	2360.0
294.419	-6224.1	-2991.5	16388.9	-1282000.0	25380000.0	1069.0
294.420	-4173.4	-6716.4	19161.4	-2691000.0	32030000.0	701.0
294.421	1106.8	-3806.1	-10360.3	-1812000.0	-12390000.0	-1485.0
294.422	256.2	-1825.5	-8431.6	-1062000.0	-4395000.0	-1927.0
294.423	5715.5	-2698.3	891.7	-1442000.0	-12270000.0	-2255.0
294.424	7086.4	-4188.4	3791.8	-1987000.0	-6292000.0	-2647.0
294.425	-4944.6	-9506.4	-1296.6	-3459000.0	20810000.0	2918.0
294.426	-2838.9	-13221.9	1407.2	-4867000.0	27440000.0	2547.0
294.427	-6844.8	-2513.5	20393.8	-1163000.0	25790000.0	873.0
294.428	-4821.4	-6231.3	23226.2	-2572000.0	32410000.0	483.0
294.429	1635.0	-6023.5	-13738.3	-2626000.0	-11920000.0	-1346.0
294.430	1692.3	-5317.2	-11722.5	-2348000.0	-4612000.0	-1768.0
294.431	6502.0	-4689.9	4532.2	-2250000.0	-12320000.0	-2467.0
294.432	8012.2	-6401.0	7473.4	-2876000.0	-6451000.0	-2858.0
294.433	-1236.1	-19556.7	-17164.8	-7160000.0	8289000.0	3213.0
294.434	378.7	-20881.1	-15111.4	-7651000.0	14540000.0	2786.0
294.435	5235.0	-7480.4	26460.3	-3126000.0	14240000.0	-1505.0
294.436	6899.7	-9518.9	29627.6	-3870000.0	19930000.0	-1894.0
294.437	413.8	-18576.3	-21514.3	-7286000.0	-5215000.0	853.0
294.438	1472.1	-19132.4	-19494.7	-7486000.0	1422000.0	440.0
294.439	7714.0	-7601.0	22074.3	-3489000.0	-345981.0	-2565.0
294.440	7367.9	-7062.0	25789.9	-3272000.0	6798000.0	-2949.0
294.441	-1147.0	-19341.7	-17476.7	-7225000.0	5781000.0	2890.0
294.442	460.4	-20646.8	-15434.1	-7708000.0	12040000.0	2465.0
294.443	3946.9	-5744.9	26638.1	-2590000.0	12700000.0	-1673.0
294.444	1728.7	-2774.8	30856.7	-1466000.0	21180000.0	-2124.0
294.445	286.1	-18705.3	-21247.2	-7190000.0	-2650000.0	1173.0
294.446	1356.0	-19286.7	-19219.7	-7404000.0	3993000.0	744.0
294.447	8269.4	-8390.9	22099.8	-3671000.0	1724000.0	-2394.0
294.448	10186.8	-10798.0	25211.2	-4550000.0	7255000.0	-2737.0
294.449	-393.0	-25296.2	-28562.1	-9345000.0	10840000.0	3455.0
294.450	1562.4	-27075.3	-26487.0	-9998000.0	16810000.0	3059.0
294.451	6579.5	-13012.0	39225.4	-5452000.0	15060000.0	-2068.0
294.452	8308.5	-15099.8	42354.2	-6215000.0	20720000.0	-2458.0
294.453	2015.1	-25270.7	-32929.1	-9767000.0	-3467000.0	1400.0
294.454	3430.6	-26270.1	-30961.5	-10120000.0	2911000.0	1031.0
294.455	9513.7	-13092.5	34503.5	-5807000.0	42215.0	-3437.0
294.456	10629.8	-14384.4	37807.7	-6271000.0	6127000.0	-3837.0
294.457	-117.4	-25333.6	-28865.6	-9495000.0	8158000.0	3159.0
294.458	1794.7	-27047.2	-26803.9	-10120000.0	14160000.0	2770.0
294.459	5931.7	-12102.4	39229.3	-5224000.0	13060000.0	-2226.0
294.460	6247.3	-12396.3	42764.0	-5318000.0	19710000.0	-2641.0
294.461	1880.1	-25413.9	-32655.0	-9708000.0	-747977.0	1558.0
294.462	3488.5	-26726.6	-30597.4	-10180000.0	5446000.0	1176.0

294.463	9786.4	-13504.0	34578.3	-5856000.0	2337000.0	-3226.0
294.464	11581.0	-15674.3	37699.0	-6647000.0	7934000.0	-3624.0
294.529	-3573.7	-4503.0	-5839.2	-1611000.0	2274000.0	2158.0
294.530	3744.2	-14809.0	2151.4	-5541000.0	22950000.0	862.0
294.531	-1685.6	-614.2	6748.6	-331836.0	4459000.0	466.0
294.532	5107.5	-11367.5	16769.5	-4353000.0	24340000.0	-778.0
294.533	-1489.1	-4208.0	-9540.8	-1953000.0	-12050000.0	68.0
294.534	811.5	-6264.5	-2066.0	-2688000.0	11250000.0	-1129.0
294.535	1421.3	-951.8	1960.2	-792094.0	-10590000.0	-831.0
294.536	2046.5	-2618.0	13577.5	-1393000.0	12900000.0	-2169.0
294.537	-3083.4	-6521.1	-9285.8	-2350000.0	2800000.0	2289.0
294.538	3165.4	-14208.7	-1714.3	-5272000.0	23810000.0	977.0
294.539	-1201.0	-2363.3	10553.4	-1061000.0	4647000.0	299.0
294.540	4395.2	-10597.8	20913.2	-4123000.0	24740000.0	-1009.0
294.541	-1126.7	-6145.8	-12968.3	-2661000.0	-11490000.0	298.0
294.542	676.4	-6567.1	-5832.3	-2761000.0	11800000.0	-949.0
294.543	1911.4	-2379.7	5624.2	-1400000.0	-10470000.0	-1129.0
294.544	1675.7	-2414.2	17645.3	-1373000.0	13140000.0	-2426.0
294.545	-3378.3	-4415.5	-6124.9	-1711000.0	-377018.0	1865.0
294.546	2906.0	-13242.0	1970.4	-5073000.0	21060000.0	536.0
294.547	-1689.3	-517.8	6572.2	-405644.0	2000000.0	318.0
294.548	1982.3	-8056.4	17322.8	-3254000.0	24830000.0	-1108.0
294.549	-1681.9	-4293.4	-9375.1	-1857000.0	-9332000.0	324.0
294.550	1037.3	-6881.2	-1957.0	-2817000.0	13710000.0	-1028.0
294.551	1392.0	-1172.7	2199.4	-761863.0	-8057000.0	-564.0
294.552	5159.3	-5777.0	12869.8	-2442000.0	12430000.0	-1923.0
294.553	-2881.9	-6459.5	-9572.6	-2466000.0	178734.0	1961.0
294.554	2538.7	-12821.0	-2020.5	-4870000.0	21700000.0	676.0
294.555	-1264.4	-2197.5	10393.9	-1109000.0	2232000.0	154.0
294.556	1224.1	-7409.1	21526.0	-3069000.0	25300000.0	-1278.0
294.557	-1368.9	-6172.8	-12794.9	-2560000.0	-8670000.0	437.0
294.558	761.1	-6956.9	-5733.9	-2809000.0	14410000.0	-893.0
294.559	1870.8	-2622.6	5881.8	-1378000.0	-7922000.0	-844.0
294.560	5881.6	-7484.2	16715.9	-3139000.0	12200000.0	-2135.0
691.1	377.1	260.5	2805.7	-120884.0	7812000.0	721.0
691.2	605.1	196.3	1924.9	-89801.0	5445000.0	447.0
691.3	1198.9	166.2	1938.2	-78300.0	7265000.0	557.0
691.4	1412.7	-182.8	1089.0	65125.0	4898000.0	282.0
691.5	237.7	283.7	5845.8	-122578.0	5825000.0	864.0
691.6	464.4	191.0	4965.3	-80437.0	3457000.0	589.0
691.7	-363.7	-242.9	13360.9	82183.0	62610000.0	2621.0
691.8	-150.6	-165.8	12509.5	58631.0	60240000.0	2346.0
691.9	-194.1	-151.2	10775.1	43008.0	49090000.0	2150.0
691.10	24.7	-98.1	9912.8	28911.0	46720000.0	1877.0
691.11	604.6	-96.1	9951.0	28169.0	48540000.0	1981.0
691.12	817.1	-499.6	9103.1	196867.0	46180000.0	1703.0
691.13	-324.7	-192.0	13802.6	64733.0	47100000.0	2297.0
691.14	-113.4	-156.3	12950.1	57279.0	44740000.0	2020.0
691.15	335.5	216.8	3789.4	-102543.0	13140000.0	915.0
691.16	419.4	304.5	1820.4	-139226.0	2487000.0	527.0
691.17	558.5	146.8	2914.9	-69005.0	10770000.0	640.0
691.18	647.4	245.9	941.1	-110666.0	119485.0	254.0
691.19	308.7	188.8	4444.4	-90853.0	16690000.0	1044.0
691.20	450.2	334.3	1160.8	-151900.0	-1064000.0	399.0
691.21	531.7	110.8	3568.6	-53901.0	14320000.0	768.0
691.22	678.6	278.8	281.1	-124496.0	-3431000.0	125.0
691.23	1150.8	104.2	2930.6	-52585.0	12590000.0	749.0
691.24	1246.7	227.0	946.3	-103561.0	1939000.0	365.0
691.25	1369.0	-272.2	2078.2	101647.0	10220000.0	473.0
691.26	1463.6	-96.5	89.9	29863.0	-427711.0	89.0
691.27	192.8	243.4	6834.3	-105532.0	11150000.0	1057.0
691.28	280.2	320.7	4860.7	-138362.0	498632.0	670.0

691.29	419.6	140.7	5953.3	-59594.0	8783000.0	782.0
691.30	503.1	239.5	3986.4	-100756.0	-1868000.0	395.0
691.31	-402.9	-276.8	14342.0	97052.0	67930000.0	2815.0
691.32	-331.2	-228.0	12387.4	74010.0	57280000.0	2427.0
691.33	-189.3	-237.0	13489.8	88498.0	65560000.0	2539.0
691.34	-117.8	-139.7	11536.0	46017.0	54910000.0	2151.0
691.35	-253.4	-197.7	12403.1	64619.0	57970000.0	2474.0
691.36	-126.5	-89.2	9137.4	15817.0	40210000.0	1828.0
691.37	-40.0	-178.5	11547.8	64122.0	55600000.0	2198.0
691.38	93.5	-20.4	8274.5	-4270.0	37850000.0	1553.0
691.39	-230.0	-170.6	11753.1	52824.0	54420000.0	2345.0
691.40	-153.9	-113.3	9793.1	26272.0	43760000.0	1957.0
691.41	-12.6	-135.8	10892.0	46173.0	52050000.0	2069.0
691.42	65.7	-51.5	8930.3	8996.0	41400000.0	1683.0
691.43	564.5	-179.5	10934.1	62900.0	53870000.0	2175.0
691.44	649.5	-27.4	8961.8	-817.0	43220000.0	1788.0
691.45	770.0	-563.9	10097.6	224849.0	51500000.0	1897.0
691.46	864.1	-436.2	8109.0	169365.0	40850000.0	1510.0
691.47	-361.1	-223.6	14779.9	78732.0	52430000.0	2492.0
691.48	-288.2	-160.1	12825.1	50688.0	41780000.0	2103.0
691.49	-149.7	-209.6	13926.7	79973.0	50060000.0	2214.0
691.50	-73.0	-111.3	11968.8	37553.0	39410000.0	1825.0
691.51	1353.4	-973.6	-6352.5	418448.0	9471000.0	-54.0
691.52	1547.1	-1174.3	-7162.0	503146.0	7104000.0	-338.0
691.53	1925.9	-1718.6	-12322.7	748859.0	10580000.0	-583.0
691.54	2127.9	-1910.5	-13149.2	827624.0	8209000.0	-858.0
691.55	2131.6	-1346.4	-7122.3	566011.0	8923000.0	-220.0
691.56	2333.7	-1537.9	-7944.6	647061.0	6556000.0	-504.0
691.57	1230.7	-1123.8	-3331.2	477425.0	7483000.0	94.0
691.58	1421.0	-1303.8	-4138.2	553963.0	5116000.0	-192.0
691.59	674.6	-1982.8	4106.2	793729.0	64260000.0	1849.0
691.60	868.6	-2187.3	3283.6	875120.0	61900000.0	1569.0
691.61	841.5	-1820.1	1526.2	731441.0	50750000.0	1379.0
691.62	1029.0	-1950.8	713.7	788308.0	48380000.0	1099.0
691.63	1445.1	-2443.7	-4505.0	1013000.0	51850000.0	883.0
691.64	1638.7	-2555.2	-5325.5	1062000.0	49490000.0	598.0
691.65	1617.2	-2174.5	752.4	871713.9	50200000.0	1208.0
691.66	1820.0	-2309.6	-79.8	930063.0	47830000.0	928.0
691.67	714.1	-1960.1	4561.8	787032.0	48760000.0	1528.0
691.68	916.3	-2038.4	3719.4	822848.1	46390000.0	1245.0
691.69	-563.4	-1216.3	2684.7	463519.0	9471000.0	1486.0
691.70	-345.8	-1013.1	1841.0	389315.0	7104000.0	1205.0
691.71	-1188.2	-1933.2	2618.3	752944.0	10580000.0	1983.0
691.72	-970.0	-1731.6	1777.1	677882.0	8210000.0	1699.0
691.73	217.0	-710.6	1923.9	265816.0	8924000.0	1318.0
691.74	436.7	-501.9	1078.9	188771.0	6557000.0	1038.0
691.75	-705.5	-1203.4	5725.0	466120.0	7483000.0	1634.0
691.76	-496.1	-1012.0	4893.1	395414.0	5116000.0	1353.0
691.77	-1324.9	-1596.8	13259.7	627988.0	64260000.0	3409.0
691.78	-1118.8	-1415.3	12427.7	561748.0	61900000.0	3128.0
691.79	-1143.0	-1527.1	10658.2	595542.0	50750000.0	2935.0
691.80	-928.8	-1311.4	9816.7	517501.0	48380000.0	2655.0
691.81	-1768.7	-2239.0	10591.5	883463.9	51850000.0	3436.0
691.82	-1560.1	-2000.4	9760.0	796350.0	49490000.0	3156.0
691.83	-357.9	-922.1	9887.3	364388.0	50200000.0	2756.0
691.84	-149.3	-710.1	9054.1	287513.0	47830000.0	2477.0
691.85	-1287.4	-1487.7	13704.2	588367.0	48760000.0	3080.0
691.86	-1075.4	-1279.9	12865.5	512753.0	46390000.0	2800.0
691.87	-7741.7	-767.3	6023.2	288188.0	21590000.0	1153.0
691.88	-7534.0	-852.9	5179.7	328373.0	19230000.0	873.0
691.89	-10393.6	-958.8	7067.0	366000.0	26110000.0	1292.0
691.90	-10188.5	-1039.4	6226.8	403755.0	23740000.0	1012.0

691.91	-6960.6	-1101.0	5249.1	424898.0	21050000.0	977.0
691.92	-6752.0	-1188.1	4405.1	465493.0	18680000.0	701.0
691.93	-7873.1	-705.6	9052.6	269960.0	19610000.0	1298.0
691.94	-7669.3	-807.6	8216.5	316538.0	17240000.0	1019.0
691.95	-7781.5	-814.3	7002.7	307408.0	26920000.0	1346.0
691.96	-7701.1	-719.3	5043.2	268529.0	16270000.0	958.0
691.97	-7575.4	-898.5	6161.2	347361.0	24550000.0	1067.0
691.98	-7492.0	-807.7	4197.7	309515.0	13900000.0	678.0
691.99	-7805.5	-843.2	7652.3	319860.0	30470000.0	1477.0
691.100	-7673.1	-690.8	4388.6	256626.0	12720000.0	828.0
691.101	-7599.8	-928.6	6812.2	360114.0	28100000.0	1197.0
691.102	-7462.8	-776.1	3541.1	296288.0	10350000.0	550.0
691.103	-10426.7	-987.7	8036.5	378641.0	31430000.0	1486.0
691.104	-10356.2	-910.4	6091.0	345874.0	20780000.0	1097.0
691.105	-10225.9	-1110.2	7206.0	433055.0	29070000.0	1205.0
691.106	-10152.5	-1013.2	5254.7	392408.0	18410000.0	817.0
691.107	-7007.4	-1145.6	6237.3	443616.0	26370000.0	1171.0
691.108	-6922.8	-1053.4	4272.5	405121.0	15720000.0	783.0
691.109	-6793.7	-1236.0	5387.3	485389.0	24010000.0	893.0
691.110	-6711.5	-1141.6	3424.9	446100.0	13350000.0	506.0
691.111	-7912.2	-756.3	10030.9	290853.0	24930000.0	1492.0
691.112	-7834.4	-662.8	8075.8	252175.0	14280000.0	1104.0
691.113	-7707.9	-839.9	9192.3	330317.0	22570000.0	1213.0
691.114	-7629.1	-751.8	7235.9	293350.0	11910000.0	824.0
691.115	-6762.8	-1908.1	-3118.1	792690.0	23250000.0	385.0
691.116	-6568.9	-2023.1	-3937.6	843345.0	20890000.0	101.0
691.117	-6142.9	-2535.2	-9159.3	1077000.0	24360000.0	-129.0
691.118	-5958.2	-2682.2	-9967.7	1138000.0	21990000.0	-422.0
691.119	-9415.1	-2130.9	-2074.2	882259.9	27770000.0	532.0
691.120	-9206.2	-2245.1	-2911.6	932616.0	25400000.0	253.0
691.121	-5972.1	-2309.2	-3908.3	951147.0	22710000.0	208.0
691.122	-5772.1	-2422.2	-4735.3	1001000.0	20340000.0	-75.0
691.123	-6881.4	-1980.0	-110.2	820746.0	21260000.0	534.0
691.124	-6683.6	-2055.9	-938.5	855979.0	18900000.0	250.0
691.125	-8734.4	-448.7	6057.3	153856.0	23250000.0	1906.0
691.126	-8524.6	98.1	5210.7	-58727.0	20890000.0	1622.0
691.127	-9356.5	-1282.8	5978.7	489156.0	24360000.0	2417.0
691.128	-9161.4	-962.3	5175.1	367081.0	21990000.0	2133.0
691.129	-11403.0	399.9	7104.0	-186094.0	27770000.0	2043.0
691.130	-11179.1	719.3	6217.7	-307681.0	25400000.0	1759.0
691.131	-7958.7	320.6	5287.0	-147652.0	22710000.0	1730.0
691.132	-7742.4	587.4	4412.1	-247477.0	20340000.0	1451.0
691.133	-8871.4	-353.0	9090.5	125686.0	21260000.0	2058.0
691.134	-8665.5	233.5	8244.9	-103345.0	18900000.0	1773.0
691.135	8026.8	239.4	5402.8	-109357.0	21590000.0	1452.0
691.136	8240.8	357.4	4555.4	-150225.0	19230000.0	1174.0
691.137	10537.1	176.3	6240.5	-82942.0	26110000.0	1690.0
691.138	10749.4	318.0	5397.5	-133490.0	23740000.0	1413.0
691.139	8818.5	688.1	4610.7	-279527.0	21050000.0	1278.0
691.140	9035.2	733.2	3753.3	-291357.0	18680000.0	1002.0
691.141	7889.0	178.6	8434.4	-78693.0	19610000.0	1592.0
691.142	8101.7	297.1	7587.9	-119673.0	17240000.0	1315.0
691.143	7986.3	203.9	6385.5	-93996.0	26920000.0	1647.0
691.144	8071.1	275.9	4415.8	-125472.0	16270000.0	1256.0
691.145	8200.2	326.3	5537.7	-136175.0	24550000.0	1369.0
691.146	8284.4	410.6	3570.3	-172881.0	13900000.0	979.0
691.147	7956.9	179.9	7043.9	-83590.0	30470000.0	1777.0
691.148	8096.6	314.5	3764.2	-141930.0	12720000.0	1127.0
691.149	8170.8	301.8	6196.1	-125557.0	28100000.0	1498.0
691.150	8314.8	435.4	2910.5	-183588.0	10350000.0	849.0
691.151	10493.0	136.5	7227.8	-65856.0	31430000.0	1885.0
691.152	10578.0	203.8	5257.4	-95542.0	20780000.0	1495.0

691.153	10708.7	283.8	6380.3	-118341.0	29070000.0	1607.0
691.154	10790.2	344.9	4414.0	-145472.0	18410000.0	1217.0
691.155	8772.6	648.2	5600.5	-262306.0	26370000.0	1471.0
691.156	8853.5	765.9	3640.0	-312252.0	15720000.0	1082.0
691.157	8995.5	714.6	4736.1	-282667.0	24010000.0	1196.0
691.158	9072.1	776.8	2777.0	-310268.0	13350000.0	806.0
691.159	7845.1	142.6	9421.7	-63131.0	24930000.0	1787.0
691.160	7929.5	207.6	7452.0	-92209.0	14280000.0	1401.0
691.161	8056.8	259.6	8576.9	-103545.0	22560000.0	1508.0
691.162	8145.7	332.0	6600.4	-134866.0	11910000.0	1120.0
691.163	9046.8	1108.1	-3836.0	-425629.0	23250000.0	674.0
691.164	9256.1	734.4	-4688.3	-270637.0	20890000.0	392.0
691.165	9651.2	-464.6	-9889.0	233564.0	24360000.0	145.0
691.166	9849.9	-883.7	-10713.7	404143.0	21990000.0	-134.0
691.167	11540.2	1330.6	-2955.1	-519666.0	27760000.0	913.0
691.168	11755.8	1324.1	-3816.0	-509288.0	25400000.0	633.0
691.169	9820.8	553.2	-4627.8	-204089.0	22700000.0	507.0
691.170	10024.6	-24.7	-5465.1	29315.0	20340000.0	225.0
691.171	8919.6	971.9	-815.6	-369741.0	21260000.0	820.0
691.172	9124.4	465.9	-1655.7	-164874.0	18900000.0	536.0
691.173	7126.3	-1838.6	5161.9	725592.0	23250000.0	2223.0
691.174	7337.3	-1669.5	4323.9	665392.0	20890000.0	1943.0
691.175	6503.1	-2638.4	5085.8	1048000.0	24360000.0	2724.0
691.176	6717.6	-2368.4	4247.5	950901.0	21990000.0	2442.0
691.177	9649.2	-2035.5	5965.0	809755.0	27770000.0	2464.0
691.178	9859.9	-1856.3	5126.1	747157.0	25400000.0	2184.0
691.179	7908.4	-1315.4	4397.1	522338.0	22710000.0	2055.0
691.180	8111.9	-1076.1	3575.4	433718.0	20340000.0	1773.0
691.181	6981.7	-1831.2	8205.1	729833.0	21260000.0	2369.0
691.182	7192.6	-1599.9	7370.5	646134.0	18900000.0	2090.0
691.183	732.4	-303.4	2252.6	39767.0	7812000.0	465.0
691.184	963.4	-275.1	1377.2	33604.0	5445000.0	187.0
691.185	1534.2	-31.6	1433.0	-60437.0	7265000.0	303.0
691.186	1767.5	-21.8	553.1	-59199.0	4898000.0	27.0
691.187	992.6	-637.4	1865.5	126808.0	7812000.0	280.0
691.188	1224.8	-627.2	988.7	127731.0	5445000.0	-0.8
691.189	594.7	-415.9	5279.2	91303.0	5824000.0	603.0
691.190	825.3	-342.4	4408.0	67144.0	3457000.0	325.0
691.191	-37.9	-1172.8	12842.2	371186.0	62610000.0	2387.0
691.192	180.4	-1106.8	11983.7	351335.0	60240000.0	2114.0
691.193	150.7	-949.2	10229.4	287289.0	49090000.0	1919.0
691.194	368.5	-879.3	9372.0	265860.0	46720000.0	1645.0
691.195	932.6	-576.4	9447.7	145680.0	48540000.0	1755.0
691.196	1161.6	-506.6	8574.9	124353.0	46180000.0	1479.0
691.197	392.7	-1262.3	9847.3	375260.0	49090000.0	1762.0
691.198	614.5	-1189.3	8984.9	352761.0	46720000.0	1486.0
691.199	13.4	-970.6	13259.9	304113.0	47100000.0	2059.0
691.200	227.0	-891.4	12410.5	278466.0	44730000.0	1781.0
691.201	-7371.2	-871.7	5419.1	268558.0	21590000.0	913.0
691.202	-7136.8	-1024.0	4522.0	335167.0	19230000.0	638.0
691.203	-10007.9	-1265.0	6418.5	424233.0	26110000.0	1059.0
691.204	-9787.4	-1222.0	5556.0	413848.0	23740000.0	780.0
691.205	-6549.0	-1002.6	4541.6	327272.0	21050000.0	749.0
691.206	-6323.0	-1037.1	3666.5	347432.0	18680000.0	474.0
691.207	-7123.5	-1159.1	5049.8	338081.0	21590000.0	735.0
691.208	-6900.5	-1147.6	4185.8	337812.0	19230000.0	448.0
691.209	-7513.6	-855.7	8460.2	270007.0	19610000.0	1053.0
691.210	-7283.7	-1033.5	7569.3	345798.0	17240000.0	775.0
691.211	8371.5	-282.8	4865.1	32198.0	21590000.0	1211.0
691.212	8582.8	-79.1	4027.4	-42036.0	19230000.0	932.0
691.213	10887.9	-456.2	5691.3	98459.0	26110000.0	1452.0
691.214	11088.0	-249.4	4868.8	23171.0	23740000.0	1174.0

691.215	9149.0	190.3	4096.1	-148406.0	21050000.0	1041.0
691.216	9369.5	353.1	3242.6	-206545.0	18680000.0	764.0
691.217	8605.5	-488.3	4514.5	72537.0	21590000.0	1034.0
691.218	8820.3	-313.3	3673.1	7757.0	19230000.0	758.0
691.219	8233.8	-379.1	7892.0	77704.0	19610000.0	1349.0
691.220	8451.6	-226.5	7040.7	23905.0	17240000.0	1072.0
691.221	340.7	61.8	2776.2	-36926.0	7812000.0	826.0
691.222	560.5	-81.0	1913.1	26274.0	5445000.0	549.0
691.223	1143.5	-313.3	1950.8	117999.0	7265000.0	657.0
691.224	1350.6	-735.3	1115.8	296430.0	4898000.0	381.0
691.225	310.7	-87.6	2768.0	28042.0	7812000.0	898.0
691.226	520.8	-336.5	1923.0	138807.0	5445000.0	618.0
691.227	199.1	75.8	5819.1	-35689.0	5824000.0	969.0
691.228	415.3	-162.4	4962.3	64930.0	3457000.0	691.0
691.229	-405.1	-367.7	13336.4	141348.0	62610000.0	2727.0
691.230	-195.6	-399.2	12478.7	165117.0	60240000.0	2449.0
691.231	-234.2	-308.4	10750.6	114034.0	49090000.0	2259.0
691.232	-23.3	-400.2	9898.4	160313.0	46720000.0	1980.0
691.233	546.2	-625.9	9971.9	251294.0	48540000.0	2086.0
691.234	757.6	-884.0	9115.6	366100.0	46180000.0	1807.0
691.235	-261.7	-404.4	10728.2	160421.0	49090000.0	2328.0
691.236	-51.9	-555.1	9869.2	232521.0	46720000.0	2049.0
691.237	-364.7	-374.7	13780.0	143560.0	47100000.0	2404.0
691.238	-157.9	-495.4	12924.4	202287.0	44730000.0	2123.0
691.239	-7783.4	-1163.4	5988.1	449625.0	21590000.0	1251.0
691.240	-7579.4	-1221.8	5155.0	483338.0	19230000.0	971.0
691.241	-10436.0	-1348.6	7034.2	525673.0	26110000.0	1389.0
691.242	-10235.7	-1401.4	6203.9	556438.0	23740000.0	1109.0
691.243	-7005.0	-1461.4	5221.0	576121.0	21050000.0	1076.0
691.244	-6799.6	-1522.7	4384.5	609608.0	18680000.0	798.0
691.245	-7814.3	-1353.6	5973.1	534352.0	21590000.0	1319.0
691.246	-7611.0	-1474.2	5142.5	589910.0	19230000.0	1039.0
691.247	-7910.4	-1102.1	9007.5	428721.0	19610000.0	1395.0
691.248	-7713.4	-1239.4	8191.4	494057.0	17240000.0	1118.0
691.249	7981.7	176.5	5393.4	-77006.0	21590000.0	1560.0
691.250	8196.1	285.7	4544.0	-113880.0	19230000.0	1282.0
691.251	10487.0	115.8	6238.7	-51594.0	26110000.0	1797.0
691.252	10704.4	243.8	5385.7	-95321.0	23740000.0	1520.0
691.253	8775.8	570.1	4594.6	-225671.0	21050000.0	1385.0
691.254	8995.0	612.8	3731.6	-235331.0	18680000.0	1109.0
691.255	7952.4	139.9	5383.8	-55838.0	21590000.0	1633.0
691.256	8164.1	315.7	4541.9	-118079.0	19230000.0	1356.0
691.257	7836.6	74.9	8434.9	-31365.0	19610000.0	1704.0
691.258	8052.8	221.5	7584.0	-82506.0	17240000.0	1426.0
691.401	-4958.4	-6498.7	-32617.0	3198000.0	785504.0	-5543.0
691.402	-5794.9	-2383.1	-28933.9	1465000.0	12820000.0	-5240.0
691.403	-6562.0	576.2	-29055.6	-308176.0	7625000.0	-3566.0
691.404	-7409.0	4577.4	-25359.1	-2005000.0	19660000.0	-3265.0
691.405	6380.4	-9621.9	29756.8	4286000.0	-6130000.0	4123.0
691.406	5447.4	-10076.7	33584.2	4353000.0	5902000.0	4488.0
691.407	5180.3	10817.0	32412.8	-4322000.0	709166.0	5891.0
691.408	4275.0	10460.7	36200.7	-4296000.0	12740000.0	6280.0
691.409	-4717.9	-3484.8	-32797.5	1782000.0	678552.0	-5610.0
691.410	-5567.9	516.2	-29098.9	87251.0	12710000.0	-5305.0
691.411	-6802.2	-2142.4	-28863.0	1009000.0	7732000.0	-3519.0
691.412	-7639.5	1952.8	-25177.2	-725172.0	19760000.0	-3216.0
691.413	6708.8	-16481.7	29404.3	6640000.0	-6237000.0	4049.0
691.414	5774.0	-16992.5	33228.0	6728000.0	5795000.0	4413.0
691.415	4871.8	17955.3	32697.6	-6831000.0	815902.0	5902.0
691.416	3968.5	17099.8	36534.2	-6598000.0	12850000.0	6300.0
691.417	-4192.8	-12983.4	-27408.0	5838000.0	3007000.0	-5412.0
691.418	-5035.5	-10490.5	-23724.3	4754000.0	15040000.0	-5111.0

691.419	-5919.7	-1322.4	-23297.7	507041.0	9846000.0	-3446.0
691.420	-6732.6	1470.7	-19708.2	-709884.0	21880000.0	-3145.0
691.421	5620.3	-9691.0	24865.7	4244000.0	-8350000.0	4018.0
691.422	4676.9	-8400.3	28653.8	3600000.0	3681000.0	4370.0
691.423	4583.6	6360.1	27134.6	-2650000.0	-1511000.0	5798.0
691.424	3692.3	7137.8	30805.1	-3072000.0	10520000.0	6143.0
691.425	-3957.8	-12624.0	-27600.5	5478000.0	2900000.0	-5499.0
691.426	-4811.3	-10391.7	-23881.8	4493000.0	14930000.0	-5196.0
691.427	-6153.9	-1429.1	-23069.7	789153.0	9953000.0	-3387.0
691.428	-6974.8	989.5	-19429.0	-278863.0	21980000.0	-3083.0
691.429	5963.4	-14926.9	24349.4	5945000.0	-8457000.0	3935.0
691.430	5037.9	-13943.6	28085.1	5428000.0	3574000.0	4278.0
691.431	4245.5	11023.5	27666.4	-4176000.0	-1404000.0	5835.0
691.432	3327.2	12326.9	31411.8	-4805000.0	10630000.0	6179.0
691.433	376.6	-27556.3	-13728.2	12010000.0	-9615000.0	-4334.0
691.434	-562.0	-24769.7	-9851.9	10790000.0	2417000.0	-4018.0
691.435	-4777.8	20287.2	-2124.8	-8932000.0	13180000.0	2059.0
691.436	-5559.0	22927.2	1435.6	-10090000.0	25220000.0	2383.0
691.437	3640.7	-32063.5	5530.6	13850000.0	-11690000.0	-1294.0
691.438	2656.4	-29978.2	9438.3	12910000.0	342933.0	-984.0
691.439	-414.2	31133.6	14284.5	-13280000.0	11110000.0	4802.0
691.440	-1247.3	31706.7	17890.9	-13620000.0	23140000.0	5184.0
691.441	627.9	-33205.0	-12224.2	14300000.0	-8948000.0	-4292.0
691.442	-315.9	-30438.2	-8344.6	13090000.0	3084000.0	-3972.0
691.443	-4612.1	21739.7	-289.9	-9497000.0	13850000.0	2113.0
691.444	-5339.1	24839.5	3127.9	-10840000.0	25880000.0	2468.0
691.445	3378.6	-26096.0	4080.9	11440000.0	-12360000.0	-1347.0
691.446	2374.7	-23473.1	8043.0	10290000.0	-323829.0	-1037.0
691.447	-874.5	25631.7	13465.5	-11110000.0	10440000.0	4758.0
691.448	-1640.6	27392.5	16849.3	-11920000.0	22470000.0	5123.0
691.449	962.3	-28113.6	-13714.7	11310000.0	-9971000.0	-4620.0
691.450	11.5	-25793.9	-9830.0	10260000.0	2060000.0	-4308.0
691.451	-5667.0	21554.3	-1056.0	-8475000.0	13540000.0	2179.0
691.452	-6458.9	24126.8	2538.8	-9609000.0	25570000.0	2503.0
691.453	4655.5	-42996.4	4247.8	17180000.0	-12050000.0	-1560.0
691.454	3717.3	-42475.0	7980.8	16840000.0	-13513.0	-1247.0
691.455	-1699.3	43924.4	16134.6	-17350000.0	11460000.0	4858.0
691.456	-2587.5	45417.7	19947.6	-18040000.0	23500000.0	5208.0
691.457	1213.0	-34072.1	-12217.9	13710000.0	-9305000.0	-4583.0
691.458	273.0	-32005.5	-8368.5	12760000.0	2727000.0	-4270.0
691.459	-5499.5	23109.4	769.6	-9082000.0	14210000.0	2224.0
691.460	-6254.4	26195.7	4253.9	-10420000.0	26240000.0	2563.0
691.461	4067.1	-31176.8	3680.4	12470000.0	-12710000.0	-1619.0
691.462	3052.7	-28983.9	7651.4	11460000.0	-680376.0	-1315.0
691.463	-2459.1	32488.9	16163.6	-12840000.0	10800000.0	4832.0
691.464	-3255.7	34920.6	19769.2	-13900000.0	22830000.0	5168.0
691.529	-21.4	-10300.5	-14996.9	4611000.0	-15670000.0	-2325.0
691.530	-2989.8	-1173.9	-2337.5	589197.0	24430000.0	-1292.0
691.531	-1690.4	-619.9	-11269.0	149208.0	-8833000.0	-411.0
691.532	-4349.9	11430.9	790.9	-5022000.0	31270000.0	648.0
691.533	3364.9	-10052.7	3860.8	4495000.0	-17750000.0	569.0
691.534	295.9	-11550.8	16536.5	4669000.0	22360000.0	1693.0
691.535	2138.9	9416.9	6505.6	-3815000.0	-10910000.0	2331.0
691.536	-831.1	8543.3	19096.1	-3823000.0	29200000.0	3585.0
691.537	174.8	-8765.0	-15047.4	3796000.0	-15780000.0	-2411.0
691.538	-2853.9	-1536.1	-2284.2	439486.0	24330000.0	-1361.0
691.539	-1968.4	-567.1	-10929.9	412402.0	-8726000.0	-371.0
691.540	-4603.0	9545.1	1029.3	-3975000.0	31380000.0	701.0
691.541	3705.0	-16222.2	3506.8	6637000.0	-17850000.0	510.0
691.542	614.5	-15921.5	16069.0	6078000.0	22250000.0	1641.0
691.543	1822.6	15834.6	6851.0	-6043000.0	-10800000.0	2353.0
691.544	-1133.2	14863.9	19446.7	-6005000.0	29310000.0	3609.0

691.545	220.9	-12168.5	-13572.6	5390000.0	-15010000.0	-2308.0
691.546	-2745.2	-6891.3	-813.2	2891000.0	25100000.0	-1251.0
691.547	-1543.1	502.8	-9385.4	-285047.0	-8166000.0	-373.0
691.548	-4145.9	9427.2	2480.1	-4199000.0	31940000.0	689.0
691.549	3075.0	-9586.4	2654.2	4290000.0	-18410000.0	557.0
691.550	-219.3	-2742.5	15704.7	1142000.0	21690000.0	1630.0
691.551	1973.0	5179.0	5018.5	-2180000.0	-11570000.0	2339.0
691.552	-1014.3	9594.9	17355.0	-4269000.0	28530000.0	3525.0
691.553	418.7	-12677.9	-13594.1	5400000.0	-15110000.0	-2393.0
691.554	-2621.1	-7398.3	-746.2	2793000.0	24990000.0	-1318.0
691.555	-1812.8	822.0	-9071.7	-129983.0	-8060000.0	-334.0
691.556	-4404.6	10038.7	2765.9	-4154000.0	32050000.0	751.0
691.557	3316.1	-11712.5	2457.1	4826000.0	-18520000.0	468.0
691.558	-0.5	-5156.0	15511.0	1779000.0	21590000.0	1572.0
691.559	1517.4	8888.0	5824.6	-3338000.0	-11470000.0	2361.0
691.560	-1336.7	13963.8	17853.0	-5681000.0	28640000.0	3556.0
695.1	-568.3	-235.7	-6363.7	53078.0	13990000.0	-127.0
695.2	-420.9	-172.5	-4055.3	40415.0	10360000.0	-59.0
695.3	-568.3	-152.2	-4986.8	32694.0	13990000.0	-71.0
695.4	-420.9	159.0	-2585.6	-63409.0	10360000.0	-5.0
695.5	-568.2	-312.4	-5764.4	83407.0	13990000.0	-154.0
695.6	-420.9	-223.9	-3389.4	62199.0	10360000.0	-85.0
695.7	-566.4	71.0	-62521.7	-65205.0	89280000.0	-667.0
695.8	-419.0	5.8	-60253.9	-33738.0	85650000.0	-599.0
695.9	-566.8	30.3	-48712.4	-49786.0	70710000.0	-530.0
695.10	-419.5	-13.9	-46454.2	-25407.0	67080000.0	-463.0
695.11	-566.8	-23.9	-47641.1	-22652.0	70710000.0	-474.0
695.12	-419.5	320.4	-45359.2	-125576.0	67080000.0	-412.0
695.13	-566.8	18.1	-48287.3	-43000.0	70710000.0	-559.0
695.14	-419.5	-10.2	-46063.1	-24132.0	67080000.0	-490.0
695.15	-568.1	-212.7	-8577.9	44319.0	21310000.0	-181.0
695.16	-568.4	-259.6	-4142.5	62235.0	6675000.0	-73.0
695.17	-420.8	-145.2	-6352.7	30448.0	17680000.0	-113.0
695.18	-421.1	-199.9	-1754.3	50431.0	3047000.0	-4.9
695.19	-568.0	-198.0	-10055.7	38621.0	26190000.0	-217.0
695.20	-568.5	-274.8	-2607.7	67822.0	1797000.0	-37.0
695.21	-420.7	-124.3	-7864.6	22923.0	22560000.0	-149.0
695.22	-421.2	-218.2	-220.2	57135.0	-1831000.0	31.0
695.23	-568.1	-113.8	-7286.3	18983.0	21310000.0	-125.0
695.24	-568.4	-189.6	-2685.9	46076.0	6675000.0	-17.0
695.25	-420.8	221.1	-4883.1	-85130.0	17680000.0	-59.0
695.26	-421.1	99.2	-290.3	-42391.0	3047000.0	49.0
695.27	-568.1	-292.7	-8062.3	75819.0	21310000.0	-208.0
695.28	-568.4	-329.3	-3467.9	90051.0	6675000.0	-100.0
695.29	-420.8	-195.0	-5686.3	51393.0	17680000.0	-139.0
695.30	-421.1	-250.7	-1090.4	72146.0	3047000.0	-31.0
695.31	-566.2	83.8	-64741.4	-70064.0	96590000.0	-721.0
695.32	-566.5	76.5	-60301.1	-67337.0	81960000.0	-609.0
695.33	-418.9	50.2	-62474.8	-48895.0	92970000.0	-654.0
695.34	-419.2	1.7	-58035.2	-32703.0	78330000.0	-542.0
695.35	-566.6	41.1	-52417.4	-53499.0	82900000.0	-623.0
695.36	-567.1	5.1	-45003.9	-40703.0	58510000.0	-440.0
695.37	-419.2	25.6	-50175.7	-38437.0	79280000.0	-555.0
695.38	-419.8	-53.3	-42752.6	-11356.0	54880000.0	-373.0
695.39	-566.7	29.2	-50939.8	-49318.0	78020000.0	-587.0
695.40	-567.0	15.1	-46482.5	-44487.0	63390000.0	-476.0
695.41	-419.3	0.1	-48696.8	-29671.0	74400000.0	-519.0
695.42	-419.7	-37.6	-44232.8	-16952.0	59760000.0	-409.0
695.43	-566.7	30.9	-49854.3	-41201.0	78020000.0	-529.0
695.44	-567.0	-65.4	-45409.3	-8637.0	63390000.0	-420.0
695.45	-419.3	354.8	-47590.5	-136457.0	74400000.0	-467.0
695.46	-419.6	286.4	-43117.1	-114653.0	59760000.0	-357.0

695.47	-566.6	28.8	-50501.6	-47121.0	78020000.0	-613.0
695.48	-567.0	7.0	-46073.1	-38701.0	63390000.0	-504.0
695.49	-419.3	18.8	-48277.6	-34214.0	74400000.0	-544.0
695.50	-419.6	-31.0	-43847.1	-17115.0	59760000.0	-435.0
695.51	-568.2	660.0	-11425.8	-187056.0	13990000.0	115.0
695.52	-420.9	837.1	-9093.6	-238836.0	10360000.0	189.0
695.53	-568.1	1169.1	-14735.4	-316960.0	13990000.0	288.0
695.54	-420.8	1352.8	-12388.0	-373989.0	10370000.0	357.0
695.55	-568.2	1004.1	-10029.4	-301445.0	13990000.0	172.0
695.56	-420.9	1173.5	-7695.2	-350671.0	10360000.0	246.0
695.57	-568.2	766.0	-10886.4	-226901.0	13990000.0	86.0
695.58	-420.8	924.0	-8565.0	-272169.0	10360000.0	163.0
695.59	-566.3	1552.5	-67288.4	-535119.0	89280000.0	-457.0
695.60	-419.0	1756.5	-64942.0	-601505.0	85650000.0	-386.0
695.61	-566.8	1426.0	-53508.8	-485005.0	70710000.0	-318.0
695.62	-419.4	1541.1	-51278.0	-516292.0	67080000.0	-243.0
695.63	-566.7	1836.3	-56996.1	-583646.0	70710000.0	-157.0
695.64	-419.4	1936.3	-54761.6	-609844.0	67080000.0	-82.0
695.65	-566.7	1752.0	-52329.7	-593345.0	70710000.0	-257.0
695.66	-419.4	1874.5	-50091.8	-627569.0	67080000.0	-186.0
695.67	-566.7	1518.0	-52817.3	-518877.0	70710000.0	-341.0
695.68	-419.4	1594.0	-50729.6	-538089.0	67080000.0	-273.0
695.69	-568.4	977.6	-933.8	-348258.0	13990000.0	-342.0
695.70	-421.0	806.8	1352.6	-282216.0	10370000.0	-271.0
695.71	-568.4	1527.2	2579.3	-522299.0	13990000.0	-474.0
695.72	-421.1	1364.2	4803.9	-460397.0	10370000.0	-401.0
695.73	-568.3	554.9	492.9	-203614.0	13990000.0	-290.0
695.74	-421.0	382.2	2908.7	-137682.0	10360000.0	-219.0
695.75	-568.3	907.8	-363.8	-320352.0	13990000.0	-371.0
695.76	-421.0	751.4	2031.4	-260306.0	10360000.0	-299.0
695.77	-566.4	1132.5	-57241.6	-405469.0	89280000.0	-897.0
695.78	-419.1	980.3	-54993.9	-346292.0	85650000.0	-824.0
695.79	-566.9	1119.5	-43345.5	-401457.0	70710000.0	-759.0
695.80	-419.6	932.6	-41115.3	-328850.0	67080000.0	-689.0
695.81	-567.0	1662.4	-39760.1	-572930.0	70710000.0	-894.0
695.82	-419.7	1455.6	-37526.7	-493689.0	67080000.0	-823.0
695.83	-566.9	584.8	-42259.9	-212633.0	70710000.0	-704.0
695.84	-419.6	402.5	-40033.3	-141931.0	67080000.0	-635.0
695.85	-566.9	1025.4	-42877.7	-364569.0	70710000.0	-789.0
695.86	-419.6	847.5	-40639.7	-295710.0	67080000.0	-718.0
695.87	-7655.1	675.5	-18585.4	-246899.0	33480000.0	-512.0
695.88	-7507.8	751.5	-16342.2	-263999.0	29850000.0	-443.0
695.89	-9975.6	842.4	-22550.4	-300642.0	39860000.0	-640.0
695.90	-9828.3	915.8	-20276.5	-317331.0	36230000.0	-570.0
695.91	-7655.1	961.5	-17496.8	-336385.0	33480000.0	-450.0
695.92	-7507.8	1040.1	-15180.0	-354642.0	29850000.0	-383.0
695.93	-7655.1	571.9	-18161.7	-209159.0	33480000.0	-542.0
695.94	-7507.8	662.3	-15913.1	-231093.0	29850000.0	-472.0
695.95	-7655.0	703.6	-20796.2	-257835.0	40790000.0	-567.0
695.96	-7655.3	646.9	-16383.7	-235703.0	26160000.0	-457.0
695.97	-7507.7	776.8	-18569.0	-273706.0	37170000.0	-498.0
695.98	-7508.0	726.8	-14113.7	-254490.0	22530000.0	-388.0
695.99	-7654.9	718.2	-22274.1	-263220.0	45670000.0	-605.0
695.100	-7655.4	631.6	-14902.5	-229748.0	21280000.0	-420.0
695.101	-7507.6	793.3	-20053.7	-279831.0	42050000.0	-536.0
695.102	-7508.1	708.9	-12623.8	-247746.0	17650000.0	-351.0
695.103	-9975.5	853.2	-24774.6	-305255.0	47170000.0	-697.0
695.104	-9975.8	814.6	-20324.3	-290091.0	32540000.0	-585.0
695.105	-9828.1	962.1	-22510.1	-333696.0	43550000.0	-626.0
695.106	-9828.5	907.2	-18049.9	-313180.0	28910000.0	-514.0
695.107	-7655.0	985.3	-19730.0	-345536.0	40790000.0	-505.0
695.108	-7655.3	934.5	-15255.4	-326150.0	26160000.0	-396.0

695.109	-7507.6	1067.5	-17422.5	-365038.0	37170000.0	-437.0
695.110	-7508.0	1014.4	-12940.1	-344871.0	22530000.0	-328.0
695.111	-7655.0	602.2	-20372.5	-220646.0	40790000.0	-597.0
695.112	-7655.3	548.4	-15950.5	-199869.0	26160000.0	-487.0
695.113	-7507.6	675.9	-18140.5	-236901.0	37170000.0	-527.0
695.114	-7507.9	628.9	-13678.4	-218831.0	22530000.0	-417.0
695.115	-7655.1	1472.4	-23490.6	-454359.0	33480000.0	-279.0
695.116	-7507.7	1575.3	-21208.8	-481500.0	29850000.0	-203.0
695.117	-7655.0	1885.4	-26721.2	-552342.0	33480000.0	-119.0
695.118	-7507.7	2025.3	-24509.4	-594025.0	29850000.0	-40.0
695.119	-9975.6	1667.8	-27414.9	-518485.0	39860000.0	-410.0
695.120	-9828.2	1772.2	-25099.5	-546136.0	36230000.0	-339.0
695.121	-7655.1	1839.5	-22276.3	-576598.0	33480000.0	-216.0
695.122	-7507.7	1941.1	-19950.7	-603210.0	29850000.0	-142.0
695.123	-7655.0	1511.9	-22924.9	-472125.0	33480000.0	-309.0
695.124	-7507.7	1581.1	-20641.7	-487982.0	29850000.0	-234.0
695.125	-7655.2	375.6	-13153.3	-152272.0	33480000.0	-727.0
695.126	-7507.9	-82.1	-10825.5	6038.0	29850000.0	-658.0
695.127	-7655.3	1028.6	-9509.2	-361368.0	33480000.0	-864.0
695.128	-7508.0	760.6	-7267.9	-264785.0	29850000.0	-791.0
695.129	-9975.7	-325.2	-16968.5	75868.0	39860000.0	-861.0
695.130	-9828.4	-591.7	-14733.6	171563.0	36230000.0	-788.0
695.131	-7655.2	-280.5	-11944.4	70356.0	33480000.0	-672.0
695.132	-7507.9	-505.5	-9731.1	153364.0	29850000.0	-600.0
695.133	-7655.2	226.8	-12698.0	-95847.0	33480000.0	-762.0
695.134	-7507.9	-261.1	-10361.1	71523.0	29850000.0	-693.0
695.135	6519.8	-342.8	-25783.0	75935.0	33480000.0	-67.0
695.136	6667.1	-438.5	-23571.7	116355.0	29850000.0	0.9
695.137	8840.6	-331.7	-32173.7	68575.0	39860000.0	-46.0
695.138	8987.9	-446.7	-29953.4	115016.0	36230000.0	22.0
695.139	6519.8	-740.4	-24744.9	218007.0	33480000.0	-10.0
695.140	6667.1	-773.6	-22539.2	237803.0	29850000.0	57.0
695.141	6519.8	-343.7	-25335.2	80205.0	33480000.0	-91.0
695.142	6667.1	-440.4	-23121.0	121012.0	29850000.0	-23.0
695.143	6519.9	-328.0	-27992.3	70186.0	40790000.0	-122.0
695.144	6519.6	-356.9	-23573.7	81025.0	26160000.0	-12.0
695.145	6667.2	-429.2	-25782.1	112934.0	37170000.0	-54.0
695.146	6666.9	-467.4	-21358.5	126445.0	22530000.0	56.0
695.147	6520.0	-318.0	-29466.8	66377.0	45670000.0	-158.0
695.148	6519.5	-378.8	-22099.0	88493.0	21280000.0	24.0
695.149	6667.3	-418.9	-27257.3	109054.0	42050000.0	-90.0
695.150	6666.8	-478.0	-19883.3	130442.0	17650000.0	92.0
695.151	8840.8	-313.3	-34383.8	61674.0	47170000.0	-100.0
695.152	8840.5	-337.9	-29967.3	70984.0	32540000.0	8.9
695.153	8988.1	-434.2	-32162.2	110459.0	43550000.0	-33.0
695.154	8987.8	-453.6	-27748.9	118110.0	28910000.0	77.0
695.155	6519.9	-722.3	-26960.6	211363.0	40790000.0	-65.0
695.156	6519.6	-789.2	-22527.2	234348.0	26160000.0	44.0
695.157	6667.3	-773.6	-24750.5	237057.0	37170000.0	2.8
695.158	6666.9	-793.9	-20326.8	245005.0	22530000.0	112.0
695.159	6519.9	-328.7	-27547.1	74489.0	40790000.0	-146.0
695.160	6519.6	-350.2	-23087.4	82231.0	26160000.0	-37.0
695.161	6667.3	-423.9	-25335.3	114785.0	37170000.0	-77.0
695.162	6667.0	-454.5	-20910.2	126430.0	22530000.0	32.0
695.163	6519.8	-1151.9	-30885.8	378382.0	33480000.0	183.0
695.164	6667.2	-827.3	-28684.7	279947.0	29850000.0	250.0
695.165	6519.9	84.4	-34347.1	8762.0	33480000.0	338.0
695.166	6667.2	456.4	-32020.0	-108308.0	29850000.0	407.0
695.167	8840.7	-1354.6	-37184.5	433413.0	39860000.0	204.0
695.168	8988.0	-1350.8	-34970.8	443066.0	36230000.0	274.0
695.169	6519.8	-651.2	-29740.4	214476.0	33480000.0	233.0
695.170	6667.2	-138.5	-27431.2	50618.0	29850000.0	299.0

695.171	6519.9	-1069.5	-30425.1	349378.0	33480000.0	156.0
695.172	6667.2	-619.6	-28136.9	206604.0	29850000.0	225.0
695.173	6519.7	1337.0	-20482.7	-466003.0	33480000.0	-288.0
695.174	6667.0	1193.5	-18259.1	-408391.0	29850000.0	-218.0
695.175	6519.6	1956.1	-16917.8	-662315.0	33480000.0	-421.0
695.176	6666.9	1713.4	-14724.6	-568702.0	29850000.0	-351.0
695.177	8840.5	1444.0	-26881.6	-499654.0	39860000.0	-270.0
695.178	8987.9	1285.2	-24667.6	-435190.0	36230000.0	-201.0
695.179	6519.7	892.5	-19315.2	-312555.0	33480000.0	-237.0
695.180	6667.0	690.8	-17091.2	-236425.0	29850000.0	-166.0
695.181	6519.7	1273.3	-19959.9	-440634.0	33480000.0	-317.0
695.182	6667.0	1070.6	-17750.6	-362086.0	29850000.0	-247.0
695.183	-568.3	-3262.6	-9999.4	1033000.0	13990000.0	53.0
695.184	-421.0	-3276.0	-8172.5	1045000.0	10360000.0	120.0
695.185	-568.3	-3506.8	-8278.9	1123000.0	13990000.0	106.0
695.186	-420.9	-3504.7	-6235.4	1130000.0	10360000.0	173.0
695.187	-568.3	-5299.2	-13997.6	1688000.0	13990000.0	174.0
695.188	-421.0	-5296.5	-11999.7	1695000.0	10360000.0	243.0
695.189	-568.3	-3221.5	-9645.4	1023000.0	13990000.0	31.0
695.190	-420.9	-3273.9	-7628.1	1048000.0	10360000.0	99.0
695.191	-566.3	-2574.7	-62951.2	769318.0	89280000.0	-471.0
695.192	-419.0	-2627.3	-60750.4	795809.0	85650000.0	-404.0
695.193	-566.8	-2759.2	-49121.3	840897.0	70710000.0	-342.0
695.194	-419.5	-2814.8	-46923.2	868365.1	67080000.0	-276.0
695.195	-566.8	-3085.0	-47966.9	957149.0	70710000.0	-289.0
695.196	-419.5	-3140.5	-45772.0	984629.0	67080000.0	-222.0
695.197	-566.8	-4856.0	-49682.8	1527000.0	70710000.0	-226.0
695.198	-419.5	-4914.5	-47508.8	1555000.0	67080000.0	-160.0
695.199	-566.8	-2802.1	-48678.4	860972.0	70710000.0	-366.0
695.200	-419.4	-2864.0	-46480.8	890063.9	67080000.0	-298.0
695.201	-7655.1	-2750.1	-19259.2	870358.0	33480000.0	-330.0
695.202	-7507.8	-2612.3	-17329.6	833638.0	29850000.0	-263.0
695.203	-9975.6	-2397.3	-23181.3	754294.0	39860000.0	-454.0
695.204	-9828.3	-2434.2	-21064.3	775643.0	36230000.0	-382.0
695.205	-7655.1	-2642.2	-18136.0	843686.1	33480000.0	-275.0
695.206	-7507.8	-2609.9	-16130.9	841966.0	29850000.0	-206.0
695.207	-7655.2	-4832.3	-22824.2	1542000.0	33480000.0	-210.0
695.208	-7507.8	-4827.3	-22020.1	1547000.0	29850000.0	-142.0
695.209	-7655.1	-2823.4	-18945.7	899938.0	33480000.0	-353.0
695.210	-7507.8	-2659.7	-17197.4	853715.1	29850000.0	-285.0
695.211	6519.8	-3396.9	-26424.1	1062000.0	33480000.0	116.0
695.212	6667.1	-3568.8	-24270.3	1128000.0	29850000.0	183.0
695.213	8840.6	-3273.1	-32669.1	1012000.0	39860000.0	138.0
695.214	8988.0	-3448.6	-30492.9	1080000.0	36230000.0	205.0
695.215	6519.8	-3812.4	-25281.7	1209000.0	33480000.0	171.0
695.216	6667.1	-3948.4	-23108.6	1263000.0	29850000.0	238.0
695.217	6519.8	-5564.2	-29023.5	1765000.0	33480000.0	236.0
695.218	6667.1	-5702.9	-27401.1	1818000.0	29850000.0	302.0
695.219	6519.8	-3371.6	-26103.3	1058000.0	33480000.0	94.0
695.220	6667.1	-3499.9	-23884.2	1110000.0	29850000.0	161.0
695.221	-568.3	-119.5	-6351.9	14598.0	13990000.0	-210.0
695.222	-420.9	8.2	-4085.6	-18475.0	10360000.0	-144.0
695.223	-568.2	203.7	-4989.7	-84493.0	13990000.0	-159.0
695.224	-420.9	553.1	-2548.1	-186206.0	10360000.0	-98.0
695.225	-568.2	-36.7	-6310.9	-10336.0	13990000.0	-269.0
695.226	-420.9	160.4	-4035.8	-60238.0	10360000.0	-208.0
695.227	-568.2	-185.3	-5817.3	40443.0	13990000.0	-238.0
695.228	-420.9	26.3	-3410.7	-20881.0	10360000.0	-171.0
695.229	-566.3	104.5	-62556.8	-71072.0	89280000.0	-754.0
695.230	-419.0	118.3	-60218.9	-61193.0	85650000.0	-693.0
695.231	-566.8	95.8	-48710.0	-67449.0	70710000.0	-617.0
695.232	-419.5	166.4	-46417.5	-77906.0	67080000.0	-554.0

695.233	-566.8	346.7	-47563.8	-136875.0	70710000.0	-569.0
695.234	-419.5	549.9	-45263.8	-188702.0	67080000.0	-509.0
695.235	-566.8	122.9	-48631.9	-70829.0	70710000.0	-678.0
695.236	-419.5	236.2	-46307.9	-92776.0	67080000.0	-620.0
695.237	-566.8	114.6	-48276.7	-73436.0	70710000.0	-643.0
695.238	-419.5	207.6	-45956.0	-90330.0	67080000.0	-582.0
695.239	-7655.1	970.8	-18482.1	-345937.0	33480000.0	-602.0
695.240	-7507.8	1004.2	-16266.3	-343895.0	29850000.0	-534.0
695.241	-9975.6	1128.8	-22464.6	-395848.0	39860000.0	-729.0
695.242	-9828.3	1160.6	-20223.9	-394094.0	36230000.0	-661.0
695.243	-7655.1	1208.6	-17415.2	-414931.0	33480000.0	-541.0
695.244	-7507.8	1251.4	-15134.6	-417672.0	29850000.0	-475.0
695.245	-7655.1	1075.9	-18390.4	-374186.0	33480000.0	-665.0
695.246	-7507.8	1175.0	-16110.5	-397131.0	29850000.0	-595.0
695.247	-7655.1	879.8	-18066.9	-315549.0	33480000.0	-629.0
695.248	-7507.8	979.5	-15819.5	-335249.0	29850000.0	-563.0
695.249	6519.8	-353.9	-25738.8	82223.0	33480000.0	-154.0
695.250	6667.1	-444.1	-23532.6	121336.0	29850000.0	-86.0
695.251	8840.6	-344.5	-32133.8	75410.0	39860000.0	-132.0
695.252	8988.0	-453.2	-29912.7	121333.0	36230000.0	-66.0
695.253	6519.8	-702.1	-24709.9	207508.0	33480000.0	-96.0
695.254	6667.1	-738.6	-22511.4	229843.0	29850000.0	-29.0
695.255	6519.8	-373.4	-25716.8	92340.0	33480000.0	-212.0
695.256	6667.1	-525.7	-23496.9	153221.0	29850000.0	-146.0
695.257	6519.8	-313.9	-25236.2	71440.0	33480000.0	-179.0
695.258	6667.1	-439.6	-23027.1	122984.0	29850000.0	-111.0
695.401	1989.7	-14583.5	-77355.7	5754000.0	11060000.0	2805.0
695.402	-156.7	-18499.0	-87721.3	7282000.0	26850000.0	2765.0
695.403	2611.5	16215.1	-62782.0	-6421000.0	620160.0	1358.0
695.404	465.1	12443.6	-73325.1	-4951000.0	16410000.0	1318.0
695.405	-1307.2	-9692.3	49675.1	4332000.0	4317000.0	-1234.0
695.406	-3453.6	-9609.7	43771.7	4519000.0	20110000.0	-1297.0
695.407	-685.4	8599.5	60961.4	-3440000.0	-6121000.0	-2296.0
695.408	-2831.7	8611.3	56389.7	-3231000.0	9673000.0	-2378.0
695.409	2012.3	-19954.9	-77268.2	7392000.0	10720000.0	3087.0
695.410	-134.1	-23736.4	-87698.3	8867000.0	26510000.0	3042.0
695.411	2588.8	21240.3	-62693.8	-7922000.0	962787.0	1095.0
695.412	442.4	17384.6	-73241.9	-6424000.0	16760000.0	1056.0
695.413	-1284.6	-5874.0	48236.8	2753000.0	3974000.0	-940.0
695.414	-3431.0	-5739.5	41801.9	2922000.0	19770000.0	-1004.0
695.415	-708.1	4745.1	58841.7	-1901000.0	-5778000.0	-2573.0
695.416	-2854.4	5141.4	54276.4	-1809000.0	10020000.0	-2649.0
695.417	2227.2	-8276.7	-52461.5	3585000.0	11280000.0	2577.0
695.418	80.9	-10800.9	-62034.7	4659000.0	27070000.0	2512.0
695.419	2849.1	18484.2	-38467.1	-7261000.0	838163.0	1267.0
695.420	702.7	15774.9	-48230.5	-6142000.0	16630000.0	1200.0
695.421	-1544.8	-10202.4	28474.2	4605000.0	4099000.0	-1108.0
695.422	-3691.1	-11534.9	23689.6	5237000.0	19890000.0	-1180.0
695.423	-923.0	12000.5	37067.3	-4490000.0	-6339000.0	-2168.0
695.424	-3069.3	11042.8	29429.3	-3961000.0	9455000.0	-2255.0
695.425	2249.9	-11343.7	-52212.6	4466000.0	10930000.0	2829.0
695.426	103.5	-13626.2	-61834.2	5455000.0	26730000.0	2763.0
695.427	2826.4	21217.9	-38506.8	-8003000.0	1181000.0	1043.0
695.428	680.0	18828.1	-48304.5	-6989000.0	16970000.0	972.0
695.429	-1522.1	-7726.9	27285.6	3458000.0	3756000.0	-840.0
695.430	-3668.5	-8813.7	21461.3	4015000.0	19550000.0	-912.0
695.431	-945.7	10247.5	34930.8	-3643000.0	-5996000.0	-2414.0
695.432	-3092.0	8823.9	27076.8	-2957000.0	9798000.0	-2500.0
695.433	110.3	-37168.9	-50035.4	15240000.0	20880000.0	2722.0
695.434	-2036.1	-39910.6	-56653.0	16360000.0	36670000.0	2672.0
695.435	2182.9	42724.8	-8267.1	-17340000.0	-13920000.0	-1647.0
695.436	36.6	40174.7	-16424.0	-16280000.0	1878000.0	-1727.0

695.437	-878.8	-33055.4	-12517.9	14050000.0	18850000.0	1273.0
695.438	-3025.2	-35167.5	-18664.6	14960000.0	34650000.0	1236.0
695.439	1193.8	33955.9	24176.7	-14350000.0	-15940000.0	-2427.0
695.440	-952.5	33128.7	17895.7	-13850000.0	-144586.0	-2504.0
695.441	181.5	-32181.2	-42872.5	13600000.0	20940000.0	2599.0
695.442	-1964.8	-34905.0	-49495.3	14720000.0	36730000.0	2545.0
695.443	2254.2	41655.9	-1294.3	-17020000.0	-13850000.0	-1633.0
695.444	107.9	38712.1	-5452.4	-15830000.0	1943000.0	-1717.0
695.445	-950.1	-38316.3	-19568.4	15770000.0	18790000.0	1405.0
695.446	-3096.4	-40917.3	-25541.2	16850000.0	34580000.0	1365.0
695.447	1122.6	38454.7	17827.3	-15790000.0	-16000000.0	-2428.0
695.448	-1023.8	36635.5	9213.7	-14970000.0	-209990.0	-2498.0
695.449	185.7	-45082.3	-47757.8	17160000.0	19730000.0	3555.0
695.450	-1960.7	-47309.0	-54945.6	18090000.0	35530000.0	3502.0
695.451	2107.3	49697.8	-13297.1	-18910000.0	-12770000.0	-2385.0
695.452	-39.0	47205.5	-21486.2	-17870000.0	3020000.0	-2464.0
695.453	-803.4	-31535.6	-13780.8	12740000.0	17710000.0	2133.0
695.454	-2949.8	-32197.8	-20937.2	13150000.0	33510000.0	2082.0
695.455	1118.2	30878.6	19784.4	-12540000.0	-14800000.0	-3322.0
695.456	-1028.1	29240.0	12085.5	-11760000.0	997487.0	-3408.0
695.457	257.0	-39763.7	-41248.3	15400000.0	19800000.0	3433.0
695.458	-1889.4	-41767.2	-48526.1	16250000.0	35590000.0	3380.0
695.459	2178.6	48543.6	-6995.1	-18570000.0	-12710000.0	-2369.0
695.460	32.3	45616.1	-13719.7	-17380000.0	3085000.0	-2453.0
695.461	-874.7	-41974.0	-19370.2	16210000.0	17650000.0	2233.0
695.462	-3021.0	-44076.0	-26670.1	17090000.0	33440000.0	2188.0
695.463	1047.0	40577.3	14267.6	-15740000.0	-14860000.0	-3343.0
695.464	-1099.4	38127.0	5847.5	-14690000.0	932084.0	-3429.0
695.529	3339.9	-9300.9	-19969.8	3627000.0	-9728000.0	1292.0
695.530	-3814.7	-18120.6	-47121.5	7234000.0	42920000.0	1112.0
695.531	3961.7	18839.9	-5910.8	-7573000.0	-20170000.0	-78.0
695.532	-3192.9	7538.1	-37450.2	-3124000.0	32480000.0	-278.0
695.533	2350.8	-8963.2	16765.0	3599000.0	-11750000.0	-26.0
695.534	-4803.7	-8535.5	-6777.2	4127000.0	40900000.0	-175.0
695.535	2972.6	10532.5	27638.9	-4674000.0	-22190000.0	-1068.0
695.536	-4181.9	10173.1	3897.3	-3813000.0	30460000.0	-1346.0
695.537	3362.5	-13464.1	-20717.7	4880000.0	-10070000.0	1548.0
695.538	-3792.0	-20231.1	-45347.9	7702000.0	42580000.0	1349.0
695.539	3939.0	21234.1	-7490.5	-8151000.0	-19820000.0	-307.0
695.540	-3215.5	11572.4	-36346.2	-4226000.0	32820000.0	-552.0
695.541	2373.4	-6024.2	15889.6	2385000.0	-12090000.0	258.0
695.542	-4781.0	-7034.7	-6154.4	3362000.0	40550000.0	68.0
695.543	2949.9	7313.1	26215.0	-3350000.0	-21850000.0	-1339.0
695.544	-4204.5	7004.9	3794.4	-2497000.0	30800000.0	-1602.0
695.545	3411.2	-7540.3	-13245.8	3041000.0	-9663000.0	1202.0
695.546	-3743.4	-12992.5	-39690.2	5532000.0	42980000.0	991.0
695.547	4033.0	18056.7	-243.8	-7351000.0	-20100000.0	-62.0
695.548	-3121.6	9437.6	-28879.3	-3769000.0	32550000.0	-336.0
695.549	2279.5	-9578.6	10237.5	3834000.0	-11820000.0	46.0
695.550	-4874.9	-16280.7	-12542.3	6701000.0	40830000.0	-145.0
695.551	2901.3	14111.6	21603.1	-5854000.0	-22250000.0	-1009.0
695.552	-4253.2	9159.0	-3996.4	-3458000.0	30390000.0	-1333.0
695.553	3433.8	-9989.2	-13881.4	3744000.0	-10010000.0	1444.0
695.554	-3720.7	-14945.1	-38133.9	5940000.0	42640000.0	1226.0
695.555	4010.3	20231.8	-1812.9	-7859000.0	-19760000.0	-288.0
695.556	-3144.2	11330.3	-28259.3	-4176000.0	32890000.0	-564.0
695.557	2302.2	-10105.3	10128.3	3764000.0	-12160000.0	300.0
695.558	-4852.3	-16487.7	-11509.1	6507000.0	40490000.0	88.0
695.559	2878.7	13233.1	20242.0	-5311000.0	-21910000.0	-1277.0
695.560	-4275.8	7670.8	-5879.2	-2700000.0	30740000.0	-1569.0
1264.1	-964.4	424.8	38533.1	551793.0	-529264.0	251.0
1264.2	-739.8	300.4	27758.9	390777.0	-872120.0	203.0

1264.3	-1036.3	425.9	39744.2	554326.0	-1641000.0	293.0
1264.4	-810.5	301.7	28911.2	393458.0	-1983000.0	219.0
1264.5	-1007.4	598.1	53441.2	776095.0	-3326.0	212.0
1264.6	-782.7	474.6	42663.2	616206.0	-344509.0	146.0
1264.7	-2012.8	1338.7	116500.0	1734000.0	2213000.0	238.0
1264.8	-1788.0	1214.9	105900.0	1574000.0	1871000.0	181.0
1264.9	-1752.5	1112.2	97209.4	1441000.0	1534000.0	245.0
1264.10	-1526.0	989.0	86439.5	1282000.0	1195000.0	130.0
1264.11	-1822.4	1115.6	98356.0	1446000.0	424645.0	238.0
1264.12	-1596.9	992.1	87581.1	1286000.0	83814.0	156.0
1264.13	-1797.1	1283.7	112100.0	1663000.0	2059000.0	215.0
1264.14	-1571.8	1161.0	101400.0	1505000.0	1719000.0	138.0
1264.15	-1070.1	511.2	45743.5	663118.0	-274882.0	356.0
1264.16	-863.6	335.3	31192.5	436207.0	-796623.0	288.0
1264.17	-841.9	389.1	35130.0	505391.0	-606161.0	196.0
1264.18	-638.9	211.2	20399.2	275528.0	-1139000.0	231.0
1264.19	-1137.9	570.4	50618.8	739476.0	-99132.0	361.0
1264.20	-797.1	275.6	26304.9	359095.0	-974605.9	319.0
1264.21	-911.9	447.3	39869.8	580264.0	-437869.0	265.0
1264.22	-571.0	152.0	15486.2	198999.0	-1316000.0	239.0
1264.23	-1135.2	516.2	47034.8	670822.0	-1373000.0	227.0
1264.24	-934.0	336.4	32357.8	438624.0	-1908000.0	305.0
1264.25	-911.5	391.3	36252.7	509252.0	-1716000.0	186.0
1264.26	-708.0	212.8	21538.4	278579.0	-2249000.0	224.0
1264.27	-1108.5	686.8	60799.3	890630.0	262519.0	197.0
1264.28	-906.4	509.6	46098.1	661744.0	-268871.0	229.0
1264.29	-883.7	562.7	49906.5	729937.0	-79341.0	129.0
1264.30	-681.6	386.2	35306.7	502013.0	-610242.0	164.0
1264.31	-2114.6	1426.8	123900.0	1848000.0	2478000.0	231.0
1264.32	-1908.4	1248.3	109100.0	1617000.0	1945000.0	226.0
1264.33	-1888.8	1303.9	113200.0	1689000.0	2138000.0	150.0
1264.34	-1684.0	1124.9	98462.5	1458000.0	1604000.0	169.0
1264.35	-1924.4	1261.0	109500.0	1633000.0	1979000.0	252.0
1264.36	-1583.4	965.2	84963.7	1251000.0	1092000.0	255.0
1264.37	-1698.7	1138.0	98809.1	1474000.0	1638000.0	170.0
1264.38	-1356.9	842.2	74197.1	1092000.0	752178.0	147.0
1264.39	-1856.7	1202.3	104600.0	1558000.0	1802000.0	256.0
1264.40	-1651.0	1023.8	89855.6	1327000.0	1269000.0	250.0
1264.41	-1630.9	1079.2	93912.5	1398000.0	1461000.0	175.0
1264.42	-1424.6	900.9	79091.1	1168000.0	929138.0	140.0
1264.43	-1924.0	1203.6	105700.0	1560000.0	689860.0	230.0
1264.44	-1720.8	1027.7	91040.7	1333000.0	159435.0	245.0
1264.45	-1698.5	1080.0	94908.9	1400000.0	349079.0	149.0
1264.46	-1495.3	904.1	80258.6	1173000.0	-181452.0	163.0
1264.47	-1898.7	1371.6	119500.0	1777000.0	2325000.0	206.0
1264.48	-1695.7	1195.8	104800.0	1550000.0	1794000.0	225.0
1264.49	-1673.2	1248.8	108800.0	1618000.0	1984000.0	128.0
1264.50	-1470.3	1073.2	94084.1	1391000.0	1454000.0	147.0
1264.51	-1034.8	581.7	43740.6	733082.0	-339966.0	498.0
1264.52	-814.6	482.6	32433.7	603852.0	-679749.0	431.0
1264.53	-1090.6	742.2	45931.1	924096.0	-212993.0	672.0
1264.54	-861.1	638.3	35363.9	789745.0	-549787.0	611.0
1264.55	-1103.9	582.9	45168.2	735579.0	-1448000.0	489.0
1264.56	-884.0	485.2	33868.1	608019.0	-1788000.0	427.0
1264.57	-1074.7	721.9	60059.8	917442.0	193126.0	470.0
1264.58	-854.9	624.3	48828.2	790346.0	-145079.0	406.0
1264.59	-2063.2	1335.7	128000.0	1727000.0	2455000.0	420.0
1264.60	-1838.9	1225.2	117000.0	1582000.0	2113000.0	330.0
1264.61	-1809.1	1132.8	108000.0	1461000.0	1776000.0	429.0
1264.62	-1585.2	1026.9	96759.7	1322000.0	1430000.0	336.0
1264.63	-1850.3	1291.1	108600.0	1643000.0	1861000.0	499.0
1264.64	-1629.0	1194.1	97326.1	1516000.0	1519000.0	438.0

1264.65	-1878.9	1133.4	109300.0	1462000.0	665250.0	413.0
1264.66	-1654.7	1028.9	98172.2	1326000.0	321664.0	331.0
1264.67	-1852.8	1291.3	123300.0	1667000.0	2303000.0	425.0
1264.68	-1627.2	1179.7	112600.0	1522000.0	1961000.0	329.0
1264.69	-974.4	335.6	11353.3	395364.0	-837829.0	177.0
1264.70	-750.2	202.8	-253.6	221536.0	-1179000.0	73.0
1264.71	-983.6	258.9	-8665.8	263785.0	-1042000.0	51.0
1264.72	-756.7	108.1	-20085.6	71287.0	-1381000.0	-52.0
1264.73	-1044.0	340.0	12536.3	402096.0	-1948000.0	171.0
1264.74	-820.0	205.5	927.7	226235.0	-2289000.0	71.0
1264.75	-1019.1	530.5	27585.1	649678.0	-309946.0	204.0
1264.76	-793.4	391.2	15928.6	467911.0	-652020.0	92.0
1264.77	-2029.1	1371.8	93372.3	1737000.0	1909000.0	334.0
1264.78	-1800.4	1241.6	82399.3	1569000.0	1567000.0	228.0
1264.79	-1767.9	1136.0	73716.3	1432000.0	1230000.0	317.0
1264.80	-1541.6	1003.4	62709.2	1260000.0	890788.9	217.0
1264.81	-1771.3	1014.6	54432.3	1249000.0	1028000.0	161.0
1264.82	-1543.5	870.4	42981.5	1062000.0	686189.0	42.0
1264.83	-1837.7	1137.6	74558.3	1435000.0	117804.0	309.0
1264.84	-1611.6	1006.8	63707.1	1266000.0	-218983.0	207.0
1264.85	-1812.6	1316.2	88765.9	1665000.0	1751000.0	320.0
1264.86	-1587.0	1187.5	77984.3	1499000.0	1414000.0	228.0
1264.87	-1719.3	853.5	76228.3	1102000.0	727569.0	1290.0
1264.88	-1492.3	731.6	65659.5	944859.0	391782.0	1153.0
1264.89	-1964.2	996.0	88797.1	1286000.0	1146000.0	1549.0
1264.90	-1737.1	874.3	78231.3	1128000.0	810045.0	1411.0
1264.91	-1779.0	860.3	77621.4	1112000.0	-359558.0	1072.0
1264.92	-1562.0	734.0	66944.0	948912.0	-717625.0	1145.0
1264.93	-1762.0	1026.7	91151.8	1327000.0	1252000.0	1267.0
1264.94	-1537.2	903.8	80690.4	1168000.0	914717.0	1175.0
1264.95	-1810.7	946.2	83782.8	1222000.0	1015000.0	1089.0
1264.96	-1615.2	766.5	68811.8	989959.9	466439.0	1222.0
1264.97	-1594.8	819.5	73050.2	1058000.0	654599.0	1186.0
1264.98	-1388.4	644.5	58237.5	832261.1	130373.0	1090.0
1264.99	-1889.9	1001.3	88550.5	1293000.0	1167000.0	1348.0
1264.100	-1546.9	707.9	63858.8	914222.0	290976.0	1203.0
1264.101	-1663.0	879.2	77994.1	1135000.0	830970.0	1213.0
1264.102	-1320.3	585.4	53307.5	755882.0	-45466.0	1069.0
1264.103	-2066.4	1085.3	96206.1	1401000.0	1410000.0	1587.0
1264.104	-1859.8	909.1	81365.5	1173000.0	884907.0	1475.0
1264.105	-1839.6	963.4	85633.3	1243000.0	1074000.0	1450.0
1264.106	-1633.0	787.3	70804.4	1016000.0	548972.0	1343.0
1264.107	-1889.4	945.6	84789.1	1222000.0	-116994.0	1276.0
1264.108	-1684.8	769.4	70057.7	994730.9	-642562.0	1216.0
1264.109	-1655.0	826.1	74477.0	1068000.0	-433269.0	977.0
1264.110	-1458.2	646.8	59550.6	836338.0	-978688.0	1082.0
1264.111	-1865.9	1114.6	98663.3	1440000.0	1515000.0	1336.0
1264.112	-1659.9	938.8	83772.7	1213000.0	988654.0	1244.0
1264.113	-1639.4	992.1	88065.6	1282000.0	1178000.0	1205.0
1264.114	-1434.9	816.0	73314.1	1054000.0	651756.0	1148.0
1264.115	-1766.5	963.5	83857.1	1228000.0	955411.1	1100.0
1264.116	-1544.5	864.4	72534.2	1098000.0	613362.0	1027.0
1264.117	-1819.3	1129.1	85702.4	1424000.0	1076000.0	1238.0
1264.118	-1601.3	1034.6	74720.1	1302000.0	743924.0	1183.0
1264.119	-2004.3	1071.9	97065.0	1369000.0	1380000.0	1270.0
1264.120	-1783.4	992.6	85608.2	1264000.0	1037000.0	1228.0
1264.121	-1835.9	965.6	85225.1	1232000.0	-153411.0	1094.0
1264.122	-1614.6	868.3	74010.9	1105000.0	-493845.0	1028.0
1264.123	-1806.8	1088.8	100300.0	1394000.0	1491000.0	1056.0
1264.124	-1586.3	1006.7	88806.0	1286000.0	1146000.0	1016.0
1264.125	-1722.3	811.9	50452.8	1010000.0	432995.0	919.0
1264.126	-1494.7	677.2	39134.7	834782.0	93241.0	802.0

1264.127	-1721.0	709.5	30889.9	848609.9	227014.0	741.0
1264.128	-1496.7	573.4	19362.4	671099.0	-112674.0	629.0
1264.129	-1965.6	1003.7	63594.2	1255000.0	845668.0	1188.0
1264.130	-1739.3	829.4	51962.2	1031000.0	508312.0	1044.0
1264.131	-1793.3	854.3	51871.6	1063000.0	-679010.0	953.0
1264.132	-1562.9	678.1	40298.0	836842.0	-1019000.0	794.0
1264.133	-1766.2	1041.8	66838.4	1306000.0	957059.0	975.0
1264.134	-1541.5	903.1	55349.0	1126000.0	617867.0	864.0
1264.135	-987.7	543.4	49673.2	710447.0	-145329.0	-571.0
1264.136	-764.4	418.8	38937.2	549329.0	-488061.0	-592.0
1264.137	-995.7	582.0	53382.1	762194.0	-19338.0	-825.0
1264.138	-772.5	456.6	42644.0	600121.0	-362360.0	-845.0
1264.139	-1059.2	545.0	50756.1	713435.0	-1257000.0	-539.0
1264.140	-835.2	420.8	40014.5	552733.0	-1599000.0	-576.0
1264.141	-1033.3	716.0	64607.8	934070.0	379365.0	-575.0
1264.142	-806.9	591.1	53790.6	772327.0	37138.0	-644.0
1264.143	-1088.6	631.7	57009.8	824559.9	120508.0	-599.0
1264.144	-888.2	454.5	42405.8	595637.0	-412273.0	-508.0
1264.145	-864.1	507.9	46207.3	664317.0	-221193.0	-652.0
1264.146	-663.1	330.8	31599.9	435505.0	-753688.0	-569.0
1264.147	-1155.9	690.6	61898.9	900644.1	297696.0	-616.0
1264.148	-821.7	395.0	37530.2	518865.0	-590320.0	-470.0
1264.149	-931.4	566.8	51088.5	740362.0	-44076.0	-670.0
1264.150	-596.4	271.3	26712.6	358699.0	-931649.0	-538.0
1264.151	-1096.6	670.3	60708.3	876309.9	246448.0	-853.0
1264.152	-896.2	492.4	46113.3	646603.0	-286464.0	-761.0
1264.153	-872.0	546.5	49909.4	716077.0	-95283.0	-905.0
1264.154	-671.2	368.8	35306.6	486544.0	-627939.0	-821.0
1264.155	-1158.5	634.6	58031.2	829119.1	-989680.0	-605.0
1264.156	-959.1	456.5	43458.5	599087.0	-1524000.0	-489.0
1264.157	-935.4	509.8	47333.3	667701.0	-1333000.0	-622.0
1264.158	-733.8	333.1	32660.8	439334.0	-1865000.0	-555.0
1264.159	-1134.4	804.2	71946.7	1048000.0	644998.0	-595.0
1264.160	-930.5	626.7	57321.3	818750.0	113321.0	-562.0
1264.161	-909.5	680.7	61134.4	888128.0	303465.0	-656.0
1264.162	-705.8	503.0	46453.8	658581.0	-228391.0	-621.0
1264.163	-1057.6	651.9	56581.0	834873.1	44159.0	-187.0
1264.164	-834.8	555.1	45025.5	707470.0	-303836.0	-249.0
1264.165	-1113.6	821.4	57702.5	1035000.0	154757.0	-12.0
1264.166	-890.8	717.0	45911.4	897562.0	-192593.0	-99.0
1264.167	-1063.0	646.5	60881.2	832138.0	172042.0	-466.0
1264.168	-841.2	572.8	49054.9	733541.0	-180585.0	-495.0
1264.169	-1127.2	653.9	57794.3	838134.9	-1065000.0	-191.0
1264.170	-904.4	554.8	46172.9	707758.0	-1414000.0	-258.0
1264.171	-1098.5	771.6	73091.2	993673.1	580687.0	-244.0
1264.172	-876.0	693.5	61102.9	889530.9	230061.0	-289.0
1264.173	-1002.5	485.4	23197.9	594982.0	-461074.0	-459.0
1264.174	-776.5	349.0	11571.1	416898.0	-804058.0	-564.0
1264.175	-1006.8	385.1	3080.9	434789.0	-669305.0	-607.0
1264.176	-783.0	253.8	-8524.1	262743.0	-1010000.0	-706.0
1264.177	-1011.6	533.3	26839.3	658076.0	-339688.0	-666.0
1264.178	-785.4	395.4	15467.2	479193.0	-679471.0	-780.0
1264.179	-1071.2	488.9	24342.6	600432.0	-1572000.0	-469.0
1264.180	-845.8	348.3	12797.2	417591.0	-1913000.0	-575.0
1264.181	-1049.7	711.6	39436.8	887020.0	65878.0	-401.0
1264.182	-820.5	540.1	27652.3	665974.0	-275850.0	-556.0
1264.183	-550.1	398.8	40933.2	527818.0	-30910.0	378.0
1264.184	-324.7	276.0	30030.8	368627.0	-371674.0	283.0
1264.185	-619.5	400.9	42098.5	531558.0	-1141000.0	367.0
1264.186	-394.2	279.2	31232.6	373731.0	-1481000.0	275.0
1264.187	-273.4	381.1	42156.1	511000.0	303389.0	399.0
1264.188	-48.3	252.5	30986.6	344419.0	-37170.0	308.0

1264.189	-594.4	570.3	55936.9	750106.0	493863.0	386.0
1264.190	-369.2	448.3	45084.3	592061.0	153623.0	293.0
1264.191	-1604.0	1311.6	118900.0	1709000.0	2711000.0	425.0
1264.192	-1366.2	1186.2	108300.0	1546000.0	2366000.0	324.0
1264.193	-1345.2	1086.6	99652.3	1418000.0	2035000.0	416.0
1264.194	-1109.6	961.7	88973.7	1256000.0	1691000.0	317.0
1264.195	-1414.6	1088.5	100900.0	1422000.0	925184.9	400.0
1264.196	-1179.1	964.4	90208.4	1260000.0	581753.0	308.0
1264.197	-1058.6	1070.1	101400.0	1403000.0	2368000.0	443.0
1264.198	-833.5	948.3	90580.3	1245000.0	2028000.0	353.0
1264.199	-1390.9	1259.1	114700.0	1642000.0	2560000.0	419.0
1264.200	-1153.7	1134.5	104000.0	1480000.0	2216000.0	329.0
1264.201	-1297.2	838.5	77790.2	1092000.0	1237000.0	1181.0
1264.202	-1071.8	715.5	67066.2	932588.0	898874.0	1070.0
1264.203	-1548.4	978.6	90177.9	1272000.0	1647000.0	1571.0
1264.204	-1315.9	862.2	79506.9	1121000.0	1317000.0	1334.0
1264.205	-1366.5	841.1	79053.2	1096000.0	128443.0	1164.0
1264.206	-1141.3	718.7	68439.2	937820.0	-209770.0	1061.0
1264.207	-1020.5	822.2	79219.2	1077000.0	1573000.0	1179.0
1264.208	-794.7	700.7	68433.5	919733.0	1235000.0	1074.0
1264.209	-1342.5	1009.0	92787.9	1312000.0	1759000.0	1204.0
1264.210	-1116.2	886.7	82076.4	1154000.0	1422000.0	1075.0
1264.211	-580.6	520.5	52106.4	690600.0	352722.0	-355.0
1264.212	-354.4	398.7	41221.7	532751.0	11835.0	-442.0
1264.213	-586.1	561.9	55823.1	745803.0	480757.0	-662.0
1264.214	-363.0	438.1	45000.6	585452.0	137175.0	-681.0
1264.215	-650.3	522.6	53213.0	694265.0	-757044.0	-364.0
1264.216	-424.1	400.8	42351.1	536430.0	-1098000.0	-448.0
1264.217	-304.6	509.2	53520.4	682118.0	688070.0	-312.0
1264.218	-72.6	380.8	42500.5	515316.0	342698.0	-428.0
1264.219	-625.9	692.5	67112.1	913554.0	878401.0	-363.0
1264.220	-399.9	570.3	56272.6	755243.0	537708.0	-449.0
1264.221	-1385.7	446.1	31167.4	567343.0	-1074000.0	351.0
1264.222	-1156.9	319.5	20458.2	404072.0	-1407000.0	187.0
1264.223	-1454.3	449.9	32317.1	573165.0	-2178000.0	293.0
1264.224	-1227.6	319.2	21372.0	404493.0	-2520000.0	202.0
1264.225	-1663.2	443.1	26343.8	557902.0	-1430000.0	325.0
1264.226	-1437.7	315.5	15136.8	392379.0	-1771000.0	218.0
1264.227	-1430.4	621.7	46041.3	794171.0	-551683.0	361.0
1264.228	-1204.5	495.7	35208.5	631367.0	-890792.0	262.0
1264.229	-2429.1	1367.2	109100.0	1759000.0	1679000.0	206.0
1264.230	-2205.8	1240.3	98352.9	1595000.0	1334000.0	183.0
1264.231	-2175.1	1137.7	89451.5	1461000.0	978070.0	396.0
1264.232	-1943.7	1014.2	78987.6	1302000.0	658403.0	133.0
1264.233	-2245.1	1141.1	90333.4	1466000.0	-132924.0	386.0
1264.234	-2019.0	1016.9	79605.8	1305000.0	-471511.0	286.0
1264.235	-2453.1	1148.9	84520.8	1468000.0	621257.0	390.0
1264.236	-2227.0	1019.8	73739.9	1302000.0	284074.0	279.0
1264.237	-2214.8	1310.6	104800.0	1686000.0	1523000.0	221.0
1264.238	-1989.4	1186.3	93931.3	1525000.0	1182000.0	140.0
1264.239	-2137.1	867.9	68648.5	1110000.0	190814.0	1276.0
1264.240	-1910.3	745.0	58014.4	950909.0	-145216.0	1136.0
1264.241	-2382.4	1014.7	81239.9	1298000.0	608670.0	1542.0
1264.242	-2155.2	891.8	70717.0	1139000.0	273408.0	1400.0
1264.243	-2207.2	874.4	69870.1	1119000.0	-919411.1	1275.0
1264.244	-1980.2	750.5	59276.4	958561.1	-1255000.0	1134.0
1264.245	-2416.1	866.7	63266.3	1101000.0	-167715.0	1245.0
1264.246	-2189.4	745.6	52587.2	944426.0	-504174.0	1107.0
1264.247	-2172.0	1051.2	83836.1	1346000.0	735985.0	1082.0
1264.248	-1955.1	917.3	73090.9	1174000.0	377084.0	1158.0
1264.249	-1404.7	567.2	42355.9	729429.0	-681181.0	-574.0
1264.250	-1179.9	441.5	31581.1	566936.0	-1022000.0	-628.0

1264.251	-1412.6	605.2	46044.8	780413.0	-555221.0	-829.0
1264.252	-1187.8	478.4	35233.5	616756.0	-896708.0	-886.0
1264.253	-1474.7	572.6	43420.5	736843.0	-1791000.0	-575.0
1264.254	-1252.1	442.4	32751.0	569227.0	-2134000.0	-581.0
1264.255	-1681.9	574.1	37501.3	731694.0	-1037000.0	-590.0
1264.256	-1456.5	443.3	26753.8	563406.0	-1378000.0	-653.0
1264.257	-1450.3	741.9	57384.0	955558.0	-155963.0	-574.0
1264.258	-1223.8	614.7	46603.7	791268.0	-497739.0	-647.0
1264.401	-1550.2	501.8	64092.8	2777000.0	1860000.0	488.0
1264.402	-1846.5	636.1	89034.5	2973000.0	2363000.0	-1543.0
1264.403	-1747.8	-681.3	33031.8	1309000.0	1530000.0	276.0
1264.404	-2047.0	-498.9	57558.8	1564000.0	2022000.0	-1671.0
1264.405	348.2	1766.3	-178200.0	-320536.0	-1353000.0	2966.0
1264.406	42.1	2115.4	-153000.0	136301.0	-868308.0	1076.0
1264.407	109.5	-99.7	-230400.0	-2646000.0	-1788000.0	2110.0
1264.408	-182.2	136.7	-203600.0	-2319000.0	-1283000.0	88.0
1264.409	-1516.6	209.9	64909.6	2427000.0	1856000.0	560.0
1264.410	-1810.5	359.9	90811.2	2643000.0	2366000.0	-1436.0
1264.411	-1772.5	-376.2	31027.5	1680000.0	1530000.0	170.0
1264.412	-2075.0	-200.2	55482.7	1927000.0	2016000.0	-1718.0
1264.413	378.0	1453.6	-179000.0	-686085.0	-1366000.0	3088.0
1264.414	68.4	1863.5	-153600.0	-157565.0	-883905.9	1251.0
1264.415	65.4	267.7	-231000.0	-2217000.0	-1792000.0	2036.0
1264.416	-225.4	492.2	-204100.0	-1903000.0	-1286000.0	-1.2
1264.417	-1512.9	484.4	41894.5	2663000.0	1630000.0	3164.0
1264.418	-1811.0	581.9	65388.7	2810000.0	2123000.0	1088.0
1264.419	-1701.3	-689.0	10387.8	1217000.0	1296000.0	2885.0
1264.420	-2001.0	-513.2	33901.7	1463000.0	1779000.0	931.0
1264.421	361.7	1737.3	-141400.0	-235785.0	-993457.0	280.0
1264.422	49.6	2169.1	-116600.0	317631.0	-510964.0	-1564.0
1264.423	131.7	-138.5	-192400.0	-2574000.0	-1431000.0	-521.0
1264.424	-162.0	109.4	-166100.0	-2233000.0	-928730.9	-2519.0
1264.425	-1484.1	174.7	39769.6	2287000.0	1601000.0	3133.0
1264.426	-1784.3	311.0	63442.1	2483000.0	2091000.0	1115.0
1264.427	-1728.5	-386.5	9560.1	1587000.0	1298000.0	2854.0
1264.428	-2028.1	-214.8	33158.9	1828000.0	1782000.0	889.0
1264.429	394.2	1464.4	-142100.0	-556080.0	-1007000.0	407.0
1264.430	77.1	1894.0	-118900.0	-11034.0	-533422.0	-1413.0
1264.431	88.4	222.6	-192400.0	-2150000.0	-1427000.0	-598.0
1264.432	-204.0	448.3	-166000.0	-1835000.0	-924024.0	-2610.0
1264.433	-470.5	1878.0	72691.6	2971000.0	1461000.0	1153.0
1264.434	-769.0	2054.4	95521.5	3217000.0	1948000.0	-817.0
1264.435	-1178.1	-2145.4	-46482.6	-2008000.0	193112.0	233.0
1264.436	-1480.0	-1955.7	-23438.6	-1745000.0	677532.0	-1733.0
1264.437	31.2	3801.4	8597.8	3910000.0	429180.0	3497.0
1264.438	-275.4	4032.8	29550.2	4216000.0	901704.0	1506.0
1264.439	-652.2	-2251.1	-124600.0	-3582000.0	-786245.0	667.0
1264.440	-937.7	-2007.0	-96488.4	-3241000.0	-274285.0	-1350.0
1264.441	-484.1	1873.5	60371.4	2931000.0	1351000.0	1895.0
1264.442	-783.8	2054.2	83950.5	3182000.0	1841000.0	-71.0
1264.443	-1160.7	-2142.3	-51857.2	-2027000.0	130393.0	1018.0
1264.444	-1460.7	-1956.5	-28982.5	-1768000.0	613311.0	-964.0
1264.445	33.4	3797.8	17645.7	3933000.0	532338.0	2726.0
1264.446	-272.1	4051.8	39117.7	4268000.0	1008000.0	760.0
1264.447	-648.5	-2275.0	-115500.0	-3575000.0	-692650.0	-129.0
1264.448	-933.8	-2027.8	-87278.8	-3231000.0	-177735.0	-2145.0
1264.449	-330.9	1159.5	83086.3	2111000.0	1458000.0	1793.0
1264.450	-633.1	1377.3	105500.0	2405000.0	1944000.0	-135.0
1264.451	-1266.2	-1090.7	-51969.9	-719229.0	170777.0	119.0
1264.452	-1566.5	-904.3	-29181.6	-460507.0	650090.0	-1849.0
1264.453	79.8	3013.6	-10515.1	2911000.0	299208.0	4038.0
1264.454	-229.1	3276.3	10345.5	3253000.0	772531.0	2057.0

1264.455	-739.2	-1167.6	-123100.0	-2298000.0	-760094.0	501.0
1264.456	-1024.4	-955.0	-96181.7	-1988000.0	-260494.0	-1529.0
1264.457	-342.2	1135.4	70484.0	2049000.0	1349000.0	2561.0
1264.458	-644.8	1349.0	93321.9	2339000.0	1837000.0	630.0
1264.459	-1251.2	-1091.8	-57967.5	-743002.0	106237.0	918.0
1264.460	-1550.4	-906.4	-35432.1	-485850.0	583796.0	-1069.0
1264.461	83.6	3016.8	-673.0	2945000.0	403447.0	3277.0
1264.462	-225.4	3281.8	19727.8	3289000.0	875412.0	1309.0
1264.463	-751.3	-1168.0	-114800.0	-2268000.0	-672442.0	-285.0
1264.464	-1036.7	-954.8	-87802.5	-1957000.0	-170515.0	-2321.0
1264.529	-383.6	416.5	10189.4	1127000.0	444008.0	3354.0
1264.530	-1360.1	821.1	94180.4	1726000.0	2144000.0	-3451.0
1264.531	-588.5	-778.1	-23450.8	-351376.0	90287.0	3086.0
1264.532	-1590.9	-180.8	55903.5	485439.0	1720000.0	-3482.0
1264.533	186.6	1022.8	-56965.4	477250.0	-497973.0	4374.0
1264.534	-841.1	2251.1	21427.1	2074000.0	1090000.0	-1895.0
1264.535	-64.1	-769.1	-109000.0	-1764000.0	-940643.0	3629.0
1264.536	-1025.2	95.7	-17474.7	-579803.0	753395.0	-2983.0
1264.537	-337.3	143.6	14203.7	802147.0	456703.0	3457.0
1264.538	-1312.0	565.3	98083.9	1423000.0	2157000.0	-3332.0
1264.539	-616.1	-468.8	-25032.8	26364.0	85382.0	3059.0
1264.540	-1618.4	110.5	52219.9	838078.0	1701000.0	-3558.0
1264.541	206.9	739.9	-60041.1	136978.0	-524082.0	4512.0
1264.542	-840.1	2065.6	16821.8	1829000.0	1058000.0	-1695.0
1264.543	-109.3	-402.5	-109400.0	-1339000.0	-942037.0	3556.0
1264.544	-1053.1	369.7	-17989.0	-247373.0	746565.0	-3085.0
1264.545	-384.3	388.0	720.4	1061000.0	360250.0	4073.0
1264.546	-1369.2	810.3	82367.9	1678000.0	2029000.0	-2670.0
1264.547	-573.1	-777.5	-29021.3	-373742.0	28404.0	3876.0
1264.548	-1575.7	-185.8	47870.7	453353.0	1638000.0	-2715.0
1264.549	183.5	1052.3	-46229.3	544018.0	-391273.0	3623.0
1264.550	-844.9	2267.2	31249.5	2119000.0	1198000.0	-2691.0
1264.551	-56.3	-781.0	-97067.1	-1742000.0	-831225.0	2841.0
1264.552	-1020.1	72.2	-7309.2	-572767.0	856180.0	-3772.0
1264.553	-341.2	120.5	3826.6	741170.0	362526.0	4187.0
1264.554	-1322.5	562.5	86428.1	1384000.0	2045000.0	-2569.0
1264.555	-600.8	-466.9	-30584.7	6185.0	23284.0	3860.0
1264.556	-1604.0	101.7	45874.3	803008.0	1629000.0	-2756.0
1264.557	208.7	739.5	-50042.4	168236.0	-421344.0	3714.0
1264.558	-842.1	2069.8	25980.4	1862000.0	1161000.0	-2502.0
1264.559	-104.0	-422.0	-97787.0	-1323000.0	-833828.0	2774.0
1264.560	-1055.1	369.2	-7520.1	-216468.0	853625.0	-3855.0
1265.1	972.4	-406.2	34372.5	520055.0	-559471.0	-403.0
1265.2	745.3	-289.6	24494.7	370566.0	-892938.0	-300.0
1265.3	1042.5	-411.8	34993.7	526817.0	-1671000.0	-407.0
1265.4	815.5	-295.1	25132.8	377366.0	-2004000.0	-305.0
1265.5	1016.7	-572.4	48316.8	733780.0	-35303.0	-385.0
1265.6	792.4	-454.8	38297.4	582608.0	-376872.0	-333.0
1265.7	2015.5	-1262.5	107300.0	1622000.0	2157000.0	-358.0
1265.8	1789.2	-1146.1	97497.9	1473000.0	1823000.0	-269.0
1265.9	1758.2	-1051.8	89443.0	1351000.0	1497000.0	-360.0
1265.10	1531.9	-934.7	79472.1	1201000.0	1153000.0	-281.0
1265.11	1829.1	-1056.7	90048.0	1357000.0	384332.0	-367.0
1265.12	1602.6	-940.0	80229.4	1208000.0	48564.0	-278.0
1265.13	1803.8	-1217.8	103100.0	1565000.0	2006000.0	-388.0
1265.14	1577.5	-1101.0	93326.2	1415000.0	1671000.0	-293.0
1265.15	1075.5	-488.2	41181.2	625448.0	-298832.0	-426.0
1265.16	869.7	-324.4	27593.1	415080.0	-819644.1	-393.0
1265.17	847.8	-371.6	31267.1	475830.0	-632566.0	-309.0
1265.18	642.9	-207.6	17704.9	265374.0	-1153000.0	-291.0
1265.19	1140.8	-543.7	45883.7	697000.0	-114475.0	-368.0

1265.20	801.3	-269.9	23071.2	345084.0	-993030.0	-385.0
1265.21	914.6	-426.6	35937.9	546698.0	-450777.0	-276.0
1265.22	575.0	-152.9	13184.1	195132.0	-1327000.0	-291.0
1265.23	1143.6	-493.8	41869.5	632326.0	-1404000.0	-378.0
1265.24	940.0	-330.1	28221.3	422016.0	-1930000.0	-400.0
1265.25	918.1	-376.8	31905.5	482178.0	-1744000.0	-314.0
1265.26	713.8	-213.1	18356.2	272115.0	-2265000.0	-308.0
1265.27	1118.6	-654.8	55156.5	839559.0	228934.0	-381.0
1265.28	917.0	-489.5	41395.9	627040.0	-303841.0	-430.0
1265.29	894.7	-536.7	44978.7	687681.0	-116300.0	-339.0
1265.30	689.9	-372.5	31497.1	476976.0	-637818.0	-319.0
1265.31	2117.3	-1344.7	114000.0	1728000.0	2419000.0	-356.0
1265.32	1914.3	-1181.0	100600.0	1518000.0	1897000.0	-375.0
1265.33	1890.9	-1228.2	104300.0	1579000.0	2084000.0	-265.0
1265.34	1687.9	-1064.4	90777.7	1369000.0	1562000.0	-283.0
1265.35	1927.5	-1188.0	100600.0	1526000.0	1932000.0	-341.0
1265.36	1588.5	-914.6	78100.3	1175000.0	1056000.0	-368.0
1265.37	1701.2	-1071.4	90834.0	1377000.0	1597000.0	-252.0
1265.38	1362.2	-797.5	68133.2	1025000.0	715250.0	-282.0
1265.39	1859.6	-1133.3	96140.2	1456000.0	1757000.0	-343.0
1265.40	1656.5	-969.5	82625.4	1246000.0	1231000.0	-368.0
1265.41	1633.3	-1016.5	86309.4	1306000.0	1422000.0	-254.0
1265.42	1430.1	-852.4	72658.7	1095000.0	889884.9	-282.0
1265.43	1930.9	-1138.9	96809.3	1463000.0	646832.0	-366.0
1265.44	1727.2	-974.5	83288.1	1252000.0	121852.0	-369.0
1265.45	1704.4	-1022.3	87015.7	1313000.0	311202.0	-276.0
1265.46	1500.8	-857.8	73451.4	1102000.0	-214002.0	-280.0
1265.47	1905.6	-1300.2	109900.0	1670000.0	2268000.0	-388.0
1265.48	1702.0	-1135.4	96333.9	1459000.0	1744000.0	-387.0
1265.49	1679.3	-1183.4	100100.0	1521000.0	1933000.0	-294.0
1265.50	1475.6	-1018.6	86541.3	1309000.0	1409000.0	-293.0
1265.51	1029.7	-575.8	47277.3	733177.0	-313658.0	-501.0
1265.52	807.1	-472.9	36481.9	599541.0	-660669.0	-420.0
1265.53	1076.5	-722.2	53527.9	914215.1	-179559.0	-618.0
1265.54	848.3	-611.1	42496.2	772674.0	-524909.0	-527.0
1265.55	1099.5	-579.7	48291.2	738173.0	-1423000.0	-507.0
1265.56	877.0	-476.5	37486.6	604228.0	-1770000.0	-426.0
1265.57	1072.5	-721.1	62358.2	921482.0	216104.0	-505.0
1265.58	849.5	-618.9	51436.4	788388.0	-130627.0	-410.0
1265.59	2054.9	-1327.8	122400.0	1702000.0	2403000.0	-390.0
1265.60	1830.1	-1217.5	112500.0	1561000.0	2068000.0	-299.0
1265.61	1799.4	-1125.3	104400.0	1442000.0	1736000.0	-397.0
1265.62	1576.6	-1018.1	94615.0	1305000.0	1403000.0	-317.0
1265.63	1851.7	-1301.0	113400.0	1667000.0	1917000.0	-608.0
1265.64	1627.4	-1196.8	102700.0	1532000.0	1574000.0	-511.0
1265.65	1871.4	-1127.6	105500.0	1445000.0	629892.0	-410.0
1265.66	1646.6	-1020.0	95566.6	1307000.0	293915.0	-320.0
1265.67	1845.4	-1285.2	118600.0	1648000.0	2260000.0	-419.0
1265.68	1620.5	-1173.2	108700.0	1504000.0	1924000.0	-319.0
1265.69	971.8	-349.7	6919.3	407189.0	-851246.0	-321.0
1265.70	748.4	-218.0	-4288.9	235195.0	-1191000.0	-210.0
1265.71	980.2	-278.0	-14709.5	280082.0	-1059000.0	-238.0
1265.72	753.9	-150.8	-25618.7	115136.0	-1395000.0	-132.0
1265.73	1041.2	-353.9	7840.8	413450.0	-1961000.0	-326.0
1265.74	818.0	-225.6	-3373.0	245558.0	-2301000.0	-219.0
1265.75	1014.7	-540.1	22521.2	654794.0	-328391.0	-359.0
1265.76	790.2	-402.5	11370.6	476177.0	-666283.0	-239.0
1265.77	2011.6	-1317.9	85127.7	1658000.0	1862000.0	-440.0
1265.78	1786.8	-1192.2	74616.3	1496000.0	1527000.0	-347.0
1265.79	1755.7	-1086.7	66304.4	1360000.0	1195000.0	-425.0
1265.80	1530.4	-958.6	55774.2	1195000.0	858794.1	-319.0
1265.81	1758.3	-1019.0	46225.4	1243000.0	995538.9	-342.0

1265.82	1532.5	-877.1	35274.8	1060000.0	659869.0	-217.0
1265.83	1825.4	-1091.1	66984.4	1366000.0	83467.0	-431.0
1265.84	1600.0	-962.5	56440.0	1200000.0	-252871.0	-327.0
1265.85	1799.7	-1265.4	81097.8	1591000.0	1717000.0	-440.0
1265.86	1574.6	-1138.9	70598.3	1428000.0	1380000.0	-339.0
1265.87	1700.7	-846.6	75642.1	1092000.0	738698.0	-1086.0
1265.88	1476.2	-731.5	65649.5	944057.0	402514.0	-983.0
1265.89	1942.3	-995.3	88841.2	1284000.0	1160000.0	-1313.0
1265.90	1717.7	-879.9	78842.2	1135000.0	823646.0	-1208.0
1265.91	1770.1	-846.5	76550.9	1093000.0	-371902.0	-1083.0
1265.92	1545.8	-732.7	66658.1	946386.1	-706419.0	-983.0
1265.93	1744.9	-1010.4	90040.9	1304000.0	1262000.0	-1105.0
1265.94	1527.4	-893.1	79886.8	1153000.0	907986.1	-1160.0
1265.95	1800.9	-929.3	82632.8	1199000.0	1001000.0	-1091.0
1265.96	1599.9	-762.6	68569.5	984255.0	474064.0	-1070.0
1265.97	1576.8	-815.1	72675.3	1052000.0	665794.0	-993.0
1265.98	1375.4	-647.5	58585.5	835890.1	138032.0	-968.0
1265.99	1866.4	-984.8	87333.6	1270000.0	1175000.0	-1094.0
1265.100	1532.9	-706.7	63859.4	912157.0	298459.0	-1064.0
1265.101	1642.2	-869.7	77347.0	1122000.0	839334.9	-994.0
1265.102	1309.2	-592.2	53910.8	764766.0	-36472.0	-965.0
1265.103	2040.9	-1077.4	95846.0	1390000.0	1421000.0	-1316.0
1265.104	1841.5	-911.3	81766.7	1176000.0	895033.0	-1296.0
1265.105	1816.7	-962.2	85840.6	1241000.0	1085000.0	-1213.0
1265.106	1617.0	-795.9	71771.2	1027000.0	558972.0	-1193.0
1265.107	1871.1	-930.4	83654.5	1201000.0	-106164.0	-1095.0
1265.108	1675.6	-760.7	69401.2	982403.0	-649376.0	-1200.0
1265.109	1646.2	-815.4	73648.9	1053000.0	-444373.0	-990.0
1265.110	1448.5	-647.5	59485.9	836509.0	-980807.0	-1046.0
1265.111	1853.4	-1093.3	96637.3	1410000.0	1500000.0	-1303.0
1265.112	1644.2	-926.5	83002.4	1196000.0	998809.9	-1095.0
1265.113	1619.3	-979.0	87001.4	1263000.0	1186000.0	-1007.0
1265.114	1425.9	-809.5	72887.9	1045000.0	646468.0	-1134.0
1265.115	1756.2	-960.9	91570.6	1241000.0	1007000.0	-1132.0
1265.116	1532.3	-857.0	80852.2	1106000.0	663081.0	-1040.0
1265.117	1800.7	-1102.2	98232.2	1416000.0	1151000.0	-1212.0
1265.118	1578.3	-1003.7	87169.4	1287000.0	798958.0	-1124.0
1265.119	1995.0	-1086.0	106100.0	1406000.0	1440000.0	-1348.0
1265.120	1769.5	-986.4	95472.4	1277000.0	1098000.0	-1254.0
1265.121	1826.1	-964.0	92470.4	1245000.0	-102687.0	-1137.0
1265.122	1602.2	-860.2	81736.0	1110000.0	-447348.0	-1042.0
1265.123	1799.8	-1094.1	106600.0	1414000.0	1537000.0	-1123.0
1265.124	1575.5	-1002.2	95813.2	1294000.0	1192000.0	-1036.0
1265.125	1713.1	-847.7	47688.9	1049000.0	416281.0	-1042.0
1265.126	1486.7	-681.9	36538.1	836770.0	82036.0	-891.0
1265.127	1716.3	-731.5	26413.3	870240.1	217495.0	-927.0
1265.128	1492.4	-598.1	15289.6	696510.0	-121399.0	-806.0
1265.129	1954.8	-987.4	60996.3	1231000.0	833751.0	-1260.0
1265.130	1730.2	-868.3	50102.5	1075000.0	497107.0	-1148.0
1265.131	1782.6	-836.2	48519.3	1036000.0	-693496.0	-1036.0
1265.132	1556.3	-690.6	37571.4	848622.0	-1027000.0	-904.0
1265.133	1756.5	-1021.1	62924.2	1275000.0	939997.0	-1068.0
1265.134	1531.5	-887.5	52114.2	1102000.0	602844.0	-957.0
1265.135	1005.9	-501.0	37969.4	634601.0	-222282.0	327.0
1265.136	780.5	-384.0	28063.5	484484.0	-554835.0	410.0
1265.137	1018.4	-531.7	39133.7	671588.0	-110863.0	548.0
1265.138	792.2	-415.0	29207.4	521746.0	-444950.0	634.0
1265.139	1076.6	-506.1	38482.7	640740.0	-1334000.0	315.0
1265.140	850.6	-389.3	28584.0	490802.0	-1668000.0	402.0
1265.141	1051.4	-666.8	51697.4	847380.9	294887.0	321.0
1265.142	825.2	-549.9	41765.5	697427.0	-38979.0	406.0
1265.143	1107.4	-583.3	44786.8	740444.0	38866.0	330.0

1265.144	905.1	-418.9	31197.8	529078.0	-481282.0	318.0
1265.145	881.5	-466.0	34826.6	589916.0	-295498.0	419.0
1265.146	679.0	-301.6	21245.8	378587.0	-815542.0	409.0
1265.147	1175.1	-638.2	49322.1	810939.0	212890.0	332.0
1265.148	837.4	-364.2	26637.8	458713.0	-655093.0	316.0
1265.149	949.3	-520.9	39349.7	660376.0	-121524.0	422.0
1265.150	611.2	-246.9	16680.5	308193.0	-989851.9	407.0
1265.151	1120.0	-614.0	45933.4	777330.0	150262.0	552.0
1265.152	917.1	-449.8	32356.8	566294.0	-370696.0	541.0
1265.153	894.1	-496.7	35945.8	626711.0	-184339.0	641.0
1265.154	691.0	-332.5	22411.2	415787.0	-704497.0	634.0
1265.155	1178.4	-587.9	45264.8	745832.0	-1073000.0	322.0
1265.156	975.7	-423.9	31699.9	535042.0	-1593000.0	311.0
1265.157	952.2	-471.4	35395.6	596317.0	-1407000.0	407.0
1265.158	749.5	-306.7	21756.5	384609.0	-1928000.0	403.0
1265.159	1152.9	-749.1	58486.4	953087.0	555922.0	324.0
1265.160	949.6	-585.0	44958.9	742367.0	34518.0	313.0
1265.161	927.1	-631.7	48496.8	802440.0	221351.0	414.0
1265.162	723.7	-467.5	34968.7	591588.0	-300122.0	403.0
1265.163	1063.6	-653.3	50568.5	823424.0	8026.0	173.0
1265.164	839.6	-555.6	40088.9	697211.0	-332327.0	250.0
1265.165	1112.1	-816.4	57321.5	1027000.0	154731.0	31.0
1265.166	889.4	-709.9	46681.1	889862.0	-187078.0	103.0
1265.167	1076.8	-678.8	51742.7	853273.1	115579.0	384.0
1265.168	851.9	-583.1	41246.6	729925.0	-224602.0	464.0
1265.169	1134.0	-657.1	51330.2	828058.0	-1102000.0	165.0
1265.170	909.7	-558.4	40865.9	700748.0	-1443000.0	244.0
1265.171	1106.3	-768.9	65633.6	973934.9	539608.0	218.0
1265.172	883.2	-696.3	54673.2	879019.1	193797.0	260.0
1265.173	996.9	-498.5	15528.9	600823.0	-492136.0	270.0
1265.174	772.0	-353.3	4370.7	413083.0	-829708.0	393.0
1265.175	1003.4	-422.4	-6107.6	469091.0	-697538.0	352.0
1265.176	780.4	-292.8	-17300.6	299607.0	-1037000.0	458.0
1265.177	1004.7	-545.1	18219.5	661277.0	-372684.0	482.0
1265.178	779.6	-400.2	7215.5	474420.0	-710572.0	602.0
1265.179	1066.3	-504.7	16470.9	609557.0	-1602000.0	260.0
1265.180	841.7	-362.2	5285.6	425000.0	-1940000.0	383.0
1265.181	1041.4	-676.8	30607.7	831900.0	29613.0	254.0
1265.182	815.3	-555.0	19937.7	674206.0	-306502.0	350.0
1265.183	1403.8	-378.6	16581.8	463908.0	-1147000.0	-326.0
1265.184	1179.5	-267.5	6600.8	321410.0	-1481000.0	-239.0
1265.185	1474.6	-383.1	17252.1	469365.0	-2258000.0	-335.0
1265.186	1250.0	-271.5	7233.5	326143.0	-2593000.0	-245.0
1265.187	1696.4	-373.9	4221.0	443505.0	-1543000.0	-304.0
1265.188	1471.0	-263.5	-6271.6	301017.0	-1883000.0	-206.0
1265.189	1447.3	-539.8	30331.1	670456.0	-630135.0	-329.0
1265.190	1222.5	-425.3	20372.5	523652.0	-964880.9	-237.0
1265.191	2459.1	-1227.3	89034.9	1556000.0	1547000.0	-475.0
1265.192	2215.2	-1113.3	79104.7	1408000.0	1215000.0	-260.0
1265.193	2198.4	-1016.4	71113.6	1284000.0	882526.0	-421.0
1265.194	1958.0	-901.7	61199.3	1136000.0	550512.0	-228.0
1265.195	2264.4	-1023.1	71976.9	1293000.0	-222687.0	-351.0
1265.196	2028.6	-907.2	61946.4	1143000.0	-560909.0	-239.0
1265.197	2473.0	-996.8	59098.0	1244000.0	490894.0	-271.0
1265.198	2248.3	-881.6	49047.3	1096000.0	155409.0	-177.0
1265.199	2243.5	-1182.7	85009.7	1498000.0	1401000.0	-427.0
1265.200	2006.9	-1066.8	74895.0	1347000.0	1060000.0	-328.0
1265.201	2133.8	-807.3	57777.6	1022000.0	149132.0	-988.0
1265.202	1909.8	-690.5	47736.1	872369.1	-197379.0	-933.0
1265.203	2373.1	-953.5	71495.8	1213000.0	574700.0	-1224.0
1265.204	2147.9	-836.1	61668.0	1062000.0	238057.0	-1112.0
1265.205	2204.0	-812.3	58541.9	1029000.0	-962909.9	-992.0

1265.206	1980.3	-695.3	48605.7	878551.0	-1308000.0	-940.0
1265.207	2427.0	-785.6	45478.7	980565.1	-255546.0	-981.0
1265.208	2202.1	-672.3	35489.3	835126.9	-590495.0	-884.0
1265.209	2179.2	-974.4	71723.2	1237000.0	669322.0	-1010.0
1265.210	1956.1	-856.9	61670.5	1086000.0	320077.0	-976.0
1265.211	1441.1	-472.7	19766.3	576802.0	-812907.0	398.0
1265.212	1215.4	-360.0	9636.6	431916.0	-1149000.0	486.0
1265.213	1453.1	-503.5	20909.6	613863.0	-702077.0	632.0
1265.214	1227.3	-391.2	10856.0	469572.0	-1038000.0	711.0
1265.215	1511.6	-476.9	20363.5	581847.0	-1925000.0	391.0
1265.216	1285.9	-364.0	10253.6	436712.0	-2261000.0	479.0
1265.217	1732.1	-465.9	7269.5	553196.0	-1213000.0	429.0
1265.218	1505.7	-357.6	-2533.4	414741.0	-1545000.0	486.0
1265.219	1486.3	-634.0	33543.6	783872.0	-294959.0	398.0
1265.220	1260.6	-519.4	23521.0	636693.0	-630620.0	488.0
1265.221	554.2	-390.3	40862.0	510272.0	-25133.0	-392.0
1265.222	329.1	-270.8	30699.7	356678.0	-364224.0	-314.0
1265.223	625.3	-394.7	41311.4	515383.0	-1141000.0	-417.0
1265.224	399.1	-275.2	31172.7	362001.0	-1476000.0	-318.0
1265.225	277.5	-374.1	44652.7	495844.0	325509.0	-390.0
1265.226	53.3	-253.7	34428.2	341139.0	-14243.0	-327.0
1265.227	599.5	-558.8	54970.0	726930.0	497688.0	-406.0
1265.228	373.5	-439.2	44824.8	573357.0	160606.0	-308.0
1265.229	1596.8	-1252.9	114300.0	1621000.0	2688000.0	-386.0
1265.230	1370.4	-1136.5	104500.0	1472000.0	2355000.0	-300.0
1265.231	1340.1	-1041.5	96352.9	1349000.0	2021000.0	-399.0
1265.232	1113.4	-925.0	86383.1	1200000.0	1685000.0	-311.0
1265.233	1410.7	-1046.1	96821.4	1355000.0	908178.0	-409.0
1265.234	1184.2	-929.5	87022.2	1205000.0	573371.0	-319.0
1265.235	1061.7	-1032.6	100700.0	1345000.0	2374000.0	-413.0
1265.236	835.5	-914.0	90604.1	1193000.0	2038000.0	-322.0
1265.237	1385.3	-1208.7	110200.0	1564000.0	2539000.0	-419.0
1265.238	1158.8	-1091.6	100300.0	1414000.0	2203000.0	-327.0
1265.239	1283.5	-816.6	81644.6	1065000.0	1268000.0	-1083.0
1265.240	1058.8	-700.5	71740.0	915992.0	931746.0	-980.0
1265.241	1524.8	-965.7	94988.1	1258000.0	1689000.0	-1312.0
1265.242	1300.2	-850.7	85066.2	1110000.0	1354000.0	-1209.0
1265.243	1353.8	-821.3	82454.9	1071000.0	157097.0	-1090.0
1265.244	1128.4	-702.4	72731.0	919222.0	-177249.0	-982.0
1265.245	1006.6	-798.6	85375.7	1049000.0	1617000.0	-1081.0
1265.246	781.2	-679.6	75645.2	896538.9	1283000.0	-974.0
1265.247	1328.1	-985.7	95855.5	1283000.0	1788000.0	-1106.0
1265.248	1102.9	-866.8	86067.1	1131000.0	1454000.0	-1002.0
1265.249	588.3	-490.8	44733.0	632049.0	308705.0	296.0
1265.250	363.4	-373.1	34792.7	481004.0	-23789.0	382.0
1265.251	601.2	-521.3	45883.8	668767.0	420867.0	516.0
1265.252	375.3	-403.7	35890.5	517772.0	86109.0	606.0
1265.253	659.5	-495.7	45325.0	638019.0	-802144.0	285.0
1265.254	433.4	-378.8	35357.4	487843.0	-1136000.0	371.0
1265.255	310.4	-482.9	49116.0	628781.0	662440.0	278.0
1265.256	82.7	-365.7	39255.5	478621.0	336183.0	436.0
1265.257	633.9	-657.0	58621.0	845542.0	827529.0	290.0
1265.258	407.9	-540.0	48685.5	695326.0	493497.0	375.0
1265.401	1114.2	-900.3	33046.5	1193000.0	1498000.0	1624.0
1265.402	1229.7	-1057.6	54824.0	1392000.0	1980000.0	-229.0
1265.403	964.3	-2497.9	141300.0	3181000.0	2263000.0	1481.0
1265.404	1074.8	-2634.5	163700.0	3356000.0	2755000.0	-333.0
1265.405	618.9	1961.3	-291300.0	-2844000.0	-2130000.0	-404.0
1265.406	733.5	1772.9	-269800.0	-2603000.0	-1660000.0	-2164.0
1265.407	436.5	-475.6	-163300.0	207030.0	-1278000.0	-1250.0
1265.408	547.1	-672.6	-141900.0	461134.0	-808752.0	-3013.0
1265.409	1126.3	-1223.2	25493.5	1554000.0	1441000.0	1560.0

1265.410	1239.1	-1380.3	46993.7	1754000.0	1920000.0	-274.0
1265.411	937.2	-2158.4	150100.0	2800000.0	2335000.0	1568.0
1265.412	1049.2	-2297.7	172500.0	2978000.0	2826000.0	-267.0
1265.413	616.6	1615.6	-295800.0	-2457000.0	-2164000.0	-365.0
1265.414	732.9	1438.0	-274400.0	-2229000.0	-1695000.0	-2124.0
1265.415	444.5	-142.6	-158000.0	-173795.0	-1237000.0	-1270.0
1265.416	555.7	-345.0	-136700.0	85623.0	-766516.0	-3026.0
1265.417	1060.4	-876.6	44055.2	1221000.0	1581000.0	1640.0
1265.418	1180.5	-1033.1	65188.4	1419000.0	2062000.0	-242.0
1265.419	896.1	-2508.2	156800.0	3248000.0	2371000.0	1447.0
1265.420	1010.2	-2653.2	178600.0	3434000.0	2861000.0	-419.0
1265.421	636.6	1932.1	-299300.0	-2855000.0	-2233000.0	-381.0
1265.422	751.3	1756.3	-278100.0	-2629000.0	-1766000.0	-2135.0
1265.423	438.5	-359.4	-169500.0	36630.0	-1358000.0	-1096.0
1265.424	547.0	-562.0	-148000.0	299153.0	-892222.0	-2880.0
1265.425	1072.6	-1199.2	37892.6	1581000.0	1537000.0	1550.0
1265.426	1192.8	-1362.4	58882.3	1788000.0	2018000.0	-325.0
1265.427	869.5	-2183.2	166700.0	2886000.0	2448000.0	1525.0
1265.428	984.0	-2326.5	188400.0	3069000.0	2938000.0	-328.0
1265.429	634.1	1611.3	-304100.0	-2492000.0	-2265000.0	-347.0
1265.430	747.8	1439.5	-282700.0	-2270000.0	-1799000.0	-2105.0
1265.431	445.6	-22.9	-164200.0	-350533.0	-1319000.0	-1095.0
1265.432	553.9	-227.7	-143000.0	-87145.0	-852709.9	-2857.0
1265.433	959.8	2267.9	-159900.0	-2784000.0	-467254.0	1369.0
1265.434	1076.6	2111.7	-141500.0	-2592000.0	-2399.0	-427.0
1265.435	463.1	-3343.9	217700.0	4176000.0	2273000.0	446.0
1265.436	581.8	-3519.3	236900.0	4398000.0	2741000.0	-1432.0
1265.437	868.5	3428.5	-262200.0	-4471000.0	-1558000.0	751.0
1265.438	972.2	3220.5	-239600.0	-4200000.0	-1078000.0	-1038.0
1265.439	374.0	-3810.6	120100.0	4573000.0	1088000.0	-1207.0
1265.440	483.2	-3915.0	141300.0	4715000.0	1564000.0	-2930.0
1265.441	952.0	2271.8	-154700.0	-2770000.0	-422868.0	1328.0
1265.442	1066.8	2113.6	-134600.0	-2573000.0	52714.0	-468.0
1265.443	440.9	-3361.2	223500.0	4214000.0	2315000.0	452.0
1265.444	561.3	-3535.7	242100.0	4434000.0	2781000.0	-1427.0
1265.445	872.0	3412.2	-265300.0	-4472000.0	-1595000.0	785.0
1265.446	975.1	3217.2	-242900.0	-4214000.0	-1118000.0	-999.0
1265.447	377.3	-3779.4	116800.0	4526000.0	1055000.0	-1224.0
1265.448	485.8	-3880.0	138000.0	4664000.0	1529000.0	-2942.0
1265.449	986.8	1195.7	-189600.0	-1576000.0	-676037.0	1230.0
1265.450	1103.8	1049.5	-171200.0	-1394000.0	-215775.0	-589.0
1265.451	366.2	-2388.9	247200.0	3128000.0	2456000.0	629.0
1265.452	482.1	-2565.7	266500.0	3351000.0	2925000.0	-1218.0
1265.453	874.1	2424.4	-282100.0	-3348000.0	-1697000.0	804.0
1265.454	980.6	2232.7	-259600.0	-3093000.0	-1222000.0	-1025.0
1265.455	353.7	-2859.8	136600.0	3500000.0	1222000.0	-1362.0
1265.456	459.0	-2985.0	157700.0	3667000.0	1703000.0	-3069.0
1265.457	978.3	1204.1	-186400.0	-1571000.0	-647642.0	1200.0
1265.458	1094.8	1055.1	-167100.0	-1384000.0	-181383.0	-620.0
1265.459	346.4	-2404.0	252200.0	3162000.0	2501000.0	649.0
1265.460	461.5	-2579.9	271300.0	3385000.0	2970000.0	-1180.0
1265.461	880.0	2422.3	-285100.0	-3355000.0	-1732000.0	811.0
1265.462	987.6	2235.9	-263400.0	-3110000.0	-1262000.0	-1011.0
1265.463	367.5	-2822.6	132800.0	3442000.0	1182000.0	-1332.0
1265.464	471.7	-2946.0	154000.0	3607000.0	1662000.0	-3033.0
1265.529	660.2	406.5	-46178.6	-483470.0	-50504.0	3170.0
1265.530	1047.1	-83.7	19959.3	135590.0	1515000.0	-2881.0
1265.531	506.4	-1253.2	67474.8	1580000.0	758335.0	2903.0
1265.532	882.8	-1614.1	137700.0	2040000.0	2382000.0	-3030.0
1265.533	530.4	1385.2	-146700.0	-1864000.0	-1149000.0	2537.0
1265.534	904.9	733.6	-73842.5	-1030000.0	432435.0	-3459.0
1265.535	373.9	-1234.4	-21405.1	1401000.0	-324140.0	1502.0

1265.536	734.6	-1597.8	46579.8	1894000.0	1246000.0	-4142.0
1265.537	669.1	89.6	-54797.6	-126691.0	-111708.0	3130.0
1265.538	1056.1	-397.7	10175.0	488920.0	1445000.0	-2921.0
1265.539	473.6	-911.5	77581.8	1197000.0	830825.0	3018.0
1265.540	849.1	-1312.8	146000.0	1707000.0	2446000.0	-2890.0
1265.541	534.3	1047.3	-152200.0	-1488000.0	-1189000.0	2575.0
1265.542	920.5	425.6	-80542.9	-686553.0	375678.0	-3431.0
1265.543	384.4	-932.8	-16355.8	1054000.0	-286411.0	1469.0
1265.544	732.7	-1344.6	52276.8	1609000.0	1294000.0	-4227.0
1265.545	647.1	413.7	-41103.4	-475144.0	-12336.0	3150.0
1265.546	1038.3	-85.2	25161.7	156362.0	1562000.0	-2928.0
1265.547	485.3	-1255.4	72793.5	1598000.0	794098.0	2911.0
1265.548	861.0	-1629.1	142300.0	2076000.0	2423000.0	-3046.0
1265.549	541.8	1380.1	-149700.0	-1873000.0	-1186000.0	2554.0
1265.550	909.6	731.6	-76146.4	-1041000.0	395570.0	-3442.0
1265.551	374.9	-1199.5	-22651.5	1352000.0	-343531.0	1548.0
1265.552	736.0	-1555.8	43664.4	1834000.0	1214000.0	-4126.0
1265.553	656.4	96.4	-49820.7	-117852.0	-73303.0	3108.0
1265.554	1045.7	-400.5	16467.9	512596.0	1498000.0	-2966.0
1265.555	453.0	-927.6	83226.0	1233000.0	865412.0	2993.0
1265.556	830.3	-1332.5	151500.0	1749000.0	2484000.0	-2940.0
1265.557	541.5	1041.9	-155000.0	-1495000.0	-1219000.0	2583.0
1265.558	926.1	434.6	-83125.1	-708880.0	343015.0	-3427.0
1265.559	385.4	-901.4	-17500.4	1009000.0	-307354.0	1509.0
1265.560	734.7	-1307.3	49882.2	1554000.0	1261000.0	-4165.0
1266.1	-1532.2	-88.1	-19608.7	42265.0	-542711.0	2004.0
1266.2	-1023.6	-68.4	-13145.1	24910.0	-682477.0	1293.0
1266.3	-1380.0	-102.7	-17413.2	28846.0	-1258000.0	1788.0
1266.4	-870.4	-83.7	-10926.8	11053.0	-1397000.0	1077.0
1266.5	-2252.5	-121.2	-29363.9	67473.0	-586017.0	217.0
1266.6	-1744.6	-101.5	-22949.2	50246.0	-724942.0	-507.0
1266.7	-5436.8	-248.9	-69269.6	174931.0	138398.0	22655.0
1266.8	-4930.4	-228.5	-62869.0	158377.0	121.0	21918.0
1266.9	-4472.7	-208.3	-57101.2	142782.0	-29947.0	17567.0
1266.10	-3964.7	-188.9	-50627.7	125627.0	-168195.0	16841.0
1266.11	-4318.1	-222.9	-54893.2	129816.0	-742794.0	17351.0
1266.12	-3812.6	-202.8	-48502.8	113149.0	-882308.0	16616.0
1266.13	-5192.5	-244.0	-66654.5	165964.0	-69722.0	15757.0
1266.14	-4686.4	-224.0	-60233.9	149273.0	-207966.0	15020.0
1266.15	-1909.6	-103.9	-24385.0	55184.0	-478349.0	4052.0
1266.16	-1149.7	-73.6	-14933.7	29160.0	-610231.0	12.0
1266.17	-1402.2	-83.9	-17869.7	37733.0	-617054.0	3326.0
1266.18	-640.4	-53.7	-8463.8	11818.0	-749452.0	-698.0
1266.19	-2163.2	-114.1	-27505.2	63693.0	-434045.0	5395.0
1266.20	-894.5	-64.0	-11818.5	20373.0	-655000.0	-1317.0
1266.21	-1655.8	-93.9	-21019.3	46408.0	-572524.0	4667.0
1266.22	-386.0	-44.1	-5376.2	3151.0	-793900.0	-2029.0
1266.23	-1758.2	-118.2	-22155.9	41766.0	-1193000.0	3826.0
1266.24	-996.9	-88.2	-12653.0	15434.0	-1325000.0	-205.0
1266.25	-1250.7	-98.9	-15695.4	24217.0	-1332000.0	3101.0
1266.26	-488.4	-68.7	-6234.8	-1881.0	-1464000.0	-918.0
1266.27	-2632.9	-136.6	-34008.6	80040.0	-518632.0	2223.0
1266.28	-1871.9	-105.8	-24707.0	54844.0	-652952.0	-1793.0
1266.29	-2116.6	-118.2	-27427.7	61485.0	-654278.0	1533.0
1266.30	-1364.6	-86.0	-18263.1	37555.0	-791505.0	-2522.0
1266.31	-5816.4	-265.2	-73898.4	186895.0	205617.0	24669.0
1266.32	-5056.5	-232.8	-64576.8	162614.0	72440.0	20636.0
1266.33	-5310.6	-244.8	-67547.7	170534.0	66194.0	23936.0
1266.34	-4551.1	-212.5	-58176.0	146089.0	-66914.0	19900.0
1266.35	-5103.2	-236.3	-64738.0	162046.0	83925.0	20929.0
1266.36	-3839.7	-180.7	-49377.0	123114.0	-141846.0	14212.0
1266.37	-4600.1	-215.9	-58377.5	145755.0	-57123.0	20189.0

1266.38	-3332.0	-161.7	-42883.3	105543.0	-280206.0	13485.0
1266.39	-4852.5	-224.7	-61750.0	154747.0	37207.0	19582.0
1266.40	-4092.9	-191.8	-52474.5	130984.0	-97121.0	15553.0
1266.41	-4346.9	-205.1	-55286.6	137778.0	-101894.0	18847.0
1266.42	-3585.1	-172.6	-45979.8	113569.0	-235410.0	14827.0
1266.43	-4696.9	-239.8	-59466.0	141364.0	-675624.0	19373.0
1266.44	-3939.9	-206.1	-50312.5	118286.0	-810705.0	15330.0
1266.45	-4191.1	-219.3	-53120.6	125015.0	-815257.0	18639.0
1266.46	-3434.3	-186.4	-43888.1	101327.0	-950112.0	14596.0
1266.47	-5572.2	-260.3	-71295.6	177978.0	-2500.0	17770.0
1266.48	-4812.1	-227.7	-62003.4	153885.0	-135814.0	13741.0
1266.49	-5066.4	-240.3	-64907.3	161412.0	-141914.0	17038.0
1266.50	-4307.7	-207.6	-55600.6	137327.0	-274887.0	12997.0
1266.51	-1424.2	-170.6	-36571.1	62597.0	-638904.0	4597.0
1266.52	-921.2	-145.5	-29860.2	47394.0	-778295.0	3858.0
1266.53	-1368.3	-215.9	-47221.1	79600.0	-703400.0	6244.0
1266.54	-866.7	-195.9	-39856.5	59810.0	-840620.0	5496.0
1266.55	-1270.9	-182.9	-34189.9	49729.0	-1353000.0	4385.0
1266.56	-767.8	-157.9	-27455.5	34392.0	-1492000.0	3648.0
1266.57	-2142.8	-202.1	-46036.7	87439.0	-678311.0	2797.0
1266.58	-1638.8	-178.8	-39011.1	70254.0	-816449.0	2065.0
1266.59	-5323.7	-310.8	-86527.1	206313.0	40034.0	25295.0
1266.60	-4821.6	-285.0	-79923.0	191588.0	-98754.0	24543.0
1266.61	-4362.2	-274.7	-74351.4	172213.0	-127585.0	20187.0
1266.62	-3858.8	-249.0	-67732.7	157421.0	-266944.0	19443.0
1266.63	-4303.7	-320.3	-84870.2	188343.0	-190989.0	21822.0
1266.64	-3802.0	-295.5	-78155.5	172722.0	-329586.0	21070.0
1266.65	-4209.3	-286.1	-72033.8	159983.0	-841546.0	19970.0
1266.66	-3705.6	-260.8	-65421.8	144984.0	-980896.0	19230.0
1266.67	-5081.5	-308.9	-83456.3	194510.0	-165795.0	18385.0
1266.68	-4576.3	-282.7	-76975.1	180310.0	-306228.0	17659.0
1266.69	-1637.1	48.2	-8038.4	72844.0	-458379.0	1948.0
1266.70	-1126.9	89.0	-2335.0	68061.0	-600343.0	1247.0
1266.71	-1701.0	193.2	-2026.3	124179.0	-407499.0	1951.0
1266.72	-1192.8	233.1	3467.4	119229.0	-549582.0	1239.0
1266.73	-1486.6	30.0	-6014.9	58585.0	-1174000.0	1717.0
1266.74	-978.1	70.0	-350.5	53466.0	-1316000.0	1014.0
1266.75	-2366.5	6.4	-17926.0	94382.0	-499726.0	73.0
1266.76	-1856.5	48.1	-12201.8	89980.0	-641498.0	-632.0
1266.77	-5602.2	-123.4	-58398.5	204876.0	217758.0	22200.0
1266.78	-5088.2	-82.8	-52664.5	199597.0	77170.0	21507.0
1266.79	-4621.4	-80.2	-46100.6	172924.0	51001.0	17217.0
1266.80	-4110.6	-39.5	-40578.6	168367.0	-91616.0	16518.0
1266.81	-4683.9	63.7	-40485.2	224331.0	99904.0	17228.0
1266.82	-4173.3	103.5	-34819.2	218985.0	-42550.0	16530.0
1266.83	-4469.0	-98.2	-44087.6	158779.0	-664520.0	16999.0
1266.84	-3958.3	-57.5	-38544.8	154115.0	-807062.0	16298.0
1266.85	-5355.4	-121.1	-55973.6	195133.0	9385.0	15320.0
1266.86	-4844.4	-80.3	-50406.1	190513.0	-132985.0	14620.0
1266.87	-2016.3	-107.9	-26742.6	63514.0	-556938.0	7038.0
1266.88	-1510.4	-86.2	-20732.1	48609.0	-698102.0	6306.0
1266.89	-2178.2	-112.7	-29415.5	72358.0	-563242.0	8665.0
1266.90	-1673.2	-89.7	-23195.5	57712.0	-703645.0	7928.0
1266.91	-1863.8	-123.6	-24754.9	50330.0	-1272000.0	6814.0
1266.92	-1357.4	-101.3	-18695.5	35610.0	-1412000.0	6083.0
1266.93	-2737.9	-141.8	-36513.9	88431.0	-597235.0	5217.0
1266.94	-2232.1	-119.2	-30447.2	73847.0	-738162.0	4482.0
1266.95	-2394.5	-123.4	-31431.1	76115.0	-489702.0	9061.0
1266.96	-1636.8	-92.1	-22101.4	51160.0	-624268.0	5026.0
1266.97	-1888.7	-101.5	-25308.4	61068.0	-630045.0	8324.0
1266.98	-1130.9	-70.9	-16098.8	35978.0	-765030.0	4291.0
1266.99	-2647.4	-133.6	-34556.6	84626.0	-444945.0	10405.0

1266.100	-1383.5	-81.7	-18981.2	42792.0	-668718.0	3684.0
1266.101	-2141.6	-111.5	-28417.8	69631.0	-585123.0	9667.0
1266.102	-878.8	-60.8	-12975.1	27420.0	-809819.0	2943.0
1266.103	-2556.5	-127.8	-34039.4	85026.0	-495693.0	10687.0
1266.104	-1798.8	-97.2	-24823.8	59922.0	-630608.0	6651.0
1266.105	-2051.3	-104.7	-27840.8	70472.0	-636490.0	9952.0
1266.106	-1293.9	-74.2	-18583.0	45209.0	-770597.0	5912.0
1266.107	-2241.8	-138.8	-29426.0	63069.0	-1204000.0	8837.0
1266.108	-1486.1	-108.0	-20143.0	37959.0	-1339000.0	4790.0
1266.109	-1736.0	-116.3	-23362.5	48482.0	-1345000.0	8104.0
1266.110	-980.0	-85.8	-14129.8	23361.0	-1480000.0	4058.0
1266.111	-3117.3	-157.1	-41205.1	101160.0	-530088.0	7230.0
1266.112	-2358.5	-126.7	-31803.4	75484.0	-664321.0	3203.0
1266.113	-2611.7	-135.2	-35035.0	85972.0	-670659.0	6496.0
1266.114	-1852.4	-104.3	-25772.2	60922.0	-805391.0	2472.0
1266.115	-1919.6	-167.2	-42535.5	91088.0	-651841.0	9594.0
1266.116	-1416.8	-143.5	-35786.2	74920.0	-790800.0	8851.0
1266.117	-1863.9	-213.7	-53161.7	107211.0	-715696.0	11235.0
1266.118	-1361.9	-188.5	-46491.9	92388.0	-854953.0	10495.0
1266.119	-2082.1	-166.0	-44518.9	100462.0	-656115.0	11227.0
1266.120	-1578.7	-143.6	-37666.2	83460.0	-794925.0	10489.0
1266.121	-1766.2	-179.5	-40116.7	78052.0	-1365000.0	9381.0
1266.122	-1263.2	-156.0	-33358.0	61783.0	-1504000.0	8642.0
1266.123	-2639.7	-197.9	-52079.7	116490.0	-691235.0	7783.0
1266.124	-2136.0	-174.9	-45123.2	99328.0	-829412.0	7048.0
1266.125	-2143.2	65.1	-17479.7	118686.0	-482228.0	6846.0
1266.126	-1632.8	104.1	-11695.8	112528.0	-623921.0	6141.0
1266.127	-2207.6	210.5	-11409.4	169931.0	-431398.0	6837.0
1266.128	-1696.8	248.1	-5879.7	163522.0	-573896.0	6133.0
1266.129	-2310.2	69.8	-20442.0	132940.0	-489299.0	8437.0
1266.130	-1799.3	107.6	-14756.4	126334.0	-631422.0	7737.0
1266.131	-1991.7	47.4	-15443.9	104548.0	-1197000.0	6617.0
1266.132	-1481.4	85.1	-9703.4	97839.0	-1339000.0	5912.0
1266.133	-2874.5	24.2	-27263.9	140502.0	-523036.0	4959.0
1266.134	-2363.9	63.6	-21597.5	134879.0	-664829.0	4253.0
1266.135	-3472.8	-163.8	-44209.1	108423.0	-15935.0	8060.0
1266.136	-2964.7	-144.4	-37680.9	90739.0	-155555.0	7349.0
1266.137	-4107.7	-189.4	-52162.0	129411.0	156919.0	10048.0
1266.138	-3599.3	-170.1	-45677.1	111759.0	16738.0	9340.0
1266.139	-3321.5	-178.3	-41936.5	94860.0	-731300.0	7842.0
1266.140	-2812.3	-158.5	-35497.2	77544.0	-870724.0	7131.0
1266.141	-4199.7	-197.7	-53497.6	131635.0	-54824.0	6209.0
1266.142	-3690.9	-179.1	-47022.5	113545.0	-194262.0	5496.0
1266.143	-3855.6	-178.6	-48878.8	121371.0	51228.0	10053.0
1266.144	-3090.0	-149.8	-39502.2	95108.0	-83808.0	6076.0
1266.145	-3346.5	-159.1	-42382.3	103758.0	-88161.0	9344.0
1266.146	-2580.6	-130.1	-32998.6	77553.0	-223115.0	5368.0
1266.147	-4110.8	-188.5	-51987.2	129898.0	95928.0	11382.0
1266.148	-2833.1	-140.6	-36299.9	85870.0	-128052.0	4755.0
1266.149	-3601.7	-169.4	-45492.2	111991.0	-43499.0	10672.0
1266.150	-2324.3	-120.8	-29800.6	68394.0	-267227.0	4043.0
1266.151	-4490.6	-204.6	-56826.4	142043.0	224009.0	12040.0
1266.152	-3725.5	-175.0	-47458.5	116232.0	89123.0	8058.0
1266.153	-3981.6	-185.8	-50279.8	123776.0	84674.0	11331.0
1266.154	-3216.3	-155.4	-40956.2	98685.0	-50076.0	7348.0
1266.155	-3702.9	-193.1	-46623.2	107789.0	-663766.0	9840.0
1266.156	-2938.1	-164.0	-37212.7	81528.0	-798352.0	5854.0
1266.157	-3195.1	-173.4	-40209.4	90599.0	-803827.0	9125.0
1266.158	-2427.8	-144.4	-30739.7	64056.0	-937397.0	5149.0
1266.159	-4582.4	-213.4	-58180.4	143969.0	12148.0	8202.0
1266.160	-3817.1	-183.0	-48755.5	118489.0	-121673.0	4214.0
1266.161	-4073.6	-195.6	-51758.3	125475.0	-127616.0	7490.0

1266.162	-3308.1	-163.2	-42343.8	101286.0	-261265.0	3503.0
1266.163	-3338.1	-255.9	-61226.2	124006.0	-110866.0	10824.0
1266.164	-2835.5	-232.5	-54583.6	108180.0	-250009.0	10075.0
1266.165	-3281.7	-303.4	-72129.8	140813.0	-174976.0	12457.0
1266.166	-2779.4	-279.0	-65431.0	125323.0	-314084.0	11706.0
1266.167	-3965.6	-285.1	-69123.2	142734.0	62693.0	12858.0
1266.168	-3463.0	-261.0	-62555.3	127640.0	-76673.0	12109.0
1266.169	-3186.0	-267.9	-58942.1	111720.0	-824393.0	10602.0
1266.170	-2682.4	-244.8	-52249.1	95558.0	-963738.0	9860.0
1266.171	-4059.2	-288.6	-70477.0	147519.0	-149737.0	9015.0
1266.172	-3556.1	-265.9	-63704.3	131043.0	-288344.0	8268.0
1266.173	-3577.1	-76.8	-30373.5	108296.0	75554.0	8025.0
1266.174	-3067.0	-35.4	-24596.1	103622.0	-65844.0	7318.0
1266.175	-3642.5	71.8	-24076.2	161037.0	127884.0	8010.0
1266.176	-3132.6	111.6	-18411.5	155708.0	-14175.0	7306.0
1266.177	-4212.2	-107.8	-38024.9	125451.0	249158.0	10014.0
1266.178	-3702.3	-76.8	-31949.6	114991.0	108734.0	9308.0
1266.179	-3426.2	-94.1	-28299.3	94334.0	-639417.0	7791.0
1266.180	-2915.7	-52.7	-22514.1	89644.0	-780695.0	7087.0
1266.181	-4308.2	-116.8	-40092.8	130407.0	35420.0	6136.0
1266.182	-3798.5	-75.9	-34426.0	125756.0	-106870.0	5430.0
1266.183	-1080.6	14.7	-31482.2	123778.0	-355432.0	1936.0
1266.184	-571.3	34.9	-24945.1	106423.0	-495155.0	1232.0
1266.185	-928.1	2.1	-29271.1	111630.0	-1070000.0	1718.0
1266.186	-419.8	22.2	-22709.0	94097.0	-1209000.0	1004.0
1266.187	-781.2	92.5	-39118.2	181316.0	-230237.0	1888.0
1266.188	-270.8	138.4	-32844.2	176721.0	-371065.0	1199.0
1266.189	-1802.6	-20.0	-40972.8	147268.0	-397229.0	133.0
1266.190	-1295.0	0.0	-34345.0	129502.0	-535143.0	-594.0
1266.191	-4986.1	-144.1	-80200.3	254227.0	329521.0	22587.0
1266.192	-4480.3	-121.5	-73650.0	238293.0	190503.0	21854.0
1266.193	-4020.4	-105.7	-68195.7	221673.0	160579.0	17509.0
1266.194	-3515.7	-83.0	-61612.7	205622.0	21825.0	16766.0
1266.195	-3868.7	-117.8	-66052.5	209866.0	-553607.0	17278.0
1266.196	-3364.1	-94.9	-59610.4	194353.0	-693523.0	16542.0
1266.197	-3725.5	-35.1	-75940.1	276667.0	284827.0	17429.0
1266.198	-3218.7	2.2	-69595.8	267959.0	144691.0	16710.0
1266.199	-4745.4	-137.9	-78045.7	247256.0	118619.0	15673.0
1266.200	-4239.3	-116.3	-71405.8	230572.0	-20013.0	14943.0
1266.201	-1567.1	20.0	-38352.7	155894.0	-369842.0	6980.0
1266.202	-1061.5	64.0	-33067.2	153940.0	-514119.0	6246.0
1266.203	-1730.5	28.3	-41207.0	171734.0	-377048.0	8598.0
1266.204	-1224.0	68.9	-35941.7	168367.0	-521058.0	7874.0
1266.205	-1416.9	7.6	-36495.1	144937.0	-1085000.0	6741.0
1266.206	-910.1	50.8	-31229.4	142800.0	-1229000.0	6013.0
1266.207	-1268.6	131.5	-47203.8	232927.0	-249990.0	6931.0
1266.208	-763.2	171.9	-41745.6	228804.0	-392630.0	6194.0
1266.209	-2289.9	-23.9	-47766.6	174890.0	-409360.0	5151.0
1266.210	-1782.4	22.1	-42444.5	173656.0	-552984.0	4427.0
1266.211	-3022.9	-68.2	-55539.1	184324.0	172018.0	7992.0
1266.212	-2511.3	-49.4	-48896.1	165796.0	33828.0	7293.0
1266.213	-3658.2	-95.0	-63461.9	204296.0	344897.0	9977.0
1266.214	-3148.7	-75.6	-56909.3	186481.0	205459.0	9272.0
1266.215	-2869.4	-81.1	-53317.1	171930.0	-542290.0	7778.0
1266.216	-2358.0	-62.4	-46673.7	153367.0	-680415.0	7077.0
1266.217	-2720.0	-3.7	-62893.3	234516.0	299233.0	7958.0
1266.218	-2210.8	15.8	-56265.0	216658.0	160274.0	7245.0
1266.219	-3751.9	-102.9	-64641.3	206264.0	134219.0	6125.0
1266.220	-3242.1	-83.0	-58085.7	188579.0	-4564.0	5418.0
1266.221	-1978.8	-139.1	-17052.6	11652.0	-763244.0	2047.0
1266.222	-1470.0	-120.2	-10629.3	-5949.0	-902974.0	1335.0
1266.223	-1826.9	-155.0	-14846.4	-2325.0	-1478000.0	1828.0

1266.224	-1317.4	-137.1	-8283.6	-20783.0	-1617000.0	1116.0
1266.225	-2276.7	-174.8	-15236.3	-9879.0	-909859.9	2073.0
1266.226	-1767.9	-156.8	-8706.3	-28107.0	-1049000.0	1361.0
1266.227	-2699.7	-172.5	-26885.9	37035.0	-806557.0	254.0
1266.228	-2191.3	-153.8	-20416.6	19192.0	-945038.0	-470.0
1266.229	-5883.3	-296.3	-66811.5	148202.0	-81398.0	22696.0
1266.230	-5377.4	-276.7	-60333.6	131125.0	-220394.0	21963.0
1266.231	-4919.6	-257.5	-54634.3	114551.0	-250089.0	17605.0
1266.232	-4411.4	-239.2	-47959.8	96409.0	-387536.0	16882.0
1266.233	-4765.1	-274.3	-52277.7	99898.0	-962555.0	17388.0
1266.234	-4261.8	-255.3	-45854.8	82934.0	-1103000.0	16647.0
1266.235	-5217.7	-294.5	-52665.9	92276.0	-396036.0	17631.0
1266.236	-4712.4	-276.3	-46042.1	74292.0	-534508.0	16893.0
1266.237	-5640.7	-292.4	-64158.2	138462.0	-289996.0	15790.0
1266.238	-5134.7	-273.1	-57689.5	121379.0	-428907.0	15057.0
1266.239	-2464.4	-164.4	-23907.6	30346.0	-776134.0	7069.0
1266.240	-1958.4	-142.6	-17846.7	15380.0	-916922.0	6339.0
1266.241	-2626.0	-168.7	-26634.1	39623.0	-782384.0	8699.0
1266.242	-2120.1	-146.0	-20604.6	25207.0	-923092.0	7967.0
1266.243	-2311.9	-180.0	-21869.6	17117.0	-1491000.0	6846.0
1266.244	-1807.6	-157.3	-15887.7	2888.0	-1632000.0	6103.0
1266.245	-2763.3	-203.2	-21795.5	7017.0	-921493.0	7089.0
1266.246	-2257.3	-181.3	-15738.7	-7782.0	-1062000.0	6358.0
1266.247	-3186.1	-197.9	-33675.7	55477.0	-816324.0	5247.0
1266.248	-2679.5	-175.9	-27590.7	40577.0	-957173.1	4519.0
1266.249	-3918.7	-214.9	-41406.5	76953.0	-235989.0	8112.0
1266.250	-3409.9	-194.9	-35068.7	59949.0	-375587.0	7398.0
1266.251	-4553.5	-240.4	-49326.2	97882.0	-63064.0	10102.0
1266.252	-4044.1	-219.7	-43068.4	81374.0	-203251.0	9393.0
1266.253	-3766.6	-229.3	-39363.5	63972.0	-951363.9	7891.0
1266.254	-3258.8	-210.5	-32848.1	46110.0	-1091000.0	7175.0
1266.255	-4215.8	-249.4	-39730.7	56297.0	-383393.0	8147.0
1266.256	-3707.3	-230.9	-33132.7	38003.0	-522029.0	7431.0
1266.257	-4646.0	-248.7	-50915.0	100999.0	-275206.0	6254.0
1266.258	-4137.2	-229.8	-44467.6	83243.0	-414718.0	5541.0
1266.401	-2180.1	-1445.1	-100200.0	630724.0	-525491.0	-9664.0
1266.402	-2821.9	-1616.5	-120900.0	762938.0	-347690.0	-6990.0
1266.403	-3075.5	-1039.9	-38509.1	822553.0	-357171.0	-8635.0
1266.404	-3718.9	-1196.5	-60217.2	968238.9	-181845.0	-5984.0
1266.405	1352.1	1610.9	23795.3	-596439.0	1004000.0	9226.0
1266.406	688.4	1423.4	9513.2	-485306.0	1198000.0	11837.0
1266.407	427.7	2053.1	84497.0	-368088.0	1174000.0	10512.0
1266.408	-237.2	1848.3	70620.9	-267480.0	1370000.0	13106.0
1266.409	-2216.1	-1742.9	-105300.0	467370.0	-539295.0	-9714.0
1266.410	-2856.4	-1916.2	-125400.0	595402.0	-359953.0	-7028.0
1266.411	-3039.4	-751.7	-34314.5	984694.1	-346362.0	-8564.0
1266.412	-3682.7	-907.5	-56142.0	1131000.0	-171505.0	-5914.0
1266.413	1329.3	1391.7	17018.6	-717834.0	979309.0	9293.0
1266.414	664.8	1201.5	2889.0	-608573.0	1174000.0	11894.0
1266.415	451.0	2292.6	89949.1	-232099.0	1195000.0	10450.0
1266.416	-213.7	2088.6	75642.2	-130164.0	1389000.0	13043.0
1266.417	1966.3	-1778.7	-158100.0	957298.1	-772123.0	-7836.0
1266.418	1325.3	-1948.3	-179300.0	1093000.0	-596123.0	-5162.0
1266.419	1074.0	-1379.1	-101300.0	1166000.0	-621370.0	-6722.0
1266.420	432.3	-1538.4	-122900.0	1310000.0	-446432.0	-4060.0
1266.421	-2805.2	2223.1	61133.7	-693379.0	1183000.0	7031.0
1266.422	-3470.4	2019.6	47556.7	-590901.0	1382000.0	9616.0
1266.423	-3711.2	2764.6	121700.0	-425850.0	1356000.0	8405.0
1266.424	-4379.2	2534.7	108600.0	-337632.0	1557000.0	10964.0
1266.425	1940.8	-2061.6	-163300.0	799708.0	-790968.0	-7798.0
1266.426	1299.8	-2231.5	-184400.0	935469.1	-614878.0	-5124.0
1266.427	1099.9	-1087.6	-97616.2	1331000.0	-607773.0	-6743.0

1266.428	458.1	-1246.9	-119200.0	1475000.0	-432815.0	-4081.0
1266.429	-2827.2	1966.2	55669.8	-837228.0	1174000.0	7030.0
1266.430	-3493.4	1761.6	42369.2	-735669.0	1375000.0	9609.0
1266.431	-3689.2	3015.1	126000.0	-280898.0	1366000.0	8416.0
1266.432	-4355.6	2789.7	112700.0	-190611.0	1566000.0	10990.0
1266.433	86.5	-1414.8	-137300.0	-284772.0	-213742.0	-4561.0
1266.434	-567.3	-1586.0	-149900.0	-178510.0	-17234.0	-1884.0
1266.435	-2873.2	290.3	74828.5	507280.0	385382.0	-338.0
1266.436	-3515.6	156.2	53107.8	665740.0	562655.0	2317.0
1266.437	1228.2	-388.3	-97765.8	-656032.0	214495.0	1415.0
1266.438	566.6	-613.5	-111700.0	-572876.0	405560.0	4051.0
1266.439	-1839.9	1189.7	114500.0	140159.0	832571.0	5500.0
1266.440	-2496.7	1050.9	93062.7	297187.0	1008000.0	8069.0
1266.441	1387.5	-1350.7	-139500.0	-189695.0	-252427.0	-3442.0
1266.442	748.2	-1503.0	-155000.0	-71443.0	-65262.0	-688.0
1266.443	-1620.4	186.1	54525.4	614536.0	286308.0	287.0
1266.444	-2268.0	32.1	32443.0	763509.0	459866.0	2900.0
1266.445	-85.2	-570.0	-88662.4	-817014.0	281115.0	196.0
1266.446	-737.7	-700.6	-103300.0	-689233.0	466805.0	2919.0
1266.447	-3103.1	1333.1	134800.0	59436.0	930001.9	4782.0
1266.448	-3759.6	1194.8	113700.0	215484.0	1106000.0	7363.0
1266.449	-35.8	-2456.7	-149900.0	-864061.1	-247401.0	-4791.0
1266.450	-685.7	-2631.0	-162500.0	-759495.0	-47982.0	-2110.0
1266.451	-2762.0	1278.0	86623.1	1071000.0	398617.0	-178.0
1266.452	-3408.7	1139.4	64771.3	1229000.0	570578.0	2465.0
1266.453	1108.7	-1308.5	-103500.0	-1190000.0	214494.0	1333.0
1266.454	439.9	-1642.5	-115400.0	-1164000.0	414438.0	3881.0
1266.455	-1758.8	2159.7	129800.0	685997.0	879880.0	5420.0
1266.456	-2415.1	2023.9	107600.0	846678.0	1050000.0	8005.0
1266.457	1255.2	-2443.1	-151000.0	-784692.0	-282691.0	-3701.0
1266.458	608.0	-2628.7	-165000.0	-682018.0	-86081.0	-1016.0
1266.459	-1525.4	1151.6	66308.4	1164000.0	316121.0	343.0
1266.460	-2170.3	999.7	44140.4	1314000.0	486824.0	2991.0
1266.461	-233.4	-1642.6	-95055.6	-1420000.0	298537.0	-166.0
1266.462	-892.7	-1784.1	-108400.0	-1299000.0	489749.0	2501.0
1266.463	-3008.1	2301.6	149500.0	606384.0	959017.0	4814.0
1266.464	-3666.1	2165.4	127300.0	766880.0	1129000.0	7396.0
1266.529	-177.6	-421.3	-35407.0	-71464.0	-216487.0	-5945.0
1266.530	-2319.8	-1010.8	-93353.9	319839.0	407416.0	3028.0
1266.531	-1065.6	24.9	30618.1	118764.0	-30258.0	-4733.0
1266.532	-3216.5	-485.0	-43524.5	618518.0	546373.0	4026.0
1266.533	925.4	524.6	-6316.8	-425222.0	208887.0	-192.0
1266.534	-1290.4	-203.7	-54900.1	-116956.0	843303.0	8477.0
1266.535	-1.2	982.8	58172.1	-193851.0	393024.0	1099.0
1266.536	-2211.6	320.5	9538.8	162642.0	1046000.0	9691.0
1266.537	-214.3	-724.4	-39857.5	-239537.0	-229569.0	-6014.0
1266.538	-2355.0	-1329.5	-96433.9	140803.0	400048.0	2973.0
1266.539	-1028.3	313.0	34181.6	282744.0	-28595.0	-4677.0
1266.540	-3175.8	-199.7	-39689.2	780435.0	549922.0	4139.0
1266.541	902.0	291.0	-10546.7	-557631.0	195943.0	-121.0
1266.542	-1319.0	-512.3	-55537.1	-300112.0	843701.0	8477.0
1266.543	21.4	1224.0	63746.1	-57038.0	413485.0	1037.0
1266.544	-2185.8	625.4	12073.1	338541.0	1052000.0	9687.0
1266.545	1077.0	-465.9	-46038.3	25085.0	-272323.0	-5258.0
1266.546	-1058.3	-1093.1	-110400.0	419512.0	333372.0	3701.0
1266.547	185.4	-73.5	10635.8	227860.0	-122362.0	-4130.0
1266.548	-1959.8	-592.7	-62595.8	719945.0	458586.0	4703.0
1266.549	-342.2	570.7	4977.6	-515816.0	262510.0	-1023.0
1266.550	-2544.8	-18.4	-40291.0	-133201.0	921592.0	7749.0
1266.551	-1244.4	1224.7	67912.1	-194771.0	446937.0	456.0
1266.552	-3458.8	524.0	27767.1	116125.0	1130000.0	9063.0
1266.553	1051.1	-758.7	-49398.0	-143223.0	-285191.0	-5226.0

1266.554	-1088.8	-1399.4	-113200.0	243451.0	325254.0	3686.0
1266.555	211.2	216.5	14516.5	391680.0	-108284.0	-4147.0
1266.556	-1930.6	-300.1	-59098.0	886640.1	469045.0	4720.0
1266.557	-374.8	311.6	23.6	-657631.0	261512.0	-1051.0
1266.558	-2588.4	-350.6	-41892.1	-317609.0	934919.1	7615.0
1266.559	-1218.4	1476.8	72660.4	-50499.0	456329.0	458.0
1266.560	-3432.0	773.2	30825.4	264456.0	1131000.0	9089.0
1267.1	-981.3	-152.0	38938.5	-185443.0	-538611.0	-498.0
1267.2	-751.1	-109.6	27998.7	-133711.0	-875712.0	-351.0
1267.3	-1048.6	-157.7	40522.1	-192326.0	-1643000.0	-457.0
1267.4	-819.6	-115.5	29754.4	-140907.0	-1980000.0	-336.0
1267.5	-1033.1	-209.6	52629.6	-255566.0	-22848.0	-557.0
1267.6	-803.5	-166.7	41633.6	-203041.0	-362334.0	-428.0
1267.7	-2043.3	-448.2	111400.0	-547547.0	2161000.0	-577.0
1267.8	-1813.4	-405.5	100400.0	-495411.0	1822000.0	-440.0
1267.9	-1782.9	-375.8	93559.2	-459217.0	1497000.0	-554.0
1267.10	-1555.7	-332.7	82538.0	-406483.0	1156000.0	-475.0
1267.11	-1853.1	-379.6	95030.5	-463882.0	389219.0	-563.0
1267.12	-1624.2	-337.1	84229.8	-412028.0	50549.0	-450.0
1267.13	-1832.8	-434.9	107500.0	-531046.0	2015000.0	-605.0
1267.14	-1603.9	-391.5	96399.5	-477952.0	1674000.0	-488.0
1267.15	-1079.3	-182.3	46452.4	-222891.0	-260658.0	-399.0
1267.16	-876.1	-123.8	31774.1	-150885.0	-799104.0	-454.0
1267.17	-854.5	-138.4	35193.9	-168928.0	-613262.0	-365.0
1267.18	-646.2	-81.2	20832.6	-98932.0	-1137000.0	-316.0
1267.19	-1148.2	-201.5	51303.2	-246522.0	-83684.0	-398.0
1267.20	-805.4	-105.1	27004.0	-127917.0	-972778.0	-418.0
1267.21	-920.3	-158.2	40218.1	-193491.0	-426541.0	-299.0
1267.22	-577.1	-62.1	16048.3	-75540.0	-1312000.0	-303.0
1267.23	-1156.0	-185.3	47677.8	-226299.0	-1383000.0	-530.0
1267.24	-945.1	-129.5	33412.4	-157854.0	-1903000.0	-437.0
1267.25	-924.6	-143.6	36919.7	-175379.0	-1719000.0	-376.0
1267.26	-716.5	-86.8	22563.2	-105794.0	-2242000.0	-324.0
1267.27	-1137.5	-238.4	59859.2	-290878.0	240053.0	-579.0
1267.28	-928.7	-180.7	45387.3	-220090.0	-285999.0	-533.0
1267.29	-907.9	-195.8	48986.8	-238841.0	-98767.0	-452.0
1267.30	-699.1	-137.7	34397.1	-167544.0	-625324.0	-404.0
1267.31	-2146.8	-477.4	118600.0	-583374.0	2424000.0	-591.0
1267.32	-1942.5	-420.6	104200.0	-513908.0	1900000.0	-584.0
1267.33	-1918.4	-434.3	107600.0	-530665.0	2084000.0	-478.0
1267.34	-1712.3	-377.7	93187.1	-461411.0	1561000.0	-445.0
1267.35	-1953.2	-423.2	105600.0	-517245.0	1934000.0	-557.0
1267.36	-1609.9	-327.0	81411.5	-399414.0	1058000.0	-533.0
1267.37	-1724.7	-379.9	94525.6	-464334.0	1594000.0	-445.0
1267.38	-1382.6	-283.8	70384.5	-346503.0	716426.0	-447.0
1267.39	-1884.1	-403.6	100700.0	-493200.0	1758000.0	-549.0
1267.40	-1679.2	-346.7	86284.7	-423494.0	1234000.0	-543.0
1267.41	-1655.7	-360.4	89658.6	-440431.0	1418000.0	-436.0
1267.42	-1451.8	-303.3	75246.9	-370517.0	892133.0	-458.0
1267.43	-1956.8	-409.0	102400.0	-500032.0	653146.0	-577.0
1267.44	-1749.5	-350.2	87693.2	-427774.0	125356.0	-549.0
1267.45	-1727.8	-366.6	91566.7	-448173.0	314434.0	-465.0
1267.46	-1520.5	-307.7	76897.8	-375923.0	-213265.0	-436.0
1267.47	-1936.5	-464.3	114800.0	-567132.0	2279000.0	-620.0
1267.48	-1729.0	-405.4	100200.0	-494949.0	1751000.0	-589.0
1267.49	-1707.8	-420.9	103700.0	-514130.0	1938000.0	-504.0
1267.50	-1500.1	-362.0	89100.2	-441837.0	1411000.0	-472.0
1267.51	-990.0	-121.5	2655.9	-94552.0	-876434.9	-271.0
1267.52	-760.7	-55.8	-9775.2	-10432.0	-1226000.0	-144.0
1267.53	-997.1	-45.6	-25394.3	42507.0	-1125000.0	-113.0
1267.54	-763.1	31.3	-37546.2	134269.0	-1469000.0	8.5
1267.55	-1059.0	-129.3	4758.1	-105023.0	-1982000.0	-282.0

1267.56	-829.5	-61.2	-7633.3	-18101.0	-2330000.0	-149.0
1267.57	-1038.3	-211.7	18025.7	-209059.0	-352429.0	-319.0
1267.58	-808.2	-143.6	5721.9	-122165.0	-702900.0	-189.0
1267.59	-2052.8	-565.0	80022.9	-652904.0	1831000.0	-413.0
1267.60	-1824.7	-511.2	68497.5	-585966.0	1488000.0	-308.0
1267.61	-1789.1	-472.8	61478.5	-538706.0	1159000.0	-388.0
1267.62	-1561.3	-413.3	49748.5	-464170.0	817209.0	-287.0
1267.63	-1809.1	-411.5	34721.9	-420758.0	942741.0	-334.0
1267.64	-1580.2	-341.4	22546.4	-331767.0	596723.0	-201.0
1267.65	-1858.6	-480.1	63465.7	-548604.0	54588.0	-407.0
1267.66	-1630.6	-418.6	51691.9	-471529.0	-288217.0	-294.0
1267.67	-1837.8	-545.2	76078.6	-628108.0	1680000.0	-413.0
1267.68	-1610.7	-490.9	64430.6	-560936.0	1339000.0	-314.0
1267.69	-1055.4	-208.8	49325.9	-285606.0	-293478.0	-594.0
1267.70	-830.0	-176.4	37414.6	-246910.0	-642881.0	-505.0
1267.71	-1114.1	-269.6	54044.3	-382342.0	-154006.0	-739.0
1267.72	-884.5	-243.9	42513.0	-350059.0	-500677.0	-653.0
1267.73	-1124.8	-211.7	51157.8	-289040.0	-1398000.0	-601.0
1267.74	-899.2	-179.7	39233.2	-250893.0	-1747000.0	-508.0
1267.75	-1100.8	-246.7	64294.9	-330225.0	234053.0	-588.0
1267.76	-875.4	-219.1	52514.2	-297509.0	-113319.0	-505.0
1267.77	-2103.8	-410.0	125300.0	-526053.0	2440000.0	-516.0
1267.78	-1878.4	-373.1	114600.0	-481511.0	2103000.0	-427.0
1267.79	-1844.5	-345.9	107400.0	-448191.0	1775000.0	-515.0
1267.80	-1617.0	-310.8	96281.5	-405724.0	1431000.0	-420.0
1267.81	-1900.2	-428.6	113100.0	-572323.0	1919000.0	-684.0
1267.82	-1674.6	-404.1	101500.0	-543287.0	1574000.0	-607.0
1267.83	-1914.4	-350.2	109200.0	-453664.0	670648.0	-524.0
1267.84	-1686.5	-314.3	98064.9	-409923.0	324933.0	-431.0
1267.85	-1893.8	-396.9	121300.0	-510016.0	2298000.0	-533.0
1267.86	-1665.5	-359.1	110200.0	-464049.0	1954000.0	-431.0
1267.87	-993.2	-208.8	52006.1	-253672.0	-131902.0	526.0
1267.88	-766.6	-163.9	40952.4	-198794.0	-475073.0	584.0
1267.89	-1000.6	-224.6	56146.6	-272605.0	-3562.0	781.0
1267.90	-774.1	-179.8	45183.6	-217953.0	-346220.0	838.0
1267.91	-1072.0	-211.7	53301.1	-256789.0	-1258000.0	306.0
1267.92	-836.2	-169.9	42737.8	-206183.0	-1581000.0	574.0
1267.93	-1044.1	-268.3	65873.6	-325981.0	386228.0	482.0
1267.94	-814.9	-224.4	54845.6	-272386.0	44804.0	586.0
1267.95	-1105.5	-235.7	58775.1	-286185.0	111751.0	318.0
1267.96	-892.8	-177.9	44699.3	-215805.0	-399395.0	465.0
1267.97	-868.8	-194.2	48262.5	-235999.0	-209132.0	610.0
1267.98	-665.9	-133.1	33661.2	-161057.0	-742225.0	528.0
1267.99	-1163.9	-258.6	64011.4	-314710.0	309376.0	573.0
1267.100	-824.6	-157.7	39847.6	-191090.0	-576462.0	451.0
1267.101	-937.1	-213.9	53018.6	-260130.0	-33263.0	633.0
1267.102	-597.5	-113.2	28871.2	-136702.0	-918591.0	511.0
1267.103	-1103.1	-254.3	63318.8	-308985.0	260432.0	812.0
1267.104	-900.5	-193.6	48830.9	-234553.0	-271368.0	714.0
1267.105	-876.4	-209.6	52348.4	-254390.0	-81951.0	870.0
1267.106	-673.7	-148.9	37863.9	-180007.0	-613869.0	777.0
1267.107	-1167.5	-243.8	60931.4	-296569.0	-975143.0	503.0
1267.108	-962.4	-183.9	46414.9	-223046.0	-1506000.0	457.0
1267.109	-947.1	-197.2	49556.6	-239274.0	-1334000.0	400.0
1267.110	-735.4	-139.2	35418.8	-168516.0	-1849000.0	518.0
1267.111	-1145.0	-298.5	73038.0	-362963.0	651854.0	545.0
1267.112	-941.5	-238.2	58619.3	-289115.0	120918.0	466.0
1267.113	-917.7	-254.2	62108.3	-308904.0	310161.0	608.0
1267.114	-712.4	-194.3	47592.2	-235426.0	-220621.0	565.0
1267.115	-1017.4	-222.9	17876.0	-225065.0	-480887.0	318.0
1267.116	-789.2	-156.3	5764.4	-140418.0	-827420.0	439.0
1267.117	-1030.1	-139.9	-9718.7	-78872.0	-725756.0	440.0

1267.118	-795.7	-68.3	-22169.3	12934.0	-1079000.0	583.0
1267.119	-1028.9	-281.5	23121.3	-300061.0	-350634.0	481.0
1267.120	-798.1	-186.8	10703.9	-179569.0	-698975.0	635.0
1267.121	-1086.4	-228.9	19922.0	-233307.0	-1586000.0	311.0
1267.122	-856.8	-159.0	7898.7	-144664.0	-1932000.0	439.0
1267.123	-1067.0	-330.8	33457.7	-362466.0	43099.0	253.0
1267.124	-836.7	-243.6	20968.8	-251019.0	-303214.0	409.0
1267.125	-1075.5	-217.4	63987.7	-293044.0	88646.0	112.0
1267.126	-849.0	-191.8	52645.7	-261828.0	-255466.0	190.0
1267.127	-1135.2	-300.2	69552.8	-416466.0	239665.0	-78.0
1267.128	-909.7	-269.8	57528.3	-380223.0	-111265.0	4.2
1267.129	-1079.9	-203.5	69732.0	-273577.0	224367.0	369.0
1267.130	-856.1	-193.4	57512.3	-263594.0	-129304.0	423.0
1267.131	-1142.9	-200.7	66316.9	-271031.0	-1010000.0	141.0
1267.132	-919.6	-196.4	54425.6	-267694.0	-1358000.0	181.0
1267.133	-1120.4	-238.3	79397.0	-315522.0	623715.0	145.0
1267.134	-894.2	-209.3	67838.3	-281094.0	276356.0	229.0
1267.135	-1745.1	-284.1	70659.3	-348525.0	702766.0	-1334.0
1267.136	-1513.1	-241.9	59727.2	-296971.0	366083.0	-1159.0
1267.137	-1994.5	-327.7	81033.9	-402356.0	1109000.0	-1592.0
1267.138	-1762.2	-286.1	70116.6	-351487.0	773231.0	-1416.0
1267.139	-1812.8	-289.0	72291.1	-354609.0	-401434.0	-1303.0
1267.140	-1581.6	-246.5	61318.5	-302631.0	-738921.0	-1144.0
1267.141	-1794.2	-342.3	84457.8	-419313.0	1221000.0	-1358.0
1267.142	-1565.5	-300.5	73559.9	-368253.0	883050.0	-1232.0
1267.143	-1849.9	-313.2	77893.9	-384182.0	965303.0	-1369.0
1267.144	-1638.4	-255.5	63465.3	-313484.0	442264.0	-1263.0
1267.145	-1619.7	-270.4	66936.4	-331913.0	626748.0	-1227.0
1267.146	-1408.7	-212.7	52494.5	-261165.0	103298.0	-1129.0
1267.147	-1919.6	-332.6	82722.0	-407958.0	1140000.0	-1391.0
1267.148	-1567.4	-236.6	58692.6	-290234.0	268684.0	-1220.0
1267.149	-1689.6	-289.8	71782.8	-355740.0	801930.0	-1249.0
1267.150	-1338.0	-193.7	47724.6	-237949.0	-70470.0	-1092.0
1267.151	-2099.4	-356.8	88284.2	-438028.0	1372000.0	-1627.0
1267.152	-1887.6	-299.6	73848.8	-367889.0	849241.0	-1520.0
1267.153	-1869.2	-314.1	77354.9	-385839.0	1034000.0	-1484.0
1267.154	-1657.9	-256.8	62874.3	-315518.0	510280.0	-1384.0
1267.155	-1920.1	-317.2	79480.6	-389181.0	-141568.0	-1376.0
1267.156	-1707.0	-260.1	65079.2	-319208.0	-662785.0	-1245.0
1267.157	-1687.6	-275.1	68522.2	-337717.0	-477793.0	-1197.0
1267.158	-1477.5	-217.0	54080.2	-266545.0	-1002000.0	-1116.0
1267.159	-1898.6	-371.5	91726.9	-455105.0	1484000.0	-1386.0
1267.160	-1690.9	-314.1	77232.9	-384732.0	958842.0	-1338.0
1267.161	-1669.0	-328.6	80791.6	-402702.0	1145000.0	-1252.0
1267.162	-1460.9	-271.1	66277.1	-332229.0	619866.0	-1202.0
1267.163	-1745.2	-305.7	35040.9	-325310.0	349618.0	-985.0
1267.164	-1517.0	-236.7	22982.0	-237921.0	8875.0	-850.0
1267.165	-1752.2	-222.1	7564.7	-178028.0	112840.0	-823.0
1267.166	-1526.9	-163.3	-4767.0	-102763.0	-233259.0	-717.0
1267.167	-1995.9	-410.8	46041.1	-457240.0	750546.0	-1276.0
1267.168	-1765.5	-306.9	33961.3	-325884.0	413946.0	-1106.0
1267.169	-1814.4	-311.6	36996.1	-333367.0	-755782.0	-990.0
1267.170	-1586.1	-245.7	25174.0	-250012.0	-1095000.0	-862.0
1267.171	-1796.6	-414.2	50724.7	-464058.0	872868.0	-1063.0
1267.172	-1566.4	-328.9	38268.0	-354332.0	529703.0	-912.0
1267.173	-1805.9	-315.4	81958.1	-415870.0	964871.0	-1241.0
1267.174	-1580.0	-287.4	70249.4	-382480.0	618199.0	-1152.0
1267.175	-1865.4	-390.7	87084.3	-531046.0	1110000.0	-1404.0
1267.176	-1639.7	-357.1	75196.5	-490939.0	760822.0	-1310.0
1267.177	-2052.5	-352.2	92563.2	-461054.0	1379000.0	-1452.0
1267.178	-1825.8	-324.1	80935.9	-427241.0	1030000.0	-1371.0
1267.179	-1876.1	-318.7	83819.5	-419847.0	-138384.0	-1252.0

1267.180	-1649.7	-292.5	72032.5	-388669.0	-487172.0	-1164.0
1267.181	-1850.6	-337.9	96896.5	-440465.0	1494000.0	-1208.0
1267.182	-1627.3	-325.9	85113.6	-428284.0	1145000.0	-1164.0
1267.183	-590.4	-89.5	23466.1	-106344.0	-116288.0	-367.0
1267.184	-361.4	-48.1	12500.6	-55636.0	-456745.0	-268.0
1267.185	-660.9	-93.9	24903.5	-111756.0	-1224000.0	-380.0
1267.186	-431.8	-51.8	13921.4	-60143.0	-1564000.0	-278.0
1267.187	-330.9	-53.2	13320.1	-60061.0	161004.0	-345.0
1267.188	-102.5	-16.1	2352.1	-14891.0	-182087.0	-243.0
1267.189	-640.7	-146.9	37206.9	-176250.0	401786.0	-380.0
1267.190	-411.7	-104.0	26251.9	-123795.0	60836.0	-278.0
1267.191	-1648.2	-384.8	96205.8	-467510.0	2586000.0	-390.0
1267.192	-1430.3	-343.4	85444.8	-417653.0	2253000.0	-294.0
1267.193	-1386.5	-311.4	78207.8	-377642.0	1918000.0	-382.0
1267.194	-1166.7	-269.6	67401.8	-327201.0	1584000.0	-285.0
1267.195	-1456.6	-316.6	79723.4	-383926.0	811812.0	-399.0
1267.196	-1237.0	-274.1	68807.1	-332632.0	475763.0	-295.0
1267.197	-1136.7	-268.7	67874.2	-324160.0	2199000.0	-353.0
1267.198	-907.8	-225.7	56933.9	-271461.0	1858000.0	-249.0
1267.199	-1435.1	-369.4	91776.2	-448050.0	2435000.0	-399.0
1267.200	-1216.9	-327.5	81044.7	-397604.0	2101000.0	-294.0
1267.201	-614.0	-138.7	35816.5	-164917.0	267192.0	415.0
1267.202	-385.5	-95.8	24933.2	-112447.0	-73618.0	498.0
1267.203	-614.2	-158.4	40076.0	-188383.0	403051.0	801.0
1267.204	-393.5	-111.4	28828.1	-130889.0	52972.0	758.0
1267.205	-684.6	-143.3	37191.7	-170413.0	-841679.0	396.0
1267.206	-455.9	-100.2	26239.6	-117586.0	-1183000.0	487.0
1267.207	-355.5	-96.9	26000.6	-111953.0	543363.0	411.0
1267.208	-127.0	-54.5	15121.7	-59984.0	202121.0	501.0
1267.209	-662.7	-198.0	49551.3	-237112.0	787317.0	417.0
1267.210	-435.0	-154.8	38687.1	-184236.0	445272.0	483.0
1267.211	-1347.2	-219.4	55138.0	-266516.0	1126000.0	-1116.0
1267.212	-1118.7	-177.0	44194.8	-214615.0	785534.0	-1007.0
1267.213	-1599.5	-261.0	65452.0	-317929.0	1527000.0	-1427.0
1267.214	-1367.2	-219.8	54576.9	-267551.0	1194000.0	-1249.0
1267.215	-1417.4	-223.9	56633.0	-272039.0	18461.0	-1125.0
1267.216	-1188.9	-181.4	45677.4	-220059.0	-321528.0	-1014.0
1267.217	-1087.0	-178.6	44810.3	-214362.0	1402000.0	-1072.0
1267.218	-861.4	-141.0	34214.2	-168857.0	1070000.0	-988.0
1267.219	-1397.0	-276.7	68921.5	-336284.0	1643000.0	-1144.0
1267.220	-1168.6	-233.8	57928.8	-283853.0	1302000.0	-1035.0
1267.221	-1389.8	-158.8	31977.3	-191367.0	-1062000.0	-395.0
1267.222	-1165.7	-118.3	20938.7	-141616.0	-1411000.0	-365.0
1267.223	-1461.7	-162.1	33729.5	-195452.0	-2176000.0	-455.0
1267.224	-1233.7	-125.1	23240.5	-150305.0	-2512000.0	-350.0
1267.225	-1668.2	-179.6	26954.5	-213961.0	-1423000.0	-420.0
1267.226	-1442.1	-142.8	16022.3	-168693.0	-1765000.0	-335.0
1267.227	-1439.3	-215.0	45637.6	-259850.0	-542135.0	-406.0
1267.228	-1211.2	-173.7	34841.2	-209408.0	-883529.0	-310.0
1267.229	-2458.6	-451.4	103900.0	-548784.0	1622000.0	-607.0
1267.230	-2226.3	-411.5	93238.5	-500125.0	1288000.0	-436.0
1267.231	-2189.0	-381.1	86651.2	-463570.0	986540.1	-400.0
1267.232	-1968.8	-339.0	75409.6	-411631.0	620905.0	-470.0
1267.233	-2258.7	-385.2	88678.1	-468864.0	-118129.0	-412.0
1267.234	-2030.5	-343.4	77885.2	-417825.0	-459299.0	-317.0
1267.235	-2465.1	-390.3	82045.4	-472822.0	630256.0	-405.0
1267.236	-2237.1	-352.2	71388.6	-426125.0	286777.0	-322.0
1267.237	-2246.0	-439.5	100000.0	-533950.0	1478000.0	-597.0
1267.238	-2016.8	-397.7	89372.8	-483007.0	1140000.0	-484.0
1267.239	-1406.5	-221.0	45626.3	-266150.0	-662997.0	515.0
1267.240	-1180.2	-178.1	34549.0	-213596.0	-1006000.0	569.0
1267.241	-1413.1	-232.7	49903.7	-280366.0	-533463.0	776.0

1267.242	-1186.7	-188.9	38852.2	-226763.0	-876801.0	829.0
1267.243	-1475.6	-222.2	47544.3	-268014.0	-1768000.0	512.0
1267.244	-1249.3	-180.7	36399.5	-217032.0	-2112000.0	565.0
1267.245	-1685.8	-243.8	40778.4	-291167.0	-1022000.0	482.0
1267.246	-1459.4	-200.1	29670.6	-237579.0	-1365000.0	539.0
1267.247	-1463.8	-270.6	59229.2	-326518.0	-161792.0	300.0
1267.248	-1228.4	-237.1	48509.5	-285365.0	-485511.0	571.0
1267.249	-2159.5	-291.8	63237.7	-355069.0	165669.0	-1336.0
1267.250	-1929.9	-250.9	52155.4	-304961.0	-174026.0	-1195.0
1267.251	-2409.2	-336.1	73618.8	-409628.0	572172.0	-1595.0
1267.252	-2179.3	-295.9	62533.0	-360280.0	232553.0	-1456.0
1267.253	-2229.4	-293.7	64824.0	-357537.0	-941015.1	-1339.0
1267.254	-1996.5	-256.5	53812.4	-311753.0	-1277000.0	-1148.0
1267.255	-2437.1	-305.4	58046.5	-369093.0	-194947.0	-1352.0
1267.256	-2208.4	-269.8	46924.8	-325032.0	-535097.0	-1220.0
1267.257	-2208.4	-348.3	76986.1	-423805.0	683102.0	-1357.0
1267.258	-1980.2	-308.6	66009.7	-375208.0	344813.0	-1234.0
1267.401	346.7	-1590.9	-244500.0	427854.0	-1779000.0	-520.0
1267.402	48.2	-1819.6	-229900.0	179442.0	-1382000.0	-2464.0
1267.403	196.6	-108.9	-316800.0	2184000.0	-2221000.0	-728.0
1267.404	-93.7	-250.9	-301600.0	2043000.0	-1812000.0	-2578.0
1267.405	-1740.0	314.1	111600.0	-1763000.0	2141000.0	1933.0
1267.406	-2027.8	286.4	126800.0	-1767000.0	2560000.0	135.0
1267.407	-1813.2	1155.2	78054.1	-803647.0	1890000.0	1118.0
1267.408	-2099.2	1067.7	93959.7	-881824.0	2303000.0	-799.0
1267.409	382.7	-1913.2	-272700.0	39798.0	-1764000.0	-473.0
1267.410	89.5	-2110.3	-258400.0	-172845.0	-1368000.0	-2382.0
1267.411	174.8	252.6	-286600.0	2622000.0	-2225000.0	-811.0
1267.412	-113.9	99.2	-271400.0	2466000.0	-1809000.0	-2604.0
1267.413	-1708.4	1.0	80383.8	-2121000.0	2147000.0	1977.0
1267.414	-1996.9	5.9	95005.5	-2085000.0	2564000.0	229.0
1267.415	-1844.5	1494.8	112200.0	-408865.0	1908000.0	1119.0
1267.416	-2131.2	1401.6	127800.0	-493633.0	2319000.0	-812.0
1267.417	403.3	-1505.5	-196700.0	442826.0	-1408000.0	1909.0
1267.418	99.5	-1790.1	-182100.0	125739.0	-1012000.0	-89.0
1267.419	262.6	-35.2	-268300.0	2200000.0	-1856000.0	1641.0
1267.420	-27.4	-188.4	-252400.0	2045000.0	-1440000.0	-220.0
1267.421	-1735.5	248.4	80791.5	-1776000.0	1901000.0	-462.0
1267.422	-2025.9	263.6	95823.1	-1726000.0	2319000.0	-2221.0
1267.423	-1799.8	1063.8	44358.6	-850834.9	1637000.0	-1217.0
1267.424	-2084.4	983.3	61378.6	-921070.0	2054000.0	-3113.0
1267.425	430.9	-1868.6	-224300.0	11272.0	-1397000.0	1848.0
1267.426	130.7	-2097.4	-209500.0	-236228.0	-995048.1	-82.0
1267.427	243.2	312.9	-238900.0	2623000.0	-1858000.0	1635.0
1267.428	-48.2	153.7	-223200.0	2460000.0	-1444000.0	-238.0
1267.429	-1705.2	-46.4	49436.2	-2114000.0	1911000.0	-410.0
1267.430	-1998.3	-35.6	62886.0	-2073000.0	2320000.0	-2149.0
1267.431	-1832.6	1402.1	76368.2	-455351.0	1637000.0	-1222.0
1267.432	-2116.7	1308.6	93613.4	-541321.0	2057000.0	-3129.0
1267.433	-91.9	-2912.6	21322.3	-2794000.0	343442.0	233.0
1267.434	-392.7	-3053.5	33206.9	-2935000.0	731535.0	-1660.0
1267.435	-474.9	1698.0	-169600.0	2713000.0	-839692.0	-516.0
1267.436	-758.2	1551.2	-153500.0	2566000.0	-424190.0	-2385.0
1267.437	-737.2	-943.7	96588.7	-1709000.0	1462000.0	2558.0
1267.438	-1032.4	-1041.0	110000.0	-1799000.0	1864000.0	648.0
1267.439	-1030.2	1829.1	-33851.3	1446000.0	457204.0	-27.0
1267.440	-1314.3	1719.1	-17863.9	1348000.0	872632.0	-1934.0
1267.441	-94.6	-2900.6	30113.9	-2792000.0	428429.0	886.0
1267.442	-395.7	-3041.0	40941.6	-2932000.0	811800.0	-1002.0
1267.443	-457.4	1720.0	-156300.0	2718000.0	-736592.0	199.0
1267.444	-742.2	1570.4	-139800.0	2568000.0	-319507.0	-1688.0
1267.445	-742.4	-971.5	87151.5	-1732000.0	1385000.0	1879.0

1267.446	-1037.6	-1056.2	100500.0	-1805000.0	1786000.0	-11.0
1267.447	-1024.0	1795.1	-42919.0	1427000.0	387695.0	-732.0
1267.448	-1308.2	1688.6	-27191.8	1331000.0	798960.0	-2639.0
1267.449	98.5	-3563.7	-62022.7	-3622000.0	458802.0	770.0
1267.450	-200.1	-3665.6	-50199.1	-3717000.0	846421.0	-1080.0
1267.451	-517.5	2873.0	-66946.4	4143000.0	-805922.0	-553.0
1267.452	-801.5	2722.9	-50057.9	3993000.0	-383475.0	-2427.0
1267.453	-678.8	-1920.8	-19697.2	-2893000.0	1403000.0	2830.0
1267.454	-976.2	-2001.8	-7877.1	-2964000.0	1791000.0	928.0
1267.455	-1051.5	3047.6	86619.4	2839000.0	562330.0	-71.0
1267.456	-1331.9	2910.3	105900.0	2719000.0	1006000.0	-1990.0
1267.457	96.0	-3565.6	-52176.2	-3636000.0	548096.0	1448.0
1267.458	-202.9	-3673.3	-40735.6	-3738000.0	934070.0	-405.0
1267.459	-498.1	2892.1	-53368.4	4146000.0	-701964.0	177.0
1267.460	-783.1	2742.8	-36641.9	3997000.0	-280781.0	-1717.0
1267.461	-684.3	-1942.9	-28953.2	-2905000.0	1333000.0	2154.0
1267.462	-983.1	-2024.0	-16260.4	-2977000.0	1724000.0	262.0
1267.463	-1064.3	3015.8	76989.7	2821000.0	484029.0	-781.0
1267.464	-1344.5	2877.4	96331.8	2700000.0	924955.9	-2704.0
1267.529	141.5	-908.4	-53090.3	-433513.0	-485453.0	2517.0
1267.530	-859.5	-1681.2	-9340.0	-1288000.0	805463.0	-4044.0
1267.531	-1.7	508.8	-121900.0	1258000.0	-908266.0	2265.0
1267.532	-965.1	71.3	-69198.1	828795.0	467413.0	-3987.0
1267.533	-510.3	-104.6	38089.4	-796091.0	612707.0	3525.0
1267.534	-1471.8	-156.1	90337.6	-747504.0	2028000.0	-2492.0
1267.535	-601.3	810.4	2286.6	250240.0	351872.0	2805.0
1267.536	-1547.8	508.8	52722.8	-22019.0	1718000.0	-3456.0
1267.537	192.8	-1175.3	-78234.0	-767314.0	-455106.0	2591.0
1267.538	-804.7	-1915.4	-34079.5	-1583000.0	835467.0	-3957.0
1267.539	-17.8	876.0	-91448.3	1703000.0	-902013.0	2262.0
1267.540	-981.1	393.8	-37119.2	1220000.0	483162.0	-4045.0
1267.541	-489.8	-408.7	5667.7	-1150000.0	611870.0	3581.0
1267.542	-1471.9	-424.4	51711.3	-1072000.0	1980000.0	-2350.0
1267.543	-631.6	1162.4	35813.3	654304.0	364480.0	2809.0
1267.544	-1560.3	820.7	91265.6	350645.0	1774000.0	-3505.0
1267.545	145.4	-936.3	-39826.4	-486716.0	-380655.0	3158.0
1267.546	-857.9	-1688.5	2875.3	-1312000.0	914784.0	-3343.0
1267.547	16.6	533.6	-108400.0	1267000.0	-805616.0	2985.0
1267.548	-944.8	87.8	-53911.7	826720.0	583747.0	-3295.0
1267.549	-519.8	-105.9	26779.2	-779684.0	531364.0	2855.0
1267.550	-1482.3	-170.9	78007.9	-751498.0	1932000.0	-3193.0
1267.551	-598.9	786.3	-10108.9	240719.0	263525.0	2105.0
1267.552	-1540.3	473.6	44455.5	-46531.0	1649000.0	-4158.0
1267.553	195.3	-1192.9	-65831.0	-806768.0	-355562.0	3238.0
1267.554	-805.6	-1913.6	-22986.3	-1595000.0	937291.0	-3276.0
1267.555	1.8	896.4	-78058.5	1708000.0	-798839.0	2993.0
1267.556	-961.9	398.6	-23312.4	1204000.0	592615.0	-3318.0
1267.557	-491.7	-427.8	-3364.4	-1155000.0	547623.0	2874.0
1267.558	-1475.7	-444.7	40929.9	-1082000.0	1896000.0	-3070.0
1267.559	-630.6	1130.2	23579.7	640674.0	275766.0	2109.0
1267.560	-1560.9	798.7	79675.6	340018.0	1679000.0	-4185.0
1268.1	-1679.9	332.2	-20686.0	104513.0	-892662.0	-3065.0
1268.2	-1148.1	240.4	-14071.3	78876.0	-877773.1	-2017.0
1268.3	-1573.9	346.2	-19491.7	116424.0	-1486000.0	-2723.0
1268.4	-1042.5	254.1	-12938.1	90430.0	-1471000.0	-1666.0
1268.5	-2344.6	456.7	-30388.4	136317.0	-1084000.0	-1765.0
1268.6	-1814.2	364.3	-23827.7	110198.0	-1070000.0	-700.0
1268.7	-5380.1	972.0	-71264.2	265034.0	-1240000.0	-26205.0
1268.8	-4848.4	881.1	-64535.1	240294.0	-1225000.0	-25150.0
1268.9	-4468.0	814.2	-58910.9	224847.0	-1155000.0	-20509.0
1268.10	-3934.6	722.2	-52165.6	199753.0	-1138000.0	-19444.0
1268.11	-4363.9	826.9	-57838.3	235757.0	-1749000.0	-20144.0

1268.12	-3833.1	735.1	-51244.0	210106.0	-1734000.0	-19080.0
1268.13	-5127.7	939.2	-68405.9	257739.0	-1345000.0	-19228.0
1268.14	-4597.8	847.7	-61753.1	232439.0	-1330000.0	-18158.0
1268.15	-2033.8	393.1	-25865.9	118456.0	-928296.0	-5429.0
1268.16	-1318.9	272.6	-15466.0	91277.0	-858117.0	-830.0
1268.17	-1508.3	300.5	-19241.5	92483.0	-912403.0	-4264.0
1268.18	-787.7	180.5	-8891.9	65336.0	-843316.0	227.0
1268.19	-2274.0	433.2	-29373.5	127355.0	-952007.0	-6939.0
1268.20	-1078.4	232.8	-11993.2	82404.0	-835211.1	664.0
1268.21	-1744.6	340.8	-22793.8	101289.0	-936888.9	-5850.0
1268.22	-547.6	140.4	-5445.5	56269.0	-820244.1	1724.0
1268.23	-1935.9	405.5	-24788.2	129215.0	-1520000.0	-4952.0
1268.24	-1212.5	286.4	-14283.9	103060.0	-1451000.0	-486.0
1268.25	-1403.8	313.7	-18174.1	103592.0	-1506000.0	-3902.0
1268.26	-682.1	194.1	-7751.8	76914.0	-1436000.0	578.0
1268.27	-2705.1	516.9	-35576.0	149893.0	-1119000.0	-4014.0
1268.28	-1985.1	396.4	-25227.3	122560.0	-1050000.0	488.0
1268.29	-2173.6	423.7	-29093.7	123061.0	-1104000.0	-2951.0
1268.30	-1454.8	304.1	-18685.5	96405.0	-1036000.0	1553.0
1268.31	-5739.7	1032.2	-76434.8	278680.0	-1275000.0	-28458.0
1268.32	-5017.2	912.5	-66017.5	251956.0	-1204000.0	-23979.0
1268.33	-5209.0	941.0	-69739.1	253704.0	-1259000.0	-27393.0
1268.34	-4486.3	821.6	-59294.8	227163.0	-1189000.0	-22920.0
1268.35	-5070.7	913.6	-67658.2	246708.0	-1214000.0	-24238.0
1268.36	-3867.6	713.8	-50248.9	202258.0	-1098000.0	-16755.0
1268.37	-4539.7	822.4	-60939.7	221793.0	-1199000.0	-23175.0
1268.38	-3335.3	621.7	-43552.2	176916.0	-1081000.0	-15688.0
1268.39	-4830.8	873.7	-64168.8	237884.0	-1191000.0	-22737.0
1268.40	-4107.2	754.0	-53691.9	211400.0	-1120000.0	-18260.0
1268.41	-4299.8	782.2	-57484.6	212727.0	-1176000.0	-21674.0
1268.42	-3574.9	661.9	-46993.1	186060.0	-1104000.0	-17191.0
1268.43	-4723.5	887.0	-63043.6	249203.0	-1783000.0	-22398.0
1268.44	-4004.2	766.9	-52629.9	222340.0	-1714000.0	-17891.0
1268.45	-4192.7	795.3	-56436.8	223650.0	-1768000.0	-21333.0
1268.46	-3473.4	675.0	-46042.1	196635.0	-1699000.0	-16827.0
1268.47	-5486.9	999.6	-73555.6	271544.0	-1379000.0	-21484.0
1268.48	-4768.6	878.7	-63272.1	243829.0	-1311000.0	-16971.0
1268.49	-4956.7	908.1	-66889.7	246331.0	-1364000.0	-20416.0
1268.50	-4238.7	787.3	-56604.3	218644.0	-1296000.0	-15901.0
1268.51	-1878.5	159.4	-21963.4	-6126.0	-945195.0	-1429.0
1268.52	-1353.7	33.8	-16209.6	-52154.0	-934771.0	-322.0
1268.53	-2021.4	-39.0	-24647.6	-129546.0	-988955.9	-275.0
1268.54	-1495.8	-166.3	-18066.4	-174525.0	-974561.1	805.0
1268.55	-1774.4	181.6	-20574.7	11058.0	-1538000.0	-1054.0
1268.56	-1249.3	54.2	-14804.2	-35850.0	-1527000.0	46.0
1268.57	-2541.9	335.5	-30095.3	57775.0	-1131000.0	-125.0
1268.58	-2018.6	208.6	-24324.3	11223.0	-1121000.0	999.0
1268.59	-5607.6	1002.5	-67081.1	275519.0	-1280000.0	-24354.0
1268.60	-5076.1	898.3	-60699.0	243009.0	-1265000.0	-23291.0
1268.61	-4694.2	822.0	-55361.5	222068.0	-1196000.0	-18623.0
1268.62	-4158.4	709.4	-49033.1	185087.0	-1181000.0	-17587.0
1268.63	-4784.1	637.0	-57354.0	110057.0	-1224000.0	-17845.0
1268.64	-4256.1	509.5	-51440.6	63649.0	-1212000.0	-16765.0
1268.65	-4585.3	842.0	-53945.4	238145.0	-1787000.0	-18274.0
1268.66	-4053.7	728.8	-47643.4	200699.0	-1773000.0	-17219.0
1268.67	-5357.1	963.3	-64552.1	264067.0	-1386000.0	-17325.0
1268.68	-4825.4	862.4	-57907.2	234286.0	-1371000.0	-16283.0
1268.69	-1447.0	351.9	-40420.9	64017.0	-890654.0	-7507.0
1268.70	-920.6	273.5	-34836.5	42671.0	-879215.1	-6387.0
1268.71	-1301.4	397.2	-55832.5	48289.0	-897007.0	-10333.0
1268.72	-775.9	317.8	-50162.1	25699.0	-884704.0	-9210.0
1268.73	-1341.4	361.3	-39251.6	73364.0	-1483000.0	-7160.0

1268.74	-814.8	283.3	-33665.1	52094.0	-1472000.0	-6043.0
1268.75	-2108.6	454.4	-48688.5	88308.0	-1079000.0	-6259.0
1268.76	-1580.4	379.8	-43080.8	69036.0	-1067000.0	-5154.0
1268.77	-5136.3	896.8	-86504.8	189018.0	-1227000.0	-30839.0
1268.78	-4604.3	810.7	-80036.2	166073.0	-1211000.0	-29782.0
1268.79	-4223.9	746.8	-74465.6	152148.0	-1142000.0	-25130.0
1268.80	-3695.8	663.2	-68216.2	129784.0	-1129000.0	-24034.0
1268.81	-4076.9	807.1	-89153.7	144779.0	-1146000.0	-27976.0
1268.82	-3547.3	735.0	-83257.8	127662.0	-1132000.0	-26883.0
1268.83	-4118.1	756.1	-73670.4	160100.0	-1736000.0	-24795.0
1268.84	-3591.0	671.9	-67271.2	137934.0	-1722000.0	-23674.0
1268.85	-4884.8	864.6	-83930.7	181088.0	-1334000.0	-23902.0
1268.86	-4357.2	778.4	-77444.5	158106.0	-1319000.0	-22788.0
1268.87	-3531.1	645.3	-44743.6	182338.0	-914668.0	-9492.0
1268.88	-3002.2	553.4	-37957.6	157310.0	-898421.0	-8399.0
1268.89	-4139.4	747.8	-52395.0	208620.0	-920099.0	-11564.0
1268.90	-3610.6	656.1	-45607.6	183709.0	-903849.0	-10471.0
1268.91	-3438.6	657.9	-43612.9	193586.0	-1504000.0	-8950.0
1268.92	-2897.0	568.4	-36691.2	170099.0	-1491000.0	-8035.0
1268.93	-4194.6	771.6	-54388.4	215456.0	-1106000.0	-8206.0
1268.94	-3665.1	680.8	-47493.8	191325.0	-1090000.0	-7123.0
1268.95	-3903.6	704.9	-49949.8	195760.0	-945930.9	-11565.0
1268.96	-3173.1	583.1	-39655.1	167404.0	-879392.0	-7212.0
1268.97	-3360.7	615.1	-43063.3	172039.0	-933175.0	-10669.0
1268.98	-2644.2	491.3	-32881.2	142324.0	-863304.0	-6121.0
1268.99	-4131.6	747.7	-53379.1	206220.0	-973846.0	-13260.0
1268.100	-2934.2	541.8	-36284.4	157356.0	-856392.0	-5699.0
1268.101	-3602.3	656.1	-46564.6	181426.0	-957446.0	-12169.0
1268.102	-2404.0	450.3	-29429.4	132770.0	-839671.0	-4614.0
1268.103	-4501.3	809.2	-57625.4	222783.0	-956199.0	-13816.0
1268.104	-3781.6	685.4	-47323.1	193543.0	-884780.9	-9282.0
1268.105	-3972.0	717.5	-50825.3	197891.0	-939812.0	-12727.0
1268.106	-3252.8	593.8	-40537.8	168640.0	-868672.0	-8190.0
1268.107	-3787.3	720.4	-48798.9	208367.0	-1543000.0	-11378.0
1268.108	-3069.3	597.5	-38491.8	179556.0	-1473000.0	-6842.0
1268.109	-3267.7	628.3	-41883.7	183686.0	-1523000.0	-10135.0
1268.110	-2538.9	506.4	-31575.3	155343.0	-1456000.0	-5757.0
1268.111	-4555.0	833.7	-59471.2	230349.0	-1142000.0	-10473.0
1268.112	-3836.2	710.1	-49280.2	200841.0	-1072000.0	-5937.0
1268.113	-4024.1	742.2	-52636.9	205745.0	-1125000.0	-9389.0
1268.114	-3306.7	619.3	-42381.8	176740.0	-1056000.0	-4853.0
1268.115	-3735.6	554.3	-43272.8	124173.0	-950257.0	-7697.0
1268.116	-3207.4	429.5	-37377.2	79139.0	-938355.0	-6613.0
1268.117	-3870.7	347.8	-45952.3	-3536.0	-991592.0	-6585.0
1268.118	-3353.7	219.7	-40188.6	-50497.0	-983068.0	-5420.0
1268.119	-4342.5	708.6	-50101.5	180518.0	-950663.9	-9751.0
1268.120	-3814.3	555.5	-44352.2	120106.0	-939428.0	-8659.0
1268.121	-3630.8	573.8	-41924.2	139760.0	-1543000.0	-7332.0
1268.122	-3104.2	447.6	-35984.3	94166.0	-1531000.0	-6237.0
1268.123	-4399.6	748.1	-51252.0	197465.0	-1136000.0	-6384.0
1268.124	-3871.8	601.0	-45629.8	140157.0	-1126000.0	-5313.0
1268.125	-3302.1	613.4	-63322.4	117296.0	-911949.0	-13831.0
1268.126	-2773.3	540.4	-57299.8	101005.0	-897621.0	-12730.0
1268.127	-3147.3	678.7	-77800.1	115665.0	-910817.0	-16732.0
1268.128	-2621.6	602.8	-72162.1	95785.0	-899354.0	-15603.0
1268.129	-3905.2	683.1	-70269.4	129638.0	-916940.1	-15961.0
1268.130	-3380.2	626.0	-64757.7	117973.0	-904657.0	-14806.0
1268.131	-3194.7	604.3	-61825.9	119230.0	-1504000.0	-13514.0
1268.132	-2665.0	552.6	-56037.1	112033.0	-1489000.0	-12406.0
1268.133	-3959.5	700.9	-71219.3	136323.0	-1098000.0	-12637.0
1268.134	-3432.5	624.1	-65473.8	116071.0	-1086000.0	-11514.0
1268.135	-2124.6	424.2	-26179.6	135944.0	-1002000.0	-9479.0

1268.136	-1595.2	332.4	-19651.6	109886.0	-988972.0	-8422.0
1268.137	-2272.1	454.8	-28007.1	146256.0	-1039000.0	-11572.0
1268.138	-1741.2	363.2	-21412.2	120575.0	-1025000.0	-10522.0
1268.139	-2019.2	436.8	-25144.8	146524.0	-1596000.0	-9134.0
1268.140	-1488.8	344.9	-18563.6	120690.0	-1582000.0	-8076.0
1268.141	-2787.8	548.9	-35816.3	168091.0	-1194000.0	-8190.0
1268.142	-2256.7	457.0	-29261.7	142087.0	-1179000.0	-7137.0
1268.143	-2483.4	484.5	-31312.4	149789.0	-1036000.0	-11732.0
1268.144	-1766.3	364.7	-21020.8	122474.0	-969363.9	-7232.0
1268.145	-1953.9	391.9	-24823.8	123289.0	-1022000.0	-10668.0
1268.146	-1236.7	272.2	-14527.4	96003.0	-955254.0	-6166.0
1268.147	-2722.7	524.6	-34740.2	158980.0	-1059000.0	-13235.0
1268.148	-1526.5	324.8	-17569.9	113466.0	-946868.0	-5737.0
1268.149	-2193.0	432.0	-28256.3	132445.0	-1045000.0	-12171.0
1268.150	-996.7	232.3	-11074.4	86988.0	-932575.0	-4671.0
1268.151	-2631.0	514.9	-33154.5	159998.0	-1073000.0	-13826.0
1268.152	-1912.8	395.4	-22806.1	133035.0	-1006000.0	-9330.0
1268.153	-2101.3	422.4	-26656.5	133573.0	-1059000.0	-12762.0
1268.154	-1383.5	302.9	-16326.0	106494.0	-991792.0	-8264.0
1268.155	-2379.5	496.1	-30382.6	159604.0	-1630000.0	-11372.0
1268.156	-1661.2	376.9	-20023.1	132762.0	-1563000.0	-6883.0
1268.157	-1848.5	404.8	-23739.7	134232.0	-1616000.0	-10321.0
1268.158	-1131.3	284.4	-13501.0	106435.0	-1549000.0	-5817.0
1268.159	-3146.7	609.2	-40956.9	181910.0	-1228000.0	-10444.0
1268.160	-2427.5	489.8	-30548.6	155277.0	-1159000.0	-5946.0
1268.161	-2616.9	516.6	-34465.4	155402.0	-1214000.0	-9379.0
1268.162	-1898.1	396.6	-24133.4	128176.0	-1145000.0	-4880.0
1268.163	-2337.5	317.0	-26690.1	61305.0	-1065000.0	-7735.0
1268.164	-1804.5	190.6	-20847.5	15544.0	-1052000.0	-6712.0
1268.165	-2463.0	107.2	-29772.6	-68426.0	-1106000.0	-6710.0
1268.166	-1930.3	-16.8	-24188.3	-114451.0	-1094000.0	-5657.0
1268.167	-2486.0	410.7	-28012.6	106402.0	-1102000.0	-9787.0
1268.168	-1951.1	249.7	-22407.5	41654.0	-1090000.0	-8800.0
1268.169	-2233.8	335.1	-25562.4	75360.0	-1659000.0	-7365.0
1268.170	-1699.9	211.1	-19752.4	30777.0	-1646000.0	-6345.0
1268.171	-3002.6	510.1	-34704.4	133349.0	-1251000.0	-6413.0
1268.172	-2469.5	362.1	-29319.0	75549.0	-1240000.0	-5385.0
1268.173	-1891.6	411.3	-45379.7	79292.0	-1003000.0	-14009.0
1268.174	-1362.7	336.4	-39716.7	60286.0	-990636.1	-12910.0
1268.175	-1740.9	468.4	-60684.7	69630.0	-1007000.0	-16877.0
1268.176	-1214.5	388.9	-55099.8	47714.0	-995604.0	-15757.0
1268.177	-2035.8	433.1	-47172.2	85141.0	-1040000.0	-16155.0
1268.178	-1508.7	357.3	-41327.9	66053.0	-1027000.0	-15035.0
1268.179	-1784.8	421.2	-44184.8	88914.0	-1595000.0	-13672.0
1268.180	-1257.6	348.0	-38524.6	70620.0	-1583000.0	-12557.0
1268.181	-2553.2	501.1	-53613.8	98239.0	-1192000.0	-12774.0
1268.182	-2023.9	439.6	-48095.4	84260.0	-1178000.0	-11661.0
1268.183	-1216.1	310.2	-13753.4	114612.0	-600376.0	-3188.0
1268.184	-684.9	219.2	-7265.9	89344.0	-585273.0	-2118.0
1268.185	-1110.7	323.3	-12595.2	125956.0	-1193000.0	-2832.0
1268.186	-580.3	231.8	-6108.4	100408.0	-1178000.0	-1759.0
1268.187	-907.9	299.5	-9530.3	122874.0	-406010.0	-3236.0
1268.188	-380.5	211.3	-3512.4	97357.0	-393644.0	-2138.0
1268.189	-1881.1	434.3	-23403.7	146072.0	-792714.0	-1897.0
1268.190	-1351.0	342.0	-16917.4	119949.0	-778059.0	-822.0
1268.191	-4916.9	948.2	-64401.5	273656.0	-949278.0	-26325.0
1268.192	-4385.7	859.2	-57614.5	249890.0	-932900.0	-25313.0
1268.193	-4004.5	789.8	-51985.3	233563.0	-863655.9	-20609.0
1268.194	-3473.5	700.1	-45238.6	209400.0	-847580.0	-19586.0
1268.195	-3897.0	804.0	-50682.1	246155.0	-1455000.0	-20260.0
1268.196	-3369.0	714.0	-44044.9	221293.0	-1440000.0	-19225.0
1268.197	-3698.3	776.4	-47246.2	241255.0	-668381.0	-20696.0

1268.198	-3168.5	683.9	-40774.3	214967.0	-653942.0	-19619.0
1268.199	-4667.9	915.2	-61520.8	266403.0	-1055000.0	-19318.0
1268.200	-4140.6	825.5	-54912.5	241564.0	-1041000.0	-18290.0
1268.201	-3080.6	612.5	-39154.8	182756.0	-626818.0	-9482.0
1268.202	-2547.1	520.9	-32350.1	158151.0	-609332.0	-8413.0
1268.203	-3684.0	716.5	-46901.3	209596.0	-633637.0	-11609.0
1268.204	-3159.8	623.7	-40325.9	183801.0	-617263.0	-10469.0
1268.205	-2974.9	626.7	-37876.5	195124.0	-1219000.0	-9120.0
1268.206	-2442.4	535.9	-31005.5	171158.0	-1202000.0	-8048.0
1268.207	-2768.7	595.9	-34563.7	188639.0	-429963.0	-9528.0
1268.208	-2239.8	504.7	-28030.9	163395.0	-414964.0	-8441.0
1268.209	-3740.9	738.6	-48627.0	216057.0	-817832.0	-8220.0
1268.210	-3209.1	646.9	-41867.7	191234.0	-800648.0	-7138.0
1268.211	-1664.2	400.6	-19435.7	144618.0	-713295.0	-9586.0
1268.212	-1134.7	308.4	-13012.0	118399.0	-699077.0	-8514.0
1268.213	-1812.4	430.6	-21257.9	154827.0	-749826.0	-11656.0
1268.214	-1280.9	339.5	-14709.7	129533.0	-735351.0	-10619.0
1268.215	-1559.5	413.1	-18379.0	155278.0	-1306000.0	-9227.0
1268.216	-1030.0	321.1	-11929.5	129223.0	-1292000.0	-8156.0
1268.217	-1358.9	386.3	-15157.8	151169.0	-520212.0	-9625.0
1268.218	-821.9	298.5	-8493.5	128023.0	-501953.0	-8618.0
1268.219	-2328.1	524.7	-29028.3	176410.0	-904888.0	-8290.0
1268.220	-1798.5	432.5	-22553.0	150223.0	-890508.0	-7218.0
1268.221	-2124.1	271.6	-32558.7	30165.0	-1197000.0	-3140.0
1268.222	-1597.2	179.2	-25997.9	3774.0	-1181000.0	-2002.0
1268.223	-2022.0	283.3	-31508.3	40422.0	-1789000.0	-2720.0
1268.224	-1490.6	191.2	-25086.6	13604.0	-1774000.0	-1663.0
1268.225	-2423.9	234.9	-40520.2	-18710.0	-1399000.0	-3121.0
1268.226	-1894.1	140.8	-34430.6	-47714.0	-1385000.0	-2033.0
1268.227	-2787.4	396.4	-42274.0	62260.0	-1389000.0	-1875.0
1268.228	-2258.1	303.3	-35804.0	35287.0	-1375000.0	-787.0
1268.229	-5830.0	910.8	-83252.5	190510.0	-1543000.0	-26181.0
1268.230	-5297.7	819.8	-76676.0	165026.0	-1529000.0	-25142.0
1268.231	-4903.4	753.6	-70882.0	150940.0	-1459000.0	-20713.0
1268.232	-4384.1	661.4	-64257.5	124935.0	-1442000.0	-19433.0
1268.233	-4799.1	764.4	-70087.8	159905.0	-2054000.0	-20353.0
1268.234	-4269.7	672.9	-63488.0	134376.0	-2038000.0	-19266.0
1268.235	-5203.3	714.3	-78923.3	101443.0	-1662000.0	-20703.0
1268.236	-4674.8	622.5	-72423.4	75082.0	-1647000.0	-19592.0
1268.237	-5576.9	879.2	-80311.8	184072.0	-1648000.0	-19216.0
1268.238	-5046.8	786.6	-73873.2	157410.0	-1634000.0	-18150.0
1268.239	-3979.4	582.1	-56951.8	104939.0	-1218000.0	-9487.0
1268.240	-3450.5	490.6	-50236.3	79788.0	-1202000.0	-8393.0
1268.241	-4587.4	683.8	-64553.9	131159.0	-1224000.0	-11563.0
1268.242	-4058.7	592.7	-57724.0	106638.0	-1207000.0	-10468.0
1268.243	-3874.0	595.0	-55739.8	116588.0	-1811000.0	-9127.0
1268.244	-3345.0	504.3	-48975.6	92048.0	-1795000.0	-8033.0
1268.245	-4278.2	542.3	-65451.1	52649.0	-1422000.0	-9473.0
1268.246	-3749.2	450.4	-58774.9	27276.0	-1406000.0	-8381.0
1268.247	-4653.1	705.4	-66458.6	137323.0	-1406000.0	-8040.0
1268.248	-4111.6	617.9	-59644.7	114190.0	-1393000.0	-7126.0
1268.249	-2573.4	364.8	-38100.6	62380.0	-1306000.0	-9468.0
1268.250	-2045.6	272.8	-31670.4	35822.0	-1293000.0	-8395.0
1268.251	-2721.6	395.3	-39984.4	72415.0	-1343000.0	-11559.0
1268.252	-2192.2	303.3	-33522.6	45936.0	-1329000.0	-10491.0
1268.253	-2469.9	376.2	-37143.2	72287.0	-1900000.0	-9106.0
1268.254	-1938.8	286.4	-30488.0	47474.0	-1886000.0	-8057.0
1268.255	-2873.8	327.4	-46097.5	13872.0	-1508000.0	-9449.0
1268.256	-2345.5	237.5	-39623.4	-11699.0	-1495000.0	-8377.0
1268.257	-3237.3	489.8	-47666.9	95036.0	-1498000.0	-8174.0
1268.258	-2706.6	398.7	-41092.0	69430.0	-1483000.0	-7117.0
1268.401	-2258.5	-1669.6	15926.5	259729.0	219115.0	9712.0

1268.402	-2860.2	-1338.9	7096.0	498123.0	396278.0	7085.0
1268.403	-2608.3	-4138.0	-29939.6	-1543000.0	7472.0	10806.0
1268.404	-3203.1	-3888.8	-39001.1	-1350000.0	183997.0	8095.0
1268.405	792.8	2484.4	-164000.0	-70565.0	-589021.0	-13097.0
1268.406	210.2	2604.9	-171800.0	61673.0	-409374.0	-15969.0
1268.407	502.8	472.7	-230800.0	-1712000.0	-839013.9	-12007.0
1268.408	-88.7	648.2	-237300.0	-1550000.0	-653679.0	-14787.0
1268.409	-2232.3	-1972.6	15135.2	45316.0	227238.0	9547.0
1268.410	-2838.6	-1657.2	7150.8	278153.0	405733.0	6935.0
1268.411	-2633.5	-3893.6	-30491.8	-1364000.0	-1925.0	10969.0
1268.412	-3224.4	-3633.9	-39516.3	-1164000.0	174322.0	8205.0
1268.413	818.5	2054.5	-167100.0	-373270.0	-587215.0	-13302.0
1268.414	236.3	2155.1	-174600.0	-248210.0	-408312.0	-16190.0
1268.415	489.7	848.3	-228800.0	-1442000.0	-843546.0	-11912.0
1268.416	-101.4	1028.0	-235200.0	-1278000.0	-657252.0	-14689.0
1268.417	-2290.6	-1493.7	10792.2	353867.0	403542.0	9696.0
1268.418	-2885.2	-1130.8	675.8	604526.0	579270.0	7029.0
1268.419	-2640.6	-3976.5	-35779.4	-1454000.0	189467.0	10888.0
1268.420	-3227.6	-3725.4	-45617.0	-1261000.0	365758.0	8113.0
1268.421	783.0	2396.8	-144300.0	-78194.0	-716765.0	-13198.0
1268.422	195.9	2484.1	-152700.0	37422.0	-541343.0	-16052.0
1268.423	500.7	444.2	-209600.0	-1678000.0	-961791.0	-12158.0
1268.424	-96.5	607.8	-216900.0	-1525000.0	-781489.0	-14915.0
1268.425	-2250.6	-1795.0	7292.1	131794.0	404712.0	9463.0
1268.426	-2843.1	-1475.1	-2547.9	361157.0	580283.0	6757.0
1268.427	-2663.3	-3707.9	-34984.3	-1256000.0	183308.0	11032.0
1268.428	-3250.8	-3450.8	-44743.3	-1060000.0	359907.0	8265.0
1268.429	812.5	1966.7	-147000.0	-376477.0	-711407.0	-13431.0
1268.430	225.1	2063.9	-157000.0	-260170.0	-541806.0	-16274.0
1268.431	479.6	824.7	-207200.0	-1405000.0	-967326.0	-12000.0
1268.432	-116.3	998.3	-214400.0	-1247000.0	-785713.0	-14761.0
1268.433	-869.5	3196.9	62227.4	2680000.0	338287.0	666.0
1268.434	-1468.6	3402.2	51080.1	2841000.0	508395.0	-2012.0
1268.435	-1910.6	-4764.1	-103200.0	-3187000.0	-389810.0	3666.0
1268.436	-2500.7	-4523.4	-113700.0	-3001000.0	-215771.0	913.0
1268.437	79.9	3491.4	20189.0	2162000.0	98791.0	-7125.0
1268.438	-507.3	3655.8	7658.1	2298000.0	266902.0	-9889.0
1268.439	-970.7	-2726.9	-161200.0	-2871000.0	-638615.0	-2923.0
1268.440	-1565.5	-2522.8	-166500.0	-2686000.0	-449645.0	-5690.0
1268.441	-855.7	3189.3	55499.4	2658000.0	382293.0	516.0
1268.442	-1452.1	3402.8	45319.3	2826000.0	555533.0	-2174.0
1268.443	-1919.8	-4698.1	-103400.0	-3144000.0	-329892.0	3714.0
1268.444	-2507.1	-4458.9	-113900.0	-2959000.0	-154760.0	953.0
1268.445	66.1	3481.8	23647.5	2163000.0	50284.0	-6990.0
1268.446	-524.9	3639.4	11502.7	2297000.0	217876.0	-9740.0
1268.447	-970.5	-2759.2	-157400.0	-2883000.0	-683267.0	-2994.0
1268.448	-1569.7	-2553.2	-162700.0	-2697000.0	-495733.0	-5727.0
1268.449	-776.6	2016.0	68052.2	1906000.0	380897.0	-59.0
1268.450	-1379.9	2202.7	56370.8	2056000.0	547160.0	-2718.0
1268.451	-1955.8	-3907.2	-102100.0	-2547000.0	-405215.0	3960.0
1268.452	-2539.7	-3668.2	-112600.0	-2361000.0	-229468.0	1163.0
1268.453	169.1	2170.0	-5653.1	1192000.0	51991.0	-7638.0
1268.454	-424.0	2332.3	-18470.5	1327000.0	216124.0	-10367.0
1268.455	-1033.0	-1589.2	-152300.0	-2046000.0	-637964.0	-2515.0
1268.456	-1614.1	-1398.6	-158400.0	-1872000.0	-446343.0	-5408.0
1268.457	-771.0	2004.5	60554.1	1878000.0	420562.0	-174.0
1268.458	-1372.3	2197.5	49409.6	2033000.0	588874.0	-2841.0
1268.459	-1967.3	-3847.6	-103100.0	-2510000.0	-348533.0	4024.0
1268.460	-2548.0	-3611.9	-113700.0	-2327000.0	-171769.0	1221.0
1268.461	161.8	2156.2	-1062.3	1194000.0	9337.0	-7570.0
1268.462	-434.7	2316.3	-14543.5	1326000.0	170239.0	-10273.0
1268.463	-1034.2	-1620.9	-149300.0	-2059000.0	-688921.0	-2565.0

1268.464	-1619.4	-1430.0	-155500.0	-1886000.0	-498951.0	-5433.0
1268.529	-515.0	176.0	24523.0	475714.0	-102344.0	4636.0
1268.530	-2540.0	1262.8	-4869.7	1255000.0	488379.0	-3998.0
1268.531	-850.2	-2260.0	-23663.7	-1311000.0	-319435.0	5672.0
1268.532	-2822.3	-1502.0	-56130.4	-715796.0	266597.0	-3435.0
1268.533	381.5	1314.6	-23909.4	345588.0	-339334.0	-2181.0
1268.534	-1557.1	1620.5	-55790.2	714728.0	246937.0	-11782.0
1268.535	95.3	-748.5	-90326.0	-1323000.0	-591141.0	-1129.0
1268.536	-1890.6	-98.0	-110200.0	-729389.0	27939.0	-10333.0
1268.537	-491.7	-120.8	27086.0	275689.0	-84890.0	4472.0
1268.538	-2520.9	936.2	-2656.0	1038000.0	503026.0	-4141.0
1268.539	-868.8	-2018.6	-23545.4	-1131000.0	-326510.0	5784.0
1268.540	-2832.4	-1240.1	-57896.1	-529383.0	256915.0	-3383.0
1268.541	409.3	888.2	-29132.9	40197.0	-344329.0	-2378.0
1268.542	-1541.9	1232.3	-62657.3	431701.0	227376.0	-11852.0
1268.543	80.3	-375.7	-88170.7	-1056000.0	-595729.0	-1010.0
1268.544	-1891.0	243.7	-107900.0	-484398.0	32640.0	-10357.0
1268.545	-516.8	239.6	20323.4	500836.0	-52334.0	4608.0
1268.546	-2518.5	1280.7	-10720.4	1251000.0	536074.0	-4220.0
1268.547	-863.2	-2202.6	-24212.7	-1276000.0	-262035.0	5741.0
1268.548	-2821.9	-1459.0	-58799.0	-694318.0	321567.0	-3479.0
1268.549	375.5	1287.1	-18325.5	343654.0	-380372.0	-2181.0
1268.550	-1574.2	1614.8	-51564.8	720078.0	197979.0	-11681.0
1268.551	96.0	-751.5	-83317.8	-1308000.0	-625448.0	-1172.0
1268.552	-1898.1	-113.7	-105500.0	-729194.0	-16630.0	-10342.0
1268.553	-489.2	-75.6	21995.4	287760.0	-38462.0	4396.0
1268.554	-2501.0	946.4	-8362.4	1029000.0	550971.0	-4345.0
1268.555	-881.9	-1956.2	-24075.4	-1092000.0	-269188.0	5852.0
1268.556	-2834.4	-1170.2	-58830.0	-487368.0	315885.0	-3393.0
1268.557	410.0	863.7	-24060.0	37110.0	-382728.0	-2425.0
1268.558	-1552.7	1219.8	-58922.2	431779.0	180411.0	-11786.0
1268.559	78.5	-385.8	-81669.5	-1046000.0	-632901.0	-1050.0
1268.560	-1906.6	234.4	-103200.0	-479747.0	-16108.0	-10298.0
1269.1	-1682.6	-197.2	-29589.7	-119947.0	-911822.0	2817.0
1269.2	-1153.7	-141.5	-20598.8	-86786.0	-892592.0	1774.0
1269.3	-1581.9	-204.5	-28277.0	-126760.0	-1505000.0	2357.0
1269.4	-1052.7	-149.4	-19113.1	-94196.0	-1485000.0	1321.0
1269.5	-2347.5	-267.0	-44295.7	-159059.0	-1115000.0	1484.0
1269.6	-1817.1	-211.6	-35309.8	-125972.0	-1096000.0	457.0
1269.7	-5379.2	-560.2	-104900.0	-323224.0	-1307000.0	25846.0
1269.8	-4849.8	-504.5	-95983.1	-289987.0	-1288000.0	24808.0
1269.9	-4466.6	-469.5	-86221.5	-272606.0	-1209000.0	20152.0
1269.10	-3939.0	-414.8	-77452.8	-239710.0	-1192000.0	19124.0
1269.11	-4363.5	-477.1	-84963.3	-279256.0	-1802000.0	19714.0
1269.12	-3833.5	-422.4	-75809.3	-246801.0	-1782000.0	18683.0
1269.13	-5136.9	-540.5	-100900.0	-312712.0	-1414000.0	18801.0
1269.14	-4605.8	-485.1	-92023.0	-279479.0	-1395000.0	17779.0
1269.15	-2049.3	-232.2	-36575.2	-140139.0	-947063.9	4941.0
1269.16	-1325.0	-161.1	-22440.2	-99662.0	-873629.0	566.0
1269.17	-1512.4	-177.4	-27736.6	-107058.0	-930420.0	4014.0
1269.18	-795.5	-105.5	-13429.9	-66575.0	-854344.1	-469.0
1269.19	-2288.4	-255.8	-41253.6	-153589.0	-971465.1	6422.0
1269.20	-1086.4	-137.1	-17653.6	-86210.0	-847941.0	-932.0
1269.21	-1756.6	-200.5	-32344.9	-120394.0	-953198.1	5419.0
1269.22	-556.5	-81.6	-8657.0	-53075.0	-828959.9	-1963.0
1269.23	-1938.3	-240.6	-35407.1	-146980.0	-1543000.0	4615.0
1269.24	-1224.7	-168.6	-21110.8	-106585.0	-1467000.0	108.0
1269.25	-1409.9	-185.6	-26243.5	-114506.0	-1523000.0	3571.0
1269.26	-694.5	-113.4	-11989.9	-73847.0	-1447000.0	-922.0
1269.27	-2706.0	-302.8	-51392.0	-179302.0	-1153000.0	3722.0
1269.28	-1988.1	-231.2	-37166.2	-138781.0	-1077000.0	-750.0
1269.29	-2176.6	-247.8	-42333.1	-146587.0	-1134000.0	2693.0

1269.30	-1457.6	-175.8	-28168.3	-105694.0	-1058000.0	-1777.0
1269.31	-5738.6	-596.2	-112000.0	-343702.0	-1345000.0	28079.0
1269.32	-5023.0	-523.6	-97834.2	-302678.0	-1270000.0	23583.0
1269.33	-5208.3	-540.7	-103100.0	-310504.0	-1326000.0	27051.0
1269.34	-4493.1	-467.9	-88923.2	-269403.0	-1251000.0	22550.0
1269.35	-5062.4	-530.2	-97924.8	-307002.0	-1270000.0	23903.0
1269.36	-3868.7	-409.8	-74488.6	-238574.0	-1146000.0	16427.0
1269.37	-4532.4	-474.6	-89081.7	-273627.0	-1252000.0	22873.0
1269.38	-3340.0	-354.9	-65668.0	-205622.0	-1129000.0	15402.0
1269.39	-4822.9	-506.0	-93275.0	-293186.0	-1245000.0	22413.0
1269.40	-4108.5	-433.7	-79199.1	-252226.0	-1171000.0	17914.0
1269.41	-4293.0	-450.6	-84383.3	-259945.0	-1227000.0	21383.0
1269.42	-3579.8	-378.9	-70389.5	-219274.0	-1154000.0	16891.0
1269.43	-4722.8	-513.2	-91972.2	-299889.0	-1839000.0	21947.0
1269.44	-4004.2	-441.1	-77946.1	-258659.0	-1764000.0	17480.0
1269.45	-4192.9	-458.4	-82828.8	-267394.0	-1820000.0	20916.0
1269.46	-3474.3	-386.3	-68788.2	-226220.0	-1745000.0	16450.0
1269.47	-5496.6	-576.5	-108000.0	-333193.0	-1452000.0	21033.0
1269.48	-4776.9	-504.6	-93847.9	-292274.0	-1376000.0	16571.0
1269.49	-4965.8	-521.0	-99114.0	-299934.0	-1433000.0	20008.0
1269.50	-4245.8	-449.2	-84934.1	-259017.0	-1357000.0	15549.0
1269.51	-1471.8	-310.6	-57424.7	-160067.0	-943112.0	7050.0
1269.52	-935.3	-277.6	-49606.7	-137168.0	-925084.9	6052.0
1269.53	-1320.3	-437.8	-79355.5	-209268.0	-968932.0	9910.0
1269.54	-787.7	-395.0	-71394.7	-178536.0	-950198.1	8888.0
1269.55	-1368.8	-315.2	-55536.4	-165818.0	-1535000.0	6618.0
1269.56	-832.8	-283.1	-47690.7	-143268.0	-1517000.0	5613.0
1269.57	-2139.3	-349.5	-70540.8	-185020.0	-1143000.0	5729.0
1269.58	-1601.3	-317.9	-62531.9	-162962.0	-1124000.0	4747.0
1269.59	-5145.7	-537.6	-126700.0	-301140.0	-1317000.0	30326.0
1269.60	-4615.7	-491.1	-118300.0	-271724.0	-1300000.0	29287.0
1269.61	-4233.5	-462.7	-108800.0	-256932.0	-1222000.0	24664.0
1269.62	-3707.3	-421.0	-100800.0	-229520.0	-1207000.0	23597.0
1269.63	-4131.0	-590.4	-131900.0	-308117.0	-1268000.0	27151.0
1269.64	-3597.7	-557.9	-123900.0	-285095.0	-1250000.0	26125.0
1269.65	-4134.8	-466.7	-107300.0	-261972.0	-1816000.0	24203.0
1269.66	-3604.8	-425.6	-99134.5	-234809.0	-1800000.0	23155.0
1269.67	-4900.6	-523.4	-122700.0	-293066.0	-1423000.0	23331.0
1269.68	-4371.2	-474.4	-114400.0	-261840.0	-1406000.0	22274.0
1269.69	-1917.1	-23.5	-29108.4	-30952.0	-962474.0	933.0
1269.70	-1381.4	52.0	-20891.4	12232.0	-945463.0	-44.0
1269.71	-2060.6	136.9	-30625.6	50952.0	-1001000.0	-205.0
1269.72	-1525.8	222.5	-22032.3	99211.0	-982705.0	-1179.0
1269.73	-1815.9	-35.7	-27557.2	-40261.0	-1555000.0	482.0
1269.74	-1280.5	41.5	-19362.3	3880.0	-1538000.0	-498.0
1269.75	-2586.4	-126.2	-42606.0	-86095.0	-1162000.0	-446.0
1269.76	-2052.8	-47.3	-34347.8	-41942.0	-1145000.0	-1439.0
1269.77	-5627.4	-523.9	-101100.0	-297756.0	-1347000.0	23792.0
1269.78	-5098.7	-462.9	-92003.1	-262862.0	-1328000.0	22754.0
1269.79	-4715.2	-424.5	-82564.6	-243721.0	-1249000.0	18110.0
1269.80	-4181.9	-359.0	-73645.8	-206383.0	-1231000.0	17112.0
1269.81	-4860.6	-244.5	-83201.7	-155292.0	-1286000.0	16957.0
1269.82	-4329.2	-165.7	-74808.0	-111910.0	-1270000.0	15952.0
1269.83	-4614.1	-432.8	-81064.9	-251017.0	-1842000.0	17644.0
1269.84	-4079.9	-369.9	-72116.8	-214988.0	-1823000.0	16672.0
1269.85	-5384.5	-500.8	-97233.8	-285198.0	-1452000.0	16706.0
1269.86	-4850.9	-440.5	-88176.0	-250499.0	-1433000.0	15727.0
1269.87	-2138.6	-275.4	-35867.3	-174644.0	-1020000.0	9077.0
1269.88	-1607.0	-219.8	-26943.2	-140944.0	-1002000.0	8070.0
1269.89	-2286.3	-300.6	-38051.3	-191586.0	-1057000.0	11154.0
1269.90	-1754.7	-245.4	-29032.5	-158279.0	-1039000.0	10147.0
1269.91	-2025.7	-285.8	-34557.2	-182809.0	-1616000.0	8804.0

1269.92	-1504.9	-228.5	-25412.1	-148921.0	-1595000.0	7621.0
1269.93	-2804.7	-346.5	-50427.0	-215082.0	-1223000.0	7730.0
1269.94	-2273.7	-291.0	-41470.8	-181719.0	-1204000.0	6714.0
1269.95	-2487.0	-313.2	-43172.7	-195638.0	-1061000.0	11490.0
1269.96	-1777.9	-239.7	-28814.9	-153971.0	-983582.0	6870.0
1269.97	-1967.3	-255.9	-34003.3	-161767.0	-1040000.0	10287.0
1269.98	-1246.3	-184.1	-19868.2	-120302.0	-965124.0	5862.0
1269.99	-2736.0	-335.6	-47670.4	-209200.0	-1082000.0	12787.0
1269.100	-1537.7	-215.7	-24080.8	-140163.0	-958504.0	5392.0
1269.101	-2204.9	-280.2	-38701.0	-175694.0	-1064000.0	11778.0
1269.102	-1007.4	-160.0	-15133.4	-106519.0	-940483.0	4378.0
1269.103	-2643.2	-337.0	-45091.4	-212508.0	-1093000.0	13389.0
1269.104	-1925.5	-264.9	-31007.4	-170879.0	-1020000.0	8949.0
1269.105	-2112.2	-281.6	-36102.7	-179088.0	-1075000.0	12378.0
1269.106	-1393.9	-209.6	-21984.9	-137564.0	-1002000.0	7941.0
1269.107	-2393.9	-320.3	-41464.5	-203162.0	-1651000.0	10864.0
1269.108	-1674.4	-248.8	-27287.0	-162148.0	-1576000.0	6427.0
1269.109	-1854.9	-266.0	-32707.1	-169822.0	-1635000.0	10007.0
1269.110	-1144.4	-193.0	-18375.4	-128349.0	-1558000.0	5413.0
1269.111	-3163.1	-382.3	-57521.6	-235637.0	-1260000.0	9950.0
1269.112	-2444.4	-310.6	-43299.3	-194512.0	-1186000.0	5513.0
1269.113	-2633.4	-326.9	-48557.0	-202246.0	-1242000.0	8934.0
1269.114	-1913.4	-255.1	-34342.8	-161107.0	-1167000.0	4498.0
1269.115	-1925.7	-337.7	-61795.0	-188902.0	-1054000.0	13467.0
1269.116	-1392.5	-304.1	-53821.2	-165681.0	-1037000.0	12447.0
1269.117	-1780.4	-469.2	-83639.1	-240075.0	-1083000.0	16291.0
1269.118	-1237.4	-440.4	-75501.2	-219479.0	-1061000.0	15349.0
1269.119	-2075.3	-333.3	-63016.7	-193336.0	-1091000.0	15569.0
1269.120	-1541.8	-315.9	-55355.9	-176636.0	-1074000.0	14556.0
1269.121	-1823.5	-343.0	-59992.6	-194835.0	-1646000.0	13020.0
1269.122	-1289.0	-310.8	-51860.0	-172228.0	-1628000.0	12012.0
1269.123	-2592.6	-363.3	-74673.3	-207723.0	-1253000.0	12157.0
1269.124	-2059.1	-345.1	-67033.6	-191594.0	-1236000.0	11122.0
1269.125	-2357.4	-153.4	-33557.5	-107197.0	-1072000.0	7323.0
1269.126	-1825.6	-86.1	-24906.6	-70764.0	-1055000.0	6324.0
1269.127	-2513.0	12.2	-34740.5	-27265.0	-1113000.0	6113.0
1269.128	-1976.4	90.3	-26611.7	17129.0	-1097000.0	5143.0
1269.129	-2506.8	-232.4	-34200.6	-151120.0	-1106000.0	9352.0
1269.130	-1970.1	-122.3	-26320.6	-91680.0	-1091000.0	8401.0
1269.131	-2258.3	-199.9	-31518.3	-133257.0	-1663000.0	6837.0
1269.132	-1727.0	-93.7	-23527.7	-77587.0	-1649000.0	5842.0
1269.133	-3031.5	-287.0	-46756.6	-177508.0	-1271000.0	5893.0
1269.134	-2497.2	-210.8	-38241.6	-134873.0	-1254000.0	4916.0
1269.135	-3548.7	-336.2	-69688.6	-187859.0	-969276.9	9036.0
1269.136	-3017.6	-280.1	-60551.7	-154687.0	-948292.0	8002.0
1269.137	-4157.9	-381.3	-82727.4	-210033.0	-986909.0	11079.0
1269.138	-3628.5	-325.3	-73652.7	-176910.0	-966617.0	10038.0
1269.139	-3447.3	-343.6	-68303.5	-194716.0	-1562000.0	8579.0
1269.140	-2917.2	-287.8	-59272.0	-161492.0	-1542000.0	7545.0
1269.141	-4215.3	-406.5	-84331.1	-227477.0	-1172000.0	7691.0
1269.142	-3685.9	-350.7	-75282.7	-194347.0	-1153000.0	6652.0
1269.143	-3908.6	-372.2	-76866.6	-208206.0	-1008000.0	11270.0
1269.144	-3188.4	-299.8	-62415.8	-167492.0	-929330.9	6796.0
1269.145	-3377.5	-316.5	-67790.9	-175102.0	-987969.1	10243.0
1269.146	-2657.3	-244.2	-53362.5	-134370.0	-909526.9	5771.0
1269.147	-4148.6	-396.2	-81642.8	-221791.0	-1034000.0	12759.0
1269.148	-2949.2	-275.8	-57593.4	-154015.0	-903196.0	5300.0
1269.149	-3617.5	-340.6	-72552.8	-188745.0	-1014000.0	11732.0
1269.150	-2418.3	-220.2	-48553.3	-120916.0	-883626.0	4274.0
1269.151	-4517.8	-417.4	-89885.9	-230433.0	-1026000.0	13313.0
1269.152	-3798.7	-345.0	-75494.6	-189685.0	-947396.0	8834.0
1269.153	-3986.8	-361.9	-80787.6	-197447.0	-1005000.0	12285.0

1269.154	-3267.4	-289.3	-66431.2	-156537.0	-927445.0	7809.0
1269.155	-3805.5	-379.9	-75484.1	-215085.0	-1601000.0	10828.0
1269.156	-3086.7	-307.4	-61043.7	-174336.0	-1522000.0	6343.0
1269.157	-3276.2	-323.9	-66454.4	-181837.0	-1581000.0	9787.0
1269.158	-2555.9	-251.8	-52040.0	-141153.0	-1503000.0	5318.0
1269.159	-4575.2	-442.6	-91463.3	-247941.0	-1211000.0	9924.0
1269.160	-3857.0	-370.2	-77228.9	-206985.0	-1134000.0	5447.0
1269.161	-4044.2	-387.2	-82379.4	-214948.0	-1191000.0	8897.0
1269.162	-3325.6	-314.6	-68148.6	-173870.0	-1114000.0	4422.0
1269.163	-3311.6	-407.8	-95802.2	-209761.0	-992507.0	13404.0
1269.164	-2783.7	-375.8	-87976.2	-187315.0	-976212.0	12328.0
1269.165	-3176.4	-545.9	-117900.0	-265183.0	-1024000.0	16147.0
1269.166	-2646.7	-508.9	-110300.0	-240430.0	-1009000.0	15097.0
1269.167	-3915.5	-418.5	-108100.0	-218541.0	-1010000.0	15493.0
1269.168	-3389.8	-405.2	-100300.0	-203548.0	-993048.1	14382.0
1269.169	-3208.2	-413.0	-94033.0	-215600.0	-1584000.0	12971.0
1269.170	-2681.1	-380.0	-86007.8	-193012.0	-1568000.0	11892.0
1269.171	-3977.3	-427.5	-108500.0	-224735.0	-1191000.0	12102.0
1269.172	-3448.8	-415.5	-101100.0	-212945.0	-1176000.0	11029.0
1269.173	-3785.1	-202.0	-68087.6	-117613.0	-1012000.0	7073.0
1269.174	-3252.0	-126.7	-59773.6	-75622.0	-995151.9	6074.0
1269.175	-3934.4	-27.3	-69462.1	-30403.0	-1052000.0	5893.0
1269.176	-3398.7	47.3	-61216.8	12456.0	-1035000.0	4915.0
1269.177	-4398.8	-257.1	-81004.4	-144332.0	-1028000.0	9065.0
1269.178	-3863.7	-183.7	-72534.8	-103508.0	-1011000.0	8089.0
1269.179	-3685.5	-213.1	-66575.3	-126315.0	-1605000.0	6611.0
1269.180	-3150.4	-134.5	-58260.2	-82705.0	-1588000.0	5629.0
1269.181	-4454.8	-328.0	-81572.1	-183526.0	-1210000.0	5681.0
1269.182	-3922.1	-223.5	-73432.4	-127250.0	-1195000.0	4696.0
1269.183	-1236.6	-134.9	-41444.6	-59083.0	-682928.0	2822.0
1269.184	-706.9	-80.5	-32481.0	-26997.0	-664528.0	1800.0
1269.185	-1135.1	-141.8	-40294.1	-65297.0	-1277000.0	2375.0
1269.186	-604.4	-88.2	-31304.4	-33537.0	-1258000.0	1358.0
1269.187	-937.8	-94.3	-49161.2	-20549.0	-530849.0	2860.0
1269.188	-403.5	-33.9	-40005.7	13989.0	-510898.0	1865.0
1269.189	-1901.5	-203.3	-56056.8	-97331.0	-885051.0	1477.0
1269.190	-1370.6	-149.3	-47029.2	-65207.0	-866140.1	462.0
1269.191	-4933.0	-497.8	-116400.0	-262513.0	-1076000.0	25849.0
1269.192	-4403.7	-440.8	-107200.0	-228979.0	-1057000.0	24771.0
1269.193	-4020.5	-408.1	-97921.5	-212063.0	-978668.0	20178.0
1269.194	-3491.0	-351.4	-88807.5	-178617.0	-959858.0	19109.0
1269.195	-3921.2	-415.8	-96802.2	-218871.0	-1574000.0	19724.0
1269.196	-3388.5	-358.6	-87643.9	-185007.0	-1554000.0	18668.0
1269.197	-3719.7	-365.4	-105800.0	-170691.0	-826375.0	20174.0
1269.198	-3188.4	-311.6	-96691.4	-138619.0	-807222.0	19160.0
1269.199	-4687.1	-477.6	-112800.0	-250876.0	-1182000.0	18834.0
1269.200	-4153.8	-420.5	-103400.0	-217405.0	-1161000.0	17770.0
1269.201	-1676.8	-216.1	-47968.9	-113853.0	-793038.0	9231.0
1269.202	-1149.7	-162.3	-39073.3	-81682.0	-776180.0	8208.0
1269.203	-1829.1	-242.3	-50131.7	-132264.0	-828763.9	11263.0
1269.204	-1293.0	-189.2	-41279.7	-99638.0	-811232.0	10306.0
1269.205	-1575.0	-223.4	-46895.8	-120262.0	-1388000.0	8790.0
1269.206	-1046.8	-169.4	-38010.4	-87896.0	-1370000.0	7769.0
1269.207	-1380.4	-178.3	-55548.1	-75762.0	-642938.0	9271.0
1269.208	-848.8	-124.8	-46412.1	-44106.0	-623564.0	8266.0
1269.209	-2345.8	-284.9	-62778.4	-152608.0	-996919.1	7858.0
1269.210	-1817.1	-231.5	-53797.9	-120646.0	-979593.0	6848.0
1269.211	-3099.5	-275.1	-81353.7	-127601.0	-737083.0	9054.0
1269.212	-2568.1	-221.5	-72278.4	-95842.0	-717671.0	8034.0
1269.213	-3706.7	-321.4	-94447.1	-150032.0	-756121.0	11120.0
1269.214	-3178.9	-267.0	-85365.3	-118033.0	-735488.0	10065.0
1269.215	-2997.1	-282.3	-80104.5	-134040.0	-1331000.0	8611.0

1269.216	-2465.8	-228.6	-71043.2	-102185.0	-1311000.0	7589.0
1269.217	-2797.5	-239.2	-89091.5	-90886.0	-583787.0	9099.0
1269.218	-2275.1	-182.1	-80069.6	-57970.0	-566819.0	8016.0
1269.219	-3765.3	-344.4	-95985.0	-166298.0	-939987.0	7715.0
1269.220	-3233.9	-290.0	-86966.9	-133900.0	-920788.0	6694.0
1269.221	-2135.1	-178.4	-41141.3	-97799.0	-1211000.0	2747.0
1269.222	-1600.0	-122.5	-32134.0	-64705.0	-1194000.0	1793.0
1269.223	-2029.3	-187.7	-39575.9	-105663.0	-1805000.0	2364.0
1269.224	-1500.2	-131.5	-30136.1	-73398.0	-1785000.0	1326.0
1269.225	-2431.7	-160.9	-49126.3	-81900.0	-1413000.0	2768.0
1269.226	-1899.6	-104.9	-40058.2	-49177.0	-1394000.0	1761.0
1269.227	-2801.9	-248.5	-55891.7	-136930.0	-1413000.0	1379.0
1269.228	-2270.1	-193.0	-46679.8	-104199.0	-1394000.0	374.0
1269.229	-5825.1	-543.6	-116900.0	-301480.0	-1609000.0	25873.0
1269.230	-5296.3	-488.0	-107600.0	-269169.0	-1589000.0	24818.0
1269.231	-4929.6	-452.2	-98042.1	-251089.0	-1508000.0	19953.0
1269.232	-4385.3	-398.4	-89023.9	-218984.0	-1493000.0	19139.0
1269.233	-4826.9	-461.6	-96227.9	-259398.0	-2099000.0	19507.0
1269.234	-4295.2	-406.9	-87019.1	-227133.0	-2080000.0	18498.0
1269.235	-5227.0	-440.3	-105600.0	-237508.0	-1708000.0	19964.0
1269.236	-4693.8	-384.8	-96228.6	-205456.0	-1689000.0	18981.0
1269.237	-5583.0	-523.5	-112800.0	-291051.0	-1715000.0	18818.0
1269.238	-5052.4	-468.9	-103500.0	-258958.0	-1695000.0	17789.0
1269.239	-2586.3	-257.5	-46746.5	-154368.0	-1320000.0	9084.0
1269.240	-2054.6	-201.7	-37841.8	-120838.0	-1301000.0	8078.0
1269.241	-2734.5	-283.9	-48807.4	-171671.0	-1356000.0	11157.0
1269.242	-2202.8	-228.0	-39876.6	-137983.0	-1338000.0	10152.0
1269.243	-2484.4	-267.1	-45088.7	-162286.0	-1912000.0	8631.0
1269.244	-1952.8	-211.2	-36259.0	-128839.0	-1894000.0	7625.0
1269.245	-2883.9	-241.5	-54593.7	-139642.0	-1521000.0	9096.0
1269.246	-2352.2	-186.5	-45721.0	-106386.0	-1503000.0	8089.0
1269.247	-3244.3	-331.4	-61402.6	-194924.0	-1525000.0	7899.0
1269.248	-2723.1	-272.4	-52391.2	-161055.0	-1504000.0	6713.0
1269.249	-3995.1	-318.8	-81591.2	-166381.0	-1271000.0	9052.0
1269.250	-3462.0	-262.1	-72550.5	-132804.0	-1251000.0	8033.0
1269.251	-4603.6	-363.7	-94587.0	-188531.0	-1289000.0	11097.0
1269.252	-4072.1	-307.0	-85630.5	-154966.0	-1269000.0	10073.0
1269.253	-3891.5	-327.0	-80181.3	-173250.0	-1864000.0	8611.0
1269.254	-3362.3	-269.6	-71199.2	-139779.0	-1844000.0	7568.0
1269.255	-4291.2	-304.3	-89715.5	-151256.0	-1473000.0	9073.0
1269.256	-3758.5	-246.4	-80740.4	-117656.0	-1453000.0	8054.0
1269.257	-4660.9	-389.4	-96244.9	-205884.0	-1474000.0	7712.0
1269.258	-4131.0	-332.8	-87260.8	-172521.0	-1455000.0	6676.0
1269.401	761.4	-2676.7	-216900.0	-405158.0	-464609.0	13093.0
1269.402	206.3	-2749.1	-229200.0	-473209.0	-636371.0	16063.0
1269.403	683.7	-1498.8	-298700.0	636409.0	-767689.0	11474.0
1269.404	120.7	-1606.8	-310700.0	556418.0	-937809.9	14361.0
1269.405	-2503.6	1816.6	28618.9	-266941.0	309936.0	-9713.0
1269.406	-3077.0	1535.5	16428.9	-429357.0	138172.0	-6966.0
1269.407	-2648.8	3461.4	-16646.9	925921.0	91032.0	-11371.0
1269.408	-3217.3	3250.3	-28026.1	792057.0	-78408.0	-8525.0
1269.409	756.1	-3080.3	-214100.0	-707651.0	-460639.0	13051.0
1269.410	203.6	-3155.9	-226400.0	-773322.0	-630090.0	16038.0
1269.411	684.1	-1129.0	-299700.0	919097.0	-766494.0	11512.0
1269.412	116.9	-1232.1	-311800.0	840823.1	-936322.0	14345.0
1269.413	-2509.0	1430.1	28596.2	-538475.0	307551.0	-9792.0
1269.414	-3081.6	1108.6	15865.0	-718620.0	134947.0	-7062.0
1269.415	-2654.6	3791.3	-14048.4	1170000.0	98922.0	-11402.0
1269.416	-3223.6	3589.6	-25718.9	1041000.0	-71837.0	-8546.0
1269.417	809.7	-2503.8	-179900.0	-293750.0	-564978.0	12991.0
1269.418	249.5	-2555.1	-192400.0	-355291.0	-740581.0	15936.0
1269.419	735.2	-1383.6	-260900.0	704323.0	-867438.9	11405.0

1269.420	164.9	-1491.8	-272500.0	622271.0	-1039000.0	14243.0
1269.421	-2575.0	1678.0	9252.9	-351461.0	482812.0	-9414.0
1269.422	-3143.6	1343.8	-2840.7	-537486.0	313602.0	-6670.0
1269.423	-2725.4	3330.8	-39217.8	839283.0	252903.0	-11101.0
1269.424	-3288.0	3108.3	-49147.6	698595.0	90007.0	-8243.0
1269.425	800.3	-2913.5	-176800.0	-606526.0	-567146.0	12906.0
1269.426	237.9	-2990.6	-189200.0	-677483.0	-741475.0	15813.0
1269.427	732.3	-1010.2	-262900.0	988042.0	-867818.0	11396.0
1269.428	162.8	-1114.0	-274600.0	908237.0	-1040000.0	14245.0
1269.429	-2586.6	1265.7	8865.0	-636622.0	478646.0	-9543.0
1269.430	-3152.5	954.8	-4762.2	-809302.0	305493.0	-6793.0
1269.431	-2721.9	3672.9	-38394.7	1093000.0	257322.0	-11042.0
1269.432	-3286.3	3464.5	-48185.3	957982.0	94273.0	-8190.0
1269.433	-255.7	-2467.0	24448.4	-1602000.0	340483.0	7693.0
1269.434	-812.2	-2577.0	9398.1	-1679000.0	161802.0	10590.0
1269.435	-630.6	1213.3	-201900.0	1599000.0	-566666.0	1678.0
1269.436	-1199.0	1085.3	-213100.0	1504000.0	-735318.0	4545.0
1269.437	-1249.4	-1974.7	65707.7	-1835000.0	502937.0	0.8
1269.438	-1817.5	-2120.2	51768.6	-1927000.0	325368.0	2813.0
1269.439	-1636.4	3277.6	-100500.0	1983000.0	-265563.0	-4864.0
1269.440	-2203.6	3041.5	-111700.0	1828000.0	-433175.0	-2004.0
1269.441	-253.6	-2428.0	29132.4	-1573000.0	283917.0	7562.0
1269.442	-812.0	-2534.6	12893.6	-1646000.0	100964.0	10447.0
1269.443	-615.7	1248.7	-191900.0	1621000.0	-601211.0	1658.0
1269.444	-1186.6	1120.2	-202900.0	1525000.0	-770807.0	4514.0
1269.445	-1259.8	-2004.5	60226.4	-1858000.0	559319.0	109.0
1269.446	-1823.9	-2166.3	46400.2	-1958000.0	383454.0	2935.0
1269.447	-1659.8	3237.0	-106200.0	1955000.0	-213373.0	-4807.0
1269.448	-2222.3	3002.8	-117400.0	1802000.0	-379991.0	-1916.0
1269.449	-282.4	-3870.0	44416.8	-2595000.0	389958.0	7390.0
1269.450	-834.5	-3991.7	29516.7	-2674000.0	214106.0	10305.0
1269.451	-674.4	2371.0	-205000.0	2485000.0	-565171.0	1443.0
1269.452	-1249.0	2241.1	-215700.0	2387000.0	-734413.0	4267.0
1269.453	-1246.2	-3287.4	53590.4	-2766000.0	458716.0	-249.0
1269.454	-1805.7	-3444.9	38336.7	-2863000.0	279088.0	2603.0
1269.455	-1667.9	4541.2	-85107.4	2917000.0	-209307.0	-4879.0
1269.456	-2252.1	4299.6	-93555.2	2754000.0	-372321.0	-2130.0
1269.457	-273.5	-3833.6	50557.9	-2572000.0	340515.0	7293.0
1269.458	-827.3	-3952.7	35178.6	-2649000.0	162493.0	10201.0
1269.459	-657.5	2405.5	-194600.0	2505000.0	-597294.0	1439.0
1269.460	-1234.7	2276.1	-205600.0	2409000.0	-769097.0	4254.0
1269.461	-1264.8	-3322.6	47946.6	-2790000.0	512977.0	-194.0
1269.462	-1820.5	-3483.5	33760.2	-2890000.0	337361.0	2675.0
1269.463	-1682.7	4478.6	-91104.9	2875000.0	-158804.0	-4799.0
1269.464	-2262.7	4235.5	-99311.8	2710000.0	-320076.0	-2029.0
1269.529	252.6	-1078.4	-31603.0	-385287.0	244351.0	2128.0
1269.530	-1583.4	-1270.6	-76630.1	-575043.0	-335052.0	12122.0
1269.531	164.4	56.6	-110200.0	613221.0	-53968.0	426.0
1269.532	-1723.8	-306.3	-148600.0	348703.0	-620093.0	10014.0
1269.533	-700.2	207.6	27059.7	-336708.0	441413.0	-4703.0
1269.534	-2621.5	-741.0	-12283.2	-872125.0	-126294.0	4394.0
1269.535	-843.2	1835.4	-20530.6	863484.9	214864.0	-6406.0
1269.536	-2726.0	1063.3	-60332.2	369643.0	-349267.0	3144.0
1269.537	246.5	-1472.0	-25657.0	-676118.0	258485.0	2095.0
1269.538	-1585.1	-1675.8	-70086.0	-869372.0	-317680.0	12104.0
1269.539	156.9	419.9	-111300.0	891988.0	-52523.0	382.0
1269.540	-1738.9	53.6	-148300.0	617595.0	-618010.0	9935.0
1269.541	-704.4	-181.4	25815.3	-609559.0	434720.0	-4785.0
1269.542	-2600.1	-1140.7	-18946.2	-1147000.0	-145912.0	4404.0
1269.543	-846.7	2180.9	-18458.9	1120000.0	221592.0	-6406.0
1269.544	-2754.8	1437.9	-54091.1	638272.0	-333219.0	3008.0
1269.545	262.9	-1023.4	-21837.4	-356177.0	206698.0	2067.0

1269.546	-1590.4	-1235.9	-68785.1	-554546.0	-384035.0	11916.0
1269.547	182.9	94.0	-99902.4	636584.0	-86016.0	428.0
1269.548	-1717.5	-276.9	-137000.0	364433.0	-652614.0	9940.0
1269.549	-717.2	154.8	19354.3	-364579.0	489271.0	-4602.0
1269.550	-2624.7	-766.4	-20478.5	-887388.0	-77168.0	4539.0
1269.551	-866.6	1806.3	-29710.6	846184.0	255657.0	-6298.0
1269.552	-2742.2	1024.7	-64868.9	340271.0	-291611.0	3239.0
1269.553	256.4	-1420.9	-16854.6	-647254.0	216778.0	2018.0
1269.554	-1589.9	-1642.9	-63322.3	-847784.0	-369677.0	11917.0
1269.555	175.2	454.1	-101000.0	912542.0	-84315.0	382.0
1269.556	-1730.5	92.7	-138100.0	639263.0	-653390.0	9868.0
1269.557	-732.2	-222.4	20007.9	-635318.0	486464.0	-4747.0
1269.558	-2612.6	-1167.7	-25938.8	-1165000.0	-94871.0	4516.0
1269.559	-866.6	2148.8	-27307.3	1100000.0	264242.0	-6282.0
1269.560	-2757.8	1400.3	-61526.8	613643.0	-282259.0	3189.0
1270.1	1673.4	-316.2	-24931.1	79934.0	-906332.0	3006.0
1270.2	1147.2	-226.3	-17567.3	58317.0	-889916.0	1926.0
1270.3	1572.4	-325.3	-24548.5	86538.0	-1503000.0	2582.0
1270.4	1046.1	-235.4	-17161.0	65058.0	-1486000.0	1502.0
1270.5	2338.9	-437.6	-35651.0	106103.0	-1100000.0	1671.0
1270.6	1807.2	-347.7	-28291.3	84490.0	-1084000.0	655.0
1270.7	5360.1	-949.8	-80246.4	217635.0	-1260000.0	26096.0
1270.8	4832.6	-861.1	-72722.1	197224.0	-1243000.0	25029.0
1270.9	4457.6	-793.5	-66640.4	183380.0	-1173000.0	20307.0
1270.10	3924.4	-703.7	-59184.4	162286.0	-1157000.0	19330.0
1270.11	4354.4	-802.5	-66185.8	190159.0	-1769000.0	19893.0
1270.12	3825.6	-713.4	-58668.9	169583.0	-1752000.0	18837.0
1270.13	5116.2	-914.3	-77508.5	208930.0	-1369000.0	19109.0
1270.14	4587.3	-825.4	-69957.6	188516.0	-1352000.0	18046.0
1270.15	2030.7	-375.9	-30598.0	91262.0	-942020.0	5266.0
1270.16	1317.7	-256.6	-19305.7	68559.0	-871363.9	740.0
1270.17	1503.9	-285.8	-23238.7	69524.0	-925296.0	4188.0
1270.18	791.0	-166.7	-11933.9	46923.0	-854780.9	-338.0
1270.19	2274.1	-415.7	-34293.9	99058.0	-963867.0	6688.0
1270.20	1080.4	-217.0	-15553.1	60987.0	-847978.0	-770.0
1270.21	1745.4	-325.6	-26922.3	77377.0	-947350.0	5632.0
1270.22	553.3	-127.0	-8165.6	39400.0	-831370.0	-1846.0
1270.23	1931.1	-384.7	-30119.9	98014.0	-1537000.0	4796.0
1270.24	1217.5	-265.5	-18949.8	74965.0	-1468000.0	312.0
1270.25	1401.3	-295.0	-22769.1	76533.0	-1521000.0	3771.0
1270.26	689.9	-175.9	-11522.7	53692.0	-1451000.0	-761.0
1270.27	2698.1	-497.1	-41319.5	117317.0	-1135000.0	3899.0
1270.28	1977.4	-378.1	-30024.3	94763.0	-1066000.0	-530.0
1270.29	2164.9	-406.3	-34105.0	94684.0	-1120000.0	2916.0
1270.30	1449.6	-288.2	-22606.2	73317.0	-1049000.0	-1603.0
1270.31	5718.2	-1009.1	-85959.0	228587.0	-1296000.0	28346.0
1270.32	5005.9	-890.3	-74628.8	206233.0	-1226000.0	23827.0
1270.33	5189.9	-920.4	-78390.9	208365.0	-1278000.0	27281.0
1270.34	4477.7	-801.6	-67093.2	185860.0	-1209000.0	22763.0
1270.35	5051.5	-892.2	-76126.5	201688.0	-1230000.0	24070.0
1270.36	3858.7	-694.6	-57120.9	165115.0	-1114000.0	16593.0
1270.37	4522.7	-803.3	-68587.3	181245.0	-1213000.0	23012.0
1270.38	3326.8	-604.7	-49686.0	143862.0	-1098000.0	15590.0
1270.39	4812.5	-852.9	-72281.0	194639.0	-1207000.0	22572.0
1270.40	4097.9	-734.1	-60939.0	172372.0	-1138000.0	18089.0
1270.41	4283.8	-763.7	-64783.9	173908.0	-1190000.0	21515.0
1270.42	3565.6	-644.2	-53490.2	151196.0	-1121000.0	17091.0
1270.43	4713.0	-861.6	-71929.4	200907.0	-1804000.0	22136.0
1270.44	3995.9	-743.4	-60442.1	179423.0	-1733000.0	17649.0
1270.45	4184.2	-772.7	-64385.7	180516.0	-1787000.0	21080.0
1270.46	3467.1	-654.2	-52946.5	158702.0	-1716000.0	16593.0
1270.47	5474.6	-973.7	-83216.0	219946.0	-1405000.0	21359.0

1270.48	4757.7	-855.0	-71798.3	197913.0	-1334000.0	16861.0
1270.49	4945.9	-884.8	-75667.7	199536.0	-1388000.0	20294.0
1270.50	4228.8	-766.2	-64234.1	177604.0	-1316000.0	15797.0
1270.51	1889.0	-196.5	-18622.9	25924.0	-936784.9	1478.0
1270.52	1348.1	-80.3	-11637.6	-10468.0	-918411.1	497.0
1270.53	2004.7	-49.8	-15808.1	-49329.0	-955538.0	656.0
1270.54	1467.2	71.3	-9277.5	-89863.0	-938180.9	-344.0
1270.55	1787.0	-211.3	-17772.7	37222.0	-1532000.0	1059.0
1270.56	1246.1	-96.1	-10796.2	1348.0	-1513000.0	77.0
1270.57	2560.0	-356.6	-28413.1	75315.0	-1131000.0	134.0
1270.58	2019.3	-239.2	-21555.7	37856.0	-1112000.0	-858.0
1270.59	5571.7	-983.5	-71429.1	250233.0	-1283000.0	24650.0
1270.60	5041.7	-886.2	-63860.7	225681.0	-1265000.0	23588.0
1270.61	4663.1	-816.1	-57815.7	210631.0	-1196000.0	18937.0
1270.62	4136.1	-716.0	-50310.7	184565.0	-1179000.0	17852.0
1270.63	4834.9	-657.9	-54494.6	131414.0	-1228000.0	17733.0
1270.64	4298.6	-546.0	-47554.7	97157.0	-1211000.0	16716.0
1270.65	4565.4	-833.4	-57028.6	222952.0	-1792000.0	18482.0
1270.66	4034.4	-733.3	-49536.6	196858.0	-1774000.0	17428.0
1270.67	5332.7	-949.0	-68473.0	242879.0	-1392000.0	17596.0
1270.68	4800.4	-852.7	-60904.9	218788.0	-1374000.0	16541.0
1270.69	1486.6	-300.9	-47082.0	12536.0	-927098.1	6929.0
1270.70	958.3	-226.4	-40983.6	-4770.0	-913551.0	5831.0
1270.71	1360.7	-327.5	-65160.0	-22954.0	-949333.0	9478.0
1270.72	834.2	-253.8	-58812.5	-38214.0	-934872.0	8363.0
1270.73	1384.8	-307.7	-46374.5	18705.0	-1523000.0	6508.0
1270.74	856.4	-231.7	-40278.3	772.0	-1509000.0	5410.0
1270.75	2146.2	-399.5	-55933.9	32312.0	-1116000.0	5698.0
1270.76	1619.8	-328.8	-49861.9	16903.0	-1103000.0	4586.0
1270.77	5152.0	-841.3	-96197.6	120590.0	-1264000.0	30342.0
1270.78	4628.3	-757.9	-89614.8	99749.0	-1251000.0	29235.0
1270.79	4248.4	-696.7	-83635.2	88760.0	-1180000.0	24571.0
1270.80	3720.6	-615.9	-76875.5	70017.0	-1165000.0	23483.0
1270.81	4122.1	-722.0	-100100.0	58496.0	-1197000.0	27146.0
1270.82	3598.1	-653.6	-93913.1	44530.0	-1184000.0	26020.0
1270.83	4145.2	-702.5	-83125.9	93858.0	-1776000.0	24156.0
1270.84	3619.0	-621.8	-76455.2	74783.0	-1761000.0	23061.0
1270.85	4907.2	-809.9	-93241.8	114462.0	-1370000.0	23309.0
1270.86	4381.2	-727.2	-86538.3	94357.0	-1356000.0	22217.0
1270.87	3534.1	-644.8	-45187.8	180213.0	-909658.0	9420.0
1270.88	3002.7	-555.5	-37721.0	159451.0	-891826.9	8361.0
1270.89	4138.5	-751.2	-51949.8	212266.0	-910397.0	11540.0
1270.90	3607.0	-662.1	-44482.7	191583.0	-892480.0	10483.0
1270.91	3430.1	-657.2	-44368.5	189879.0	-1504000.0	9008.0
1270.92	2901.0	-568.6	-36892.7	169539.0	-1487000.0	7937.0
1270.93	4199.7	-769.3	-55478.4	209449.0	-1103000.0	8108.0
1270.94	3659.8	-681.3	-48060.6	189152.0	-1089000.0	7191.0
1270.95	3891.7	-704.8	-50649.2	192453.0	-944315.1	11678.0
1270.96	3172.2	-584.5	-39633.8	168168.0	-873576.9	7190.0
1270.97	3362.9	-615.6	-43258.4	171514.0	-927520.0	10607.0
1270.98	2640.9	-495.3	-32163.2	147436.0	-855757.0	6130.0
1270.99	4131.4	-745.4	-54300.0	200930.0	-967861.1	13187.0
1270.100	2932.1	-544.2	-35973.5	159892.0	-849880.9	5693.0
1270.101	3600.4	-656.3	-46849.2	180150.0	-950271.0	12126.0
1270.102	2402.1	-455.1	-28518.1	139157.0	-832462.0	4622.0
1270.103	4495.6	-812.0	-57372.4	225000.0	-944836.1	13812.0
1270.104	3776.3	-690.9	-46381.2	200263.0	-874146.0	9313.0
1270.105	3964.5	-722.7	-49932.8	204122.0	-927176.9	12751.0
1270.106	3245.0	-601.9	-38921.6	179547.0	-856338.0	8253.0
1270.107	3791.3	-717.4	-49849.4	202158.0	-1539000.0	11232.0
1270.108	3062.6	-597.9	-38844.5	178225.0	-1471000.0	6876.0
1270.109	3258.9	-628.5	-42372.4	181689.0	-1521000.0	10194.0

1270.110	2534.0	-508.8	-31353.0	157682.0	-1452000.0	5783.0
1270.111	4546.5	-829.6	-61181.4	221055.0	-1143000.0	10547.0
1270.112	3839.6	-709.2	-49960.4	197351.0	-1068000.0	5863.0
1270.113	4027.2	-740.4	-53583.8	200790.0	-1121000.0	9323.0
1270.114	3300.6	-621.3	-42509.8	177216.0	-1053000.0	4932.0
1270.115	3751.5	-616.4	-35720.7	184815.0	-929947.0	7849.0
1270.116	3215.2	-502.9	-28840.7	149440.0	-912904.0	6840.0
1270.117	3878.8	-486.2	-32915.4	118345.0	-951217.0	6942.0
1270.118	3329.5	-363.3	-25837.1	79011.0	-929997.0	6006.0
1270.119	4363.2	-747.2	-41423.3	232115.0	-928695.0	9929.0
1270.120	3829.1	-639.0	-34489.5	200702.0	-912086.1	8904.0
1270.121	3649.8	-631.3	-35007.1	195620.0	-1525000.0	7425.0
1270.122	3112.0	-518.7	-28072.8	161078.0	-1508000.0	6424.0
1270.123	4421.9	-786.0	-45517.7	238432.0	-1123000.0	6504.0
1270.124	3884.0	-662.3	-38655.1	198368.0	-1106000.0	5500.0
1270.125	3310.5	-571.7	-66664.3	84291.0	-926293.0	13551.0
1270.126	2787.7	-514.1	-60752.5	74342.0	-913688.9	12401.0
1270.127	3196.5	-625.3	-84928.3	61590.0	-951763.0	16021.0
1270.128	2667.4	-552.8	-78695.2	45923.0	-937318.0	14923.0
1270.129	3910.7	-665.5	-73270.5	108248.0	-926951.0	15690.0
1270.130	3384.3	-593.3	-66885.5	94530.0	-912822.0	14579.0
1270.131	3209.4	-578.8	-66106.6	88737.0	-1522000.0	13120.0
1270.132	2687.7	-520.9	-59999.2	80923.0	-1510000.0	11969.0
1270.133	3974.1	-673.4	-76091.6	102482.0	-1118000.0	12283.0
1270.134	3447.6	-599.5	-69672.3	86553.0	-1104000.0	11180.0
1270.135	2126.5	-382.2	-39054.5	66047.0	-1051000.0	9250.0
1270.136	1601.0	-292.4	-31741.2	44226.0	-1035000.0	8148.0
1270.137	2275.5	-404.1	-43705.9	61474.0	-1098000.0	11280.0
1270.138	1749.6	-314.2	-36417.2	39514.0	-1082000.0	10196.0
1270.139	2025.8	-390.3	-38813.3	71558.0	-1648000.0	8816.0
1270.140	1499.2	-300.5	-31462.3	49925.0	-1632000.0	7735.0
1270.141	2788.9	-503.0	-49950.5	91291.0	-1246000.0	7965.0
1270.142	2263.1	-412.7	-42675.7	69099.0	-1230000.0	6879.0
1270.143	2483.8	-441.7	-44699.2	77360.0	-1086000.0	11511.0
1270.144	1771.2	-323.2	-33430.1	54825.0	-1016000.0	6961.0
1270.145	1956.5	-351.5	-37378.8	55382.0	-1070000.0	10432.0
1270.146	1243.8	-233.0	-26096.3	32897.0	-999100.0	5882.0
1270.147	2721.9	-481.3	-48469.9	84853.0	-1110000.0	13019.0
1270.148	1534.0	-283.4	-29723.0	47023.0	-992641.0	5448.0
1270.149	2194.6	-391.0	-41165.4	62771.0	-1093000.0	11940.0
1270.150	1006.2	-193.2	-22383.9	25106.0	-975984.9	4375.0
1270.151	2632.8	-463.5	-49370.0	72651.0	-1133000.0	13540.0
1270.152	1920.1	-345.0	-38093.1	50187.0	-1063000.0	9000.0
1270.153	2105.5	-373.1	-42080.1	50509.0	-1117000.0	12463.0
1270.154	1392.9	-254.8	-30755.9	28270.0	-1047000.0	7916.0
1270.155	2381.5	-449.5	-44421.4	82871.0	-1683000.0	11083.0
1270.156	1670.2	-331.1	-33183.9	60256.0	-1613000.0	6526.0
1270.157	1855.7	-360.0	-37073.6	61353.0	-1667000.0	9998.0
1270.158	1142.4	-240.9	-25827.6	38469.0	-1596000.0	5455.0
1270.159	3146.2	-562.3	-55626.8	102438.0	-1282000.0	10226.0
1270.160	2433.2	-443.9	-44296.9	80211.0	-1212000.0	5697.0
1270.161	2618.8	-471.9	-48336.9	80247.0	-1265000.0	9148.0
1270.162	1905.6	-353.3	-36993.7	57976.0	-1195000.0	4620.0
1270.163	2331.3	-275.4	-32802.6	17061.0	-1083000.0	7747.0
1270.164	1798.9	-157.2	-25830.6	-20237.0	-1066000.0	6710.0
1270.165	2463.9	-116.6	-30172.9	-64563.0	-1107000.0	6815.0
1270.166	1932.1	-4.0	-23430.2	-100273.0	-1092000.0	5780.0
1270.167	2479.4	-288.6	-37516.1	5965.0	-1132000.0	9778.0
1270.168	1946.7	-176.9	-30526.8	-26849.0	-1115000.0	8741.0
1270.169	2229.4	-286.8	-32230.5	25494.0	-1678000.0	7315.0
1270.170	1696.8	-169.5	-25242.8	-11312.0	-1662000.0	6290.0
1270.171	3001.2	-468.7	-42546.6	83222.0	-1275000.0	6390.0

1270.172	2467.7	-316.0	-36066.8	26615.0	-1261000.0	5378.0
1270.173	1940.2	-327.1	-55982.9	-4865.0	-1056000.0	13257.0
1270.174	1414.5	-259.7	-49956.9	-18967.0	-1043000.0	12140.0
1270.175	1819.7	-358.7	-74319.2	-38271.0	-1081000.0	15780.0
1270.176	1291.3	-283.0	-68203.5	-56057.0	-1067000.0	14683.0
1270.177	2090.9	-338.3	-59099.5	-9779.0	-1099000.0	15303.0
1270.178	1563.7	-269.5	-52855.8	-23961.0	-1085000.0	14201.0
1270.179	1839.8	-333.3	-55316.7	919.0	-1652000.0	12831.0
1270.180	1312.2	-264.9	-49232.4	-13323.0	-1638000.0	11726.0
1270.181	2599.6	-427.5	-65368.3	13167.0	-1246000.0	12009.0
1270.182	2075.5	-353.6	-58893.5	-1525.0	-1233000.0	10900.0
1270.183	2127.5	-156.2	-48666.0	-94797.0	-1247000.0	2913.0
1270.184	1599.6	-56.1	-41356.7	-122012.0	-1231000.0	1837.0
1270.185	2026.0	-166.6	-48210.9	-87267.0	-1843000.0	2487.0
1270.186	1497.2	-66.7	-40903.7	-114424.0	-1827000.0	1418.0
1270.187	2426.7	-23.9	-64919.3	-226272.0	-1475000.0	2867.0
1270.188	1894.9	80.0	-57991.9	-256631.0	-1459000.0	1821.0
1270.189	2789.7	-285.1	-59512.9	-65113.0	-1442000.0	1636.0
1270.190	2260.9	-189.9	-52136.4	-89492.0	-1425000.0	566.0
1270.191	5802.3	-797.6	-104200.0	46080.0	-1605000.0	26163.0
1270.192	5280.7	-709.3	-96992.0	24926.0	-1588000.0	25094.0
1270.193	4894.9	-640.8	-90543.9	12006.0	-1517000.0	20428.0
1270.194	4372.5	-552.2	-83252.6	-9136.0	-1499000.0	19356.0
1270.195	4795.9	-650.4	-89907.2	19900.0	-2111000.0	19982.0
1270.196	4269.8	-562.1	-82667.0	-1373.0	-2095000.0	18939.0
1270.197	5198.8	-538.9	-106500.0	-102265.0	-1742000.0	20383.0
1270.198	4669.5	-443.9	-99155.4	-126838.0	-1725000.0	19314.0
1270.199	5557.8	-762.5	-101300.0	38401.0	-1711000.0	19139.0
1270.200	5031.2	-674.5	-94115.3	16923.0	-1696000.0	18111.0
1270.201	3974.6	-488.6	-68418.8	9069.0	-1244000.0	9366.0
1270.202	3439.5	-398.6	-60997.6	-12185.0	-1228000.0	8407.0
1270.203	4584.7	-596.1	-74888.5	42583.0	-1245000.0	11470.0
1270.204	4048.9	-507.3	-67057.3	23294.0	-1225000.0	10436.0
1270.205	3871.7	-498.8	-67813.4	17042.0	-1839000.0	8961.0
1270.206	3337.0	-409.8	-60280.0	-3302.0	-1823000.0	7988.0
1270.207	4268.8	-381.7	-84511.4	-108304.0	-1473000.0	9415.0
1270.208	3739.3	-285.4	-77128.5	-133179.0	-1456000.0	8345.0
1270.209	4641.3	-610.3	-79256.4	35016.0	-1440000.0	8060.0
1270.210	4103.8	-520.8	-71774.1	14249.0	-1425000.0	7122.0
1270.211	2578.4	-218.5	-63198.9	-112307.0	-1393000.0	9117.0
1270.212	2049.4	-119.3	-55996.2	-139470.0	-1377000.0	8057.0
1270.213	2725.9	-240.0	-67804.9	-116922.0	-1440000.0	11157.0
1270.214	2198.7	-141.7	-60610.6	-143584.0	-1424000.0	10089.0
1270.215	2475.9	-228.4	-62788.8	-105219.0	-1989000.0	8698.0
1270.216	1946.9	-129.7	-55564.9	-131989.0	-1973000.0	7637.0
1270.217	2873.6	-86.3	-79455.5	-243926.0	-1621000.0	9093.0
1270.218	2353.7	14.0	-72322.6	-271765.0	-1608000.0	7985.0
1270.219	3240.9	-346.7	-74041.1	-82901.0	-1588000.0	7828.0
1270.220	2712.1	-251.6	-66729.3	-107536.0	-1572000.0	6763.0
1270.221	1226.6	-362.1	-13973.7	143212.0	-605507.0	2977.0
1270.222	697.1	-271.8	-6829.2	120497.0	-590050.0	1931.0
1270.223	1123.4	-370.8	-13730.7	149141.0	-1203000.0	2582.0
1270.224	597.0	-280.2	-6649.1	126002.0	-1187000.0	1501.0
1270.225	925.7	-390.9	-7156.0	182313.0	-406357.0	2982.0
1270.226	396.4	-299.5	-101.9	158515.0	-391417.0	1937.0
1270.227	1891.3	-483.6	-24510.6	170196.0	-799480.0	1656.0
1270.228	1362.3	-393.4	-17339.8	147613.0	-783334.0	597.0
1270.229	4908.4	-995.7	-68569.0	283859.0	-957372.0	26133.0
1270.230	4383.2	-906.3	-61181.1	262631.0	-941287.0	25041.0
1270.231	4001.5	-839.0	-54954.7	249536.0	-870279.0	20410.0
1270.232	3474.7	-748.8	-47689.6	227468.0	-854716.0	19345.0
1270.233	3898.5	-846.8	-54659.3	255231.0	-1467000.0	19996.0

1270.234	3370.5	-757.9	-47148.3	234682.0	-1450000.0	18928.0
1270.235	3701.4	-868.4	-47576.0	291512.0	-669661.0	20420.0
1270.236	3174.2	-778.2	-40414.9	268939.0	-654101.0	19349.0
1270.237	4666.6	-960.7	-65840.2	275363.0	-1067000.0	19122.0
1270.238	4138.0	-870.9	-58402.0	254126.0	-1050000.0	18057.0
1270.239	3085.0	-692.0	-34730.9	241786.0	-610471.0	9415.0
1270.240	2553.5	-603.4	-27169.6	221597.0	-592325.0	8358.0
1270.241	3689.8	-799.9	-41351.8	275121.0	-610889.0	11534.0
1270.242	3158.1	-711.2	-33795.5	254991.0	-592707.0	10476.0
1270.243	2983.2	-703.4	-34110.8	250476.0	-1206000.0	8993.0
1270.244	2452.1	-616.3	-26372.1	231586.0	-1187000.0	7932.0
1270.245	2783.7	-720.0	-27984.2	280053.0	-411698.0	9433.0
1270.246	2252.7	-632.8	-20259.3	261074.0	-392975.0	8370.0
1270.247	3749.4	-815.5	-45178.7	270255.0	-805067.0	8123.0
1270.248	3220.3	-727.6	-37600.2	250341.0	-787362.0	7053.0
1270.249	1676.5	-426.6	-27698.1	130295.0	-748974.0	9277.0
1270.250	1149.7	-336.5	-20360.6	108294.0	-732052.0	8176.0
1270.251	1825.8	-448.4	-32371.8	125520.0	-796214.0	11296.0
1270.252	1298.1	-357.8	-25071.2	103202.0	-779610.0	10220.0
1270.253	1574.6	-435.4	-27307.2	136689.0	-1345000.0	8839.0
1270.254	1049.0	-345.1	-20077.9	114291.0	-1330000.0	7754.0
1270.255	1375.9	-455.0	-20231.8	171980.0	-547716.0	9292.0
1270.256	852.4	-364.3	-12888.0	149657.0	-530102.0	8131.0
1270.257	2339.1	-548.7	-38420.9	156841.0	-943804.0	7982.0
1270.258	1813.1	-458.4	-31135.3	134651.0	-927900.0	6898.0
1270.401	2066.6	2696.8	-40347.8	-1619000.0	-155160.0	-6933.0
1270.402	2594.6	2456.2	-45532.4	-1457000.0	38074.0	-4275.0
1270.403	1746.8	-850.5	97359.5	1095000.0	312179.0	-8086.0
1270.404	2281.0	-1146.1	92630.6	1291000.0	506612.0	-5487.0
1270.405	109.3	1753.9	-303100.0	-2293000.0	-938963.9	10331.0
1270.406	621.5	1618.6	-308200.0	-2190000.0	-742971.0	13137.0
1270.407	-165.2	-1006.7	-146100.0	66261.0	-435692.0	9397.0
1270.408	344.3	-1147.8	-151200.0	175285.0	-237784.0	12224.0
1270.409	2088.7	2453.9	-43659.1	-1456000.0	-163413.0	-8130.0
1270.410	2612.8	2211.1	-48977.4	-1291000.0	31105.0	-5452.0
1270.411	1732.3	-628.4	101700.0	945347.0	324788.0	-6946.0
1270.412	2267.5	-918.0	96938.9	1137000.0	518420.0	-4342.0
1270.413	134.0	1401.3	-302800.0	-2050000.0	-934883.0	9067.0
1270.414	644.7	1277.2	-308000.0	-1955000.0	-738791.0	11883.0
1270.415	-183.1	-684.5	-145700.0	-157938.0	-441205.0	10588.0
1270.416	327.4	-830.4	-150800.0	-45794.0	-243722.0	13400.0
1270.417	1928.8	2441.9	-20994.6	-1350000.0	8257.0	-6338.0
1270.418	2462.3	2227.6	-27201.3	-1207000.0	196274.0	-3712.0
1270.419	1610.7	-1097.1	121600.0	1374000.0	491383.0	-7462.0
1270.420	2150.6	-1370.4	116000.0	1554000.0	680630.0	-4882.0
1270.421	228.0	1937.6	-319000.0	-2504000.0	-1099000.0	9744.0
1270.422	735.7	1815.5	-324200.0	-2410000.0	-901388.0	12584.0
1270.423	-35.7	-858.2	-160900.0	-128071.0	-589664.0	8716.0
1270.424	468.1	-985.8	-165600.0	-25466.0	-388892.0	11607.0
1270.425	1961.8	2192.1	-23246.3	-1181000.0	223.0	-7616.0
1270.426	2495.7	1965.0	-29578.0	-1029000.0	187682.0	-4995.0
1270.427	1596.1	-867.6	127200.0	1224000.0	507570.0	-6313.0
1270.428	2136.0	-1140.7	121500.0	1404000.0	696663.0	-3739.0
1270.429	258.1	1606.0	-319400.0	-2276000.0	-1098000.0	8462.0
1270.430	765.4	1484.2	-324500.0	-2183000.0	-899724.0	11310.0
1270.431	-60.6	-548.5	-160000.0	-343426.0	-591193.0	9940.0
1270.432	444.9	-685.2	-165000.0	-236205.0	-391723.0	12808.0
1270.433	1721.9	6145.1	-244000.0	-4683000.0	-820825.0	1037.0
1270.434	2244.5	5902.8	-252500.0	-4528000.0	-635258.0	3730.0
1270.435	790.0	-5352.4	229000.0	4210000.0	763274.0	-3408.0
1270.436	1318.7	-5537.3	221000.0	4333000.0	947348.1	-750.0
1270.437	1150.8	4801.4	-326500.0	-4301000.0	-1081000.0	5547.0

1270.438	1670.9	4637.5	-330600.0	-4174000.0	-882157.0	8321.0
1270.439	179.9	-4542.2	151100.0	3450000.0	496969.0	2347.0
1270.440	694.6	-4733.4	145600.0	3581000.0	694518.0	5086.0
1270.441	1696.2	6056.2	-236800.0	-4593000.0	-772920.0	1093.0
1270.442	2221.7	5799.9	-243600.0	-4424000.0	-582611.0	3756.0
1270.443	752.0	-5425.7	237500.0	4297000.0	820866.0	-3235.0
1270.444	1284.0	-5605.9	228700.0	4416000.0	1001000.0	-592.0
1270.445	1178.6	4866.1	-331500.0	-4371000.0	-1126000.0	5483.0
1270.446	1695.0	4712.9	-335800.0	-4251000.0	-926411.1	8287.0
1270.447	218.4	-4476.8	145100.0	3375000.0	445983.0	2181.0
1270.448	729.1	-4668.4	139700.0	3506000.0	645573.0	4950.0
1270.449	1797.4	5279.2	-260000.0	-4111000.0	-860349.0	-2972.0
1270.450	2314.6	5030.9	-268400.0	-3952000.0	-673278.0	-231.0
1270.451	726.2	-4339.2	243500.0	3563000.0	783306.0	511.0
1270.452	1260.4	-4522.8	235100.0	3685000.0	963442.0	3112.0
1270.453	1232.5	3828.6	-332000.0	-3645000.0	-1084000.0	1451.0
1270.454	1744.8	3682.7	-336000.0	-3529000.0	-883716.0	4281.0
1270.455	120.4	-3438.1	151800.0	2703000.0	482363.0	6376.0
1270.456	649.2	-3627.9	145700.0	2832000.0	673130.0	9014.0
1270.457	1764.2	5210.0	-254800.0	-4038000.0	-816235.0	-2845.0
1270.458	2283.4	4954.5	-262200.0	-3872000.0	-626889.0	-121.0
1270.459	688.6	-4406.9	251300.0	3646000.0	842921.0	714.0
1270.460	1225.4	-4587.5	242600.0	3765000.0	1021000.0	3298.0
1270.461	1266.3	3921.5	-337500.0	-3733000.0	-1134000.0	1351.0
1270.462	1776.5	3768.5	-342300.0	-3616000.0	-934248.1	4201.0
1270.463	151.4	-3371.1	145600.0	2625000.0	431203.0	6238.0
1270.464	676.6	-3561.9	139600.0	2755000.0	623875.0	8898.0
1270.529	789.4	2249.0	-65113.9	-1645000.0	-487134.0	-3699.0
1270.530	2523.7	1502.2	-88458.0	-1152000.0	148131.0	5323.0
1270.531	488.4	-1272.2	77964.9	1072000.0	-4894.0	-4909.0
1270.532	2270.1	-2295.4	57340.9	1722000.0	631519.0	3714.0
1270.533	199.0	1636.6	-146600.0	-1668000.0	-729039.0	1307.0
1270.534	1927.5	1176.5	-163100.0	-1315000.0	-79532.0	10551.0
1270.535	-82.5	-999.5	7768.9	619835.0	-236929.0	523.0
1270.536	1623.8	-1570.8	-13167.0	1011000.0	418197.0	9763.0
1270.537	811.9	2000.0	-69635.4	-1480000.0	-498185.0	-4905.0
1270.538	2540.8	1257.5	-94042.5	-992134.0	135519.0	4155.0
1270.539	473.3	-1065.4	83636.6	934351.0	8413.0	-3791.0
1270.540	2261.0	-1993.1	60634.8	1525000.0	634721.0	4775.0
1270.541	224.3	1298.9	-147500.0	-1438000.0	-729258.0	56.0
1270.542	1933.4	877.7	-164700.0	-1113000.0	-77365.0	9439.0
1270.543	-104.1	-675.2	8294.6	396758.0	-242188.0	1738.0
1270.544	1622.4	-1250.8	-12783.5	795047.0	406655.0	10857.0
1270.545	755.5	2164.2	-57700.8	-1556000.0	-435938.0	-3572.0
1270.546	2505.8	1419.3	-81614.0	-1066000.0	192783.0	5339.0
1270.547	445.5	-1356.8	86139.8	1164000.0	52598.0	-4712.0
1270.548	2241.8	-2350.7	64066.3	1794000.0	681572.0	3831.0
1270.549	229.6	1703.4	-151800.0	-1740000.0	-777511.0	1183.0
1270.550	1950.1	1233.0	-167200.0	-1377000.0	-120794.0	10477.0
1270.551	-42.4	-955.2	3947.3	563499.0	-281386.0	314.0
1270.552	1655.8	-1515.9	-18458.6	944334.9	372410.0	9633.0
1270.553	779.0	1915.5	-62376.8	-1391000.0	-447675.0	-4792.0
1270.554	2522.3	1162.1	-85971.8	-894272.0	184181.0	4165.0
1270.555	429.0	-1137.0	92200.7	1021000.0	66512.0	-3567.0
1270.556	2226.3	-2054.0	68645.3	1604000.0	688159.0	4953.0
1270.557	264.1	1360.6	-152900.0	-1507000.0	-780395.0	-135.0
1270.558	1963.3	940.8	-169500.0	-1182000.0	-122503.0	9309.0
1270.559	-66.9	-632.2	4726.9	342145.0	-285126.0	1543.0
1270.560	1644.1	-1192.5	-17003.9	729193.0	367392.0	10788.0
1271.1	1689.4	198.9	-25216.2	-128695.0	-897505.9	-3120.0
1271.2	1154.8	143.9	-17009.0	-94012.0	-880012.0	-2031.0
1271.3	1583.5	208.3	-23115.6	-137204.0	-1487000.0	-2723.0

1271.4	1049.1	153.8	-14780.1	-102984.0	-1469000.0	-1634.0
1271.5	2354.5	269.2	-38962.3	-170062.0	-1098000.0	-1960.0
1271.6	1824.4	213.7	-30774.1	-135178.0	-1081000.0	-807.0
1271.7	5400.8	554.8	-96331.9	-340289.0	-1286000.0	-26730.0
1271.8	4867.3	499.5	-88209.5	-305409.0	-1269000.0	-25627.0
1271.9	4479.1	466.9	-79053.5	-287799.0	-1191000.0	-20999.0
1271.10	3950.8	411.7	-70622.7	-253142.0	-1172000.0	-19808.0
1271.11	4375.1	475.8	-77100.2	-295886.0	-1781000.0	-20593.0
1271.12	3842.9	421.1	-68808.2	-261548.0	-1764000.0	-19480.0
1271.13	5150.1	537.9	-92175.2	-330158.0	-1388000.0	-19702.0
1271.14	4618.0	482.5	-84100.4	-295177.0	-1372000.0	-18596.0
1271.15	2051.0	234.1	-31910.2	-149991.0	-934318.0	-5399.0
1271.16	1326.4	164.1	-18501.6	-107675.0	-859911.1	-846.0
1271.17	1516.9	178.8	-23682.9	-115133.0	-917167.0	-4308.0
1271.18	792.3	109.1	-10302.5	-72986.0	-842557.0	245.0
1271.19	2287.9	257.8	-36473.0	-164156.0	-960117.0	-7004.0
1271.20	1084.6	140.9	-14018.8	-93696.0	-834846.0	670.0
1271.21	1755.4	202.5	-28288.6	-129275.0	-943016.0	-5891.0
1271.22	550.8	85.8	-5848.9	-58932.0	-817663.0	1763.0
1271.23	1944.2	243.3	-29908.1	-158220.0	-1525000.0	-5049.0
1271.24	1219.9	173.6	-16337.6	-116334.0	-1449000.0	-454.0
1271.25	1412.6	188.6	-21511.2	-123988.0	-1507000.0	-3905.0
1271.26	686.5	118.8	-8101.0	-81859.0	-1432000.0	642.0
1271.27	2714.5	304.3	-45666.7	-191251.0	-1135000.0	-4271.0
1271.28	1996.2	233.8	-32297.4	-148754.0	-1061000.0	379.0
1271.29	2185.7	249.0	-37276.1	-156738.0	-1117000.0	-3085.0
1271.30	1463.1	178.6	-24136.2	-113984.0	-1044000.0	1475.0
1271.31	5761.8	590.1	-102900.0	-361731.0	-1323000.0	-29020.0
1271.32	5036.2	519.8	-89642.1	-319097.0	-1248000.0	-24460.0
1271.33	5229.1	534.8	-94804.9	-326804.0	-1306000.0	-27915.0
1271.34	4503.3	464.5	-81541.1	-284160.0	-1231000.0	-23355.0
1271.35	5084.0	525.6	-90058.4	-323550.0	-1253000.0	-24801.0
1271.36	3879.3	408.0	-68010.9	-252079.0	-1129000.0	-17148.0
1271.37	4551.5	470.2	-81958.3	-288511.0	-1236000.0	-23691.0
1271.38	3349.9	352.9	-59635.5	-217440.0	-1111000.0	-15982.0
1271.39	4843.5	501.9	-85723.5	-309080.0	-1229000.0	-23273.0
1271.40	4119.5	431.6	-72383.7	-266409.0	-1153000.0	-18678.0
1271.41	4311.0	446.6	-77572.0	-274194.0	-1212000.0	-22161.0
1271.42	3590.5	376.4	-64013.3	-231735.0	-1136000.0	-17508.0
1271.43	4735.6	511.2	-83628.9	-317508.0	-1818000.0	-22889.0
1271.44	4014.5	440.3	-70559.7	-274304.0	-1745000.0	-18298.0
1271.45	4203.5	456.5	-75364.0	-283100.0	-1800000.0	-21776.0
1271.46	3482.3	385.7	-62248.1	-240014.0	-1727000.0	-17185.0
1271.47	5510.9	573.2	-98734.1	-351623.0	-1425000.0	-21991.0
1271.48	4789.6	502.6	-85616.8	-308704.0	-1352000.0	-17411.0
1271.49	4978.5	517.9	-90656.2	-316638.0	-1408000.0	-20887.0
1271.50	4257.4	447.2	-77550.7	-273701.0	-1335000.0	-16305.0
1271.51	1462.7	302.3	-58803.1	-153308.0	-945365.1	-7194.0
1271.52	941.7	265.7	-51979.0	-127899.0	-935183.0	-6001.0
1271.53	1337.5	417.2	-84261.3	-193322.0	-991780.0	-9699.0
1271.54	815.3	383.1	-76794.3	-171229.0	-978458.0	-8524.0
1271.55	1358.0	308.9	-56513.9	-160286.0	-1535000.0	-6794.0
1271.56	836.9	272.4	-49676.6	-135055.0	-1524000.0	-5602.0
1271.57	2123.1	346.6	-70705.4	-181940.0	-1138000.0	-6051.0
1271.58	1601.6	311.3	-63769.4	-157464.0	-1128000.0	-4869.0
1271.59	5176.7	543.5	-125800.0	-308305.0	-1325000.0	-30749.0
1271.60	4646.0	495.2	-118000.0	-276791.0	-1309000.0	-29641.0
1271.61	4261.3	464.8	-108500.0	-260505.0	-1230000.0	-24941.0
1271.62	3727.9	420.0	-100600.0	-230890.0	-1213000.0	-23856.0
1271.63	4084.3	592.1	-131600.0	-304433.0	-1252000.0	-27835.0
1271.64	3558.6	553.9	-124800.0	-278408.0	-1241000.0	-26677.0
1271.65	4152.5	469.9	-106100.0	-266783.0	-1817000.0	-24577.0

1271.66	3622.8	425.0	-98429.0	-237204.0	-1802000.0	-23461.0
1271.67	4921.8	528.6	-121300.0	-299474.0	-1426000.0	-23789.0
1271.68	4392.9	478.4	-113700.0	-266734.0	-1412000.0	-22673.0
1271.69	1878.3	84.8	-15002.2	-80933.0	-906075.0	-1797.0
1271.70	1344.2	4.0	-8039.4	-33295.0	-893403.0	-714.0
1271.71	2001.9	-55.9	-11213.5	-15979.0	-922374.0	-950.0
1271.72	1467.0	-133.2	-4505.7	29904.0	-909872.0	118.0
1271.73	1773.3	98.7	-12583.3	-92221.0	-1495000.0	-1399.0
1271.74	1239.2	20.4	-5637.9	-45691.0	-1482000.0	-315.0
1271.75	2550.5	192.6	-26948.8	-141027.0	-1101000.0	-542.0
1271.76	2014.5	108.6	-19932.5	-92452.0	-1088000.0	526.0
1271.77	5615.1	567.1	-79845.5	-349873.0	-1276000.0	-25119.0
1271.78	5077.2	501.2	-71881.5	-310512.0	-1259000.0	-24049.0
1271.79	4693.4	459.3	-63290.2	-288468.0	-1183000.0	-19365.0
1271.80	4159.8	391.5	-55594.6	-248131.0	-1168000.0	-18276.0
1271.81	4820.3	348.0	-58105.2	-242440.0	-1195000.0	-18500.0
1271.82	4282.3	263.1	-50937.8	-194061.0	-1181000.0	-17445.0
1271.83	4589.6	472.8	-60996.5	-299431.0	-1773000.0	-18961.0
1271.84	4054.3	403.8	-53265.6	-258437.0	-1757000.0	-17878.0
1271.85	5365.3	546.1	-76495.5	-337686.0	-1383000.0	-18137.0
1271.86	4829.8	479.5	-68642.1	-297821.0	-1366000.0	-17052.0
1271.87	2137.6	276.3	-35359.8	-175907.0	-1024000.0	-9512.0
1271.88	1607.3	220.7	-27767.5	-140354.0	-1010000.0	-8399.0
1271.89	2288.0	301.7	-39304.5	-190577.0	-1068000.0	-11581.0
1271.90	1757.9	246.6	-31578.0	-155464.0	-1054000.0	-10467.0
1271.91	2034.9	284.6	-33124.1	-184472.0	-1614000.0	-9104.0
1271.92	1502.4	229.7	-25565.5	-149275.0	-1599000.0	-8002.0
1271.93	2803.1	347.1	-48551.0	-218272.0	-1222000.0	-8330.0
1271.94	2279.6	290.6	-40709.8	-182796.0	-1205000.0	-7075.0
1271.95	2499.4	311.6	-41659.4	-197333.0	-1060000.0	-11794.0
1271.96	1779.9	240.3	-29083.0	-154011.0	-989073.1	-7202.0
1271.97	1966.6	256.8	-34011.7	-162330.0	-1044000.0	-10693.0
1271.98	1249.5	184.7	-21493.4	-118469.0	-974982.0	-6090.0
1271.99	2739.4	335.7	-45866.5	-212071.0	-1083000.0	-13313.0
1271.100	1540.3	216.3	-24882.9	-139451.0	-965721.0	-5672.0
1271.101	2208.6	280.4	-38192.8	-176791.0	-1069000.0	-12202.0
1271.102	1008.7	161.0	-17281.8	-104043.0	-951180.9	-4571.0
1271.103	2650.3	337.3	-45550.7	-212373.0	-1104000.0	-13851.0
1271.104	1930.7	265.7	-33063.2	-168590.0	-1034000.0	-9268.0
1271.105	2119.8	282.1	-37841.5	-177201.0	-1089000.0	-12739.0
1271.106	1400.3	210.5	-25328.7	-133487.0	-1019000.0	-8155.0
1271.107	2393.3	320.8	-39525.6	-206388.0	-1649000.0	-11419.0
1271.108	1681.6	248.2	-26702.5	-162828.0	-1577000.0	-6696.0
1271.109	1863.8	265.0	-31861.3	-170733.0	-1635000.0	-10286.0
1271.110	1148.8	193.1	-19206.4	-127286.0	-1563000.0	-5615.0
1271.111	3173.3	381.8	-54769.8	-239678.0	-1255000.0	-10430.0
1271.112	2443.7	311.2	-42198.4	-196605.0	-1186000.0	-6034.0
1271.113	2633.2	327.5	-47122.1	-204761.0	-1242000.0	-9483.0
1271.114	1919.6	254.8	-34412.0	-161071.0	-1170000.0	-4793.0
1271.115	1913.1	325.4	-64691.6	-175373.0	-1060000.0	-13654.0
1271.116	1387.7	287.6	-57662.1	-149563.0	-1048000.0	-12488.0
1271.117	1775.8	434.2	-89855.9	-213274.0	-1103000.0	-16244.0
1271.118	1263.3	402.7	-83198.3	-190313.0	-1096000.0	-15006.0
1271.119	2058.8	330.1	-66645.2	-179831.0	-1096000.0	-15774.0
1271.120	1531.2	297.6	-59354.0	-158237.0	-1083000.0	-14624.0
1271.121	1808.0	332.0	-62415.6	-182496.0	-1649000.0	-13258.0
1271.122	1284.1	294.5	-55353.4	-157050.0	-1638000.0	-12085.0
1271.123	2574.0	358.9	-76693.6	-198317.0	-1253000.0	-12511.0
1271.124	2049.9	333.0	-69748.1	-178945.0	-1242000.0	-11340.0
1271.125	2351.2	224.2	-24506.1	-155656.0	-1042000.0	-7976.0
1271.126	1811.9	118.9	-17443.4	-97565.0	-1028000.0	-6944.0
1271.127	2463.2	53.8	-20525.7	-79425.0	-1054000.0	-7207.0

1271.128	1929.8	-28.1	-13731.3	-31254.0	-1043000.0	-6124.0
1271.129	2503.1	249.1	-27428.0	-169252.0	-1085000.0	-10028.0
1271.130	1967.5	183.2	-20360.9	-130758.0	-1072000.0	-8957.0
1271.131	2245.2	222.6	-22054.1	-157967.0	-1630000.0	-7588.0
1271.132	1704.8	135.1	-15129.3	-109786.0	-1617000.0	-6556.0
1271.133	3018.5	310.5	-36722.2	-203454.0	-1237000.0	-6757.0
1271.134	2483.1	234.2	-29270.9	-159184.0	-1222000.0	-5680.0
1271.135	3541.3	339.5	-59731.1	-210158.0	-932058.0	-9735.0
1271.136	3005.8	284.2	-51641.2	-175440.0	-914992.0	-8668.0
1271.137	4147.3	385.4	-71113.7	-236852.0	-943505.0	-11916.0
1271.138	3612.2	330.3	-62913.7	-202254.0	-925755.9	-10831.0
1271.139	3434.5	348.7	-57623.2	-218647.0	-1522000.0	-9350.0
1271.140	2900.1	293.4	-49497.0	-183835.0	-1504000.0	-8262.0
1271.141	4208.5	410.2	-73143.4	-252239.0	-1131000.0	-8525.0
1271.142	3673.3	355.2	-64903.6	-217702.0	-1114000.0	-7442.0
1271.143	3903.0	374.6	-66327.9	-231409.0	-968911.1	-12014.0
1271.144	3177.6	304.4	-53183.3	-188998.0	-895192.0	-7485.0
1271.145	3369.4	319.4	-58183.7	-196666.0	-951901.9	-10924.0
1271.146	2644.0	249.2	-45036.6	-154248.0	-878249.0	-6395.0
1271.147	4144.1	398.1	-70718.4	-245602.0	-993465.1	-13532.0
1271.148	2935.5	281.1	-48715.0	-175040.0	-870178.0	-5971.0
1271.149	3610.5	342.9	-62544.3	-210942.0	-976368.0	-12442.0
1271.150	2402.4	225.9	-40550.4	-140299.0	-853143.0	-4875.0
1271.151	4508.9	420.6	-77688.1	-258175.0	-980321.0	-14195.0
1271.152	3783.7	350.4	-64504.4	-215752.0	-906230.0	-9656.0
1271.153	3975.4	365.5	-69474.5	-223627.0	-963055.9	-13104.0
1271.154	3249.9	295.1	-56382.2	-180972.0	-889461.1	-8571.0
1271.155	3797.8	383.8	-64268.8	-239785.0	-1559000.0	-11622.0
1271.156	3071.0	313.6	-51086.4	-197447.0	-1485000.0	-7100.0
1271.157	3262.6	328.5	-56131.8	-205003.0	-1542000.0	-10538.0
1271.158	2537.9	258.3	-42942.1	-162623.0	-1468000.0	-6001.0
1271.159	4570.2	445.5	-79694.0	-273650.0	-1168000.0	-10804.0
1271.160	3845.2	375.2	-66490.9	-231106.0	-1094000.0	-6254.0
1271.161	4036.6	390.4	-71472.2	-239102.0	-1151000.0	-9712.0
1271.162	3312.0	319.9	-58373.0	-196245.0	-1077000.0	-5162.0
1271.163	3315.4	419.8	-93226.2	-221124.0	-985395.0	-13789.0
1271.164	2786.7	385.5	-85972.3	-196636.0	-971586.1	-12654.0
1271.165	3175.0	545.1	-117800.0	-265591.0	-1024000.0	-16408.0
1271.166	2645.0	504.6	-110700.0	-238367.0	-1010000.0	-15269.0
1271.167	3918.8	455.5	-104200.0	-239985.0	-996442.0	-15971.0
1271.168	3390.4	426.3	-97218.0	-219605.0	-983683.0	-14834.0
1271.169	3209.9	426.8	-91198.9	-228165.0	-1576000.0	-13402.0
1271.170	2681.8	392.0	-83695.2	-203515.0	-1561000.0	-12255.0
1271.171	3976.5	439.4	-104700.0	-238778.0	-1179000.0	-12661.0
1271.172	3448.5	429.2	-98039.8	-225604.0	-1166000.0	-11497.0
1271.173	3740.1	305.2	-44024.4	-203006.0	-921163.0	-8370.0
1271.174	3203.5	215.3	-36980.4	-151756.0	-907688.9	-7306.0
1271.175	3858.4	164.3	-39924.9	-139677.0	-934825.0	-7550.0
1271.176	3324.3	84.7	-32990.4	-92390.0	-922168.0	-6465.0
1271.177	4347.4	373.4	-53621.0	-241009.0	-926301.0	-10546.0
1271.178	3812.6	286.6	-46511.5	-191433.0	-912923.1	-9470.0
1271.179	3633.6	320.3	-41564.5	-214884.0	-1509000.0	-7978.0
1271.180	3099.0	233.5	-34517.9	-165241.0	-1496000.0	-6902.0
1271.181	4411.6	394.8	-56379.0	-252354.0	-1118000.0	-7132.0
1271.182	3874.1	330.9	-48904.5	-215351.0	-1102000.0	-6060.0
1271.183	2118.3	110.6	-50291.5	-50636.0	-1235000.0	-3226.0
1271.184	1585.2	61.3	-42265.2	-18342.0	-1219000.0	-2132.0
1271.185	2012.9	118.8	-48288.3	-58390.0	-1825000.0	-2833.0
1271.186	1480.6	69.0	-40277.0	-25879.0	-1809000.0	-1732.0
1271.187	2407.2	67.2	-67059.4	-6059.0	-1461000.0	-3277.0
1271.188	1877.5	21.2	-58776.6	23581.0	-1445000.0	-2150.0
1271.189	2786.0	176.8	-63668.0	-90772.0	-1435000.0	-2008.0

1271.190	2253.8	124.5	-55546.1	-57281.0	-1418000.0	-910.0
1271.191	5838.6	462.2	-120800.0	-261611.0	-1620000.0	-26679.0
1271.192	5300.1	406.7	-112500.0	-226750.0	-1603000.0	-25579.0
1271.193	4921.6	374.5	-103300.0	-209149.0	-1526000.0	-20894.0
1271.194	4384.3	319.0	-95101.0	-174319.0	-1509000.0	-19797.0
1271.195	4814.9	384.2	-101200.0	-217566.0	-2116000.0	-20521.0
1271.196	4279.9	327.7	-93257.3	-182119.0	-2099000.0	-19395.0
1271.197	5207.2	313.2	-119900.0	-156409.0	-1752000.0	-20948.0
1271.198	4675.4	260.9	-111600.0	-123095.0	-1735000.0	-19847.0
1271.199	5588.7	444.3	-117100.0	-250239.0	-1726000.0	-19688.0
1271.200	5053.5	388.0	-109000.0	-215187.0	-1709000.0	-18546.0
1271.201	2580.4	184.1	-59620.9	-96601.0	-1364000.0	-9585.0
1271.202	2053.8	130.0	-50886.8	-62860.0	-1345000.0	-8370.0
1271.203	2727.0	211.0	-62437.1	-113006.0	-1403000.0	-11673.0
1271.204	2201.7	156.4	-54231.7	-78548.0	-1389000.0	-10532.0
1271.205	2476.4	192.7	-57703.5	-104418.0	-1955000.0	-9170.0
1271.206	1949.3	138.3	-49110.3	-70478.0	-1936000.0	-7968.0
1271.207	2874.1	127.0	-75038.2	-47207.0	-1585000.0	-9539.0
1271.208	2342.8	76.4	-66733.9	-14855.0	-1568000.0	-8435.0
1271.209	3244.0	254.1	-73302.1	-137825.0	-1563000.0	-8397.0
1271.210	2719.2	199.8	-64609.3	-104059.0	-1544000.0	-7161.0
1271.211	3968.3	252.6	-84609.3	-133371.0	-1271000.0	-9881.0
1271.212	3436.4	201.9	-76560.8	-100550.0	-1255000.0	-8771.0
1271.213	4575.7	298.9	-95924.2	-160291.0	-1283000.0	-12051.0
1271.214	4041.9	247.9	-87885.8	-127319.0	-1266000.0	-10950.0
1271.215	3863.5	260.8	-82591.6	-141235.0	-1862000.0	-9480.0
1271.216	3331.5	209.9	-74541.4	-108314.0	-1845000.0	-8372.0
1271.217	4259.0	206.5	-101600.0	-86966.0	-1500000.0	-9911.0
1271.218	3718.0	158.5	-93397.4	-55566.0	-1479000.0	-8850.0
1271.219	4635.5	319.6	-97779.1	-174194.0	-1470000.0	-8675.0
1271.220	4103.4	267.0	-89718.0	-140454.0	-1454000.0	-7570.0
1271.221	1239.0	205.9	-16901.3	-137996.0	-605990.0	-3137.0
1271.222	706.8	149.9	-8816.9	-103119.0	-589117.0	-2013.0
1271.223	1134.8	215.3	-14646.9	-146860.0	-1195000.0	-2711.0
1271.224	600.1	160.5	-6371.2	-113002.0	-1177000.0	-1622.0
1271.225	940.7	209.2	-11529.7	-144207.0	-412758.0	-3122.0
1271.226	408.4	153.3	-3217.8	-109554.0	-394889.0	-1996.0
1271.227	1904.9	276.8	-30478.6	-179503.0	-805619.0	-1963.0
1271.228	1372.5	221.2	-22392.2	-144846.0	-789144.0	-852.0
1271.229	4955.9	563.5	-87526.5	-349563.0	-993057.0	-26686.0
1271.230	4420.3	509.3	-79174.8	-315621.0	-974787.0	-25607.0
1271.231	4038.2	476.4	-69982.6	-297837.0	-896851.9	-20888.0
1271.232	3504.0	421.7	-61477.4	-263708.0	-878158.0	-19784.0
1271.233	3934.3	486.7	-67617.3	-307252.0	-1486000.0	-20482.0
1271.234	3401.4	432.3	-59283.7	-273108.0	-1469000.0	-19380.0
1271.235	3740.4	483.2	-63786.3	-305618.0	-700575.0	-20871.0
1271.236	3206.5	428.6	-55418.5	-271791.0	-682616.0	-19772.0
1271.237	4703.1	546.9	-83339.6	-339734.0	-1095000.0	-19681.0
1271.238	4170.9	492.6	-74985.5	-305691.0	-1077000.0	-18576.0
1271.239	1688.6	280.7	-27009.3	-185833.0	-732376.0	-9503.0
1271.240	1158.4	225.0	-19356.1	-150338.0	-718149.0	-8389.0
1271.241	1838.6	305.9	-31060.6	-200257.0	-777030.0	-11574.0
1271.242	1308.6	250.4	-23517.6	-164687.0	-763197.0	-10460.0
1271.243	1583.4	290.1	-24939.6	-194545.0	-1322000.0	-9105.0
1271.244	1053.2	233.8	-17241.6	-159002.0	-1308000.0	-7994.0
1271.245	1390.7	284.2	-21227.5	-192564.0	-537807.0	-9476.0
1271.246	860.4	227.8	-13501.9	-156971.0	-523328.0	-8367.0
1271.247	2354.6	351.6	-40406.6	-227507.0	-930784.0	-8300.0
1271.248	1822.6	296.1	-32590.6	-192695.0	-915332.0	-7199.0
1271.249	3095.7	349.3	-50496.7	-220785.0	-637071.0	-9699.0
1271.250	2561.3	293.7	-42550.2	-185724.0	-621025.0	-8631.0
1271.251	3701.2	395.2	-61913.4	-247493.0	-648761.0	-11891.0

1271.252	3168.0	339.6	-53865.4	-212459.0	-632128.0	-10797.0
1271.253	2990.0	358.2	-48565.6	-228882.0	-1228000.0	-9317.0
1271.254	2454.6	303.2	-40343.5	-194412.0	-1210000.0	-8233.0
1271.255	2799.1	355.7	-44405.3	-227862.0	-440973.0	-9678.0
1271.256	2260.7	301.2	-36292.1	-193495.0	-425706.0	-8669.0
1271.257	3762.6	419.7	-64085.5	-262503.0	-837065.1	-8499.0
1271.258	3227.6	364.7	-55881.0	-227917.0	-819455.0	-7414.0
1271.401	-120.6	-228.5	-343000.0	846688.0	-1063000.0	-10201.0
1271.402	364.5	-166.3	-356800.0	789787.0	-879325.0	-13355.0
1271.403	-184.4	1244.6	-235100.0	-389052.0	-719074.0	-7730.0
1271.404	295.0	1293.5	-249300.0	-444153.0	-535750.0	-10943.0
1271.405	2103.4	-1829.9	25425.6	757303.0	63166.0	5533.0
1271.406	2601.9	-1670.4	12584.7	647919.0	245178.0	2486.0
1271.407	1990.6	400.9	103700.0	-775268.0	341780.0	8151.0
1271.408	2494.1	582.5	91325.1	-900862.0	524925.0	5125.0
1271.409	-124.2	-704.6	-357300.0	1207000.0	-1096000.0	-10211.0
1271.410	365.0	-634.1	-371200.0	1143000.0	-914037.0	-13346.0
1271.411	-183.0	1697.8	-219900.0	-735077.0	-681567.0	-7775.0
1271.412	295.7	1747.5	-234100.0	-789770.0	-497373.0	-10983.0
1271.413	2099.2	-2285.0	12734.9	1091000.0	32565.0	5448.0
1271.414	2599.3	-2137.1	231.4	990504.0	215150.0	2411.0
1271.415	1982.9	848.8	114800.0	-1106000.0	368006.0	8162.0
1271.416	2484.6	1029.0	101600.0	-1230000.0	548587.0	5124.0
1271.417	-54.3	-479.0	-358900.0	1056000.0	-1229000.0	-9459.0
1271.418	425.3	-419.3	-372000.0	1003000.0	-1040000.0	-12644.0
1271.419	-114.2	966.1	-252500.0	-147052.0	-887569.1	-6953.0
1271.420	360.7	1024.3	-265600.0	-206632.0	-698016.0	-10185.0
1271.421	2036.6	-1509.4	47815.4	484321.0	237027.0	4899.0
1271.422	2540.2	-1362.2	36042.8	383584.0	420714.0	1885.0
1271.423	1919.6	642.3	127600.0	-1014000.0	521507.0	7421.0
1271.424	2430.9	841.4	117000.0	-1150000.0	708671.0	4455.0
1271.425	-69.1	-974.2	-373600.0	1432000.0	-1260000.0	-9558.0
1271.426	409.7	-903.9	-386700.0	1370000.0	-1072000.0	-12748.0
1271.427	-112.5	1421.6	-238300.0	-490486.0	-852716.0	-6989.0
1271.428	362.0	1478.5	-251500.0	-549373.0	-663798.0	-10227.0
1271.429	2029.1	-1973.0	37454.7	822938.0	215348.0	4796.0
1271.430	2534.0	-1825.9	26044.4	721802.0	400091.0	1790.0
1271.431	1918.2	1076.0	136500.0	-1335000.0	538616.0	7466.0
1271.432	2426.9	1270.9	125100.0	-1469000.0	723623.0	4479.0
1271.433	826.4	-2191.4	-247500.0	1993000.0	-815814.0	-7342.0
1271.434	1318.0	-2099.6	-258500.0	1908000.0	-624926.0	-10481.0
1271.435	503.3	2576.7	66253.1	-1895000.0	238710.0	177.0
1271.436	983.8	2668.5	47121.5	-1965000.0	408068.0	-2962.0
1271.437	1453.2	-3639.9	-135600.0	2492000.0	-476425.0	-3311.0
1271.438	1948.1	-3444.7	-147000.0	2355000.0	-287593.0	-6381.0
1271.439	1127.2	2986.9	120000.0	-2227000.0	416559.0	5476.0
1271.440	1625.8	3077.3	106100.0	-2306000.0	595038.0	2401.0
1271.441	826.1	-2297.0	-257800.0	2084000.0	-878448.1	-7323.0
1271.442	1315.2	-2208.7	-270200.0	2003000.0	-691002.0	-10483.0
1271.443	523.8	2495.3	60988.7	-1821000.0	188988.0	395.0
1271.444	1001.4	2588.3	42721.0	-1893000.0	362257.0	-2755.0
1271.445	1446.9	-3530.9	-123300.0	2400000.0	-409034.0	-3383.0
1271.446	1947.2	-3334.6	-133500.0	2260000.0	-217240.0	-6418.0
1271.447	1106.6	3063.6	127000.0	-2299000.0	471070.0	5253.0
1271.448	1610.2	3154.8	113300.0	-2379000.0	649156.0	2206.0
1271.449	819.6	-3682.9	-288300.0	3102000.0	-904004.0	-7376.0
1271.450	1316.5	-3595.3	-299400.0	3019000.0	-714755.0	-10466.0
1271.451	476.0	4214.3	105700.0	-3085000.0	323681.0	181.0
1271.452	947.2	4308.8	87627.5	-3159000.0	495985.0	-3013.0
1271.453	1456.7	-5213.8	-154800.0	3644000.0	-506061.0	-3500.0
1271.454	1959.7	-5023.1	-166900.0	3511000.0	-320758.0	-6526.0
1271.455	1119.0	4622.2	157900.0	-3414000.0	512806.0	5623.0

1271.456	1599.6	4710.1	142900.0	-3489000.0	691196.0	2450.0
1271.457	826.4	-3780.3	-296700.0	3186000.0	-963241.0	-7288.0
1271.458	1321.7	-3693.1	-308400.0	3104000.0	-774971.0	-10392.0
1271.459	504.1	4132.7	100700.0	-3012000.0	276454.0	432.0
1271.460	972.0	4227.0	82691.2	-3085000.0	449619.0	-2779.0
1271.461	1444.0	-5082.1	-141900.0	3536000.0	-435000.0	-3603.0
1271.462	1951.2	-4895.0	-151000.0	3402000.0	-240988.0	-6598.0
1271.463	1101.0	4698.9	165500.0	-3487000.0	564908.0	5427.0
1271.464	1585.8	4786.9	150700.0	-3562000.0	742600.0	2276.0
1271.529	109.4	-639.2	-128300.0	739633.0	-684526.0	-1238.0
1271.530	1754.7	-396.7	-169300.0	515132.0	-63873.0	-11602.0
1271.531	38.3	814.2	-22672.8	-462193.0	-339410.0	1137.0
1271.532	1632.4	925.4	-75628.8	-624767.0	253716.0	-9590.0
1271.533	779.1	-1400.4	-16088.3	853090.1	-343138.0	3363.0
1271.534	2423.1	-867.6	-57850.1	487939.0	274126.0	-6884.0
1271.535	673.3	957.7	64641.8	-732912.0	-53702.0	6124.0
1271.536	2348.3	1318.9	23043.3	-1034000.0	553291.0	-4108.0
1271.537	106.8	-1096.9	-141100.0	1081000.0	-713045.0	-1251.0
1271.538	1757.9	-844.0	-181300.0	847618.0	-91253.0	-11579.0
1271.539	32.4	1258.2	-8096.0	-801607.0	-306231.0	1071.0
1271.540	1615.1	1408.0	-61764.9	-978976.9	285179.0	-9706.0
1271.541	773.8	-1858.3	-26630.6	1188000.0	-367205.0	3285.0
1271.542	2438.7	-1320.0	-64417.5	819674.0	257004.0	-6833.0
1271.543	668.5	1429.1	75397.6	-1076000.0	-29140.0	6161.0
1271.544	2322.7	1801.4	31566.2	-1380000.0	577636.0	-4175.0
1271.545	119.8	-737.1	-134800.0	822201.9	-738329.0	-1106.0
1271.546	1750.1	-486.7	-175500.0	592650.0	-110889.0	-11557.0
1271.547	61.6	724.1	-29018.6	-384680.0	-394264.0	1382.0
1271.548	1645.1	851.1	-78978.6	-556485.0	213131.0	-9428.0
1271.549	763.6	-1303.4	-7991.9	770808.0	-288182.0	3222.0
1271.550	2417.3	-771.3	-50803.0	406292.0	323178.0	-6993.0
1271.551	651.0	1024.5	70142.5	-798444.0	-4079.0	5900.0
1271.552	2337.1	1399.7	32017.9	-1113000.0	611452.0	-4277.0
1271.553	115.3	-1197.2	-148700.0	1167000.0	-769953.0	-1142.0
1271.554	1753.2	-937.5	-188900.0	928498.1	-143142.0	-11546.0
1271.555	57.2	1176.3	-14222.8	-726797.0	-360026.0	1341.0
1271.556	1632.1	1329.3	-66495.8	-905788.0	239521.0	-9483.0
1271.557	750.4	-1757.9	-17825.6	1102000.0	-307408.0	3085.0
1271.558	2426.8	-1228.6	-56154.4	739700.0	312076.0	-6992.0
1271.559	648.3	1492.1	79943.2	-1138000.0	16540.0	5950.0
1271.560	2320.7	1885.7	39108.9	-1457000.0	627591.0	-4298.0
1273.1	4372.3	74.1	-20864.2	53160.0	-48653.0	-355.0
1273.2	3123.9	58.7	-14299.4	33691.0	-307246.0	-222.0
1273.3	4266.4	89.2	-19086.6	41422.0	-755617.0	-340.0
1273.4	3017.3	73.4	-12546.7	22027.0	-1015000.0	-226.0
1273.5	6293.9	94.4	-27329.6	68215.0	142495.0	1952.0
1273.6	5046.8	78.6	-20812.9	49016.0	-116201.0	2081.0
1273.7	14295.4	301.2	-56291.5	119841.0	1768000.0	-16583.0
1273.8	13049.7	289.0	-49933.4	99786.0	1510000.0	-16435.0
1273.9	11845.9	242.7	-47313.4	103532.0	1320000.0	-12598.0
1273.10	10603.4	229.9	-41062.1	84058.0	1062000.0	-12438.0
1273.11	11751.4	258.1	-45532.6	91430.0	615289.0	-12554.0
1273.12	10500.8	245.7	-39097.6	71220.0	355891.0	-12424.0
1273.13	13775.0	264.7	-54109.3	118813.0	1511000.0	-10279.0
1273.14	12528.7	252.5	-47779.9	98834.0	1253000.0	-10131.0
1273.15	5339.5	97.0	-24176.0	59005.0	128749.0	-1871.0
1273.16	3407.1	51.4	-17505.3	47018.0	-225240.0	1180.0
1273.17	4090.7	81.1	-17649.5	39869.0	-130232.0	-1746.0
1273.18	2158.1	35.7	-11012.4	27885.0	-484475.0	1301.0
1273.19	5983.8	111.8	-26415.8	63232.0	246688.0	-2890.0
1273.20	2763.4	36.0	-15301.2	43166.0	-343213.0	2199.0
1273.21	4734.3	95.5	-19931.1	44340.0	-12670.0	-2772.0

1273.22	1511.8	20.1	-8794.7	24023.0	-602678.0	2313.0
1273.23	5233.7	111.3	-22494.0	47909.0	-578754.0	-1863.0
1273.24	3299.9	66.6	-15706.6	35083.0	-932711.1	1179.0
1273.25	3986.4	96.0	-15925.5	28394.0	-837233.0	-1730.0
1273.26	2049.9	51.1	-9171.8	15695.0	-1192000.0	1301.0
1273.27	7258.7	116.3	-30663.8	74438.0	318928.0	409.0
1273.28	5327.6	72.1	-24014.7	62083.0	-34595.0	3481.0
1273.29	6027.3	98.9	-24317.3	56161.0	61585.0	560.0
1273.30	4078.5	56.2	-17493.4	42921.0	-293792.0	3602.0
1273.31	15263.7	323.9	-59854.2	126570.0	1945000.0	-18108.0
1273.32	13331.5	278.6	-52727.4	113056.0	1593000.0	-15042.0
1273.33	14013.7	311.7	-53463.8	106425.0	1686000.0	-17976.0
1273.34	12080.5	266.4	-46323.2	92800.0	1334000.0	-14913.0
1273.35	13469.9	280.6	-53345.0	115088.0	1616000.0	-15105.0
1273.36	10232.9	205.1	-41403.3	92253.0	1026000.0	-10054.0
1273.37	12208.9	268.0	-46905.1	94874.0	1355000.0	-15009.0
1273.38	8989.2	192.1	-35093.6	72644.0	767935.0	-9899.0
1273.39	12814.2	265.4	-50896.5	110364.0	1497000.0	-14123.0
1273.40	10878.0	220.1	-43766.9	96789.0	1144000.0	-11072.0
1273.41	11563.6	252.7	-44548.8	90471.0	1237000.0	-13992.0
1273.42	9634.8	207.3	-37474.8	77167.0	885648.1	-10915.0
1273.43	12721.0	281.1	-49054.6	97937.0	792100.0	-14075.0
1273.44	10777.9	235.4	-41947.6	84611.0	437694.0	-11048.0
1273.45	11470.7	268.6	-42653.6	77894.0	532633.0	-13944.0
1273.46	9527.5	223.0	-35499.4	64325.0	178413.0	-10917.0
1273.47	14743.1	287.4	-57677.8	125602.0	1688000.0	-11805.0
1273.48	12811.4	241.9	-50610.2	112332.0	1336000.0	-8737.0
1273.49	13492.7	275.2	-51294.3	105403.0	1429000.0	-11673.0
1273.50	11559.6	229.6	-44231.3	92196.0	1076000.0	-8610.0
1273.51	3720.7	102.9	-13700.4	-10623.0	-68185.0	-3233.0
1273.52	2469.2	88.1	-7267.6	-30013.0	-326961.0	-3112.0
1273.53	3270.5	123.2	-9107.7	-53689.0	-82080.0	-5201.0
1273.54	2017.9	112.7	-2048.0	-76432.0	-338312.0	-5079.0
1273.55	3617.3	119.1	-11825.0	-22784.0	-774712.0	-3218.0
1273.56	2365.4	104.5	-5369.7	-42282.0	-1033000.0	-3098.0
1273.57	5648.1	123.4	-20450.8	5448.0	122600.0	-922.0
1273.58	4398.7	110.9	-13851.9	-15275.0	-135399.0	-786.0
1273.59	13650.5	322.2	-51209.6	67035.0	1744000.0	-19407.0
1273.60	12399.0	306.7	-44975.6	48766.0	1485000.0	-19281.0
1273.61	11200.9	266.5	-42033.2	48607.0	1297000.0	-15419.0
1273.62	9950.2	251.0	-35770.0	30193.0	1037000.0	-15292.0
1273.63	10757.9	287.4	-37547.0	5953.0	1284000.0	-17345.0
1273.64	9506.2	273.1	-31233.7	-12979.0	1025000.0	-17221.0
1273.65	11097.4	281.9	-40157.5	36714.0	590045.0	-15405.0
1273.66	9847.5	266.7	-33969.0	18564.0	330796.0	-15276.0
1273.67	13127.5	290.0	-48460.1	62530.0	1489000.0	-13105.0
1273.68	11878.9	274.0	-42392.6	45064.0	1229000.0	-12971.0
1273.69	5127.7	60.2	-39124.7	133944.0	-35861.0	1290.0
1273.70	3877.0	50.6	-32861.2	112273.0	-294861.0	1405.0
1273.71	5627.8	62.3	-51958.8	183647.0	-27867.0	2360.0
1273.72	4333.7	47.9	-45754.7	163461.0	-298788.0	2282.0
1273.73	5020.0	76.6	-37260.2	121064.0	-742809.0	1291.0
1273.74	3762.0	67.1	-30915.0	99159.0	-1002000.0	1399.0
1273.75	7052.7	80.0	-45282.9	148373.0	156355.0	3628.0
1273.76	5800.3	71.5	-39014.7	126218.0	-103655.0	3740.0
1273.77	14998.5	311.5	-70084.9	176838.0	1791000.0	-14939.0
1273.78	13747.6	299.8	-63770.5	155627.0	1531000.0	-14857.0
1273.79	12567.2	247.7	-62587.4	167420.0	1340000.0	-10941.0
1273.80	11318.4	234.8	-56387.9	147473.0	1080000.0	-10816.0
1273.81	13075.8	240.6	-75707.3	222319.0	1346000.0	-9836.0
1273.82	11827.8	229.8	-69340.6	200990.0	1088000.0	-9697.0
1273.83	12463.1	264.1	-60805.7	154851.0	632935.0	-10928.0

1273.84	11213.9	251.3	-54588.2	134826.0	373143.0	-10804.0
1273.85	14482.9	271.3	-68712.5	180178.0	1532000.0	-8617.0
1273.86	13234.1	259.1	-62460.2	159743.0	1273000.0	-8493.0
1273.87	5456.9	107.9	-19533.2	40404.0	85668.0	-4570.0
1273.88	4211.4	95.5	-12873.9	19337.0	-171733.0	-4429.0
1273.89	5813.7	121.8	-18878.1	34242.0	131416.0	-5939.0
1273.90	4567.3	107.9	-12700.7	14961.0	-127796.0	-5801.0
1273.91	5355.1	124.6	-17687.9	27531.0	-620989.0	-4552.0
1273.92	4111.3	113.7	-10969.7	5799.0	-877930.9	-4402.0
1273.93	7382.2	129.9	-25823.9	53912.0	277665.0	-2270.0
1273.94	6136.3	117.3	-19328.2	33338.0	19658.0	-2130.0
1273.95	6426.9	129.7	-22928.4	46935.0	262730.0	-6091.0
1273.96	4489.1	85.7	-16226.1	34303.0	-91498.0	-3041.0
1273.97	5181.5	117.0	-16384.8	26223.0	4970.0	-5948.0
1273.98	3244.7	73.8	-9444.6	12739.0	-348378.0	-2897.0
1273.99	7072.3	144.3	-25180.8	51210.0	380723.0	-7110.0
1273.100	3844.9	70.9	-14022.6	30260.0	-209526.0	-2019.0
1273.101	5827.1	131.2	-18741.2	30956.0	122588.0	-6967.0
1273.102	2598.5	59.2	-7159.9	8354.0	-466346.0	-1882.0
1273.103	6783.5	143.2	-22417.8	41316.0	307912.0	-7461.0
1273.104	4846.3	100.0	-15457.5	27727.0	-45333.0	-4410.0
1273.105	5536.4	129.2	-16238.8	22065.0	48711.0	-7324.0
1273.106	3600.6	86.1	-9293.4	8495.0	-304507.0	-4268.0
1273.107	6325.5	146.7	-21089.2	33996.0	-443797.0	-6069.0
1273.108	4384.7	102.4	-14316.4	21234.0	-798248.0	-3034.0
1273.109	5079.8	135.0	-14499.8	12874.0	-701479.0	-5929.0
1273.110	3140.0	91.4	-7582.1	-507.0	-1055000.0	-2889.0
1273.111	8350.3	152.1	-29249.6	60393.0	454511.0	-3797.0
1273.112	6414.3	107.9	-22425.5	47429.0	100755.0	-742.0
1273.113	7104.2	139.6	-22775.9	39811.0	196395.0	-3657.0
1273.114	5168.9	96.0	-15828.4	26378.0	-156822.0	-599.0
1273.115	4800.4	131.4	-13666.2	-15939.0	64784.0	-7426.0
1273.116	3548.5	116.8	-7253.9	-34655.0	-193720.0	-7302.0
1273.117	4354.7	151.9	-9142.3	-57965.0	52309.0	-9360.0
1273.118	3104.2	136.1	-2618.1	-76972.0	-205528.0	-9225.0
1273.119	5153.3	140.6	-13668.0	-17449.0	108406.0	-8797.0
1273.120	3901.7	126.1	-7131.6	-36412.0	-149593.0	-8673.0
1273.121	4697.8	147.7	-11768.0	-28154.0	-641596.0	-7409.0
1273.122	3447.7	133.0	-5349.7	-46767.0	-899605.0	-7274.0
1273.123	6724.7	151.6	-20418.7	265.0	255246.0	-5126.0
1273.124	5476.6	138.7	-13908.0	-19731.0	-2366.0	-4985.0
1273.125	6185.7	103.6	-37321.5	115188.0	96658.0	-2920.0
1273.126	4936.6	93.8	-30841.0	92995.0	-162266.0	-2798.0
1273.127	6688.3	110.0	-49736.8	161834.0	105401.0	-1826.0
1273.128	5436.8	93.3	-43514.7	143444.0	-155331.0	-1726.0
1273.129	6529.5	118.3	-36654.9	108568.0	140039.0	-4309.0
1273.130	5281.3	106.2	-30208.6	87556.0	-119020.0	-4185.0
1273.131	6079.1	120.3	-35474.2	102213.0	-610859.0	-2920.0
1273.132	4830.1	108.6	-28989.4	80882.0	-869591.0	-2793.0
1273.133	8101.9	126.7	-43330.6	127618.0	288646.0	-608.0
1273.134	6852.5	114.6	-37038.7	106986.0	28755.0	-493.0
1273.135	9405.6	175.2	-43192.8	104737.0	1037000.0	-4669.0
1273.136	8158.2	160.1	-36612.0	85224.0	778784.0	-4528.0
1273.137	11053.3	208.8	-50423.8	121142.0	1393000.0	-6084.0
1273.138	9805.4	193.5	-43867.9	101763.0	1134000.0	-5942.0
1273.139	9300.6	190.3	-41417.7	93204.0	330545.0	-4640.0
1273.140	8052.6	174.3	-34918.5	74167.0	71440.0	-4515.0
1273.141	11320.4	197.0	-49228.2	117763.0	1228000.0	-2382.0
1273.142	10072.5	181.3	-42716.6	98572.0	969324.0	-2253.0
1273.143	10369.8	197.5	-46495.9	110893.0	1214000.0	-6200.0
1273.144	8441.7	154.0	-39779.4	97872.0	861026.9	-3122.0
1273.145	9121.6	181.5	-40010.1	91919.0	954880.0	-6073.0

1273.146	7193.6	138.0	-33270.2	78791.0	601977.0	-2997.0
1273.147	11012.6	212.3	-48703.4	115030.0	1332000.0	-7220.0
1273.148	7798.2	139.2	-37528.5	93442.0	742763.0	-2115.0
1273.149	9764.5	196.3	-42251.9	96224.0	1073000.0	-7093.0
1273.150	6550.1	123.2	-31021.4	74400.0	483751.0	-1988.0
1273.151	12017.5	230.9	-53780.6	127556.0	1569000.0	-7615.0
1273.152	10089.4	187.5	-46990.9	114256.0	1217000.0	-4537.0
1273.153	10769.1	214.9	-47312.0	108662.0	1310000.0	-7488.0
1273.154	8841.3	171.6	-40497.6	95229.0	957659.0	-4412.0
1273.155	10264.4	212.0	-44779.5	99646.0	506680.0	-6187.0
1273.156	8336.2	168.3	-38073.8	86754.0	153721.0	-3110.0
1273.157	9017.2	196.6	-38219.8	80281.0	248436.0	-6044.0
1273.158	7087.3	151.8	-31617.1	67950.0	-106008.0	-2999.0
1273.159	12284.8	219.2	-52568.9	124035.0	1405000.0	-3913.0
1273.160	10355.8	175.1	-45846.5	111204.0	1052000.0	-850.0
1273.161	11037.1	203.2	-46168.4	105364.0	1146000.0	-3784.0
1273.162	9108.1	159.0	-39377.6	92335.0	792569.0	-722.0
1273.163	8768.5	203.1	-36454.7	42364.0	1013000.0	-7529.0
1273.164	7517.5	188.8	-30290.1	23795.0	753844.0	-7404.0
1273.165	8324.2	222.8	-32552.0	1916.0	998280.9	-9469.0
1273.166	7071.8	208.1	-26178.1	-17287.0	739329.0	-9350.0
1273.167	10419.7	237.6	-43760.3	58824.0	1368000.0	-8936.0
1273.168	9168.7	222.5	-37612.1	40443.0	1108000.0	-8814.0
1273.169	8664.3	218.5	-34661.0	30716.0	306344.0	-7516.0
1273.170	7414.8	204.4	-28479.6	11993.0	47058.0	-7389.0
1273.171	10690.7	226.1	-42868.0	56415.0	1205000.0	-5220.0
1273.172	9440.9	212.1	-36584.5	37222.0	945876.0	-5094.0
1273.173	10176.5	156.3	-60436.7	186169.0	1054000.0	-2976.0
1273.174	8925.1	145.5	-54324.4	165445.0	793877.0	-2860.0
1273.175	10674.3	161.0	-73531.2	235469.0	1060000.0	-1900.0
1273.176	9421.4	148.7	-67320.7	215148.0	799963.0	-1793.0
1273.177	11827.0	189.5	-67437.5	202484.0	1411000.0	-4382.0
1273.178	10576.9	177.0	-61214.2	182273.0	1151000.0	-4263.0
1273.179	10070.6	173.3	-58627.3	173181.0	346819.0	-2969.0
1273.180	8818.0	162.5	-52540.0	152509.0	85947.0	-2864.0
1273.181	12092.9	180.2	-66505.4	198322.0	1246000.0	-673.0
1273.182	10844.0	168.5	-60369.0	178087.0	986033.0	-538.0
1273.183	4547.8	-53.9	-41220.7	175309.0	-46137.0	-196.0
1273.184	3299.9	-68.7	-34971.1	156637.0	-305682.0	-62.0
1273.185	4441.6	-38.7	-39342.4	163126.0	-753140.0	-192.0
1273.186	3193.5	-53.3	-33083.0	144360.0	-1013000.0	-59.0
1273.187	4661.8	-139.1	-55828.8	259781.0	-47637.0	-83.0
1273.188	3408.7	-157.6	-50067.4	244095.0	-308879.0	38.0
1273.189	6468.7	-29.3	-47792.8	188916.0	144714.0	2109.0
1273.190	5222.4	-44.0	-41563.3	170301.0	-114633.0	2242.0
1273.191	14476.7	179.1	-78044.7	244589.0	1769000.0	-16378.0
1273.192	13225.3	163.9	-71787.5	225896.0	1509000.0	-16255.0
1273.193	12031.8	121.6	-69050.1	227734.0	1321000.0	-12376.0
1273.194	10779.0	106.4	-62799.2	209148.0	1061000.0	-12255.0
1273.195	11927.1	136.4	-67186.9	215880.0	614689.0	-12364.0
1273.196	10671.5	120.9	-60974.7	197510.0	353328.0	-12257.0
1273.197	12137.1	38.2	-83534.0	310831.0	1318000.0	-12300.0
1273.198	10886.1	20.7	-77645.1	294368.0	1058000.0	-12172.0
1273.199	13943.7	141.9	-75955.8	244426.0	1509000.0	-10117.0
1273.200	12696.2	126.9	-69703.8	225621.0	1250000.0	-9984.0
1273.201	5629.3	-27.0	-41843.6	171852.0	82805.0	-4397.0
1273.202	4376.6	-44.4	-35876.3	154280.0	-177370.0	-4277.0
1273.203	5980.8	-17.0	-41757.2	168319.0	126087.0	-5784.0
1273.204	4730.6	-33.2	-35779.7	150557.0	-133802.0	-5654.0
1273.205	5523.3	-11.2	-39880.0	158885.0	-623943.0	-4396.0
1273.206	4273.0	-28.3	-33968.2	141395.0	-884172.0	-4268.0
1273.207	5735.4	-117.4	-57068.1	260349.0	79792.0	-4304.0

1273.208	4483.7	-135.2	-51074.8	243463.0	-180205.0	-4181.0
1273.209	7555.2	-3.2	-48445.8	185953.0	274011.0	-2094.0
1273.210	6305.6	-19.3	-42498.9	167769.0	13943.0	-1962.0
1273.211	9578.5	54.6	-63606.0	223988.0	1039000.0	-4504.0
1273.212	8331.2	39.1	-57451.8	205795.0	778765.0	-4393.0
1273.213	11226.0	87.8	-71094.6	241407.0	1394000.0	-5921.0
1273.214	9978.5	73.0	-64842.5	222814.0	1135000.0	-5788.0
1273.215	9473.2	68.7	-61813.4	212475.0	331983.0	-4504.0
1273.216	8226.3	53.2	-55657.9	194288.0	71469.0	-4391.0
1273.217	9697.1	-25.4	-77826.0	305379.0	1039000.0	-4405.0
1273.218	8449.1	-40.0	-71522.9	286340.0	779398.0	-4275.0
1273.219	11495.4	77.3	-69985.6	238004.0	1230000.0	-2200.0
1273.220	10247.8	62.0	-63804.0	219845.0	970013.9	-2078.0
1273.221	4181.1	144.2	-8161.4	-19406.0	-79043.0	-497.0
1273.222	2932.6	129.0	-1584.3	-39075.0	-337766.0	-369.0
1273.223	4075.0	160.0	-6313.5	-31754.0	-785807.0	-483.0
1273.224	2825.9	145.0	304.9	-51764.0	-1045000.0	-370.0
1273.225	4053.9	192.0	480.1	-68859.0	-98742.0	-593.0
1273.226	2805.4	177.3	7072.2	-88830.0	-357382.0	-464.0
1273.227	6101.3	164.3	-14674.5	-4199.0	111562.0	1801.0
1273.228	4853.7	148.8	-8125.0	-23750.0	-147500.0	1922.0
1273.229	14103.6	372.0	-42438.3	42646.0	1742000.0	-16736.0
1273.230	12853.9	360.4	-35851.7	21559.0	1483000.0	-16605.0
1273.231	11654.0	314.1	-33942.6	27836.0	1292000.0	-12747.0
1273.232	10412.1	302.1	-27445.8	7146.0	1035000.0	-12587.0
1273.233	11559.7	330.6	-32254.4	15618.0	586703.0	-12701.0
1273.234	10300.7	319.1	-25659.7	-5669.0	325978.0	-12602.0
1273.235	11527.0	363.9	-25239.2	-22732.0	1273000.0	-12840.0
1273.236	10276.4	352.4	-18667.7	-43906.0	1014000.0	-12710.0
1273.237	13578.2	336.2	-40336.1	41641.0	1483000.0	-10448.0
1273.238	12328.7	324.2	-33817.5	20861.0	1224000.0	-10315.0
1273.239	5264.9	182.0	-6763.2	-34530.0	55561.0	-4715.0
1273.240	4020.1	171.1	-14.0	-56374.0	-201413.0	-4570.0
1273.241	5622.6	197.6	-6007.7	-41470.0	101825.0	-6079.0
1273.242	4378.2	187.1	696.2	-63232.0	-155248.0	-5933.0
1273.243	5162.8	199.3	-4904.6	-47684.0	-651022.0	-4697.0
1273.244	3916.0	188.5	1804.7	-69379.0	-908366.0	-4561.0
1273.245	5137.0	232.5	1908.0	-85443.0	36025.0	-4811.0
1273.246	3892.1	221.8	8612.9	-107208.0	-221076.0	-4666.0
1273.247	7190.3	204.4	-13085.8	-21089.0	247490.0	-2414.0
1273.248	5945.4	193.9	-6303.1	-43143.0	-9360.0	-2269.0
1273.249	9213.7	245.5	-30400.5	31941.0	1007000.0	-4811.0
1273.250	7967.1	228.9	-23923.9	13263.0	747870.0	-4683.0
1273.251	10861.6	278.9	-37641.2	48480.0	1363000.0	-6226.0
1273.252	9614.3	261.8	-31203.6	30177.0	1103000.0	-6100.0
1273.253	9109.4	259.5	-28656.9	20745.0	299727.0	-4798.0
1273.254	7861.9	244.9	-22049.4	878.0	41580.0	-4657.0
1273.255	9086.7	291.8	-21888.1	-16347.0	986861.1	-4906.0
1273.256	7839.2	276.8	-15306.2	-36090.0	728116.0	-4779.0
1273.257	11129.9	267.2	-36533.5	45232.0	1198000.0	-2523.0
1273.258	9882.0	251.5	-29914.6	25624.0	939295.0	-2394.0
1273.401	-2313.8	-607.7	-893.1	1413000.0	748550.0	-4903.0
1273.402	-688.1	-418.7	-13289.7	1525000.0	1137000.0	-6937.0
1273.403	-4274.0	1553.9	139600.0	-249920.0	1639000.0	-8447.0
1273.404	-2658.2	1723.7	128100.0	-135792.0	2028000.0	-10545.0
1273.405	8955.6	-1378.1	-170300.0	69539.0	-524064.0	9263.0
1273.406	10525.0	-1179.8	-180500.0	170772.0	-132068.0	7130.0
1273.407	6846.2	757.5	-57477.5	-1470000.0	255737.0	5521.0
1273.408	8395.0	918.7	-68701.4	-1350000.0	637883.0	3278.0
1273.409	-2413.4	-1039.1	-13770.7	1700000.0	727880.0	-5034.0
1273.410	-779.7	-839.1	-26357.1	1807000.0	1116000.0	-7044.0
1273.411	-4185.8	1972.0	152300.0	-523908.0	1662000.0	-8318.0

1273.412	-2571.1	2140.1	140800.0	-409103.0	2050000.0	-10419.0
1273.413	8794.3	-1777.4	-183100.0	333268.0	-566370.0	8867.0
1273.414	10350.3	-1585.6	-193400.0	437675.0	-178786.0	6666.0
1273.415	6965.1	1161.6	-45929.7	-1733000.0	281789.0	5749.0
1273.416	8509.6	1320.6	-57125.2	-1612000.0	662402.0	3485.0
1273.417	-4323.3	-1727.5	-31302.7	1421000.0	1078000.0	-6320.0
1273.418	-2703.1	-1549.3	-43214.5	1536000.0	1468000.0	-8370.0
1273.419	-6323.6	372.5	108100.0	-196353.0	1969000.0	-9910.0
1273.420	-4709.7	540.2	96991.5	-82252.0	2360000.0	-12006.0
1273.421	11144.8	-239.4	-181400.0	132616.0	-957148.1	11040.0
1273.422	12722.7	-38.7	-191200.0	232427.0	-564104.0	8909.0
1273.423	9048.4	1946.6	-66185.5	-1441000.0	-187514.0	7186.0
1273.424	10617.4	2106.4	-77263.0	-1319000.0	198101.0	4996.0
1273.425	-4404.4	-2144.1	-45295.7	1698000.0	1052000.0	-6411.0
1273.426	-2784.7	-1965.8	-57196.1	1813000.0	1442000.0	-8465.0
1273.427	-6241.8	785.1	120400.0	-465920.0	1990000.0	-9805.0
1273.428	-4628.2	952.8	109300.0	-351882.0	2381000.0	-11903.0
1273.429	11048.0	-654.9	-193300.0	402383.0	-998101.0	10757.0
1273.430	12636.9	-446.5	-202800.0	498014.0	-601304.0	8663.0
1273.431	9201.5	2352.5	-55078.7	-1703000.0	-136180.0	7766.0
1273.432	10779.7	2517.4	-65828.8	-1584000.0	254202.0	5629.0
1273.433	3880.9	-3518.1	-224600.0	2987000.0	-747843.0	4401.0
1273.434	5479.0	-3290.4	-235500.0	3075000.0	-357665.0	2322.0
1273.435	-2696.3	3676.1	243400.0	-2540000.0	2202000.0	-7393.0
1273.436	-1080.2	3857.0	231600.0	-2427000.0	2592000.0	-9472.0
1273.437	7533.3	-3873.7	-259500.0	2553000.0	-1061000.0	8859.0
1273.438	9137.3	-3645.2	-268800.0	2638000.0	-665987.0	6810.0
1273.439	529.7	3333.4	160100.0	-2784000.0	1688000.0	-3411.0
1273.440	2111.3	3502.5	146400.0	-2664000.0	2066000.0	-5595.0
1273.441	3400.4	-3575.0	-220300.0	2824000.0	-599798.0	4364.0
1273.442	5020.6	-3380.1	-231500.0	2931000.0	-209637.0	2325.0
1273.443	-3356.5	3309.6	234400.0	-2521000.0	2303000.0	-7925.0
1273.444	-1753.1	3475.2	223300.0	-2407000.0	2694000.0	-10060.0
1273.445	8020.1	-3828.2	-266600.0	2726000.0	-1219000.0	8834.0
1273.446	9624.6	-3573.6	-275700.0	2795000.0	-822595.0	6792.0
1273.447	1212.5	3677.4	157800.0	-2766000.0	1554000.0	-2877.0
1273.448	2794.7	3846.3	144100.0	-2645000.0	1932000.0	-5054.0
1273.449	3548.2	-4799.3	-262800.0	3847000.0	-809453.0	3927.0
1273.450	5156.5	-4574.7	-274100.0	3937000.0	-420309.0	1850.0
1273.451	-2501.7	5068.1	281600.0	-3438000.0	2267000.0	-7126.0
1273.452	-909.7	5235.7	267700.0	-3317000.0	2647000.0	-9280.0
1273.453	7046.8	-5096.0	-299800.0	3380000.0	-1178000.0	8068.0
1273.454	8660.8	-4883.6	-308100.0	3473000.0	-780511.0	6015.0
1273.455	840.9	4724.9	197300.0	-3680000.0	1771000.0	-2791.0
1273.456	2414.4	4892.4	183400.0	-3558000.0	2150000.0	-4959.0
1273.457	3031.9	-4945.8	-264600.0	3744000.0	-675769.0	3823.0
1273.458	4637.8	-4773.3	-277700.0	3867000.0	-293523.0	1733.0
1273.459	-3137.0	4695.5	276300.0	-3426000.0	2377000.0	-7648.0
1273.460	-1544.7	4865.2	265500.0	-3314000.0	2769000.0	-9805.0
1273.461	7536.9	-5106.3	-305500.0	3583000.0	-1337000.0	8046.0
1273.462	9127.6	-4855.4	-315400.0	3655000.0	-944667.0	5950.0
1273.463	1494.1	5070.4	195400.0	-3664000.0	1645000.0	-2260.0
1273.464	3063.5	5238.5	181500.0	-3543000.0	2023000.0	-4438.0
1273.529	-377.7	-1194.7	-42939.8	877088.9	-177625.0	2402.0
1273.530	5031.8	-541.4	-83845.1	1244000.0	1122000.0	-4359.0
1273.531	-2309.9	982.3	95047.2	-779245.0	707114.0	-994.0
1273.532	3054.4	1526.5	57028.1	-390766.0	2004000.0	-8056.0
1273.533	3113.3	-1620.8	-91628.6	541189.0	-546539.0	6690.0
1273.534	8394.4	-881.5	-121700.0	833224.0	771881.0	-295.0
1273.535	1028.2	702.9	29324.1	-1108000.0	268720.0	3191.0
1273.536	6250.5	1267.6	-8369.1	-722209.0	1551000.0	-4152.0
1273.537	-471.7	-1610.3	-55924.3	1153000.0	-199644.0	2272.0

1273.538	4933.2	-963.6	-96971.1	1526000.0	1100000.0	-4500.0
1273.539	-2245.5	1398.7	107700.0	-1052000.0	730607.0	-912.0
1273.540	3128.2	1944.0	69865.0	-663882.0	2027000.0	-7959.0
1273.541	2958.2	-1991.2	-104200.0	790808.0	-585471.0	6431.0
1273.542	8259.3	-1252.2	-132900.0	1081000.0	734456.0	-582.0
1273.543	1154.6	1106.8	40824.0	-1371000.0	297972.0	3464.0
1273.544	6370.3	1675.1	1498.2	-981605.0	1582000.0	-3807.0
1273.545	-952.5	-1490.2	-52333.6	854238.0	-82091.0	2033.0
1273.546	4465.2	-827.3	-90532.6	1217000.0	1231000.0	-4668.0
1273.547	-2949.6	618.8	85700.9	-759407.0	807008.0	-1494.0
1273.548	2428.2	1169.3	48089.1	-374079.0	2106000.0	-8492.0
1273.549	3706.8	-1388.9	-96508.9	614796.0	-689830.0	7012.0
1273.550	9034.9	-521.7	-123100.0	838526.0	650836.0	166.0
1273.551	1708.3	1059.5	25723.0	-1097000.0	133663.0	3736.0
1273.552	6944.4	1624.6	-10632.9	-711679.0	1419000.0	-3594.0
1273.553	-1035.2	-1895.3	-64807.1	1123000.0	-102306.0	1938.0
1273.554	4385.9	-1226.7	-103100.0	1483000.0	1211000.0	-4759.0
1273.555	-2867.0	1033.9	98096.6	-1030000.0	828573.1	-1382.0
1273.556	2505.2	1581.5	60542.8	-644191.0	2127000.0	-8400.0
1273.557	3600.7	-1771.8	-108200.0	870734.9	-724674.0	6836.0
1273.558	8913.2	-928.7	-135200.0	1108000.0	610623.0	-99.0
1273.559	1807.4	1464.6	36852.2	-1360000.0	165398.0	3998.0
1273.560	7054.3	2026.3	197.8	-970923.1	1459000.0	-3197.0
1285.1	-1309.4	26.4	-15219.8	-54771.0	-356555.0	-3654.0
1285.2	-878.8	27.2	-10592.5	-34420.0	-562789.0	-2362.0
1285.3	-1193.7	48.9	-14674.9	-43012.0	-1108000.0	-3149.0
1285.4	-763.8	49.0	-10075.1	-23109.0	-1315000.0	-1857.0
1285.5	-1892.6	35.7	-22030.1	-78755.0	-279826.0	-2851.0
1285.6	-1461.2	36.4	-17407.2	-58503.0	-486968.0	-1573.0
1285.7	-4559.3	68.5	-51368.8	-185126.0	905540.1	-29366.0
1285.8	-4126.5	64.9	-46764.5	-167020.0	697309.0	-28100.0
1285.9	-3758.1	59.5	-42557.8	-152660.0	594025.0	-23018.0
1285.10	-3327.3	57.2	-37785.7	-133292.0	386584.0	-21741.0
1285.11	-3644.9	78.9	-42007.5	-142222.0	-159990.0	-22512.0
1285.12	-3211.4	75.9	-37353.5	-123686.0	-366549.0	-21244.0
1285.13	-4342.0	66.8	-49520.3	-178060.0	667238.0	-22238.0
1285.14	-3909.0	63.1	-44864.2	-159792.0	459244.0	-20972.0
1285.15	-1627.8	26.1	-19105.9	-70702.0	-233961.0	-6112.0
1285.16	-995.7	24.1	-11348.9	-39946.0	-476982.0	-1139.0
1285.17	-1196.1	27.8	-14480.3	-49973.0	-440922.0	-4835.0
1285.18	-565.6	25.1	-6707.2	-19504.0	-683556.0	154.0
1285.19	-1838.1	26.7	-21749.9	-81168.0	-153394.0	-7773.0
1285.20	-786.7	22.5	-8767.0	-30078.0	-557426.0	537.0
1285.21	-1406.3	28.6	-17100.5	-60278.0	-360579.0	-6499.0
1285.22	-356.4	23.6	-4113.7	-9564.0	-763566.0	1828.0
1285.23	-1511.4	49.5	-18544.2	-58514.0	-985775.0	-5617.0
1285.24	-880.4	47.1	-10825.9	-28059.0	-1229000.0	-635.0
1285.25	-1079.9	50.1	-13898.7	-38206.0	-1193000.0	-4339.0
1285.26	-449.7	47.6	-6164.3	-7822.0	-1435000.0	655.0
1285.27	-2207.9	37.0	-26006.6	-94333.0	-159777.0	-5352.0
1285.28	-1577.2	34.4	-18074.1	-63278.0	-400311.0	-354.0
1285.29	-1784.3	37.5	-21544.6	-74601.0	-370770.0	-4039.0
1285.30	-1145.2	35.4	-13476.5	-42982.0	-607802.0	919.0
1285.31	-4875.6	68.6	-55392.9	-201361.0	1025000.0	-31858.0
1285.32	-4243.5	67.9	-47448.6	-169404.0	784014.0	-26878.0
1285.33	-4442.4	65.1	-50739.9	-183077.0	818611.0	-30588.0
1285.34	-3809.9	64.4	-42783.3	-151037.0	577370.0	-25611.0
1285.35	-4287.5	60.1	-49306.7	-179703.0	791530.0	-27166.0
1285.36	-3231.4	59.1	-35780.9	-125429.0	394344.0	-18862.0
1285.37	-3851.8	57.1	-44516.3	-160638.0	587456.0	-25903.0
1285.38	-2800.1	56.9	-31093.4	-106263.0	186816.0	-17586.0
1285.39	-4074.4	60.0	-46539.5	-168608.0	714022.0	-25509.0

1285.40	-3442.1	59.3	-38487.6	-136254.0	474247.0	-20525.0
1285.41	-3641.0	57.0	-41819.3	-149748.0	507556.0	-24241.0
1285.42	-3011.0	57.0	-33771.0	-117081.0	266734.0	-19248.0
1285.43	-3962.1	79.0	-46065.6	-158568.0	-40004.0	-24997.0
1285.44	-3327.1	78.8	-37930.6	-125804.0	-278929.0	-20027.0
1285.45	-3528.8	76.0	-41395.8	-140053.0	-246538.0	-23727.0
1285.46	-2893.8	75.8	-33284.9	-107276.0	-485508.0	-18757.0
1285.47	-4658.1	67.0	-53534.9	-194237.0	787118.0	-24732.0
1285.48	-4026.4	66.6	-45526.3	-161947.0	545914.0	-19747.0
1285.49	-4225.0	63.1	-48869.2	-176026.0	580495.0	-23461.0
1285.50	-3591.8	63.1	-40825.7	-143422.0	339088.0	-18489.0
1285.51	-1361.1	-243.1	-8446.1	-162438.0	-253566.0	-3630.0
1285.52	-926.1	-238.2	-3074.0	-138628.0	-456091.0	-2361.0
1285.53	-1382.0	-419.0	-2620.0	-230139.0	-175796.0	-3682.0
1285.54	-945.9	-413.0	2400.9	-206612.0	-379324.0	-2422.0
1285.55	-1246.9	-214.7	-7568.0	-147006.0	-1005000.0	-3121.0
1285.56	-812.1	-209.5	-2206.8	-123038.0	-1207000.0	-1851.0
1285.57	-1945.2	-233.4	-15785.5	-188165.0	-182124.0	-2848.0
1285.58	-1511.3	-227.7	-10592.8	-164466.0	-385754.0	-1571.0
1285.59	-4612.4	-206.1	-45875.0	-300873.0	1002000.0	-29317.0
1285.60	-4176.5	-201.8	-40752.1	-278059.0	798277.0	-28066.0
1285.61	-3809.9	-218.3	-36912.4	-269088.0	691313.0	-22987.0
1285.62	-3375.0	-214.0	-31753.2	-246209.0	487802.0	-21727.0
1285.63	-3832.7	-394.6	-31506.5	-338292.0	766735.0	-23059.0
1285.64	-3396.8	-387.8	-26147.3	-313543.0	563733.0	-21803.0
1285.65	-3695.1	-190.6	-36114.8	-254239.0	-59951.0	-22485.0
1285.66	-3260.5	-185.7	-30932.8	-230960.0	-263524.0	-21221.0
1285.67	-4393.9	-205.0	-43952.1	-292110.0	763918.0	-22202.0
1285.68	-3960.3	-201.4	-38902.2	-269873.0	560114.0	-20925.0
1285.69	-1264.9	158.1	-20045.1	-11280.0	-450314.0	-6325.0
1285.70	-835.0	158.3	-16214.0	5800.0	-658890.0	-5013.0
1285.71	-1239.3	251.1	-25292.6	12577.0	-518695.0	-8038.0
1285.72	-807.4	252.6	-21190.1	31003.0	-724353.0	-6736.0
1285.73	-1147.3	173.5	-19655.0	-3201.0	-1202000.0	-5836.0
1285.74	-716.0	173.3	-15733.7	13986.0	-1410000.0	-4526.0
1285.75	-1839.2	160.8	-27055.1	-38795.0	-377295.0	-5620.0
1285.76	-1409.3	160.9	-23240.2	-21820.0	-586184.0	-4312.0
1285.77	-4456.3	174.6	-57101.3	-156509.0	810753.0	-32468.0
1285.78	-4029.3	173.9	-53735.2	-141291.0	599155.0	-31150.0
1285.79	-3671.3	169.6	-48252.2	-122059.0	498073.0	-26009.0
1285.80	-3242.0	170.1	-44642.7	-105457.0	288411.0	-24698.0
1285.81	-3647.5	265.5	-53664.6	-97057.0	428699.0	-27721.0
1285.82	-3218.4	266.2	-49910.3	-79889.0	219915.0	-26406.0
1285.83	-3555.7	184.4	-47950.9	-114535.0	-254389.0	-25507.0
1285.84	-3126.3	184.7	-44379.9	-98170.0	-464167.0	-24197.0
1285.85	-4241.5	172.7	-54791.2	-147987.0	573483.0	-25322.0
1285.86	-3812.3	172.7	-51276.8	-131981.0	363420.0	-24012.0
1285.87	-2923.4	88.7	-26770.7	-78142.0	470275.0	-11323.0
1285.88	-2490.1	84.4	-22230.0	-60833.0	263594.0	-10048.0
1285.89	-3448.5	104.5	-30722.0	-88871.0	740909.0	-13851.0
1285.90	-3014.8	97.9	-26060.8	-72622.0	534797.0	-12583.0
1285.91	-2808.0	106.9	-26326.2	-68751.0	-282833.0	-10825.0
1285.92	-2375.4	102.8	-21748.7	-51212.0	-489828.0	-9550.0
1285.93	-3505.0	94.4	-33881.7	-104857.0	542938.0	-10555.0
1285.94	-3071.6	89.5	-29252.9	-87668.0	336465.0	-9284.0
1285.95	-3241.0	89.2	-30818.8	-94327.0	589853.0	-13807.0
1285.96	-2607.2	88.8	-22645.9	-61487.0	350773.0	-8827.0
1285.97	-2807.6	84.0	-26277.9	-77524.0	382611.0	-12538.0
1285.98	-2174.0	84.9	-18152.5	-44004.0	143619.0	-7556.0
1285.99	-3452.0	89.3	-33535.1	-105303.0	669662.0	-15469.0
1285.100	-2396.8	88.4	-19988.8	-50866.0	270433.0	-7164.0
1285.101	-3018.6	83.9	-28956.6	-88494.0	462371.0	-14200.0

1285.102	-1962.5	84.8	-15452.1	-33091.0	63999.0	-5899.0
1285.103	-3766.1	104.3	-34759.1	-105476.0	860366.0	-16337.0
1285.104	-3132.3	105.2	-26612.3	-71868.0	621337.0	-11357.0
1285.105	-3332.2	97.5	-30103.4	-89288.0	654364.0	-15067.0
1285.106	-2698.6	98.4	-21976.6	-55757.0	414815.0	-10091.0
1285.107	-3125.8	107.0	-30414.5	-85266.0	-163570.0	-13309.0
1285.108	-2490.1	107.0	-22187.2	-51970.0	-401675.0	-8342.0
1285.109	-2692.4	102.6	-25773.3	-67762.0	-370074.0	-12037.0
1285.110	-2057.2	103.3	-17572.5	-34107.0	-608296.0	-7067.0
1285.111	-3821.4	94.8	-37907.9	-121065.0	662754.0	-13049.0
1285.112	-3188.7	94.2	-29849.2	-88611.0	423107.0	-8062.0
1285.113	-3387.8	89.1	-33371.7	-104556.0	455929.0	-11778.0
1285.114	-2755.6	89.8	-25216.6	-71071.0	216718.0	-6787.0
1285.115	-2965.6	-160.7	-19557.1	-177603.0	578559.0	-11356.0
1285.116	-2530.4	-152.9	-14306.0	-152417.0	375429.0	-10091.0
1285.117	-2986.7	-332.0	-13734.7	-242692.0	655665.0	-11415.0
1285.118	-2551.1	-326.1	-8360.8	-218207.0	452996.0	-10148.0
1285.119	-3490.6	-133.2	-23223.4	-182377.0	850984.9	-13889.0
1285.120	-3056.0	-124.6	-17990.9	-156682.0	647878.0	-12619.0
1285.121	-2851.4	-132.1	-18743.2	-162292.0	-172825.0	-10849.0
1285.122	-2416.6	-124.0	-13510.8	-136960.0	-376207.0	-9581.0
1285.123	-3548.2	-150.7	-26871.7	-203102.0	650286.0	-10585.0
1285.124	-3114.3	-143.4	-21579.4	-178253.0	446862.0	-9312.0
1285.125	-2856.8	210.8	-34518.5	-48784.0	367817.0	-14126.0
1285.126	-2427.4	211.4	-30772.9	-31779.0	158621.0	-12816.0
1285.127	-2831.2	304.2	-39846.9	-25230.0	298877.0	-15851.0
1285.128	-2401.7	306.6	-36026.9	-6923.0	89946.0	-14540.0
1285.129	-3376.7	227.8	-39255.2	-61173.0	635510.0	-16692.0
1285.130	-2947.8	229.9	-35372.9	-42988.0	426806.0	-15378.0
1285.131	-2740.1	225.5	-34269.9	-41475.0	-385096.0	-13634.0
1285.132	-2310.7	227.8	-30323.2	-22958.0	-593377.0	-12324.0
1285.133	-3428.8	211.7	-41586.9	-77408.0	441002.0	-13431.0
1285.134	-2999.3	212.9	-37829.6	-60063.0	231497.0	-12125.0
1285.135	-1698.3	-17.0	-25833.4	-114559.0	-309385.0	-10347.0
1285.136	-1267.3	-16.3	-21254.4	-94427.0	-515758.0	-9056.0
1285.137	-1826.1	-31.5	-29367.8	-134449.0	-294205.0	-12534.0
1285.138	-1395.3	-30.9	-24777.4	-114315.0	-500209.0	-11238.0
1285.139	-1581.9	6.1	-25342.1	-102719.0	-1061000.0	-9845.0
1285.140	-1151.7	6.6	-20759.8	-82668.0	-1267000.0	-8552.0
1285.141	-2275.5	-4.3	-32797.1	-137538.0	-235097.0	-9610.0
1285.142	-1844.9	-4.2	-28340.2	-118080.0	-442227.0	-8320.0
1285.143	-2011.7	-14.5	-29706.1	-129220.0	-188568.0	-12862.0
1285.144	-1384.9	-20.5	-21995.5	-100415.0	-429693.0	-7825.0
1285.145	-1581.5	-13.4	-25114.9	-108913.0	-395204.0	-11568.0
1285.146	-954.9	-19.4	-17394.0	-80051.0	-636361.0	-6529.0
1285.147	-2220.8	-12.7	-32297.5	-138982.0	-107996.0	-14537.0
1285.148	-1177.1	-22.6	-19481.4	-91066.0	-510751.0	-6140.0
1285.149	-1790.5	-11.6	-27746.0	-118774.0	-314755.0	-13243.0
1285.150	-746.7	-21.2	-14864.0	-70524.0	-717420.0	-4850.0
1285.151	-2139.4	-28.8	-33269.7	-149134.0	-173427.0	-15048.0
1285.152	-1512.1	-34.4	-25517.8	-120040.0	-414475.0	-10017.0
1285.153	-1709.1	-27.2	-28720.8	-128702.0	-380117.0	-13754.0
1285.154	-1082.0	-33.5	-20920.0	-99771.0	-621229.0	-8723.0
1285.155	-1896.4	8.4	-29231.4	-117550.0	-940271.0	-12353.0
1285.156	-1268.9	2.9	-21517.8	-88476.0	-1182000.0	-7325.0
1285.157	-1465.2	8.8	-24637.0	-97522.0	-1147000.0	-11065.0
1285.158	-839.6	3.9	-16915.4	-68187.0	-1389000.0	-6028.0
1285.159	-2589.0	-2.2	-36775.6	-152737.0	-114600.0	-12123.0
1285.160	-1961.9	-6.4	-28888.6	-122540.0	-355779.0	-7098.0
1285.161	-2158.4	-2.2	-32367.8	-133451.0	-321831.0	-10832.0
1285.162	-1531.5	-6.2	-24351.2	-102797.0	-562681.0	-5806.0
1285.163	-1773.3	-298.4	-20679.2	-231875.0	-217767.0	-10156.0

1285.164	-1337.7	-296.3	-15543.4	-209913.0	-421479.0	-8898.0
1285.165	-1794.5	-481.3	-15291.5	-303911.0	-142877.0	-10226.0
1285.166	-1358.7	-478.0	-10039.8	-281120.0	-345889.0	-8969.0
1285.167	-1907.5	-314.1	-24711.3	-253547.0	-205947.0	-12298.0
1285.168	-1472.1	-312.3	-19376.9	-231089.0	-408975.0	-11040.0
1285.169	-1657.9	-272.4	-19965.9	-218038.0	-969638.9	-9658.0
1285.170	-1223.2	-270.3	-14827.8	-196043.0	-1173000.0	-8393.0
1285.171	-2355.0	-288.6	-28262.2	-258265.0	-146446.0	-9384.0
1285.172	-1920.2	-285.8	-22925.5	-235339.0	-349635.0	-8122.0
1285.173	-1656.2	115.8	-29049.3	-65218.0	-398761.0	-13035.0
1285.174	-1226.4	116.4	-25197.7	-47692.0	-607771.0	-11728.0
1285.175	-1629.7	208.2	-34301.0	-41484.0	-467956.0	-14766.0
1285.176	-1199.5	209.0	-30461.6	-23937.0	-676575.0	-13457.0
1285.177	-1783.9	104.1	-32412.7	-83483.0	-383062.0	-15230.0
1285.178	-1354.3	102.5	-28166.5	-65501.0	-590768.0	-13924.0
1285.179	-1539.1	131.2	-28680.6	-57189.0	-1151000.0	-12549.0
1285.180	-1109.5	131.7	-24832.0	-39736.0	-1360000.0	-11239.0
1285.181	-2228.3	116.9	-36095.5	-93732.0	-326067.0	-12342.0
1285.182	-1798.4	118.1	-32205.9	-75783.0	-534540.0	-11035.0
1285.183	-829.6	-161.6	-38611.5	-214349.0	-200097.0	-3733.0
1285.184	-399.8	-160.3	-33856.5	-193527.0	-405875.0	-2434.0
1285.185	-714.2	-138.6	-37946.8	-202092.0	-951468.0	-3231.0
1285.186	-283.6	-137.2	-33204.8	-181201.0	-1158000.0	-1941.0
1285.187	-508.9	-281.6	-54291.1	-319093.0	-95443.0	-3786.0
1285.188	-79.7	-266.0	-50134.7	-293951.0	-302475.0	-2468.0
1285.189	-1411.2	-153.5	-45620.2	-239761.0	-124665.0	-2948.0
1285.190	-979.7	-152.1	-40905.9	-219011.0	-331954.0	-1672.0
1285.191	-4080.1	-116.1	-74517.9	-343232.0	1062000.0	-29448.0
1285.192	-3647.0	-118.0	-69920.2	-324742.0	854934.9	-28178.0
1285.193	-3280.6	-127.4	-65694.6	-311559.0	749989.0	-23089.0
1285.194	-2846.4	-128.4	-61034.0	-292395.0	543435.0	-21829.0
1285.195	-3164.3	-103.2	-64890.1	-298249.0	-1454.0	-22600.0
1285.196	-2730.0	-105.5	-60298.5	-279897.0	-207441.0	-21333.0
1285.197	-2954.9	-259.7	-81349.3	-422274.0	855590.1	-23177.0
1285.198	-2522.5	-250.1	-76830.2	-398834.0	649493.0	-21892.0
1285.199	-3858.8	-116.9	-72515.1	-335157.0	825661.1	-22336.0
1285.200	-3425.9	-119.8	-67933.1	-317076.0	618827.0	-21063.0
1285.201	-2442.0	-84.6	-50163.9	-232482.0	628210.0	-11397.0
1285.202	-2007.5	-86.4	-46487.6	-217170.0	419959.0	-10124.0
1285.203	-2965.4	-69.4	-54634.1	-245733.0	898038.0	-13937.0
1285.204	-2531.9	-72.9	-50884.4	-230722.0	689411.0	-12653.0
1285.205	-2324.3	-66.1	-49651.6	-222846.0	-123708.0	-10914.0
1285.206	-1891.0	-69.4	-45966.3	-208175.0	-332617.0	-9635.0
1285.207	-2118.7	-193.9	-66959.7	-336209.0	731296.0	-11449.0
1285.208	-1684.2	-194.4	-63319.6	-320056.0	521985.0	-10178.0
1285.209	-3022.8	-82.3	-56926.4	-259642.0	702401.0	-10638.0
1285.210	-2590.1	-83.5	-53270.7	-244313.0	493138.0	-9354.0
1285.211	-1217.1	-209.0	-49788.0	-277844.0	-154066.0	-10426.0
1285.212	-789.0	-208.0	-45165.7	-257547.0	-361505.0	-9121.0
1285.213	-1344.6	-222.4	-53315.7	-297217.0	-138844.0	-12615.0
1285.214	-914.8	-221.9	-48653.3	-276968.0	-345204.0	-11316.0
1285.215	-1102.5	-186.2	-49156.8	-265732.0	-905851.0	-9920.0
1285.216	-674.3	-185.2	-44525.7	-245355.0	-1113000.0	-8616.0
1285.217	-899.3	-334.4	-65462.8	-384794.0	-51072.0	-10466.0
1285.218	-469.2	-334.9	-60777.8	-364997.0	-257418.0	-9175.0
1285.219	-1792.8	-195.3	-56838.7	-300721.0	-80500.0	-9705.0
1285.220	-1363.3	-193.7	-52172.9	-280021.0	-287370.0	-8409.0
1285.221	-1775.7	125.3	-4951.1	22312.0	-557043.0	-3600.0
1285.222	-1345.2	124.5	-357.3	41849.0	-763561.0	-2308.0
1285.223	-1659.7	145.7	-4462.6	32989.0	-1309000.0	-3098.0
1285.224	-1229.8	144.5	78.5	52127.0	-1516000.0	-1805.0
1285.225	-2086.4	189.2	1747.5	72324.0	-691268.0	-3566.0

1285.226	-1655.9	187.6	6324.4	91405.0	-897895.0	-2274.0
1285.227	-2358.1	132.6	-11850.7	-2838.0	-480832.0	-2805.0
1285.228	-1927.2	132.1	-7279.0	16710.0	-688416.0	-1524.0
1285.229	-5025.7	162.7	-40702.2	-108661.0	705967.0	-29318.0
1285.230	-4592.6	158.0	-36200.1	-91402.0	498649.0	-28048.0
1285.231	-4224.2	154.7	-31958.6	-76019.0	394375.0	-22972.0
1285.232	-3793.5	150.2	-27386.0	-58273.0	186130.0	-21693.0
1285.233	-4110.8	172.8	-31583.9	-66749.0	-360266.0	-22468.0
1285.234	-3675.4	167.4	-26864.1	-48991.0	-565070.0	-21206.0
1285.235	-4534.8	216.1	-25274.7	-27119.0	259940.0	-22940.0
1285.236	-4101.3	211.0	-20652.2	-9538.0	53086.0	-21674.0
1285.237	-4806.6	160.6	-38929.6	-102039.0	468129.0	-22198.0
1285.238	-4373.7	155.9	-34310.4	-84362.0	261114.0	-20928.0
1285.239	-3388.6	178.7	-16468.6	-4652.0	269467.0	-11279.0
1285.240	-2955.5	174.9	-11852.8	13185.0	62892.0	-10004.0
1285.241	-3914.1	195.8	-20285.8	-14304.0	540360.0	-13806.0
1285.242	-3481.0	192.0	-15661.4	3498.0	333693.0	-12532.0
1285.243	-3273.3	196.6	-15997.4	4702.0	-483468.0	-10781.0
1285.244	-2838.6	193.0	-11335.7	22714.0	-689569.0	-9518.0
1285.245	-3698.7	238.7	-9632.6	44192.0	135521.0	-11252.0
1285.246	-3265.6	234.9	-4958.1	62217.0	-70884.0	-9977.0
1285.247	-3970.2	184.7	-23473.3	-30909.0	342380.0	-10513.0
1285.248	-3537.5	180.3	-18964.8	-13733.0	135479.0	-9235.0
1285.249	-2165.2	83.7	-15611.3	-36855.0	-509754.0	-10287.0
1285.250	-1734.7	83.7	-11173.3	-17550.0	-717278.0	-8998.0
1285.251	-2293.1	69.6	-19149.0	-56565.0	-494572.0	-12472.0
1285.252	-1863.0	70.1	-14697.2	-37040.0	-701785.0	-11178.0
1285.253	-2049.3	105.6	-15235.9	-25957.0	-1262000.0	-9786.0
1285.254	-1618.0	104.5	-10721.4	-6841.0	-1469000.0	-8499.0
1285.255	-2476.4	148.0	-9044.0	12868.0	-644274.0	-10247.0
1285.256	-2045.7	147.1	-4571.8	31897.0	-851640.1	-8959.0
1285.257	-2742.0	94.0	-22557.5	-60845.0	-435808.0	-9556.0
1285.258	-2311.4	93.6	-18083.3	-41562.0	-642850.0	-8266.0
1285.401	839.0	-1522.8	-14447.4	159466.0	1073000.0	-11396.0
1285.402	275.0	-1416.3	-25540.7	5987.0	1298000.0	-14675.0
1285.403	247.4	-2333.3	120300.0	405586.0	1524000.0	-7503.0
1285.404	-314.8	-2241.4	109800.0	246237.0	1752000.0	-10805.0
1285.405	-1676.6	1657.2	-142600.0	-690244.0	-629620.0	4479.0
1285.406	-2223.5	1779.4	-148300.0	-824630.0	-381118.0	1101.0
1285.407	-2292.6	1155.6	37526.9	-149990.0	1612.0	8564.0
1285.408	-2837.8	1286.0	32269.5	-277201.0	251749.0	5169.0
1285.409	834.7	-1398.1	-19029.2	15528.0	1052000.0	-11325.0
1285.410	268.6	-1296.3	-30072.0	-141454.0	1277000.0	-14592.0
1285.411	252.5	-2424.4	125200.0	571055.0	1546000.0	-7553.0
1285.412	-309.5	-2333.0	114600.0	411528.0	1774000.0	-10856.0
1285.413	-1690.4	1774.5	-147900.0	-845471.0	-648985.0	4662.0
1285.414	-2235.6	1896.2	-153700.0	-980409.0	-400829.0	1273.0
1285.415	-2278.7	1041.3	43804.3	9357.0	24726.0	8387.0
1285.416	-2823.8	1172.9	38565.7	-117357.0	275182.0	4993.0
1285.417	755.8	-2667.8	13276.6	52559.0	1306000.0	-15029.0
1285.418	192.4	-2568.7	1288.8	-106337.0	1529000.0	-18307.0
1285.419	164.7	-3390.5	150100.0	360036.0	1769000.0	-11045.0
1285.420	-398.0	-3302.2	138800.0	197121.0	1995000.0	-14336.0
1285.421	-1555.3	2073.9	-195800.0	-1031000.0	-967321.0	7834.0
1285.422	-2101.8	2187.1	-201600.0	-1169000.0	-720779.0	4429.0
1285.423	-2194.8	1618.8	-18453.1	-488756.0	-344631.0	12006.0
1285.424	-2739.8	1735.7	-23837.0	-620718.0	-96762.0	8572.0
1285.425	741.2	-2568.3	10097.3	-104410.0	1292000.0	-14876.0
1285.426	177.8	-2469.8	-1986.1	-263840.0	1514000.0	-18154.0
1285.427	177.9	-3468.0	155900.0	535572.0	1792000.0	-11186.0
1285.428	-384.7	-3380.2	144400.0	372140.0	2018000.0	-14477.0
1285.429	-1583.3	2182.9	-202800.0	-1193000.0	-995805.0	7948.0

1285.430	-2130.2	2293.7	-208600.0	-1332000.0	-749156.0	4537.0
1285.431	-2175.9	1509.4	-11037.1	-323628.0	-316381.0	11901.0
1285.432	-2721.5	1629.5	-16259.5	-454244.0	-67967.0	8485.0
1285.433	720.8	272.5	-259600.0	-626379.0	-245856.0	-10995.0
1285.434	161.4	423.1	-267800.0	-757932.0	-340.0	-14286.0
1285.435	-1368.7	-1668.8	252500.0	729372.0	1528000.0	2674.0
1285.436	-1931.8	-1566.0	243000.0	577839.0	1755000.0	-611.0
1285.437	-70.9	1264.0	-311200.0	-952095.0	-810558.0	-5939.0
1285.438	-624.6	1397.6	-318000.0	-1088000.0	-560388.0	-9284.0
1285.439	-2125.0	-526.4	262600.0	709836.0	1199000.0	7608.0
1285.440	-2672.4	-468.9	251100.0	529278.0	1423000.0	4223.0
1285.441	623.3	250.1	-237700.0	-507356.0	-124779.0	-11585.0
1285.442	53.0	437.1	-247200.0	-625921.0	113096.0	-14793.0
1285.443	-1379.1	-1992.9	261600.0	714172.0	1598000.0	1662.0
1285.444	-1935.6	-1902.0	251000.0	554578.0	1824000.0	-1661.0
1285.445	31.8	1220.9	-324900.0	-1072000.0	-906226.9	-5488.0
1285.446	-529.2	1386.5	-333800.0	-1205000.0	-660791.0	-8741.0
1285.447	-2103.6	-306.4	253800.0	669495.0	1129000.0	8517.0
1285.448	-2652.0	-243.6	242500.0	492051.0	1354000.0	5143.0
1285.449	708.9	514.1	-282400.0	-1219000.0	-342038.0	-10800.0
1285.450	145.8	664.2	-290600.0	-1351000.0	-99322.0	-14089.0
1285.451	-1315.0	-1938.8	276400.0	1321000.0	1618000.0	2463.0
1285.452	-1871.6	-1871.4	266500.0	1150000.0	1848000.0	-832.0
1285.453	-111.0	1539.0	-333700.0	-1528000.0	-899595.0	-5657.0
1285.454	-657.0	1636.3	-338500.0	-1671000.0	-649010.0	-9101.0
1285.455	-2071.7	-860.2	280400.0	1251000.0	1274000.0	7186.0
1285.456	-2617.7	-800.5	269500.0	1073000.0	1501000.0	3820.0
1285.457	622.7	463.7	-258800.0	-1092000.0	-211520.0	-11421.0
1285.458	58.0	627.5	-267100.0	-1214000.0	28038.0	-14703.0
1285.459	-1333.1	-2229.1	284500.0	1322000.0	1693000.0	1349.0
1285.460	-1890.2	-2136.8	274100.0	1163000.0	1922000.0	-1940.0
1285.461	5.0	1437.6	-349100.0	-1672000.0	-1007000.0	-5481.0
1285.462	-548.6	1594.7	-357500.0	-1805000.0	-761208.0	-8796.0
1285.463	-2040.2	-649.4	271200.0	1205000.0	1199000.0	8207.0
1285.464	-2585.3	-590.0	260400.0	1028000.0	1426000.0	4837.0
1285.529	633.1	-431.2	-50990.6	100138.0	172834.0	-2240.0
1285.530	-1250.7	17.6	-87195.4	-368735.0	932043.0	-13121.0
1285.531	12.8	-1077.6	94226.2	451289.0	669717.0	1802.0
1285.532	-1847.9	-771.2	59392.4	-77238.0	1426000.0	-9261.0
1285.533	-138.9	537.5	-102200.0	-187312.0	-389102.0	2657.0
1285.534	-1960.8	934.1	-124600.0	-656649.0	435769.0	-8620.0
1285.535	-756.8	-24.4	75748.7	310925.0	234408.0	6741.0
1285.536	-2578.4	320.0	51687.9	-174272.0	1038000.0	-4596.0
1285.537	630.1	-350.5	-57629.1	-73237.0	145279.0	-2182.0
1285.538	-1255.7	109.5	-93568.3	-533980.0	904628.0	-13050.0
1285.539	30.3	-1155.8	100300.0	627506.0	690465.0	1738.0
1285.540	-1841.3	-852.4	65071.0	96562.0	1452000.0	-9262.0
1285.541	-156.7	637.3	-107300.0	-348537.0	-410898.0	2836.0
1285.542	-1975.8	1014.6	-131400.0	-832932.0	406332.0	-8520.0
1285.543	-742.0	-138.0	82058.3	471175.0	257696.0	6564.0
1285.544	-2563.8	233.8	58332.5	-1429.0	1065000.0	-4701.0
1285.545	588.2	-691.3	-34136.9	119666.0	274435.0	-3227.0
1285.546	-1293.1	-296.0	-76945.0	-385226.0	1006000.0	-14099.0
1285.547	-3.1	-1392.6	103700.0	441300.0	740572.0	771.0
1285.548	-1876.2	-1094.2	67315.2	-95627.0	1497000.0	-10221.0
1285.549	-77.2	626.0	-117700.0	-290018.0	-488290.0	3488.0
1285.550	-1921.0	1010.3	-134600.0	-755390.0	345911.0	-7703.0
1285.551	-732.2	124.2	58622.5	211011.0	131485.0	7763.0
1285.552	-2562.3	544.1	39578.1	-224096.0	953975.0	-3582.0
1285.553	574.4	-594.8	-39356.4	-44666.0	252990.0	-3074.0
1285.554	-1304.1	-208.8	-81719.2	-551995.0	983597.0	-13993.0
1285.555	9.8	-1465.1	109800.0	620361.0	765185.0	631.0

1285.556	-1866.0	-1168.0	73980.6	84525.0	1526000.0	-10318.0
1285.557	-103.3	714.8	-124100.0	-458930.0	-513215.0	3576.0
1285.558	-1936.6	1063.9	-142600.0	-940744.1	313088.0	-7730.0
1285.559	-710.7	14.0	65746.5	374661.0	157999.0	7649.0
1285.560	-2538.8	437.7	48329.3	-52976.0	985615.1	-3668.0
1287.1	972.5	174.2	43376.1	-214557.0	-506691.0	346.0
1287.2	745.1	124.3	31456.5	-153328.0	-853738.0	254.0
1287.3	1042.0	177.9	45520.9	-219611.0	-1611000.0	344.0
1287.4	814.3	128.0	33736.5	-158389.0	-1958000.0	250.0
1287.5	1022.5	238.5	58008.5	-292915.0	12581.0	385.0
1287.6	793.1	189.5	46226.7	-232962.0	-328411.0	242.0
1287.7	2039.3	527.1	120600.0	-646288.0	2221000.0	459.0
1287.8	1811.4	477.1	108700.0	-584945.0	1875000.0	353.0
1287.9	1776.1	440.7	101100.0	-540094.0	1538000.0	441.0
1287.10	1548.6	389.4	89615.4	-477621.0	1202000.0	325.0
1287.11	1845.1	444.6	103200.0	-545280.0	433763.0	435.0
1287.12	1617.3	394.6	91456.8	-484044.0	89678.0	330.0
1287.13	1825.4	503.8	116500.0	-617772.0	2073000.0	433.0
1287.14	1597.5	454.2	104600.0	-556765.0	1727000.0	333.0
1287.15	1074.9	209.8	51112.0	-258206.0	-238816.0	330.0
1287.16	869.6	138.9	35580.9	-171253.0	-774825.0	349.0
1287.17	848.2	159.6	39248.8	-196671.0	-585724.0	252.0
1287.18	642.0	89.1	23674.6	-110086.0	-1122000.0	256.0
1287.19	1145.6	232.8	56071.1	-286171.0	-68956.0	392.0
1287.20	801.0	115.4	30395.5	-142394.0	-953459.9	353.0
1287.21	917.8	183.1	44216.1	-225236.0	-413881.0	290.0
1287.22	572.9	65.7	18476.8	-81376.0	-1300000.0	251.0
1287.23	1146.1	212.9	53187.9	-262395.0	-1348000.0	379.0
1287.24	938.8	142.5	37754.1	-176076.0	-1880000.0	344.0
1287.25	917.4	163.4	41540.8	-201848.0	-1689000.0	249.0
1287.26	710.6	92.9	25918.2	-115202.0	-2226000.0	240.0
1287.27	1125.8	273.8	65695.4	-336168.0	277284.0	395.0
1287.28	917.4	204.2	50326.2	-250949.0	-249493.0	333.0
1287.29	896.2	224.9	54144.5	-276373.0	-60147.0	243.0
1287.30	690.2	154.5	38444.4	-189882.0	-596215.0	249.0
1287.31	2142.7	562.2	128500.0	-689461.0	2488000.0	467.0
1287.32	1935.8	491.3	112700.0	-602330.0	1952000.0	436.0
1287.33	1914.9	512.3	116500.0	-628134.0	2142000.0	363.0
1287.34	1707.9	441.5	100800.0	-541150.0	1606000.0	332.0
1287.35	1948.6	500.2	114300.0	-613236.0	1985000.0	469.0
1287.36	1603.9	381.5	88168.1	-467619.0	1097000.0	422.0
1287.37	1720.7	450.1	102300.0	-551777.0	1640000.0	365.0
1287.38	1376.2	330.8	76601.2	-405741.0	757312.0	312.0
1287.39	1879.7	476.6	109000.0	-584193.0	1807000.0	463.0
1287.40	1672.8	405.0	93387.6	-496395.0	1274000.0	426.0
1287.41	1651.8	426.6	97123.0	-522931.0	1462000.0	358.0
1287.42	1445.2	354.2	81830.7	-434427.0	935521.0	317.0
1287.43	1948.5	479.9	111100.0	-588663.0	700624.0	444.0
1287.44	1741.8	409.2	95332.8	-501905.0	166956.0	426.0
1287.45	1720.6	429.8	99302.1	-527301.0	356396.0	338.0
1287.46	1513.9	359.3	83612.3	-440759.0	-177049.0	321.0
1287.47	1928.8	538.9	124300.0	-660794.0	2340000.0	440.0
1287.48	1721.9	468.8	108700.0	-574789.0	1806000.0	427.0
1287.49	1701.0	489.1	112400.0	-599690.0	1994000.0	338.0
1287.50	1494.0	419.1	96709.7	-513741.0	1460000.0	326.0
1287.51	989.5	120.7	926.1	-93454.0	-892086.1	265.0
1287.52	761.8	59.3	-11757.0	-15017.0	-1235000.0	151.0
1287.53	999.3	56.6	-29280.2	29430.0	-1142000.0	162.0
1287.54	765.2	-1.2	-41427.7	102588.0	-1483000.0	66.0
1287.55	1058.4	125.0	3316.6	-99740.0	-1995000.0	260.0
1287.56	830.8	64.5	-9354.8	-22499.0	-2338000.0	147.0
1287.57	1036.5	203.8	17111.9	-199314.0	-365190.0	279.0

1287.58	809.4	142.4	4543.5	-120862.0	-709135.0	182.0
1287.59	2069.6	583.3	82449.6	-675977.0	1861000.0	450.0
1287.60	1840.3	526.4	70337.8	-605213.0	1515000.0	345.0
1287.61	1804.2	486.1	63165.2	-555860.0	1186000.0	425.0
1287.62	1572.9	426.4	50910.8	-481198.0	837684.0	309.0
1287.63	1799.0	375.8	32813.6	-376176.0	908536.1	215.0
1287.64	1573.1	317.9	19939.5	-302056.0	561370.0	120.0
1287.65	1871.4	492.1	65461.4	-564221.0	79888.0	414.0
1287.66	1642.1	434.1	53207.1	-491644.0	-266600.0	308.0
1287.67	1852.2	558.3	78411.1	-645043.0	1708000.0	424.0
1287.68	1623.2	503.1	66167.4	-576496.0	1361000.0	330.0
1287.69	1036.6	209.6	61183.6	-288618.0	-247953.0	446.0
1287.70	812.4	176.5	48125.8	-248943.0	-602458.0	364.0
1287.71	1088.4	271.2	70132.0	-387263.0	-95650.0	547.0
1287.72	861.9	236.0	56775.3	-344317.0	-451952.0	464.0
1287.73	1105.0	213.2	63681.3	-293131.0	-1351000.0	441.0
1287.74	880.8	178.4	50601.8	-251272.0	-1705000.0	356.0
1287.75	1081.0	249.6	77780.2	-336183.0	290187.0	427.0
1287.76	856.7	220.8	64695.4	-301736.0	-65850.0	354.0
1287.77	2086.9	440.9	145400.0	-571536.0	2543000.0	395.0
1287.78	1860.7	401.9	133100.0	-523752.0	2192000.0	294.0
1287.79	1827.1	374.4	125200.0	-489891.0	1858000.0	393.0
1287.80	1600.7	337.1	112800.0	-444341.0	1508000.0	305.0
1287.81	1873.1	437.6	135600.0	-588175.0	2020000.0	490.0
1287.82	1648.3	411.7	122500.0	-557025.0	1664000.0	419.0
1287.83	1895.8	378.1	127600.0	-494638.0	755026.0	389.0
1287.84	1669.6	341.0	115200.0	-449294.0	404602.0	299.0
1287.85	1873.9	426.0	140600.0	-552363.0	2387000.0	397.0
1287.86	1647.8	387.1	128300.0	-504839.0	2037000.0	305.0
1287.87	1009.7	209.3	52691.6	-254383.0	-138140.0	-324.0
1287.88	782.6	161.2	40383.9	-195000.0	-486252.0	-414.0
1287.89	1022.3	221.0	55310.2	-267500.0	-18755.0	-545.0
1287.90	795.1	173.3	43142.8	-208618.0	-366131.0	-632.0
1287.91	1079.0	216.3	55130.6	-263438.0	-1241000.0	-320.0
1287.92	851.9	168.1	42680.0	-203788.0	-1590000.0	-413.0
1287.93	1057.2	272.7	67835.6	-331984.0	386486.0	-324.0
1287.94	823.9	226.7	55903.1	-275527.0	54377.0	-573.0
1287.95	1112.8	241.3	60837.7	-294200.0	131786.0	-323.0
1287.96	907.2	177.1	44721.1	-214621.0	-405394.0	-314.0
1287.97	885.5	193.4	48459.5	-234873.0	-217453.0	-419.0
1287.98	680.0	129.0	32405.0	-155274.0	-753679.0	-405.0
1287.99	1182.6	263.4	66196.9	-321528.0	311756.0	-323.0
1287.100	838.5	155.7	39371.5	-188197.0	-584480.0	-311.0
1287.101	955.1	215.5	53945.6	-262329.0	-36246.0	-416.0
1287.102	610.8	107.4	27009.7	-128444.0	-933686.1	-405.0
1287.103	1126.4	254.0	63529.2	-308510.0	252545.0	-542.0
1287.104	919.9	188.7	47322.9	-227627.0	-285985.0	-533.0
1287.105	899.0	206.1	51323.4	-249429.0	-95211.0	-633.0
1287.106	692.5	141.1	35151.4	-168816.0	-633494.0	-623.0
1287.107	1181.2	248.5	63022.0	-303073.0	-974634.9	-326.0
1287.108	970.7	186.0	47358.5	-226132.0	-1497000.0	-443.0
1287.109	954.9	200.2	50809.9	-243626.0	-1321000.0	-415.0
1287.110	746.3	136.8	34889.6	-165337.0	-1849000.0	-481.0
1287.111	1154.2	306.7	76229.6	-374607.0	675283.0	-516.0
1287.112	954.3	240.8	59860.4	-292568.0	118316.0	-320.0
1287.113	934.6	257.1	63723.0	-313009.0	310129.0	-414.0
1287.114	721.7	194.5	47863.0	-235711.0	-215508.0	-552.0
1287.115	1014.3	200.5	14522.4	-197914.0	-507155.0	-360.0
1287.116	788.0	141.1	1844.1	-122058.0	-852266.0	-462.0
1287.117	1029.2	149.9	-15904.7	-91462.0	-766044.0	-424.0
1287.118	799.2	82.3	-28353.5	-5377.0	-1105000.0	-532.0
1287.119	1023.5	221.7	18867.6	-226125.0	-381582.0	-575.0

1287.120	795.7	164.4	6337.9	-152643.0	-727327.0	-674.0
1287.121	1083.4	206.5	16881.8	-206151.0	-1611000.0	-364.0
1287.122	856.7	147.5	4309.2	-130896.0	-1955000.0	-462.0
1287.123	1063.6	296.2	30644.2	-319849.0	19157.0	-331.0
1287.124	835.2	225.7	17951.7	-229423.0	-326100.0	-438.0
1287.125	1068.8	205.9	72422.2	-278937.0	133645.0	-237.0
1287.126	845.6	192.5	59273.0	-264069.0	-226101.0	-282.0
1287.127	1119.5	296.9	81054.1	-413911.0	277086.0	-111.0
1287.128	895.6	265.2	67878.4	-375779.0	-78242.0	-182.0
1287.129	1080.2	212.0	76197.1	-286080.0	256295.0	-447.0
1287.130	855.0	179.1	63146.7	-245248.0	-98823.0	-527.0
1287.131	1138.8	211.6	74949.1	-287286.0	-970423.1	-231.0
1287.132	913.9	194.3	61573.1	-266235.0	-1331000.0	-293.0
1287.133	1115.4	250.0	88588.2	-333027.0	666087.0	-246.0
1287.134	890.3	218.4	75929.1	-294705.0	313442.0	-328.0
1287.135	1732.5	358.0	79781.7	-441488.0	757847.0	1103.0
1287.136	1504.0	309.8	67715.4	-382005.0	408698.0	992.0
1287.137	1980.4	419.7	91599.3	-517374.0	1171000.0	1333.0
1287.138	1752.0	370.7	79642.3	-457177.0	823797.0	1223.0
1287.139	1801.4	362.1	81908.8	-446928.0	-348182.0	1093.0
1287.140	1573.0	313.0	69914.9	-386576.0	-695386.0	985.0
1287.141	1781.7	422.9	94802.4	-520847.0	1283000.0	1119.0
1287.142	1553.2	373.8	82880.0	-460442.0	935418.0	1008.0
1287.143	1836.2	392.5	87632.5	-483837.0	1026000.0	1114.0
1287.144	1628.5	324.4	71801.5	-399969.0	487175.0	1087.0
1287.145	1608.0	343.6	75695.1	-423819.0	678962.0	1008.0
1287.146	1400.3	275.5	59872.5	-339793.0	140274.0	983.0
1287.147	1905.3	415.5	92876.2	-512156.0	1204000.0	1121.0
1287.148	1559.3	301.6	66593.2	-371890.0	308185.0	1080.0
1287.149	1677.1	366.7	80965.6	-452191.0	857761.1	1015.0
1287.150	1331.0	252.5	54694.9	-311553.0	-37991.0	976.0
1287.151	2084.1	454.2	99471.7	-559853.0	1439000.0	1344.0
1287.152	1876.5	385.6	83676.0	-475348.0	901326.9	1319.0
1287.153	1855.8	405.5	87601.1	-500043.0	1093000.0	1238.0
1287.154	1648.3	336.7	71718.6	-415275.0	553758.0	1216.0
1287.155	1905.3	396.7	89792.9	-489518.0	-79805.0	1107.0
1287.156	1697.6	328.4	73937.8	-405329.0	-619154.0	1082.0
1287.157	1676.9	347.6	77771.0	-429042.0	-427314.0	998.0
1287.158	1469.3	279.2	62021.7	-344885.0	-965336.1	979.0
1287.159	1885.4	457.6	102700.0	-563538.0	1551000.0	1129.0
1287.160	1677.8	388.2	86925.6	-478063.0	1014000.0	1104.0
1287.161	1657.1	408.9	90837.2	-503630.0	1205000.0	1024.0
1287.162	1449.5	339.2	74981.1	-417862.0	667406.0	998.0
1287.163	1749.0	316.1	37712.9	-337708.0	367540.0	976.0
1287.164	1519.8	246.6	25100.9	-249713.0	20930.0	857.0
1287.165	1754.0	228.4	7673.0	-185633.0	111237.0	843.0
1287.166	1527.2	170.9	-5167.2	-112190.0	-236264.0	721.0
1287.167	1997.6	368.5	49932.3	-403963.0	779368.0	1198.0
1287.168	1768.1	305.9	37038.5	-323494.0	431178.0	1083.0
1287.169	1818.0	320.6	39836.4	-343906.0	-738744.0	971.0
1287.170	1589.2	251.3	27477.6	-256382.0	-1083000.0	853.0
1287.171	1800.3	436.2	54354.7	-491065.0	894184.9	1046.0
1287.172	1569.6	337.5	41203.2	-364649.0	547796.0	889.0
1287.173	1772.8	321.3	103100.0	-427223.0	1058000.0	1043.0
1287.174	1548.4	296.4	90043.8	-397787.0	702137.0	971.0
1287.175	1823.3	389.4	112100.0	-533466.0	1209000.0	1140.0
1287.176	1599.0	354.9	99029.1	-492003.0	854307.0	1054.0
1287.177	2015.1	360.0	116700.0	-475314.0	1483000.0	1256.0
1287.178	1790.0	334.4	103700.0	-444785.0	1129000.0	1181.0
1287.179	1841.0	324.0	105600.0	-430561.0	-45125.0	1033.0
1287.180	1616.4	298.3	92596.8	-399970.0	-400062.0	962.0
1287.181	1819.9	363.7	119400.0	-479103.0	1593000.0	1046.0

1287.182	1593.0	330.8	106600.0	-438171.0	1239000.0	948.0
1287.183	1401.2	196.4	22462.7	-234159.0	-1122000.0	422.0
1287.184	1171.4	138.1	10435.3	-161936.0	-1470000.0	313.0
1287.185	1469.9	200.9	24537.9	-240240.0	-2228000.0	415.0
1287.186	1240.5	143.2	12533.9	-168703.0	-2574000.0	308.0
1287.187	1682.8	192.4	8595.7	-222610.0	-1531000.0	442.0
1287.188	1454.6	135.7	-3020.2	-152170.0	-1875000.0	346.0
1287.189	1452.3	268.8	37532.0	-323230.0	-595806.0	440.0
1287.190	1222.9	214.9	25642.4	-256812.0	-942313.9	337.0
1287.191	2459.0	560.4	100600.0	-680416.0	1624000.0	345.0
1287.192	2247.9	510.8	88584.1	-619980.0	1277000.0	364.0
1287.193	2198.2	472.2	81406.6	-572405.0	946395.0	382.0
1287.194	1984.0	422.5	69442.4	-511891.0	599730.0	379.0
1287.195	2270.8	473.0	83570.7	-574040.0	-160956.0	451.0
1287.196	2053.0	425.9	71408.5	-516404.0	-505520.0	369.0
1287.197	2497.0	491.6	67699.3	-591920.0	538166.0	531.0
1287.198	2267.8	438.9	55949.3	-527006.0	192534.0	430.0
1287.199	2247.6	536.3	96090.9	-650761.0	1470000.0	396.0
1287.200	2030.8	490.4	84028.2	-594625.0	1127000.0	301.0
1287.201	1432.4	233.4	33276.1	-278031.0	-745141.0	-229.0
1287.202	1202.4	182.2	22137.2	-215926.0	-1078000.0	-369.0
1287.203	1441.8	240.5	36778.6	-286166.0	-621029.0	-462.0
1287.204	1212.5	190.4	25302.3	-224969.0	-963407.0	-546.0
1287.205	1502.1	236.7	35321.5	-282506.0	-1849000.0	-231.0
1287.206	1271.7	186.3	24037.3	-221248.0	-2184000.0	-374.0
1287.207	1713.7	250.3	20854.9	-294712.0	-1139000.0	-221.0
1287.208	1484.1	195.8	9182.2	-227413.0	-1484000.0	-319.0
1287.209	1481.9	297.3	47842.5	-355997.0	-222994.0	-231.0
1287.210	1251.1	247.0	36738.3	-294941.0	-554470.0	-390.0
1287.211	2158.1	382.3	59092.1	-463332.0	136302.0	1177.0
1287.212	1929.8	326.3	47133.2	-394163.0	-209266.0	1069.0
1287.213	2406.3	443.2	71051.6	-538526.0	550332.0	1419.0
1287.214	2177.8	387.5	58983.6	-469595.0	204009.0	1303.0
1287.215	2227.1	387.0	61216.9	-469660.0	-968698.1	1172.0
1287.216	1998.8	331.4	49258.9	-400988.0	-1314000.0	1064.0
1287.217	2441.6	379.6	45138.0	-453640.0	-273539.0	1209.0
1287.218	2211.2	319.8	32903.1	-379329.0	-623776.0	1066.0
1287.219	2207.3	453.9	74348.3	-551405.0	661995.0	1199.0
1287.220	1979.1	400.6	62395.5	-485749.0	316129.0	1093.0
1287.221	560.2	151.2	47194.4	-188831.0	7889.0	357.0
1287.222	332.8	105.7	35240.2	-132753.0	-336716.0	241.0
1287.223	629.5	156.4	49540.9	-195743.0	-1093000.0	333.0
1287.224	402.7	111.4	37685.1	-140168.0	-1440000.0	239.0
1287.225	286.4	144.4	49651.7	-181635.0	351817.0	360.0
1287.226	58.5	98.9	37903.8	-125709.0	8937.0	230.0
1287.227	607.8	211.7	62004.5	-262867.0	529756.0	362.0
1287.228	381.0	166.3	50062.8	-206845.0	183857.0	266.0
1287.229	1623.2	490.7	125100.0	-605462.0	2745000.0	426.0
1287.230	1395.1	441.3	113300.0	-544780.0	2398000.0	317.0
1287.231	1359.7	403.9	106000.0	-499110.0	2069000.0	397.0
1287.232	1132.1	354.2	94367.9	-438239.0	1726000.0	290.0
1287.233	1428.6	408.0	108500.0	-504784.0	966862.0	389.0
1287.234	1200.7	358.2	96766.3	-443722.0	622138.0	284.0
1287.235	1082.8	385.0	109300.0	-478194.0	2419000.0	382.0
1287.236	855.6	338.6	97518.4	-421094.0	2074000.0	278.0
1287.237	1409.0	468.0	120900.0	-577503.0	2595000.0	398.0
1287.238	1181.0	418.4	109300.0	-516742.0	2250000.0	295.0
1287.239	599.2	202.3	56588.0	-247441.0	378436.0	-320.0
1287.240	372.0	154.7	44346.6	-188606.0	30754.0	-410.0
1287.241	612.0	213.9	59086.9	-260297.0	497141.0	-542.0
1287.242	385.0	165.8	46744.3	-200843.0	148914.0	-632.0
1287.243	668.8	207.5	58741.8	-254082.0	-726235.0	-325.0

1287.244	441.5	161.2	46541.1	-196789.0	-1074000.0	-411.0
1287.245	325.9	195.9	59457.5	-240955.0	725519.0	-316.0
1287.246	98.6	149.5	47278.0	-183608.0	377868.0	-403.0
1287.247	648.0	262.9	71551.3	-321728.0	903768.0	-322.0
1287.248	420.4	217.3	59367.8	-265141.0	555660.0	-412.0
1287.249	1315.7	323.6	84637.7	-403108.0	1284000.0	1068.0
1287.250	1087.3	275.7	72496.1	-344045.0	934342.0	959.0
1287.251	1563.6	385.7	96412.0	-479461.0	1696000.0	1297.0
1287.252	1335.4	336.9	84397.4	-419516.0	1349000.0	1191.0
1287.253	1384.7	327.8	86659.6	-408589.0	176981.0	1060.0
1287.254	1156.4	279.3	74705.9	-348952.0	-170157.0	950.0
1287.255	1037.8	301.8	87841.9	-378874.0	1634000.0	1047.0
1287.256	812.6	253.3	75786.4	-319022.0	1278000.0	1011.0
1287.257	1364.9	388.4	99482.3	-482245.0	1807000.0	1083.0
1287.258	1136.6	339.5	87539.6	-422106.0	1460000.0	973.0
1287.401	592.2	-1598.2	-357900.0	2343000.0	-2549000.0	853.0
1287.402	705.9	-1510.2	-340400.0	2234000.0	-2108000.0	2628.0
1287.403	421.4	-32.4	-261000.0	527740.0	-1884000.0	462.0
1287.404	535.7	105.6	-244100.0	356751.0	-1451000.0	2284.0
1287.405	1151.0	544.1	111900.0	-978133.0	2021000.0	-1177.0
1287.406	1264.3	583.1	131000.0	-1026000.0	2474000.0	677.0
1287.407	1053.4	1342.2	177300.0	-1823000.0	2549000.0	-2193.0
1287.408	1159.1	1393.5	196900.0	-1883000.0	3008000.0	-338.0
1287.409	590.7	-2036.2	-367800.0	2844000.0	-2595000.0	800.0
1287.410	702.2	-1940.9	-350300.0	2728000.0	-2153000.0	2593.0
1287.411	412.0	410.0	-250300.0	9306.0	-1836000.0	562.0
1287.412	525.6	541.4	-233500.0	-153444.0	-1403000.0	2361.0
1287.413	1143.1	127.7	103700.0	-510962.0	1975000.0	-1180.0
1287.414	1256.9	162.3	123100.0	-553741.0	2431000.0	677.0
1287.415	1076.1	1749.5	183600.0	-2290000.0	2576000.0	-2196.0
1287.416	1183.4	1800.1	202300.0	-2349000.0	3028000.0	-334.0
1287.417	599.9	-1712.6	-364600.0	2482000.0	-2647000.0	576.0
1287.418	712.4	-1642.2	-346700.0	2394000.0	-2206000.0	2322.0
1287.419	417.4	-228.0	-269000.0	746231.0	-1983000.0	162.0
1287.420	527.3	-108.2	-251400.0	597493.0	-1547000.0	1929.0
1287.421	1109.6	696.0	125600.0	-1157000.0	2131000.0	-932.0
1287.422	1225.7	729.5	145900.0	-1200000.0	2594000.0	929.0
1287.423	998.9	1569.7	192200.0	-2086000.0	2658000.0	-1819.0
1287.424	1103.5	1615.7	213800.0	-2139000.0	3134000.0	17.0
1287.425	605.0	-2164.0	-375400.0	2995000.0	-2703000.0	502.0
1287.426	718.1	-2082.1	-357600.0	2895000.0	-2263000.0	2250.0
1287.427	406.5	192.0	-259300.0	254960.0	-1940000.0	252.0
1287.428	517.5	313.8	-241800.0	104223.0	-1505000.0	2032.0
1287.429	1094.5	285.1	119400.0	-692493.0	2095000.0	-933.0
1287.430	1209.5	321.8	140100.0	-737106.0	2561000.0	927.0
1287.431	1024.6	1979.0	196700.0	-2556000.0	2678000.0	-1801.0
1287.432	1131.7	2028.7	217500.0	-2614000.0	3147000.0	56.0
1287.433	766.0	-2513.6	-212800.0	3055000.0	-1225000.0	657.0
1287.434	870.6	-2394.3	-192400.0	2904000.0	-767678.0	2489.0
1287.435	327.4	2146.2	60357.8	-2370000.0	727966.0	-979.0
1287.436	451.0	2230.1	72402.1	-2465000.0	1142000.0	785.0
1287.437	910.3	-1549.2	-70893.3	1539000.0	89160.0	12.0
1287.438	1017.6	-1492.7	-50801.6	1475000.0	548966.0	1834.0
1287.439	630.6	1727.4	144300.0	-1982000.0	1836000.0	-2499.0
1287.440	739.5	1832.9	162200.0	-2107000.0	2281000.0	-606.0
1287.441	784.6	-2565.7	-221000.0	3117000.0	-1298000.0	543.0
1287.442	891.1	-2447.1	-202000.0	2969000.0	-849426.9	2372.0
1287.443	324.2	2066.8	57855.0	-2280000.0	698016.0	-1055.0
1287.444	446.7	2152.1	70581.7	-2378000.0	1114000.0	708.0
1287.445	886.9	-1516.7	-60878.8	1488000.0	162402.0	113.0
1287.446	991.8	-1454.1	-39323.7	1420000.0	633170.0	1943.0
1287.447	613.4	1789.1	148600.0	-2051000.0	1872000.0	-2450.0

1287.448	721.7	1896.8	166900.0	-2180000.0	2322000.0	-551.0
1287.449	732.8	-3870.5	-239400.0	4613000.0	-1343000.0	537.0
1287.450	837.6	-3739.0	-218900.0	4451000.0	-881458.0	2347.0
1287.451	303.2	3370.5	84650.8	-3777000.0	794351.0	-699.0
1287.452	426.7	3453.2	97388.9	-3871000.0	1202000.0	1101.0
1287.453	837.0	-2963.9	-75593.7	3114000.0	68189.0	48.0
1287.454	943.3	-2904.4	-55807.8	3051000.0	532061.0	1836.0
1287.455	639.7	2999.1	166600.0	-3451000.0	1949000.0	-2554.0
1287.456	757.4	3093.1	182900.0	-3560000.0	2374000.0	-635.0
1287.457	751.2	-3918.3	-245500.0	4669000.0	-1401000.0	441.0
1287.458	856.4	-3788.6	-225600.0	4510000.0	-943218.0	2248.0
1287.459	300.9	3292.1	82505.1	-3689000.0	776227.0	-771.0
1287.460	424.7	3374.1	95235.6	-3782000.0	1181000.0	1048.0
1287.461	812.1	-2915.7	-65406.4	3059000.0	139588.0	128.0
1287.462	913.8	-2850.1	-42517.2	2985000.0	622053.0	1923.0
1287.463	642.2	3066.6	171800.0	-3528000.0	1987000.0	-2437.0
1287.464	760.7	3162.0	188400.0	-3640000.0	2417000.0	-514.0
1287.529	513.2	-1032.0	-145100.0	1344000.0	-1128000.0	-2099.0
1287.530	873.8	-703.8	-80760.0	940415.1	383568.0	3949.0
1287.531	343.3	410.6	-50903.3	-338809.0	-469406.0	-2608.0
1287.532	749.2	1013.5	-562.7	-1079000.0	938017.0	3614.0
1287.533	665.1	-222.4	-2303.9	130572.0	246895.0	-2734.0
1287.534	1038.4	-116.7	61382.2	-4231.0	1755000.0	3328.0
1287.535	568.1	463.8	65426.3	-573198.0	804891.0	-3913.0
1287.536	922.8	794.7	130600.0	-968821.0	2320000.0	2502.0
1287.537	505.7	-1447.1	-153600.0	1821000.0	-1167000.0	-2131.0
1287.538	863.1	-1108.8	-88276.3	1407000.0	352654.0	3918.0
1287.539	332.9	854.6	-40925.6	-861711.1	-437169.0	-2465.0
1287.540	744.5	1388.6	8391.0	-1513000.0	955305.9	3783.0
1287.541	658.3	-640.6	-8508.2	597599.0	211081.0	-2727.0
1287.542	1030.5	-519.1	59865.5	452980.0	1756000.0	3315.0
1287.543	588.8	857.0	71553.3	-1026000.0	832211.1	-3938.0
1287.544	939.4	1163.6	133600.0	-1390000.0	2323000.0	2451.0
1287.545	526.3	-1081.4	-149200.0	1401000.0	-1173000.0	-2201.0
1287.546	885.5	-757.5	-85218.5	1005000.0	330202.0	3816.0
1287.547	343.9	355.9	-54313.3	-278372.0	-503772.0	-2678.0
1287.548	743.3	929.3	-1610.7	-984408.0	913005.0	3515.0
1287.549	654.7	-178.9	3338.8	78818.0	291041.0	-2644.0
1287.550	1031.5	-66.3	66418.2	-62425.0	1802000.0	3407.0
1287.551	550.1	528.5	68223.7	-646256.0	828744.1	-3799.0
1287.552	903.3	868.3	137200.0	-1054000.0	2372000.0	2586.0
1287.553	521.9	-1497.7	-158800.0	1880000.0	-1219000.0	-2230.0
1287.554	878.1	-1161.5	-94064.5	1471000.0	291800.0	3790.0
1287.555	329.8	777.9	-44063.6	-774520.0	-467897.0	-2571.0
1287.556	738.0	1299.3	6198.9	-1412000.0	928037.0	3650.0
1287.557	641.9	-593.3	-2566.6	541422.0	251871.0	-2653.0
1287.558	1014.6	-467.1	65783.0	392641.0	1803000.0	3392.0
1287.559	576.2	918.7	73544.6	-1095000.0	853538.9	-3824.0
1287.560	927.9	1230.9	139300.0	-1468000.0	2373000.0	2576.0

Calcolo resistenze

Bulloni Ala

Resistenza a taglio dei bulloni

$$F_{vb,Rd} = n_{sl} \cdot 0.6 \cdot f_{tb} \cdot A_{res} / \gamma_{M2} =$$

94097.0 N

Bull.	$F_{bc,x,Rd}$ [N]	$F_{ba,x,Rd}$ [N]	$F_{v,x,Rd}$ [N]	$F_{bc,y,Rd}$ [N]	$F_{ba,y,Rd}$ [N]	$F_{v,y,Rd}$ [N]
1	97495.7	71945.1	71945.1	60486.6	64877.0	60486.6
2	97495.7	71945.1	71945.1	60486.6	64877.0	60486.6
3	97495.7	86933.7	86933.7	60486.6	53933.9	53933.9
4	97495.7	86933.7	86933.7	60486.6	53933.9	53933.9
5	80686.1	179862.7	80686.1	72759.2	97706.3	72759.2
6	80686.1	179862.7	80686.1	72759.2	97706.3	72759.2

Bulloni Anima

Resistenza a taglio dei bulloni

$$F_{vb,Rd} = n_{sn} \cdot 0.6 \cdot f_{tb} \cdot A_{res} / \gamma_{M2} = 188194.0 \text{ N}$$

Bull.	$F_{bc,x,Rd}$ [N]	$F_{ba,x,Rd}$ [N]	$F_{v,x,Rd}$ [N]	$F_{bc,y,Rd}$ [N]	$F_{ba,y,Rd}$ [N]	$F_{v,y,Rd}$ [N]
1	104752.6	57936.0	57936.0	72069.1	96173.8	72069.1
2	87083.5	31980.7	31980.7	87083.5	46484.0	46484.0
3	87083.5	31980.7	31980.7	87083.5	46484.0	46484.0
4	104752.6	57936.0	57936.0	72069.1	96173.8	72069.1
5	86691.8	144840.0	86691.8	86691.8	144840.0	86691.8
6	72069.1	79951.7	72069.1	104752.6	70006.0	70006.0
7	72069.1	79951.7	72069.1	104752.6	70006.0	70006.0
8	86691.8	144840.0	86691.8	86691.8	144840.0	86691.8

Legenda

$F_{bc,x,Rd} = k \cdot \alpha \cdot f_{tk} \cdot \varnothing \cdot t_c / \gamma_{M2}$ resistenza a rifollamento coprigiunto in direzione x

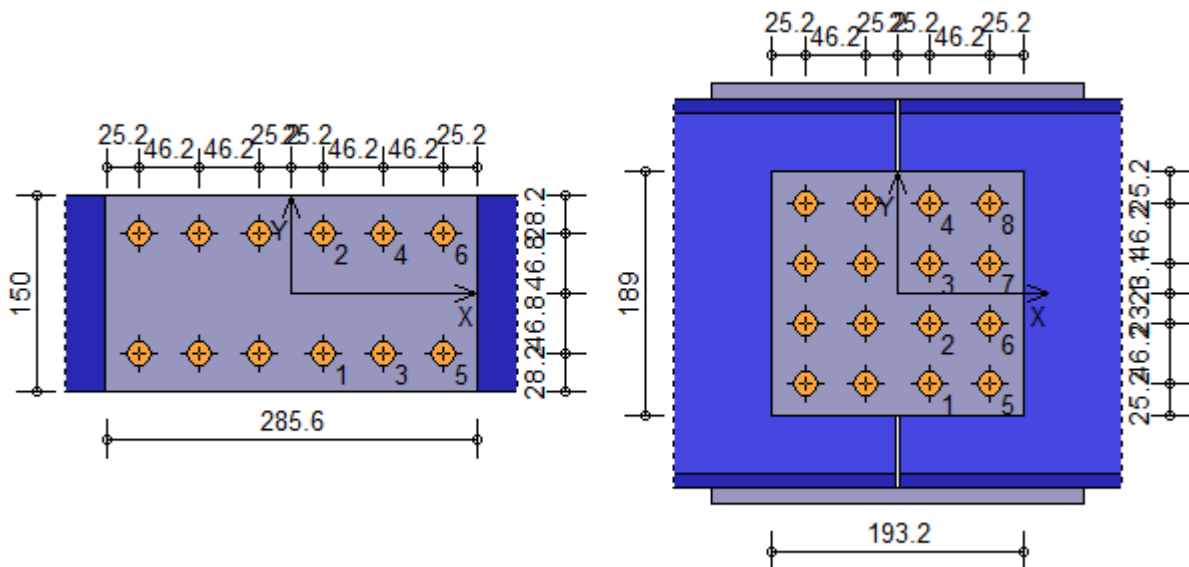
$F_{ba,x,Rd} = k \cdot \alpha \cdot f_{tk} \cdot \varnothing \cdot t_a / \gamma_{M2}$ resistenza a rifollamento ala/anima elemento in direzione x

$F_{v,x,Rd} = \min [F_{vb,Rd} , F_{bc,x,Rd} , F_{ba,x,Rd}]$ resistenza a taglio di progetto in direzione x

$F_{bc,y,Rd} = k \cdot \alpha \cdot f_{tk} \cdot \varnothing \cdot t_c / \gamma_{M2}$ resistenza a rifollamento coprigiunto in direzione y

$F_{ba,y,Rd} = k \cdot \alpha \cdot f_{tk} \cdot \varnothing \cdot t_a / \gamma_{M2}$ resistenza a rifollamento ala/anima elemento in direzione y

$F_{v,y,Rd} = \min [F_{vb,Rd} , F_{bc,y,Rd} , F_{ba,y,Rd}]$ resistenza a taglio di progetto in direzione y



Verifiche a taglio sui bulloni

Bulloni Ala (Nodo n. 112, CMB n. 460)

Bull.	X [mm]	Y [mm]	$F_{v,Ed}$ [N]	$F_{v,Rd}$ [N]	FV	VER
1	25.20	-46.80	60477.9	71945.1	0.840612	Ok
2	25.20	46.80	37617.4	60486.6	0.621914	Ok
3	71.40	-46.80	52621.8	86933.7	0.605310	Ok
4	71.40	46.80	22946.6	86933.7	0.263955	Ok
5	117.60	-46.80	67623.2	80686.1	0.838102	Ok
6	117.60	46.80	48274.1	72759.2	0.663477	Ok

Bulloni Anima (Nodo n. 695, CMB n. 31)

Bull.	X [mm]	Y [mm]	$F_{v,Ed}$ [N]	$F_{v,Rd}$ [N]	FV	VER
1	25.20	-69.30	51335.8	57936.0	0.886078	Ok
2	25.20	-23.10	22239.7	46484.0	0.478437	Ok
3	25.20	23.10	25990.8	31980.7	0.812704	Ok
4	25.20	69.30	56374.9	57936.0	0.973054	Ok
5	71.40	-69.30	51382.8	86691.8	0.592706	Ok
6	71.40	-23.10	22347.8	70006.0	0.319228	Ok
7	71.40	23.10	26083.4	72069.1	0.361923	Ok
8	71.40	69.30	56417.6	86691.8	0.650784	Ok

Legenda

$F_{v,Ed}$ forza di taglio agente sul bullone

$F_{v,Rd}$ resistenza a taglio di progetto del bullone

$$FV = F_{v,Ed} / F_{v,Rd}$$

$$VER \rightarrow FV \leq 1$$

Verifica a trazione sezione forata (Nodo n. 1285, CMB n. 459)

Resistenza plastica della sezione lorda	$N_{pl,Rd} = A \cdot f_{yk} / \gamma_{M0} =$	1818953.0 N
Resistenza a rottura della sezione al netto dei fori	$N_{u,Rd} = 0,9 \cdot A_{net} \cdot f_{tk} / \gamma_{M2} =$	1426499.0 N
Resistenza di calcolo a trazione	$N_{t,Rd} = \min [N_{u,Rd} , N_{pl,Rd}] =$	1426499.0 N
Azione assiale di calcolo	$N_{Ed} =$	284500.0 N
$N_{Ed} / N_{t,Rd} = 0.199439 \quad Ok$		

Controllo influenza fori sul momento resistente

Resistenza a rottura della piattabanda al netto dei fori	$N_{u,Rd} = 0.9 \cdot A_{f,net} \cdot f_{tk} / \gamma_{M2} =$	424336.3 N
Resistenza plastica della piattabanda lorda	$N_{pl,Rd} = A_f \cdot f_{yk} / \gamma_{M0} =$	542642.9 N
$N_{u,Rd} \geq N_{pl,Rd} \rightarrow 424336.3 < 542642.9$		

E' necessario considerare la presenza dei fori nel calcolo del momento resistente dell'elemento.

Per effettuare la verifica a flessione della sezione forata è necessario eseguire la seguente procedura: nel modello della struttura da cui è stato generato il nodo, selezionare *Dati struttura* → *Sezioni*, individuare nell'archivio la sezione corrispondente al profilo utilizzato, selezionare la scheda *Progetto acciaio*, assegnare le proprietà di massa riportate di seguito e riprogettare la struttura.

• **Profilo IPE 300** $A_{eff.} = 38.85 \text{ cm}^2$ $J_{r2-2} = 403.59 \text{ cm}^4$ $J_{r3-3} = 6313.21 \text{ cm}^4$

Verifica dei coprigiunti d'ala

Resistenze

Resistenza plastica della sezione lorda	$N_{pl,Rd} = A \cdot f_{yk} / \gamma_{M0} =$	608571.4 N
Resistenza a rottura della sezione al netto dei fori	$N_{u,Rd} = 0.9 \cdot A_{net} \cdot f_{tk} / \gamma_{M2} =$	475891.2 N
Resistenza di calcolo a trazione	$N_{t,Rd} = \min [N_{u,Rd} , N_{pl,Rd}] =$	475891.2 N
Resistenza di calcolo a compressione	$N_{c,Rd} = N_{pl,Rd} =$	608571.4 N
Resistenza di calcolo a taglio	$V_{c,Rd} = A_v \cdot f_{yk} / (3^{1/2} \cdot \gamma_{M0}) =$	351358.9 N
Resistenza di calcolo a flessione retta	$M_{c,Rd} = W_{pl} \cdot f_{yk} / \gamma_{M0} =$	22821430.0 N mm

Verifica per sforzo normale (Nodo n. 111, CMB n. 31)

Azione assiale di calcolo	$N_{Ed} =$	229186.2 N
$N_{Ed} / N_{t,Rd} = 0.481594 \quad Ok$		

Verifica per taglio (Nodo n. 112, CMB n. 460)

Azione tagliante di calcolo	$V_{Ed} =$	37420.6 N
$V_{Ed} / V_{c,Rd} = 0.106502 \quad Ok$		

Verifica per momento (Nodo n. 112, CMB n. 460)

Riduzione per effetto dello sforzo normale:	$N_{Ed} = 90504.3 \text{ N}$	
$M_{N,Rd} = M_{c,Rd} \cdot \min [1 , (1 - N_{Ed} / N_{pl,Rd}) / 0.75] = 22821430.0 \text{ N mm}$		
Riduzione per effetto del taglio:	$V_{Ed} = 37420.6 \text{ N}$	
$V_{Ed} < 0.5 \cdot V_{c,Rd} \rightarrow \rho = 0$		
Momento flettente di calcolo	$M_{Ed} =$	-14545000.0 N mm
$M_{Ed} / [M_{N,Rd} \cdot (1-\rho)] = 0.637340 \quad Ok$		

Verifica dei coprigiunti d'anima

Resistenze

Resistenza plastica della sezione lorda	$N_{pl,Rd} = A \cdot f_{yk} / \gamma_{M0} =$	1022400.0 N
Resistenza a rottura della sezione al netto dei fori	$N_{u,Rd} = 0.9 \cdot A_{net} \cdot f_{tk} / \gamma_{M2} =$	616896.0 N
Resistenza di calcolo a trazione	$N_{t,Rd} = \min [N_{u,Rd} , N_{pl,Rd}] =$	616896.0 N
Resistenza di calcolo a compressione	$N_{c,Rd} = N_{pl,Rd} =$	1022400.0 N
Resistenza di calcolo a taglio	$V_{c,Rd} = A_v \cdot f_{yk} / (3^{1/2} \cdot \gamma_{M0}) =$	590282.9 N
Resistenza di calcolo a flessione retta	$M_{c,Rd} = W_{pl} \cdot f_{yk} / \gamma_{M0} =$	48308400.0 N mm

Verifica per sforzo normale (Nodo n. 1285, CMB n. 459)

Azione assiale di calcolo	$N_{Ed} =$	93338.2 N
$N_{Ed} / N_{t,Rd} = 0.151303 \quad Ok$		

Verifica per taglio (Nodo n. 112, CMB n. 167)

Azione tagliante di calcolo	$V_{Ed} =$	16880.6 N
$V_{Ed} / V_{c,Rd} = 0.028597 \quad Ok$		

Verifica per momento (Nodo n. 695, CMB n. 31)

Riduzione per effetto dello sforzo normale:	$N_{Ed} = -21240.2 \text{ N}$	
---	-------------------------------	--

$M_{N,Rd} = M_{c,Rd} \cdot \min [1 , (1 - N_{Ed} / N_{pl,Rd}) / 0.75] = 48308400.0 \text{ N mm}$
Riduzione per effetto del taglio: $V_{Ed} = -566.2 \text{ N}$

$V_{Ed} < 0.5 \cdot V_{c,Rd} \rightarrow \rho = 0$

Momento flettente di calcolo

$M_{Ed} =$

18916370.0 N mm

$M_{Ed} / [M_{N,Rd} \cdot (1-\rho)] = 0.391575 \text{ Ok}$

Verifica del momento di progetto del giunto (Nodo n. 695, CMB n. 31)

Momento resistente del giunto

$M_{j,Rd} = 148478000.0 \text{ N mm}$

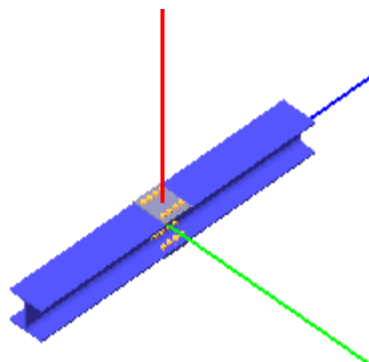
Momento di progetto

$M_{j,Ed} = 96590000.0 \text{ N mm}$

$M_{j,Ed} / M_{j,Rd} = 0.650534 \text{ Ok}$

COLLEGAMENTO INTERRUZIONE CORRENTE SUPERIORE CAPRIATA

Verifica secondo il D.M. 17/01/2018 dei nodi: 85, 86, 87, 93, 94, 351, 352, 1272, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284



Coefficienti di sicurezza utilizzati

$\gamma_{M0} = 1.05$

$\gamma_{M1} = 1.10$

$\gamma_{M2} = 1.25$

Trave 3

Tipo di profilo: HEA 200

Materiale: Acciaio S355 $f_y = 355 \text{ N/mm}^2$ $f_t = 510 \text{ N/mm}^2$ $\gamma_{ov} = 1.25$

Classe sezione: 1

Coprigiunti:

Materiale: Acciaio S355 $f_y = 355 \text{ N/mm}^2$ $f_t = 510 \text{ N/mm}^2$ $\gamma_{ov} = 1.25$

Coprigiunti ala [mm]: 200.0 x 156.4 x 10 (piastra esterna)

Coprigiunti anima [mm]: 115.6 x 156.4 x 8 (due piastre)

Bullonature:

Viti cl. 8.8 Dadi 8 o 10 ($f_{yb} = 640 \text{ N/mm}^2$, $f_{tb} = 800 \text{ N/mm}^2$)

Diametro gambo $\varnothing = 16 \text{ mm}$ $A_{res} = 156.8 \text{ mm}^2$ (ridotta per filettatura)

Diametro dado/testa $d_m = 24 \text{ mm}$

Diametro foro $\varnothing_0 = 17 \text{ mm}$

Numero superfici di taglio: ala $n_{sl} = 1$, anima $n_{sn} = 2$

Sollecitazioni:

Nodo.CMB	V2 [N]	V3 [N]	N [N]	M2 [N mm]	M3 [N mm]	T [N mm]
85.1	-1104.6	24.5	-4708.0	-63422.0	6438000.0	42.0
85.2	-807.7	22.2	-3758.9	-51837.0	5214000.0	35.0
85.3	-1091.0	32.5	-4935.0	-74328.0	6078000.0	50.0
85.4	-793.1	25.0	-3989.3	-56000.0	4854000.0	43.0
85.5	-1058.8	146.0	-7505.2	-281004.0	15470000.0	64.0
85.6	-824.2	16.1	-6845.2	-58789.0	14250000.0	53.0
85.7	-1032.5	370.6	-14460.3	-699585.0	1827000.0	121.0
85.8	-750.0	335.1	-13583.0	-635091.0	603293.0	115.0
85.9	-971.1	427.5	-11690.6	-834075.0	2965000.0	117.0
85.10	-759.9	246.3	-11172.2	-467785.0	1741000.0	92.0
85.11	-964.6	423.4	-11941.4	-831491.0	2604000.0	124.0
85.12	-691.5	374.8	-11100.3	-738641.0	1380000.0	116.0
85.13	-1039.7	297.7	-15081.9	-559816.0	12000000.0	115.0
85.14	-760.8	268.9	-14201.7	-506848.0	10780000.0	108.0
85.15	-1112.1	7.5	-5746.9	-50035.0	5990000.0	48.0
85.16	-1092.6	28.6	-3674.9	-61508.0	6887000.0	37.0
85.17	-817.2	21.8	-4783.2	-58621.0	4766000.0	41.0
85.18	-797.2	21.4	-2733.1	-44005.0	5663000.0	29.0

85.19	-1035.8	188.9	-6022.3	-369800.0	5691000.0	59.0
85.20	-1084.7	31.1	-2985.5	-60028.0	7185000.0	33.0
85.21	-760.9	147.0	-5168.5	-289856.0	4467000.0	50.0
85.22	-791.9	13.5	-2061.1	-30767.0	5961000.0	26.0
85.23	-1053.4	135.1	-5722.8	-263036.0	5629000.0	60.0
85.24	-1073.4	31.6	-3896.4	-66553.0	6526000.0	44.0
85.25	-808.2	25.0	-5023.6	-63254.0	4405000.0	49.0
85.26	-783.6	10.1	-2981.9	-31606.0	5302000.0	38.0
85.27	-1037.1	204.4	-8384.8	-398172.0	15020000.0	74.0
85.28	-1111.1	17.5	-6770.0	-62334.0	15920000.0	55.0
85.29	-826.6	20.8	-7852.1	-70976.0	13800000.0	56.0
85.30	-819.5	19.7	-5825.6	-55887.0	14700000.0	47.0
85.31	-1028.0	395.5	-15425.8	-746347.0	1379000.0	127.0
85.32	-1017.4	340.9	-13464.7	-652619.0	2275000.0	116.0
85.33	-748.1	360.9	-14551.6	-682437.0	155095.0	120.0
85.34	-738.2	305.9	-12593.3	-588017.0	1052000.0	110.0
85.35	-975.6	489.1	-13295.7	-943205.9	2218000.0	126.0
85.36	-1007.6	324.1	-10227.6	-631077.0	3712000.0	100.0
85.37	-701.2	440.7	-12452.4	-851566.0	993680.9	118.0
85.38	-775.4	193.4	-9597.6	-364962.0	2488000.0	80.0
85.39	-981.5	465.6	-12668.2	-898488.0	2516000.0	122.0
85.40	-1001.2	344.1	-10858.8	-669853.0	3413000.0	105.0
85.41	-707.0	417.4	-11823.9	-806969.0	1292000.0	113.0
85.42	-772.9	207.3	-10246.5	-390946.0	2189000.0	84.0
85.43	-954.6	458.2	-12881.8	-898687.0	2156000.0	131.0
85.44	-974.4	388.6	-11000.8	-764169.0	3052000.0	118.0
85.45	-681.6	409.4	-12040.8	-805728.0	931617.0	124.0
85.46	-701.2	339.9	-10159.3	-671299.0	1828000.0	110.0
85.47	-1035.3	318.6	-16054.0	-598771.0	11550000.0	121.0
85.48	-1044.9	276.9	-14112.0	-520858.0	12450000.0	109.0
85.49	-755.0	289.8	-15169.8	-545963.0	10330000.0	115.0
85.50	-766.0	247.9	-13231.9	-467740.0	11220000.0	103.0
85.51	220.3	167.7	-9697.8	-423271.0	5505000.0	592.0
85.52	418.6	90.4	-9051.8	-286551.0	4281000.0	577.0
85.53	905.6	124.1	-13619.3	-425425.0	4882000.0	942.0
85.54	1126.1	87.6	-12870.2	-349798.0	3658000.0	926.0
85.55	231.2	167.2	-9937.9	-423479.0	5144000.0	599.0
85.56	430.3	89.7	-9291.0	-286338.0	3920000.0	585.0
85.57	279.0	200.5	-12589.7	-493522.0	14540000.0	616.0
85.58	488.7	162.7	-11873.8	-423600.0	13320000.0	602.0
85.59	172.0	366.6	-19676.3	-740814.0	893751.0	715.0
85.60	454.0	338.1	-18810.4	-691609.0	-330256.0	703.0
85.61	177.4	311.0	-17223.9	-644588.0	2031000.0	690.0
85.62	488.0	276.5	-16339.9	-596923.0	807101.0	675.0
85.63	1274.5	397.2	-20286.8	-947317.0	1408000.0	1036.0
85.64	1507.0	363.0	-19510.3	-876115.1	184470.0	1024.0
85.65	229.3	304.0	-17427.6	-647180.0	1670000.0	695.0
85.66	503.0	274.9	-16574.2	-595591.0	446227.0	683.0
85.67	229.3	365.6	-20101.5	-769313.0	11070000.0	714.0
85.68	505.6	339.8	-19241.1	-719484.0	9842000.0	701.0
85.69	-2274.7	272.3	-7922.4	-301642.0	5505000.0	-484.0
85.70	-1969.3	239.7	-6961.7	-255559.0	4281000.0	-487.0
85.71	-3011.8	359.7	-9957.6	-365762.0	4882000.0	-826.0
85.72	-2697.9	304.2	-8953.6	-289855.0	3658000.0	-824.0
85.73	-2262.7	270.7	-8161.4	-300928.0	5144000.0	-476.0
85.74	-1959.4	238.0	-7204.2	-254573.0	3920000.0	-479.0
85.75	-2321.4	328.7	-11049.6	-384974.0	14540000.0	-472.0
85.76	-1999.6	285.7	-10056.9	-321553.0	13320000.0	-476.0
85.77	-2494.8	556.7	-18613.5	-706572.0	893609.0	-435.0
85.78	-2175.1	522.2	-17632.6	-659717.0	-330378.0	-441.0
85.79	-2442.5	466.1	-15962.8	-583100.0	2031000.0	-448.0
85.80	-2142.6	433.6	-15018.2	-536338.0	807013.0	-453.0

85.81	-3195.8	542.7	-18039.6	-629082.0	1409000.0	-795.0
85.82	-2860.3	501.6	-17018.3	-568032.0	184535.0	-799.0
85.83	-2435.2	465.7	-16208.3	-583319.0	1670000.0	-440.0
85.84	-2130.7	432.9	-15256.4	-536796.0	446135.0	-444.0
85.85	-2462.3	487.7	-19011.4	-617853.0	11070000.0	-434.0
85.86	-2159.4	457.1	-18063.2	-573545.0	9841000.0	-438.0
85.87	-1252.3	195.2	-7070.2	-437527.0	5184000.0	1425.0
85.88	-973.2	159.3	-6222.7	-366391.0	3960000.0	1412.0
85.89	-1317.6	216.9	-7949.3	-496945.0	4773000.0	1872.0
85.90	-1038.1	183.4	-7099.4	-429149.0	3549000.0	1858.0
85.91	-1251.0	196.5	-7322.2	-439576.0	4823000.0	1434.0
85.92	-958.7	159.7	-6454.9	-368711.0	3599000.0	1420.0
85.93	-1231.1	248.5	-9997.2	-548994.0	14220000.0	1448.0
85.94	-1098.2	-112.4	-9869.5	44954.0	12990000.0	1433.0
85.95	-1263.5	225.1	-8037.8	-492188.0	4735000.0	1437.0
85.96	-1267.3	154.5	-6172.1	-348147.0	5632000.0	1409.0
85.97	-969.9	185.4	-7171.5	-418445.0	3511000.0	1423.0
85.98	-987.0	121.0	-5317.9	-283785.0	4408000.0	1397.0
85.99	-1275.3	244.8	-8674.2	-521173.0	4437000.0	1446.0
85.100	-1268.8	138.5	-5535.6	-317146.0	5931000.0	1402.0
85.101	-992.6	205.7	-7826.4	-448266.0	3213000.0	1433.0
85.102	-976.7	103.7	-4671.5	-254873.0	4707000.0	1389.0
85.103	-1344.0	247.6	-8922.3	-545164.0	4325000.0	1885.0
85.104	-1334.3	176.3	-7056.6	-405437.0	5221000.0	1855.0
85.105	-1061.3	210.1	-8074.4	-473278.0	3101000.0	1872.0
85.106	-1053.6	143.5	-6201.2	-342046.0	3997000.0	1843.0
85.107	-1228.1	249.3	-8190.2	-553334.0	4375000.0	1447.0
85.108	-1367.4	-95.5	-6957.3	40098.0	5271000.0	1417.0
85.109	-967.9	187.4	-7421.4	-421751.0	3151000.0	1433.0
85.110	-1050.7	-48.1	-5936.5	-6572.0	4047000.0	1402.0
85.111	-1430.0	-121.0	-11845.1	47408.0	13770000.0	1457.0
85.112	-1235.6	222.1	-9047.9	-496917.0	14670000.0	1437.0
85.113	-977.8	218.8	-10170.8	-472922.0	12550000.0	1446.0
85.114	-1088.4	-105.0	-8847.9	43196.0	13440000.0	1423.0
85.115	162.3	236.9	-12154.9	-612077.0	4250000.0	1948.0
85.116	388.9	184.2	-11416.5	-506079.0	3026000.0	1934.0
85.117	934.2	270.4	-15792.6	-728279.0	3627000.0	2301.0
85.118	1088.3	190.4	-15256.3	-592056.0	2403000.0	2283.0
85.119	148.6	252.7	-12951.6	-662921.0	3839000.0	2393.0
85.120	388.8	224.3	-12155.1	-600909.0	2615000.0	2381.0
85.121	176.7	235.8	-12389.8	-611612.0	3889000.0	1957.0
85.122	396.5	184.4	-11667.7	-508814.0	2665000.0	1942.0
85.123	223.3	253.5	-15070.7	-653875.0	13280000.0	1971.0
85.124	444.0	230.8	-14302.1	-603977.0	12060000.0	1958.0
85.125	-2586.5	290.5	-10924.3	-371371.0	4250000.0	848.0
85.126	-2227.5	227.9	-9850.6	-279758.0	3026000.0	846.0
85.127	-3237.0	391.4	-12850.0	-453253.0	3627000.0	503.0
85.128	-2931.6	353.1	-11879.0	-394941.0	2403000.0	500.0
85.129	-2657.8	298.7	-11855.2	-398686.0	3839000.0	1284.0
85.130	-2341.2	216.3	-10837.6	-278100.0	2615000.0	1283.0
85.131	-2563.9	290.6	-11144.0	-372950.0	3889000.0	857.0
85.132	-2204.4	219.6	-10066.3	-270386.0	2665000.0	854.0
85.133	-2597.0	335.4	-13975.6	-439271.0	13280000.0	862.0
85.134	-2286.1	304.1	-13013.7	-393480.0	12060000.0	859.0
85.135	-917.6	303.1	-7553.8	-374015.0	5183000.0	-1276.0
85.136	-608.8	205.4	-6537.2	-252099.0	3960000.0	-1274.0
85.137	-848.8	322.8	-8440.1	-394484.0	4773000.0	-1701.0
85.138	-553.0	281.6	-7495.8	-339258.0	3549000.0	-1703.0
85.139	-896.5	277.0	-7754.1	-345231.0	4823000.0	-1264.0
85.140	-602.6	236.0	-6813.8	-290012.0	3599000.0	-1267.0
85.141	-916.3	335.4	-10574.1	-424252.0	14220000.0	-1261.0
85.142	-616.4	295.4	-9623.0	-370301.0	12990000.0	-1264.0

85.143	-921.8	335.9	-8568.3	-418773.0	4735000.0	-1273.0
85.144	-892.8	202.6	-6444.9	-250077.0	5632000.0	-1272.0
85.145	-629.9	290.9	-7626.0	-358023.0	3511000.0	-1277.0
85.146	-599.9	158.2	-5500.8	-188089.0	4408000.0	-1276.0
85.147	-925.1	357.7	-9245.2	-448682.0	4437000.0	-1271.0
85.148	-884.4	171.9	-5750.8	-208589.0	5930000.0	-1273.0
85.149	-632.6	312.7	-8301.7	-387617.0	3213000.0	-1275.0
85.150	-596.6	144.9	-4831.9	-168463.0	4707000.0	-1279.0
85.151	-852.1	352.5	-9449.9	-435282.0	4324000.0	-1698.0
85.152	-831.0	255.4	-7372.0	-308989.0	5221000.0	-1700.0
85.153	-560.9	311.7	-8513.2	-379790.0	3100000.0	-1702.0
85.154	-533.8	195.5	-6404.9	-227170.0	3997000.0	-1702.0
85.155	-905.3	307.2	-8772.7	-385845.0	4374000.0	-1263.0
85.156	-869.7	169.1	-6633.6	-208463.0	5271000.0	-1261.0
85.157	-609.2	265.9	-7828.2	-330505.0	3150000.0	-1265.0
85.158	-582.8	145.8	-5719.4	-172441.0	4047000.0	-1267.0
85.159	-920.6	364.7	-11584.6	-465125.0	13770000.0	-1258.0
85.160	-904.1	306.5	-9549.7	-385005.0	14670000.0	-1264.0
85.161	-628.2	324.2	-10646.4	-409244.0	12550000.0	-1262.0
85.162	-614.0	265.8	-8615.5	-329540.0	13440000.0	-1267.0
85.163	345.8	248.8	-12466.8	-518142.0	4250000.0	-691.0
85.164	602.0	214.8	-11651.2	-453479.0	3026000.0	-704.0
85.165	1153.4	242.7	-16161.4	-596444.0	3627000.0	-343.0
85.166	1406.2	166.8	-15395.0	-464584.0	2403000.0	-355.0
85.167	411.8	278.7	-13336.0	-561007.0	3839000.0	-1113.0
85.168	668.6	244.3	-12520.1	-495759.0	2615000.0	-1127.0
85.169	366.1	269.4	-12653.2	-566093.0	3889000.0	-680.0
85.170	614.0	214.2	-11889.2	-453495.0	2665000.0	-696.0
85.171	422.8	271.8	-15348.4	-563051.0	13280000.0	-671.0
85.172	649.4	243.5	-14571.9	-509477.0	12060000.0	-682.0
85.173	-2171.0	406.6	-10876.8	-454116.0	4250000.0	-1787.0
85.174	-1844.9	374.5	-9885.2	-408083.0	3026000.0	-1791.0
85.175	-2877.7	497.6	-12872.3	-521024.0	3627000.0	-2131.0
85.176	-2574.2	463.7	-11917.0	-474856.0	2403000.0	-2134.0
85.177	-2110.7	413.9	-11755.2	-446469.0	3839000.0	-2213.0
85.178	-1798.9	394.7	-10802.0	-419932.0	2615000.0	-2217.0
85.179	-2152.8	406.4	-11106.7	-456011.0	3889000.0	-1779.0
85.180	-1838.1	374.0	-10134.1	-408847.0	2665000.0	-1783.0
85.181	-2200.4	436.9	-13948.4	-497304.0	13280000.0	-1775.0
85.182	-1883.2	407.3	-12976.2	-455536.0	12060000.0	-1778.0
85.183	-1024.3	35.5	-4520.1	-80880.0	6438000.0	63.0
85.184	-726.1	15.5	-3612.1	-55146.0	5214000.0	52.0
85.185	-1006.4	32.7	-4755.3	-80860.0	6077000.0	71.0
85.186	-715.8	13.9	-3853.9	-54112.0	4853000.0	60.0
85.187	-976.3	19.3	-4472.2	-75013.0	6438000.0	66.0
85.188	-709.8	10.5	-3583.2	-55251.0	5214000.0	53.0
85.189	-1038.0	66.6	-7532.7	-125562.0	15470000.0	84.0
85.190	-745.6	46.6	-6629.2	-97129.0	14250000.0	73.0
85.191	-1110.0	-24.4	-15132.2	-90648.0	1827000.0	135.0
85.192	-842.0	136.0	-13890.5	-227799.0	603257.0	143.0
85.193	-1084.0	8.4	-12494.8	-111247.0	2965000.0	114.0
85.194	-810.3	136.9	-11306.3	-220770.0	1741000.0	119.0
85.195	-1036.0	104.0	-12566.9	-222577.0	2604000.0	114.0
85.196	-803.7	129.4	-11562.8	-212038.0	1380000.0	128.0
85.197	-1061.9	147.1	-12147.1	-244830.0	2964000.0	139.0
85.198	-772.1	127.7	-11245.4	-216372.0	1740000.0	128.0
85.199	-1082.2	41.4	-15507.5	-165307.0	12000000.0	132.0
85.200	-870.1	49.9	-14534.8	-123919.0	10780000.0	150.0
85.201	-1196.0	217.5	-6921.9	-497106.0	5183000.0	1434.0
85.202	-1001.9	-4.1	-6531.0	-67808.0	3959000.0	1404.0
85.203	-1245.0	241.3	-7767.3	-563902.0	4772000.0	1883.0
85.204	-984.0	203.4	-6956.8	-484762.0	3548000.0	1863.0

85.205	-1197.2	193.4	-7226.9	-442098.0	4822000.0	1439.0
85.206	-993.4	-6.7	-6777.7	-65388.0	3599000.0	1413.0
85.207	-1223.6	5.2	-7344.0	-100328.0	5183000.0	1415.0
85.208	-933.0	-7.7	-6436.9	-81600.0	3959000.0	1403.0
85.209	-1179.4	247.0	-9900.1	-554436.0	14220000.0	1456.0
85.210	-1007.7	-10.6	-9593.5	-72183.0	12990000.0	1427.0
85.211	-803.4	157.1	-7229.0	-203997.0	5183000.0	-1248.0
85.212	-525.5	137.5	-6332.4	-172086.0	3959000.0	-1256.0
85.213	-739.7	193.1	-8130.9	-237598.0	4772000.0	-1677.0
85.214	-457.8	176.0	-7233.5	-212027.0	3548000.0	-1682.0
85.215	-792.7	156.7	-7472.4	-205374.0	4822000.0	-1240.0
85.216	-514.4	136.4	-6574.1	-172458.0	3598000.0	-1248.0
85.217	-782.4	148.1	-7191.8	-200297.0	5183000.0	-1240.0
85.218	-458.2	118.6	-6230.6	-164715.0	3959000.0	-1245.0
85.219	-797.4	183.2	-10234.7	-247051.0	14220000.0	-1232.0
85.220	-516.1	163.8	-9334.1	-215688.0	12990000.0	-1239.0
85.221	-1085.8	96.7	-4573.3	-180914.0	6438000.0	47.0
85.222	-822.6	21.9	-3785.2	-50351.0	5214000.0	38.0
85.223	-1101.0	43.7	-4940.9	-86556.0	6078000.0	54.0
85.224	-801.8	28.8	-4000.4	-59818.0	4854000.0	46.0
85.225	-1094.4	98.6	-4585.9	-181498.0	6438000.0	46.0
85.226	-834.3	3.0	-3823.8	-24934.0	5215000.0	39.0
85.227	-1057.0	179.4	-7449.1	-347149.0	15470000.0	71.0
85.228	-779.3	141.7	-6584.0	-275660.0	14250000.0	62.0
85.229	-1076.5	345.3	-14580.8	-636305.0	1827000.0	123.0
85.230	-774.8	340.2	-13619.2	-637510.0	603381.0	122.0
85.231	-1063.0	282.7	-12086.5	-528625.0	2965000.0	100.0
85.232	-785.9	251.0	-11211.7	-469935.0	1741000.0	98.0
85.233	-1056.2	280.3	-12338.3	-527869.0	2604000.0	107.0
85.234	-775.3	248.6	-11457.3	-469811.0	1380000.0	103.0
85.235	-1077.7	286.1	-12107.5	-529995.0	2965000.0	102.0
85.236	-793.7	253.2	-11223.2	-471342.0	1741000.0	97.0
85.237	-1065.3	302.1	-15120.8	-561866.0	12000000.0	122.0
85.238	-785.1	273.0	-14238.2	-508795.0	10780000.0	116.0
85.239	-1256.8	197.1	-7076.9	-439268.0	5184000.0	1427.0
85.240	-978.6	158.8	-6234.1	-364413.0	3960000.0	1415.0
85.241	-1321.6	217.6	-7956.5	-496941.0	4773000.0	1875.0
85.242	-1043.8	181.7	-7112.8	-425350.0	3549000.0	1863.0
85.243	-1244.5	194.9	-7316.4	-437456.0	4823000.0	1436.0
85.244	-963.5	158.6	-6465.9	-365845.0	3599000.0	1424.0
85.245	-1274.5	178.8	-7145.2	-393703.0	5184000.0	1423.0
85.246	-992.0	145.3	-6286.7	-329275.0	3960000.0	1412.0
85.247	-1256.1	228.1	-10081.3	-496035.0	14220000.0	1450.0
85.248	-964.0	191.8	-9207.6	-428292.0	12990000.0	1437.0
85.249	-950.6	333.0	-7640.0	-407568.0	5184000.0	-1276.0
85.250	-642.1	218.8	-6608.6	-265834.0	3960000.0	-1273.0
85.251	-873.7	321.7	-8485.2	-391504.0	4773000.0	-1698.0
85.252	-584.8	281.0	-7550.8	-335812.0	3549000.0	-1701.0
85.253	-927.0	276.5	-7808.4	-342247.0	4823000.0	-1262.0
85.254	-630.7	235.0	-6861.7	-286495.0	3599000.0	-1264.0
85.255	-969.6	331.5	-7672.8	-404007.0	5184000.0	-1275.0
85.256	-598.2	83.1	-6350.9	-47990.0	3960000.0	-1272.0
85.257	-942.5	334.5	-10621.2	-421317.0	14220000.0	-1257.0
85.258	-644.6	294.6	-9671.7	-367243.0	12990000.0	-1261.0
85.401	6148.6	142.3	-172.7	-670292.0	2459000.0	3477.0
85.402	4719.3	177.1	-1387.9	-773902.0	4969000.0	3687.0
85.403	5194.8	-130.1	-1473.0	-192904.0	2636000.0	4097.0
85.404	3825.8	-97.7	-2589.2	-294294.0	5146000.0	4308.0
85.405	-5283.5	630.6	-2705.1	-579625.0	1846000.0	-4218.0
85.406	-6788.8	708.1	-4149.7	-661509.0	4357000.0	-4062.0
85.407	-6551.7	440.1	-3856.3	-306191.0	2023000.0	-3567.0
85.408	-8075.7	510.2	-5339.7	-379385.0	4533000.0	-3414.0

85.409	6066.7	8.6	-378.4	-468474.0	2454000.0	3479.0
85.410	4616.3	69.7	-1589.1	-609958.0	4964000.0	3690.0
85.411	5334.4	28.6	-1119.5	-431529.0	2641000.0	4094.0
85.412	3960.7	34.4	-2285.1	-493791.0	5151000.0	4304.0
85.413	-5299.6	639.0	-2578.8	-588056.0	1841000.0	-4210.0
85.414	-6815.0	711.7	-4042.6	-663586.0	4352000.0	-4055.0
85.415	-6467.7	433.8	-3849.1	-300915.0	2028000.0	-3570.0
85.416	-7978.0	495.8	-5293.4	-359611.0	4538000.0	-3418.0
85.417	5951.0	154.2	-5259.3	-638424.0	2491000.0	3107.0
85.418	4561.6	165.0	-6467.0	-715229.0	5001000.0	3313.0
85.419	4967.4	-121.4	-6573.5	-145232.0	2667000.0	3711.0
85.420	3622.6	-141.5	-7747.8	-174864.0	5178000.0	3920.0
85.421	-5159.9	596.1	2278.9	-561526.0	1814000.0	-3822.0
85.422	-6704.4	669.3	811.0	-629948.0	4325000.0	-3661.0
85.423	-6309.3	385.1	1260.8	-274715.0	1991000.0	-3181.0
85.424	-7899.3	440.7	-307.1	-324376.0	4501000.0	-3024.0
85.425	5938.8	14.8	-5343.2	-429300.0	2486000.0	3127.0
85.426	4554.2	35.4	-6535.0	-522433.0	4996000.0	3333.0
85.427	5100.9	47.3	-6227.0	-402142.0	2672000.0	3702.0
85.428	3763.7	43.4	-7367.1	-456718.0	5183000.0	3910.0
85.429	-5134.4	592.9	2415.5	-565900.0	1809000.0	-3823.0
85.430	-6688.7	650.4	933.3	-613618.0	4320000.0	-3660.0
85.431	-6272.1	387.6	1231.2	-271429.0	1996000.0	-3181.0
85.432	-7838.6	454.9	-270.3	-328918.0	4506000.0	-3025.0
85.433	2989.0	332.0	-20.6	-757519.0	2039000.0	-35.0
85.434	1570.3	401.8	-1225.1	-901451.9	4549000.0	146.0
85.435	329.2	-473.7	-3146.9	538275.0	2628000.0	2106.0
85.436	-1112.1	-537.9	-4501.5	600490.0	5138000.0	2317.0
85.437	117.9	499.2	-487.2	-579507.0	1855000.0	-2172.0
85.438	-1377.5	590.1	-1844.5	-708547.0	4365000.0	-1998.0
85.439	-3895.7	-157.0	-4307.0	396609.0	2444000.0	-119.0
85.440	-5358.2	-174.1	-5705.7	426829.0	4954000.0	45.0
85.441	3053.2	316.3	-1410.2	-731510.0	2048000.0	-102.0
85.442	1645.9	392.3	-2601.2	-882665.1	4559000.0	92.0
85.443	274.1	-441.9	-4579.6	518687.0	2638000.0	1985.0
85.444	-1143.2	-511.9	-5914.9	589503.0	5148000.0	2188.0
85.445	91.7	501.5	984.7	-584286.0	1846000.0	-2108.0
85.446	-1433.2	592.5	-416.6	-717930.0	4356000.0	-1938.0
85.447	-3845.3	-187.4	-2891.5	404749.0	2434000.0	5.1
85.448	-5337.8	-206.0	-4327.2	439634.0	4945000.0	169.0
85.449	2754.9	-36.9	-567.0	-211482.0	2022000.0	-38.0
85.450	1283.3	-27.1	-1931.5	-265121.0	4533000.0	146.0
85.451	679.5	-75.4	-2236.7	120171.0	2645000.0	2046.0
85.452	-697.6	-58.5	-3391.1	61939.0	5155000.0	2252.0
85.453	84.1	383.9	-194.4	-453583.0	1839000.0	-2231.0
85.454	-1475.2	399.0	-1718.7	-491167.0	4349000.0	-2046.0
85.455	-3686.4	-95.7	-4300.3	336947.0	2460000.0	-153.0
85.456	-5054.4	-53.8	-5464.7	308373.0	4971000.0	18.0
85.457	2758.5	-41.9	-1992.0	-187147.0	2032000.0	-118.0
85.458	1297.3	-33.0	-3352.0	-238515.0	4542000.0	70.0
85.459	608.7	-105.2	-3736.9	199387.0	2654000.0	1914.0
85.460	-744.2	-89.2	-4847.3	157948.0	5165000.0	2115.0
85.461	94.4	327.5	1259.4	-401797.0	1829000.0	-2162.0
85.462	-1473.1	344.7	-272.3	-440932.0	4339000.0	-1994.0
85.463	-3668.9	-96.5	-2797.8	337873.0	2451000.0	-32.0
85.464	-5064.0	-56.0	-3988.4	315107.0	4961000.0	143.0
85.529	3797.7	93.3	506.4	-277788.0	-683625.0	521.0
85.530	-1057.1	245.7	-3740.8	-631279.0	7684000.0	1168.0
85.531	2890.5	-167.1	-676.6	158048.0	-506778.0	1164.0
85.532	-1616.2	-305.2	-4670.6	236622.0	7861000.0	1841.0
85.533	456.3	228.0	-264.4	-229891.0	-867399.0	-1708.0
85.534	-4493.5	435.9	-4876.5	-496734.0	7500000.0	-1158.0

85.535	-942.8	12.3	-1608.6	94515.0	-690721.0	-1074.0
85.536	-5853.2	41.2	-6133.9	105445.0	7677000.0	-552.0
85.537	3726.8	-10.8	353.5	-123251.0	-688623.0	523.0
85.538	-1159.2	134.1	-3951.8	-467336.0	7679000.0	1165.0
85.539	3058.0	8.3	-260.8	-85682.0	-501779.0	1151.0
85.540	-1388.9	40.0	-3920.7	-257654.0	7866000.0	1828.0
85.541	452.3	230.7	-119.0	-230682.0	-872361.1	-1718.0
85.542	-4630.3	365.2	-5013.0	-408619.0	7495000.0	-1166.0
85.543	-881.0	10.1	-1648.5	92232.0	-685745.0	-1081.0
85.544	-5687.5	110.8	-5976.3	11837.0	7682000.0	-553.0
85.545	3787.1	86.0	-948.9	-253424.0	-674084.0	433.0
85.546	-958.1	219.0	-5102.2	-585331.0	7694000.0	1076.0
85.547	2808.3	-151.3	-2195.6	155473.0	-497221.0	1046.0
85.548	-1606.9	-259.2	-6028.9	185357.0	7871000.0	1723.0
85.549	460.4	218.7	1198.8	-219992.0	-876946.0	-1610.0
85.550	-4568.7	417.7	-3467.9	-473886.0	7491000.0	-1025.0
85.551	-859.9	-3.6	-86.4	98391.0	-700249.0	-963.0
85.552	-5839.8	31.4	-4736.3	87961.0	7668000.0	-436.0
85.553	3725.7	-9.1	-1063.5	-110429.0	-679094.0	444.0
85.554	-1067.5	118.7	-5293.2	-435949.0	7689000.0	1087.0
85.555	2952.9	3.7	-1859.6	-57628.0	-492212.0	1031.0
85.556	-1439.7	1.2	-5504.1	-171238.0	7876000.0	1704.0
85.557	527.7	212.9	1406.1	-222152.0	-881888.0	-1616.0
85.558	-4625.4	318.6	-3558.3	-367184.0	7486000.0	-1049.0
85.559	-829.7	-1.7	-136.0	99154.0	-695297.0	-961.0
85.560	-5743.4	87.7	-4575.7	39754.0	7673000.0	-431.0
86.1	-1190.9	-269.7	-5068.3	332617.0	6439000.0	97.0
86.2	-863.8	-157.9	-3982.6	182936.0	5215000.0	74.0
86.3	-1175.4	-266.0	-5313.9	308704.0	6078000.0	108.0
86.4	-853.3	-160.8	-4230.2	179288.0	4854000.0	85.0
86.5	-1214.6	-324.1	-8145.0	394956.0	15470000.0	129.0
86.6	-903.1	-253.2	-7162.8	310254.0	14250000.0	109.0
86.7	-1408.0	-1071.4	-16327.2	1341000.0	1824000.0	240.0
86.8	-1089.4	-974.9	-15284.2	1218000.0	599716.0	218.0
86.9	-1298.6	-747.4	-13306.0	928588.9	2962000.0	198.0
86.10	-1016.8	-661.5	-12348.0	825057.0	1738000.0	178.0
86.11	-1301.0	-731.7	-13587.7	896526.9	2601000.0	209.0
86.12	-994.0	-651.6	-12571.7	797577.0	1377000.0	190.0
86.13	-1352.8	-875.6	-16537.4	1097000.0	12000000.0	232.0
86.14	-1049.0	-781.3	-15540.0	972005.9	10770000.0	212.0
86.15	-1192.5	-329.1	-6166.2	399758.0	5990000.0	109.0
86.16	-1155.5	-175.4	-3926.1	203316.0	6887000.0	81.0
86.17	-890.5	-244.9	-5115.0	293043.0	4766000.0	90.0
86.18	-838.3	-95.9	-2884.1	104765.0	5663000.0	58.0
86.19	-1203.3	-374.5	-6842.2	450680.0	5691000.0	117.0
86.20	-1139.3	-146.4	-3210.0	164833.0	7186000.0	71.0
86.21	-895.5	-295.0	-5817.9	354277.0	4467000.0	96.0
86.22	-820.5	-44.9	-2142.4	44438.0	5962000.0	47.0
86.23	-1207.8	-329.9	-6378.2	399502.0	5629000.0	122.0
86.24	-1135.3	-151.6	-4127.9	166040.0	6526000.0	90.0
86.25	-888.2	-244.3	-5367.9	285744.0	4405000.0	102.0
86.26	-820.7	-62.6	-3082.5	62498.0	5302000.0	67.0
86.27	-1226.4	-373.3	-9193.0	456895.0	15030000.0	143.0
86.28	-1194.4	-270.7	-7107.1	332096.0	15920000.0	116.0
86.29	-918.7	-303.3	-8226.9	376562.0	13800000.0	121.0
86.30	-888.1	-203.9	-6095.5	244874.0	14700000.0	95.0
86.31	-1427.6	-1142.6	-17415.5	1431000.0	1375000.0	254.0
86.32	-1340.8	-842.8	-14998.1	1053000.0	2272000.0	218.0
86.33	-1115.7	-1044.8	-16375.5	1308000.0	151152.0	234.0
86.34	-1030.3	-751.2	-13993.6	929471.0	1048000.0	198.0
86.35	-1369.9	-1011.9	-15321.1	1265000.0	2214000.0	227.0
86.36	-1280.6	-639.3	-11553.0	789489.0	3710000.0	175.0

86.37	-1061.8	-907.7	-14295.4	1131000.0	990429.0	207.0
86.38	-992.1	-555.5	-10574.9	688240.0	2486000.0	155.0
86.39	-1359.9	-957.8	-14608.0	1194000.0	2513000.0	218.0
86.40	-1288.9	-686.8	-12255.7	853259.0	3411000.0	184.0
86.41	-1049.4	-860.4	-13571.8	1072000.0	1289000.0	197.0
86.42	-1003.9	-594.6	-11291.3	736931.0	2187000.0	164.0
86.43	-1316.4	-790.0	-14657.3	968495.0	2153000.0	223.0
86.44	-1285.6	-673.4	-12518.1	824509.9	3050000.0	195.0
86.45	-1009.4	-709.9	-13641.5	869541.0	928672.0	204.0
86.46	-978.0	-595.2	-11499.5	729147.0	1826000.0	176.0
86.47	-1369.5	-936.1	-17609.1	1174000.0	11550000.0	246.0
86.48	-1338.5	-809.1	-15477.4	1010000.0	12450000.0	218.0
86.49	-1061.8	-853.0	-16591.8	1069000.0	10330000.0	226.0
86.50	-1034.3	-713.5	-14478.1	882388.0	11220000.0	198.0
86.51	-231.8	-109.2	-10394.7	248518.0	5505000.0	-26.0
86.52	-34.3	-21.8	-9891.1	67731.0	4281000.0	-33.0
86.53	185.4	-36.3	-14940.8	119314.0	4882000.0	-80.0
86.54	423.9	-34.4	-14126.9	120491.0	3658000.0	-95.0
86.55	-226.7	-107.0	-10645.3	240808.0	5144000.0	-15.0
86.56	-29.1	-20.7	-10143.4	61258.0	3920000.0	-23.0
86.57	-201.8	-125.3	-13312.3	276374.0	14540000.0	1.0
86.58	-14.9	-19.7	-12854.2	53287.0	13320000.0	-5.2
86.59	78.4	528.8	-19195.5	-1165000.0	889688.0	147.0
86.60	321.9	479.7	-18459.1	-1054000.0	-334261.0	126.0
86.61	20.0	438.3	-16961.7	-962830.9	2028000.0	112.0
86.62	220.7	319.6	-16431.6	-704698.0	804081.0	85.0
86.63	524.7	-428.2	-21073.7	924318.0	1405000.0	-32.0
86.64	766.2	-378.5	-20341.7	824212.0	181489.0	-45.0
86.65	-21.8	360.4	-17441.8	-802667.0	1667000.0	116.0
86.66	225.3	319.6	-16683.5	-709043.0	443278.0	96.0
86.67	32.7	420.9	-19985.2	-935648.1	11060000.0	138.0
86.68	269.7	379.5	-19244.5	-840317.0	9840000.0	118.0
86.69	-1903.5	-184.7	-7300.9	195064.0	5504000.0	184.0
86.70	-1598.1	-125.5	-6307.3	121442.0	4281000.0	164.0
86.71	-2391.9	-164.7	-8870.4	148946.0	4882000.0	244.0
86.72	-2081.9	-158.2	-7905.9	147213.0	3658000.0	226.0
86.73	-1902.4	-188.5	-7562.0	198021.0	5144000.0	197.0
86.74	-1595.6	-129.1	-6566.3	123652.0	3920000.0	177.0
86.75	-1950.3	-313.6	-10533.2	349227.0	14540000.0	220.0
86.76	-1634.0	-220.2	-9473.5	238668.0	13320000.0	197.0
86.77	-2227.4	-1049.4	-19058.0	1222000.0	889524.0	349.0
86.78	-1859.1	-832.9	-17747.4	957768.0	-334429.0	320.0
86.79	-2122.7	-774.6	-16039.5	890776.0	2028000.0	305.0
86.80	-1811.8	-705.7	-15011.0	810784.0	803920.0	283.0
86.81	-2618.0	-758.0	-17596.5	860304.0	1405000.0	363.0
86.82	-2281.8	-627.0	-16430.5	708174.0	181188.0	337.0
86.83	-2124.4	-782.5	-16301.2	897851.0	1667000.0	319.0
86.84	-1806.7	-716.0	-15263.6	819978.0	443122.0	298.0
86.85	-2178.6	-865.5	-19267.1	998662.0	11060000.0	340.0
86.86	-1857.7	-798.8	-18221.2	919757.0	9839000.0	319.0
86.87	-1715.8	197.7	-7796.2	-487633.0	5183000.0	71.0
86.88	-1481.1	162.1	-7044.5	-398008.0	3959000.0	52.0
86.89	-1972.8	220.4	-8998.4	-540495.0	4772000.0	66.0
86.90	-1739.3	184.9	-8249.3	-451259.0	3548000.0	47.0
86.91	-1743.2	218.8	-7972.7	-495827.0	4822000.0	88.0
86.92	-1480.4	164.2	-7304.9	-405807.0	3598000.0	64.0
86.93	-1705.2	212.3	-10759.5	-520218.0	14220000.0	101.0
86.94	-1434.5	193.4	-10048.6	-445894.0	12990000.0	86.0
86.95	-1710.8	244.9	-8578.1	-553890.0	4734000.0	90.0
86.96	-1766.1	174.4	-6926.6	-421900.0	5631000.0	58.0
86.97	-1444.1	188.2	-7921.3	-463370.0	3510000.0	66.0
86.98	-1529.4	138.2	-6175.0	-332168.0	4407000.0	39.0

86.99	-1619.1	295.8	-9072.2	-713613.0	4435000.0	99.0
86.100	-1789.5	156.8	-6341.4	-378254.0	5930000.0	49.0
86.101	-1388.0	252.1	-8347.1	-606876.0	3211000.0	79.0
86.102	-1568.3	97.6	-5667.6	-240226.0	4706000.0	28.0
86.103	-1897.0	302.1	-9677.4	-725458.0	4323000.0	85.0
86.104	-2026.3	197.5	-8131.7	-474780.0	5220000.0	53.0
86.105	-1669.1	261.4	-8962.1	-624058.0	3099000.0	65.0
86.106	-1789.9	161.4	-7381.8	-385522.0	3996000.0	34.0
86.107	-1684.4	228.9	-8919.2	-558293.0	4373000.0	97.0
86.108	-1746.3	187.0	-7230.0	-427894.0	5271000.0	73.0
86.109	-1470.5	208.3	-8101.8	-471344.0	3149000.0	83.0
86.110	-1522.0	147.5	-6472.8	-341302.0	4047000.0	54.0
86.111	-1599.9	289.1	-11525.1	-668076.0	13770000.0	123.0
86.112	-1735.3	190.8	-9864.1	-465890.0	14670000.0	88.0
86.113	-1396.8	246.9	-10741.7	-599158.0	12550000.0	100.0
86.114	-1468.2	170.7	-9148.5	-391659.0	13440000.0	73.0
86.115	-1032.8	-219.3	-13989.7	498938.0	4249000.0	-60.0
86.116	-791.7	-185.4	-13252.5	431028.0	3025000.0	-73.0
86.117	-518.4	-277.1	-18001.0	647918.0	3626000.0	-129.0
86.118	-421.7	-56.5	-17996.8	183896.0	2402000.0	-124.0
86.119	-1268.0	-299.8	-15029.0	676068.0	3838000.0	-75.0
86.120	-1017.9	-254.8	-14278.7	584303.0	2614000.0	-88.0
86.121	-1027.7	-217.9	-14241.4	492517.0	3888000.0	-48.0
86.122	-807.7	-154.8	-13612.1	361817.0	2664000.0	-59.0
86.123	-1016.8	-225.0	-16962.8	504897.0	13280000.0	-32.0
86.124	-787.1	-165.0	-16300.8	380561.0	12060000.0	-44.0
86.125	-2915.1	-464.8	-11879.1	531735.0	4249000.0	182.0
86.126	-2588.9	-338.0	-10759.1	377761.0	3025000.0	158.0
86.127	-3320.4	-165.1	-12978.6	154687.0	3626000.0	223.0
86.128	-3028.6	-135.1	-12031.5	119037.0	2402000.0	204.0
86.129	-3225.6	-515.7	-13268.0	599931.0	3837000.0	179.0
86.130	-2913.7	-437.0	-12233.9	506643.0	2613000.0	157.0
86.131	-2907.6	-469.3	-12122.0	530816.0	3888000.0	195.0
86.132	-2562.5	-265.4	-10889.1	288068.0	2664000.0	166.0
86.133	-2921.6	-490.6	-14923.9	552780.0	13280000.0	213.0
86.134	-2611.3	-428.2	-13909.3	480298.0	12060000.0	193.0
86.135	-438.3	-479.4	-6997.2	568433.0	5183000.0	202.0
86.136	-100.3	-414.1	-5949.4	487088.0	3959000.0	180.0
86.137	-176.5	-554.4	-7618.0	657694.0	4771000.0	235.0
86.138	156.6	-492.0	-6574.5	578429.0	3547000.0	213.0
86.139	-420.2	-491.5	-7243.0	576663.0	4822000.0	213.0
86.140	-93.4	-425.4	-6206.3	495501.0	3598000.0	191.0
86.141	-476.7	-580.7	-10195.9	685991.0	14220000.0	236.0
86.142	-133.3	-451.9	-9042.1	529702.0	12990000.0	212.0
86.143	-465.9	-525.7	-8083.5	624350.0	4734000.0	216.0
86.144	-393.4	-432.6	-5898.8	509356.0	5631000.0	186.0
86.145	-143.0	-461.9	-7046.3	547311.0	3510000.0	195.0
86.146	-73.2	-363.0	-4860.9	425817.0	4407000.0	165.0
86.147	-484.0	-559.3	-8808.2	664829.0	4435000.0	226.0
86.148	-369.2	-401.7	-5171.9	469866.0	5930000.0	176.0
86.149	-161.0	-493.1	-7768.9	585011.0	3211000.0	205.0
86.150	-51.6	-331.0	-4134.2	385857.0	4706000.0	154.0
86.151	-203.9	-601.2	-8703.8	714524.0	4323000.0	250.0
86.152	-134.4	-508.5	-6521.6	598492.0	5220000.0	220.0
86.153	119.2	-535.9	-7665.5	635319.0	3099000.0	229.0
86.154	187.4	-439.5	-5479.8	515780.0	3996000.0	198.0
86.155	-458.1	-533.9	-8329.7	632073.0	4373000.0	229.0
86.156	-380.3	-441.9	-6147.9	515440.0	5270000.0	198.0
86.157	-126.0	-472.6	-7293.2	554259.0	3149000.0	207.0
86.158	-63.8	-371.8	-5113.7	432227.0	4046000.0	176.0
86.159	-501.4	-633.0	-11278.6	748484.0	13770000.0	251.0
86.160	-427.1	-467.6	-8987.5	548373.0	14670000.0	218.0

86.161	-181.6	-561.6	-10243.5	663155.0	12550000.0	229.0
86.162	-110.6	-408.9	-7972.2	478542.0	13440000.0	197.0
86.163	725.7	191.5	-11672.4	-438924.0	4249000.0	89.0
86.164	979.0	156.1	-10894.7	-357803.0	3025000.0	70.0
86.165	1115.6	22.5	-16387.1	-56068.0	3626000.0	15.0
86.166	1386.1	-12.6	-15522.2	34417.0	2402000.0	-4.0
86.167	1026.7	218.8	-12133.6	-510870.0	3837000.0	122.0
86.168	1280.0	185.4	-11357.1	-432986.0	2613000.0	102.0
86.169	735.0	189.9	-11913.6	-440833.0	3888000.0	100.0
86.170	984.1	154.5	-11145.4	-359848.0	2664000.0	82.0
86.171	727.4	193.3	-14676.1	-458889.0	13280000.0	120.0
86.172	995.0	166.8	-13853.3	-393534.0	12060000.0	102.0
86.173	-1093.6	-499.5	-9258.2	569336.0	4248000.0	292.0
86.174	-769.2	-399.7	-8164.8	451415.0	3025000.0	268.0
86.175	-1526.2	-318.3	-10541.8	325262.0	3626000.0	342.0
86.176	-1220.0	-259.0	-9554.2	251112.0	2402000.0	323.0
86.177	-819.3	-563.4	-9840.9	641648.0	3837000.0	325.0
86.178	-511.2	-507.7	-8823.7	579712.0	2613000.0	304.0
86.179	-1073.9	-456.1	-9427.8	514969.0	3888000.0	302.0
86.180	-768.2	-405.0	-8425.4	456849.0	2664000.0	281.0
86.181	-1154.5	-643.2	-12565.4	733074.0	13280000.0	329.0
86.182	-803.7	-474.6	-11327.0	537351.0	12060000.0	303.0
86.183	-1078.9	38.5	-4484.3	-141248.0	6439000.0	80.0
86.184	-831.9	-9.5	-3754.0	-19492.0	5215000.0	56.0
86.185	-1082.3	27.8	-4768.4	-118869.0	6078000.0	90.0
86.186	-826.0	-4.9	-3993.3	-30801.0	4854000.0	67.0
86.187	-1133.1	-14.4	-4683.5	-25599.0	6439000.0	66.0
86.188	-851.0	-11.6	-3780.7	-22484.0	5215000.0	47.0
86.189	-1035.2	99.3	-7297.3	-290387.0	15470000.0	116.0
86.190	-780.1	59.4	-6527.1	-192743.0	14250000.0	93.0
86.191	-1339.7	-846.3	-16233.3	1009000.0	1824000.0	226.0
86.192	-571.3	367.0	-12756.5	-888369.1	599717.0	204.0
86.193	-1309.7	-703.4	-13486.7	829144.1	2962000.0	191.0
86.194	-628.9	287.6	-10475.4	-714199.0	1738000.0	169.0
86.195	-1328.0	-709.1	-13733.3	821322.0	2601000.0	201.0
86.196	-626.3	286.9	-10733.6	-716017.0	1377000.0	181.0
86.197	-911.3	314.3	-11303.8	-795392.0	2962000.0	185.0
86.198	-653.4	276.7	-10521.3	-706076.0	1738000.0	163.0
86.199	-1346.0	-817.4	-16684.4	963851.9	12000000.0	227.0
86.200	-563.6	365.4	-13304.9	-864043.0	10770000.0	206.0
86.201	-1793.9	214.5	-7842.2	-498395.0	5183000.0	64.0
86.202	-1559.7	180.4	-7144.0	-411154.0	3959000.0	44.0
86.203	-2014.1	227.9	-9048.9	-557301.0	4772000.0	55.0
86.204	-1805.1	199.7	-8283.7	-462331.0	3548000.0	35.0
86.205	-1798.9	214.9	-8106.9	-502690.0	4822000.0	76.0
86.206	-1558.3	181.1	-7399.5	-415998.0	3598000.0	55.0
86.207	-1882.7	155.7	-8164.8	-374276.0	5183000.0	51.0
86.208	-1636.8	114.2	-7420.9	-276757.0	3959000.0	29.0
86.209	-1775.5	221.3	-10817.0	-528267.0	14220000.0	94.0
86.210	-1536.9	198.7	-10099.7	-456542.0	12990000.0	76.0
86.211	-417.9	-513.3	-7022.5	585365.0	5183000.0	190.0
86.212	-108.5	-443.3	-5997.2	505662.0	3959000.0	168.0
86.213	-174.5	-587.7	-7653.3	680492.0	4771000.0	224.0
86.214	153.4	-522.8	-6620.3	598689.0	3547000.0	202.0
86.215	-415.7	-519.0	-7281.6	590648.0	4822000.0	202.0
86.216	-105.0	-447.8	-6252.2	508884.0	3598000.0	180.0
86.217	-436.9	-522.2	-7054.5	591288.0	5183000.0	183.0
86.218	-37.6	-194.4	-5594.7	206952.0	3959000.0	147.0
86.219	-451.3	-609.9	-10196.9	693963.0	14220000.0	225.0
86.220	-145.4	-543.8	-9187.0	620564.0	12990000.0	203.0
86.221	-1177.6	-270.7	-5056.4	324024.0	6439000.0	93.0
86.222	-867.6	-155.9	-3987.4	188248.0	5215000.0	73.0

86.223	-1175.0	-263.8	-5309.4	309721.0	6078000.0	109.0
86.224	-847.7	-131.4	-4190.5	145356.0	4854000.0	86.0
86.225	-1186.1	-268.5	-5069.4	323750.0	6439000.0	92.0
86.226	-864.2	-155.1	-4006.9	186757.0	5215000.0	73.0
86.227	-1186.6	-325.6	-8136.8	387715.0	15470000.0	124.0
86.228	-884.7	-258.9	-7135.2	307788.0	14250000.0	104.0
86.229	-1415.5	-1064.5	-16327.0	1338000.0	1824000.0	241.0
86.230	-1081.8	-970.4	-15266.5	1214000.0	599716.0	221.0
86.231	-1311.4	-742.0	-13395.9	915629.0	2962000.0	194.0
86.232	-1010.3	-652.5	-12336.2	812558.0	1738000.0	179.0
86.233	-1312.4	-726.8	-13673.9	883754.0	2601000.0	207.0
86.234	-1002.8	-648.6	-12644.2	789450.0	1377000.0	190.0
86.235	-1310.8	-734.2	-13395.3	904061.1	2962000.0	194.0
86.236	-998.6	-653.5	-12364.7	803858.0	1738000.0	177.0
86.237	-1345.4	-873.0	-16520.4	1097000.0	12000000.0	232.0
86.238	-1038.9	-783.3	-15513.1	980108.0	10770000.0	214.0
86.239	-1721.6	202.1	-7808.4	-492262.0	5183000.0	73.0
86.240	-1487.1	165.0	-7056.0	-400015.0	3959000.0	55.0
86.241	-1976.5	223.3	-9005.5	-542964.0	4772000.0	69.0
86.242	-1744.1	188.0	-8258.4	-453702.0	3548000.0	51.0
86.243	-1716.9	202.3	-8061.2	-496738.0	4822000.0	85.0
86.244	-1484.5	166.3	-7313.0	-406650.0	3598000.0	67.0
86.245	-1734.9	205.1	-7834.5	-495175.0	5183000.0	74.0
86.246	-1499.6	166.7	-7078.5	-400899.0	3959000.0	56.0
86.247	-1732.4	236.0	-10696.7	-531491.0	14220000.0	109.0
86.248	-1462.8	182.1	-10004.7	-447754.0	12990000.0	85.0
86.249	-438.0	-462.9	-6997.7	550212.0	5183000.0	200.0
86.250	-107.0	-389.2	-5947.2	462105.0	3959000.0	178.0
86.251	-172.0	-532.1	-7610.2	632775.0	4771000.0	233.0
86.252	150.3	-470.4	-6569.9	557727.0	3547000.0	212.0
86.253	-426.2	-468.5	-7239.8	555572.0	4822000.0	212.0
86.254	-89.5	-413.2	-6198.3	482513.0	3598000.0	190.0
86.255	-440.3	-451.9	-7004.3	538384.0	5183000.0	198.0
86.256	-121.0	-379.8	-5947.1	446661.0	3959000.0	174.0
86.257	-474.1	-567.2	-10198.5	673197.0	14220000.0	234.0
86.258	-129.6	-438.3	-9035.0	515659.0	12990000.0	210.0
86.401	2607.6	-24.8	-6624.9	104628.0	2168000.0	-739.0
86.402	1015.2	-17.5	-8534.3	87095.0	5191000.0	-671.0
86.403	2369.1	-236.6	-7496.9	635136.0	2340000.0	-892.0
86.404	773.5	-249.6	-9430.0	654079.0	5362000.0	-828.0
86.405	-2385.7	33.0	4339.7	-74851.0	1632000.0	864.0
86.406	-4274.0	5.4	1644.3	-68986.0	4654000.0	940.0
86.407	-2755.6	-414.2	3018.5	443935.0	1803000.0	719.0
86.408	-4669.5	-448.5	243.6	470457.0	4826000.0	796.0
86.409	2295.4	52.4	-7822.8	-63403.0	2137000.0	-954.0
86.410	696.7	60.7	-9738.5	-105260.0	5159000.0	-880.0
86.411	2636.9	-252.0	-6299.6	670297.0	2371000.0	-679.0
86.412	1052.6	-259.7	-8266.5	684305.0	5393000.0	-618.0
86.413	-2700.0	-366.2	3040.8	395848.0	1600000.0	649.0
86.414	-4583.1	-394.2	346.0	403320.0	4623000.0	726.0
86.415	-2467.0	-106.5	4276.6	80216.0	1835000.0	934.0
86.416	-4387.3	-129.3	1495.3	92771.0	4857000.0	1007.0
86.417	2894.1	-40.5	-6722.5	457412.0	2160000.0	-1202.0
86.418	1266.6	-47.8	-8816.8	521735.0	5183000.0	-1138.0
86.419	2636.3	-125.0	-7484.8	670359.0	2331000.0	-1387.0
86.420	1017.6	-130.5	-9583.0	742675.0	5354000.0	-1326.0
86.421	-2643.3	-545.7	4365.5	442299.0	1640000.0	1376.0
86.422	-4490.1	-622.7	1850.4	484375.0	4663000.0	1465.0
86.423	-3075.8	-818.9	2714.4	792452.0	1811000.0	1214.0
86.424	-4939.3	-910.6	133.1	857344.1	4834000.0	1304.0
86.425	2596.5	-77.9	-7808.6	509055.0	2129000.0	-1409.0
86.426	979.1	-60.3	-9914.7	533657.0	5151000.0	-1346.0

86.427	2893.1	-105.3	-6409.4	638156.0	2363000.0	-1187.0
86.428	1267.3	-102.3	-8525.1	696770.0	5385000.0	-1127.0
86.429	-2963.5	-697.6	2997.3	629297.0	1609000.0	1152.0
86.430	-4800.2	-782.5	485.5	681294.0	4631000.0	1243.0
86.431	-2782.2	-679.7	4031.7	623497.0	1843000.0	1431.0
86.432	-4651.3	-760.7	1457.6	669340.0	4865000.0	1519.0
86.433	1080.0	272.1	-1473.9	-605145.0	1780000.0	66.0
86.434	-607.3	330.7	-3621.8	-717073.0	4803000.0	132.0
86.435	194.2	-270.7	-5021.7	604295.0	2352000.0	-546.0
86.436	-1481.1	-339.6	-7286.6	705963.0	5374000.0	-466.0
86.437	-47.5	312.1	2487.8	-506514.0	1620000.0	527.0
86.438	-1823.4	357.0	156.4	-616976.0	4642000.0	610.0
86.439	-1220.3	-477.2	-1917.0	564574.0	2191000.0	-32.0
86.440	-3060.9	-542.7	-4504.9	662857.0	5213000.0	36.0
86.441	1069.3	252.7	-1945.3	-416761.0	1778000.0	-55.0
86.442	-619.8	329.2	-4109.6	-541182.0	4800000.0	15.0
86.443	295.4	-188.2	-4857.2	553041.0	2349000.0	-709.0
86.444	-1379.0	-233.5	-7126.2	647967.0	5372000.0	-637.0
86.445	-79.9	254.6	2906.7	-589897.0	1622000.0	644.0
86.446	-1836.5	283.8	589.1	-685441.0	4645000.0	729.0
86.447	-1312.3	-628.2	-2142.0	710050.0	2193000.0	129.0
86.448	-3149.6	-711.0	-4679.9	811114.0	5216000.0	200.0
86.449	-14.4	142.2	-5621.1	-424139.0	1676000.0	-630.0
86.450	-1689.7	121.6	-7817.9	-432115.0	4698000.0	-556.0
86.451	1018.6	-176.2	-1228.2	486369.0	2456000.0	120.0
86.452	-630.8	-174.4	-3341.8	513272.0	5479000.0	191.0
86.453	-1302.3	-285.1	-2188.3	249471.0	1515000.0	-205.0
86.454	-3084.5	-295.4	-4615.9	222508.0	4537000.0	-109.0
86.455	-460.0	235.0	1767.6	-250754.0	2295000.0	680.0
86.456	-2224.0	215.3	-622.9	-210198.0	5318000.0	744.0
86.457	63.6	130.4	-5700.5	-308164.0	1673000.0	-750.0
86.458	-1622.4	126.4	-7943.5	-330121.0	4696000.0	-677.0
86.459	1072.7	-70.0	-1340.0	365878.0	2454000.0	-43.0
86.460	-589.1	-76.4	-3463.5	427559.0	5476000.0	23.0
86.461	-1336.7	-266.1	-2032.8	151940.0	1517000.0	-89.0
86.462	-3110.8	-299.3	-4435.1	143871.0	4540000.0	-0.6
86.463	-488.6	-49.3	2005.4	57536.0	2298000.0	849.0
86.464	-2247.9	-103.2	-358.6	112561.0	5320000.0	922.0
86.529	2850.3	65.5	-127.0	-135249.0	-1546000.0	-248.0
86.530	-2697.1	143.1	-7227.6	-323202.0	8529000.0	-2.4
86.531	2596.1	-67.3	-1092.7	208798.0	-1374000.0	-408.0
86.532	-2939.7	-168.1	-8321.6	367852.0	8701000.0	-187.0
86.533	1606.7	129.0	3676.4	-150321.0	-1707000.0	244.0
86.534	-4440.0	107.6	-4522.1	-209645.0	8368000.0	488.0
86.535	1323.0	-174.5	2616.8	191207.0	-1535000.0	85.0
86.536	-4922.7	-332.4	-6156.0	369043.0	8540000.0	329.0
86.537	2531.7	86.0	-1299.8	-169581.0	-1577000.0	-457.0
86.538	-3032.2	57.2	-8482.7	-207015.0	8498000.0	-206.0
86.539	2848.8	-84.0	44.1	228711.0	-1343000.0	-208.0
86.540	-2681.0	-122.4	-7058.0	321638.0	8732000.0	16.0
86.541	1296.4	-147.3	2471.4	174353.0	-1738000.0	17.0
86.542	-4782.4	-223.8	-5924.5	197030.0	8337000.0	289.0
86.543	1553.1	92.7	3715.0	-123789.0	-1504000.0	300.0
86.544	-4582.3	63.6	-4812.6	-103604.0	8571000.0	524.0
86.545	2929.8	16.7	-189.2	49942.0	-1548000.0	-376.0
86.546	-2654.3	107.3	-7562.8	-39904.0	8527000.0	-146.0
86.547	2691.4	-57.6	-983.4	237997.0	-1377000.0	-565.0
86.548	-2864.1	-90.5	-8321.5	380073.0	8698000.0	-342.0
86.549	1563.7	-9.8	3877.2	-48309.0	-1704000.0	380.0
86.550	-4407.1	47.8	-3932.1	-311459.0	8371000.0	662.0
86.551	1194.3	-279.2	2375.4	299781.0	-1533000.0	220.0
86.552	-5032.2	-567.0	-6383.8	599752.0	8542000.0	495.0

86.553	2617.0	-12.1	-1318.9	91013.0	-1580000.0	-579.0
86.554	-2974.4	27.4	-8701.4	58007.0	8495000.0	-342.0
86.555	2935.7	-35.1	69.4	197150.0	-1345000.0	-367.0
86.556	-2611.8	-46.3	-7150.1	320921.0	8729000.0	-149.0
86.557	1200.7	-191.8	2386.2	185407.0	-1736000.0	155.0
86.558	-4886.1	-429.4	-6044.1	392229.0	8339000.0	450.0
86.559	1472.7	-161.5	3629.8	162542.0	-1501000.0	443.0
86.560	-4678.7	-327.2	-4855.0	287625.0	8574000.0	701.0
87.1	-1042.4	10.3	-4511.7	-57319.0	6438000.0	102.0
87.2	-793.9	-13.8	-3696.3	-2780.0	5214000.0	74.0
87.3	-1071.6	-31.5	-4892.4	30061.0	6078000.0	112.0
87.4	-812.6	-29.0	-4019.2	32233.0	4854000.0	87.0
87.5	-1024.3	15.8	-7458.2	-86335.0	15470000.0	108.0
87.6	-754.4	12.1	-6593.3	-68811.0	14250000.0	84.0
87.7	-935.7	-48.8	-14694.8	60067.0	1827000.0	270.0
87.8	-680.5	-68.0	-13860.1	103400.0	603456.0	245.0
87.9	-985.8	-53.4	-12190.7	52140.0	2965000.0	220.0
87.10	-707.3	-24.7	-11247.6	-3927.0	1741000.0	205.0
87.11	-986.5	-56.7	-12454.3	54022.0	2604000.0	235.0
87.12	-715.9	-51.5	-11564.5	49159.0	1380000.0	214.0
87.13	-978.8	-64.0	-15199.8	58556.0	12000000.0	233.0
87.14	-703.4	-56.8	-14305.8	52997.0	10780000.0	210.0
87.15	-1142.2	-268.1	-6009.6	367116.0	5990000.0	125.0
87.16	-1076.1	-15.1	-3607.5	-3606.0	6887000.0	79.0
87.17	-775.6	-14.8	-4670.2	-951.0	4766000.0	95.0
87.18	-818.0	-20.9	-2764.6	21475.0	5663000.0	52.0
87.19	-1145.2	-298.8	-6708.9	410538.0	5691000.0	136.0
87.20	-1095.6	-26.3	-3011.1	29839.0	7185000.0	64.0
87.21	-852.7	-234.8	-5716.9	321448.0	4467000.0	111.0
87.22	-832.1	-22.1	-2125.2	24762.0	5961000.0	39.0
87.23	-1030.4	10.4	-5733.8	-67432.0	5629000.0	135.0
87.24	-1103.1	-33.6	-3937.5	34969.0	6526000.0	90.0
87.25	-778.8	-16.2	-4933.9	-2291.0	4405000.0	111.0
87.26	-835.4	-26.2	-3045.7	25593.0	5302000.0	66.0
87.27	-1010.0	21.8	-8413.3	-101761.0	15020000.0	126.0
87.28	-1035.1	13.3	-6498.3	-74527.0	15920000.0	89.0
87.29	-741.7	15.7	-7550.3	-81688.0	13800000.0	103.0
87.30	-766.5	9.0	-5634.9	-56483.0	14700000.0	65.0
87.31	-924.0	-52.1	-15674.6	64360.0	1379000.0	290.0
87.32	-980.0	-61.7	-13709.4	60003.0	2276000.0	248.0
87.33	-655.1	-47.7	-14782.2	59605.0	155272.0	267.0
87.34	-718.9	-76.3	-12871.4	98400.0	1052000.0	223.0
87.35	-936.6	-44.1	-13827.3	55326.0	2218000.0	254.0
87.36	-1003.3	-47.2	-10562.4	45238.0	3712000.0	191.0
87.37	-668.0	-39.8	-12936.2	50672.0	993850.0	232.0
87.38	-724.8	-22.1	-9625.0	-2640.0	2488000.0	173.0
87.39	-944.1	-42.0	-13174.6	52587.0	2517000.0	242.0
87.40	-998.3	-50.5	-11216.2	48403.0	3413000.0	203.0
87.41	-676.1	-37.8	-12283.4	47798.0	1293000.0	219.0
87.42	-717.6	-23.1	-10274.4	-3055.0	2189000.0	186.0
87.43	-976.0	-61.0	-13432.1	58741.0	2156000.0	254.0
87.44	-997.1	-52.6	-11476.5	49417.0	3052000.0	216.0
87.45	-705.5	-55.6	-12542.7	53838.0	931751.9	233.0
87.46	-726.8	-47.4	-10586.8	44503.0	1828000.0	196.0
87.47	-969.8	-68.4	-16179.7	63102.0	11550000.0	253.0
87.48	-986.0	-59.0	-14218.9	53901.0	12450000.0	214.0
87.49	-697.2	-62.5	-15287.4	58034.0	10330000.0	230.0
87.50	-710.9	-51.9	-13324.9	48290.0	11220000.0	191.0
87.51	145.0	-144.9	-9826.8	372776.0	5505000.0	-640.0
87.52	467.7	-113.4	-8917.2	330040.0	4281000.0	-649.0
87.53	1025.0	-138.4	-13357.0	465750.0	4882000.0	-1102.0
87.54	1313.6	-98.8	-12490.6	387320.0	3658000.0	-1117.0

87.55	148.5	-156.2	-10068.4	391682.0	5144000.0	-628.0
87.56	465.0	-114.0	-9182.7	329535.0	3920000.0	-637.0
87.57	157.9	-191.2	-12785.8	457332.0	14540000.0	-646.0
87.58	496.8	-177.2	-11827.0	452944.0	13320000.0	-657.0
87.59	445.5	-360.6	-19331.5	795255.0	893530.0	-515.0
87.60	716.1	-330.5	-18475.0	738545.0	-330461.0	-531.0
87.61	443.8	-357.5	-16772.2	811230.0	2031000.0	-554.0
87.62	687.8	-325.6	-15979.5	746952.0	806938.0	-568.0
87.63	908.5	-335.7	-20932.7	759272.0	1409000.0	-1035.0
87.64	1197.5	-301.6	-20056.5	705770.0	184504.0	-1049.0
87.65	421.8	-362.7	-17076.8	819459.0	1670000.0	-540.0
87.66	684.1	-327.2	-16245.4	748054.0	446067.0	-555.0
87.67	447.9	-411.6	-19737.8	921762.0	11070000.0	-560.0
87.68	703.9	-346.8	-18973.3	779442.0	9841000.0	-570.0
87.69	-2532.1	-330.9	-8464.7	351512.0	5505000.0	801.0
87.70	-2211.2	-274.3	-7436.9	274051.0	4281000.0	773.0
87.71	-3400.9	-428.3	-10737.0	423079.0	4882000.0	1257.0
87.72	-3077.4	-367.4	-9719.6	349532.0	3658000.0	1229.0
87.73	-2545.4	-332.4	-8749.4	352025.0	5144000.0	818.0
87.74	-2227.9	-284.3	-7738.7	288220.0	3920000.0	791.0
87.75	-2558.6	-385.0	-11604.1	430874.0	14540000.0	814.0
87.76	-2254.2	-347.4	-10608.7	374962.0	13320000.0	786.0
87.77	-2572.0	-561.6	-19164.2	720595.0	893701.9	1010.0
87.78	-2318.5	-539.0	-18213.3	673552.0	-330311.0	981.0
87.79	-2607.8	-546.2	-16614.8	676765.0	2031000.0	960.0
87.80	-2308.3	-504.9	-15635.9	620111.0	807068.0	934.0
87.81	-3487.7	-730.6	-18998.5	868115.1	1409000.0	1423.0
87.82	-3198.5	-694.0	-18008.1	810723.0	184571.0	1394.0
87.83	-2628.0	-594.8	-16955.2	735230.0	1670000.0	983.0
87.84	-2309.1	-473.3	-15868.7	577823.0	446199.0	951.0
87.85	-2649.2	-729.3	-19883.1	907871.0	11070000.0	981.0
87.86	-2337.5	-613.8	-18816.6	762883.0	9841000.0	949.0
87.87	-1333.3	194.2	-7803.4	-136837.0	5183000.0	-1331.0
87.88	-1026.3	170.6	-6815.4	-118126.0	3960000.0	-1344.0
87.89	-1381.0	232.1	-8739.3	-161030.0	4773000.0	-1787.0
87.90	-1073.7	209.7	-7752.5	-146037.0	3549000.0	-1800.0
87.91	-1154.0	-217.8	-7177.1	504002.0	4823000.0	-1316.0
87.92	-1032.5	169.4	-7085.9	-117426.0	3599000.0	-1329.0
87.93	-1333.3	125.4	-10781.8	-44613.0	14220000.0	-1328.0
87.94	-1040.5	157.3	-9877.3	-88442.0	12990000.0	-1344.0
87.95	-1142.5	-247.6	-7853.8	564599.0	4735000.0	-1320.0
87.96	-1302.9	136.8	-6685.7	-78036.0	5632000.0	-1339.0
87.97	-1041.8	186.9	-7862.6	-129800.0	3511000.0	-1333.0
87.98	-997.8	121.9	-5709.5	-70776.0	4408000.0	-1353.0
87.99	-1342.9	216.8	-9505.7	-152939.0	4436000.0	-1311.0
87.100	-1293.4	130.0	-5992.8	-75497.0	5930000.0	-1347.0
87.101	-1038.7	195.9	-8527.1	-136323.0	3212000.0	-1325.0
87.102	-994.6	115.8	-5032.8	-68364.0	4706000.0	-1361.0
87.103	-1378.3	241.3	-9735.1	-163484.0	4324000.0	-1776.0
87.104	-1347.6	169.2	-7609.6	-97798.0	5221000.0	-1794.0
87.105	-1074.8	223.1	-8762.8	-153650.0	3100000.0	-1789.0
87.106	-1042.0	153.7	-6632.0	-89688.0	3997000.0	-1807.0
87.107	-1330.3	156.8	-9021.7	-87641.0	4374000.0	-1301.0
87.108	-1301.3	135.3	-6943.0	-76262.0	5271000.0	-1322.0
87.109	-870.6	-206.0	-7275.7	481297.0	3150000.0	-1318.0
87.110	-1002.2	121.0	-5978.3	-70264.0	4047000.0	-1336.0
87.111	-1347.6	181.1	-11859.6	-104708.0	13770000.0	-1318.0
87.112	-1320.7	119.5	-9749.7	-44384.0	14670000.0	-1341.0
87.113	-1052.1	165.7	-10901.6	-93252.0	12550000.0	-1333.0
87.114	-1026.6	147.4	-8838.8	-84244.0	13440000.0	-1357.0
87.115	63.8	-223.0	-12284.3	566954.0	4250000.0	-2037.0
87.116	358.0	-205.7	-11376.5	539202.0	3026000.0	-2050.0

87.117	891.0	-303.7	-15723.1	780875.0	3627000.0	-2509.0
87.118	1283.0	-267.9	-14759.4	749827.0	2403000.0	-2511.0
87.119	34.4	-240.6	-13088.2	609489.0	3839000.0	-2496.0
87.120	328.4	-274.9	-12095.3	693520.0	2615000.0	-2517.0
87.121	59.2	-224.1	-12552.7	567133.0	3889000.0	-2023.0
87.122	367.1	-205.5	-11634.6	543303.0	2665000.0	-2035.0
87.123	89.8	-246.3	-15257.7	611568.0	13280000.0	-2041.0
87.124	370.7	-212.5	-14404.8	560213.0	12060000.0	-2053.0
87.125	-2605.3	-367.4	-11210.7	475249.0	4250000.0	-552.0
87.126	-2307.5	-293.4	-10178.8	367763.0	3026000.0	-581.0
87.127	-3560.1	-501.1	-13546.8	565946.0	3627000.0	-101.0
87.128	-3229.5	-445.5	-12511.6	488290.0	2403000.0	-128.0
87.129	-2689.5	-414.1	-12215.0	550547.0	3839000.0	-990.0
87.130	-2341.3	-339.8	-11121.3	452832.0	2615000.0	-1022.0
87.131	-2650.6	-366.3	-11547.7	471669.0	3889000.0	-533.0
87.132	-2351.4	-341.9	-10525.5	424412.0	2665000.0	-565.0
87.133	-2689.7	-431.5	-14413.2	558027.0	13280000.0	-541.0
87.134	-2367.8	-341.0	-13354.5	437390.0	12060000.0	-569.0
87.135	-893.2	4.2	-7239.7	-167325.0	5184000.0	1595.0
87.136	-641.1	-13.1	-6449.7	-103568.0	3960000.0	1563.0
87.137	-842.5	4.1	-8141.5	-196851.0	4773000.0	2079.0
87.138	-596.0	-15.2	-7365.4	-128288.0	3549000.0	2048.0
87.139	-917.1	-15.4	-7589.8	-117130.0	4823000.0	1606.0
87.140	-662.1	-25.8	-6776.3	-72714.0	3599000.0	1576.0
87.141	-885.4	-20.7	-10277.7	-128652.0	14220000.0	1603.0
87.142	-632.9	-20.0	-9409.2	-122625.0	12990000.0	1575.0
87.143	-878.6	4.3	-8190.2	-181149.0	4735000.0	1617.0
87.144	-921.2	-14.2	-6355.8	-106385.0	5632000.0	1567.0
87.145	-613.3	3.7	-7337.9	-160624.0	3511000.0	1590.0
87.146	-653.6	-10.5	-5488.2	-97187.0	4408000.0	1540.0
87.147	-868.9	3.8	-8826.4	-188907.0	4437000.0	1632.0
87.148	-940.9	-24.6	-5763.1	-70845.0	5931000.0	1550.0
87.149	-604.0	2.5	-7973.4	-167994.0	3213000.0	1605.0
87.150	-672.2	-19.6	-4887.7	-67354.0	4707000.0	1524.0
87.151	-827.6	4.0	-9091.2	-210477.0	4325000.0	2102.0
87.152	-874.2	-15.1	-7266.4	-132920.0	5221000.0	2052.0
87.153	-563.3	3.0	-8241.3	-189201.0	3101000.0	2075.0
87.154	-606.6	-12.8	-6400.7	-121425.0	3997000.0	2025.0
87.155	-881.9	5.4	-8454.8	-184514.0	4375000.0	1632.0
87.156	-939.1	-27.1	-6678.5	-74029.0	5271000.0	1580.0
87.157	-636.6	-15.1	-7684.4	-112939.0	3151000.0	1601.0
87.158	-670.9	-22.6	-5805.0	-69647.0	4047000.0	1554.0
87.159	-872.5	-24.4	-11240.6	-133023.0	13770000.0	1625.0
87.160	-913.3	-19.3	-9311.6	-128779.0	14670000.0	1578.0
87.161	-605.7	-21.2	-10374.3	-123286.0	12550000.0	1598.0
87.162	-643.9	-16.5	-8447.9	-116650.0	13440000.0	1553.0
87.163	379.5	-230.9	-12500.5	482720.0	4250000.0	815.0
87.164	614.9	-152.2	-11766.1	335730.0	3026000.0	803.0
87.165	1134.0	-191.2	-16264.5	512233.0	3627000.0	355.0
87.166	1394.2	-177.5	-15393.8	482888.0	2403000.0	340.0
87.167	468.3	-259.3	-13351.0	515876.0	3839000.0	1292.0
87.168	668.1	-171.2	-12697.2	341522.0	2615000.0	1282.0
87.169	378.7	-231.6	-12762.7	482462.0	3889000.0	828.0
87.170	614.3	-152.7	-12028.8	334151.0	2665000.0	819.0
87.171	419.6	-259.3	-15451.1	529189.0	13280000.0	815.0
87.172	655.4	-230.0	-14646.9	476801.0	12060000.0	801.0
87.173	-2479.2	-478.2	-11633.3	517253.0	4250000.0	2286.0
87.174	-2182.7	-442.9	-10651.0	465857.0	3026000.0	2257.0
87.175	-3396.0	-622.7	-13974.9	642197.0	3627000.0	2740.0
87.176	-3076.5	-565.0	-12952.1	565447.0	2403000.0	2712.0
87.177	-2480.8	-557.6	-12719.7	610061.0	3839000.0	2773.0
87.178	-2159.8	-484.4	-11672.9	509533.0	2615000.0	2744.0

87.179	-2506.2	-485.4	-11924.2	520091.0	3889000.0	2302.0
87.180	-2190.5	-444.0	-10925.6	465521.0	2665000.0	2274.0
87.181	-2518.1	-528.6	-14803.1	591942.0	13280000.0	2300.0
87.182	-2209.0	-479.9	-13745.4	512206.0	12060000.0	2270.0
87.183	-1199.2	-77.3	-4797.4	92718.0	6438000.0	38.0
87.184	-919.9	-56.1	-3909.0	63199.0	5214000.0	18.0
87.185	-1209.3	-77.0	-5072.0	88337.0	6078000.0	52.0
87.186	-926.1	-56.1	-4175.3	59925.0	4854000.0	32.0
87.187	-1254.1	-78.3	-4895.6	88900.0	6438000.0	6.3
87.188	-946.8	-56.3	-3951.9	60564.0	5214000.0	-15.0
87.189	-1197.2	-111.3	-7805.8	141208.0	15470000.0	40.0
87.190	-911.8	-89.1	-6904.7	110836.0	14250000.0	20.0
87.191	-1090.5	-178.6	-15110.3	314842.0	1827000.0	208.0
87.192	-901.4	-220.1	-14002.3	299817.0	603311.0	163.0
87.193	-1105.7	-150.1	-12573.2	260847.0	2965000.0	168.0
87.194	-900.3	-180.6	-11502.2	243621.0	1741000.0	128.0
87.195	-1120.3	-153.7	-12856.1	260672.0	2604000.0	185.0
87.196	-905.5	-182.8	-11771.2	243599.0	1380000.0	142.0
87.197	-1228.0	-201.6	-12471.5	268722.0	2965000.0	116.0
87.198	-941.1	-181.5	-11570.7	242040.0	1741000.0	96.0
87.199	-1098.5	-173.4	-15618.2	302600.0	12000000.0	174.0
87.200	-895.8	-212.8	-14503.5	290388.0	10780000.0	127.0
87.201	-1302.6	-23.9	-7505.9	117534.0	5183000.0	-1362.0
87.202	-1016.7	-12.9	-6589.3	98893.0	3959000.0	-1375.0
87.203	-1419.1	177.0	-8747.6	-99372.0	4773000.0	-1832.0
87.204	-1052.9	20.6	-7500.4	78168.0	3549000.0	-1838.0
87.205	-1305.7	-39.0	-7752.4	136867.0	4823000.0	-1347.0
87.206	-1020.2	-18.6	-6849.2	105230.0	3599000.0	-1363.0
87.207	-1347.4	-67.5	-7537.7	179664.0	5184000.0	-1387.0
87.208	-1049.2	-60.5	-6594.6	170430.0	3960000.0	-1406.0
87.209	-1332.9	-29.8	-10608.4	133242.0	14220000.0	-1362.0
87.210	-1031.7	-43.2	-9634.0	145433.0	12990000.0	-1374.0
87.211	-1035.5	-97.9	-7699.1	68698.0	5184000.0	1530.0
87.212	-757.6	-83.6	-6785.3	46527.0	3960000.0	1507.0
87.213	-955.0	-44.0	-8459.7	-67421.0	4773000.0	2019.0
87.214	-720.1	-100.9	-7736.9	48489.0	3549000.0	1991.0
87.215	-1040.8	-97.9	-7967.8	66279.0	4823000.0	1545.0
87.216	-765.0	-88.0	-7062.8	50958.0	3599000.0	1521.0
87.217	-1081.8	-108.7	-7792.1	83886.0	5184000.0	1498.0
87.218	-880.2	-117.4	-6912.1	66281.0	3960000.0	1468.0
87.219	-1021.7	-110.8	-10710.6	89133.0	14220000.0	1537.0
87.220	-744.2	-97.5	-9799.7	68713.0	12990000.0	1514.0
87.221	-1122.6	-193.3	-4907.1	268634.0	6438000.0	95.0
87.222	-778.2	-2.8	-3655.2	-21981.0	5214000.0	70.0
87.223	-1067.0	-30.9	-4884.6	30806.0	6077000.0	109.0
87.224	-805.5	-28.7	-3992.5	27711.0	4853000.0	87.0
87.225	-1103.2	-195.8	-4877.3	276992.0	6438000.0	93.0
87.226	-809.5	-124.9	-3866.0	175848.0	5214000.0	71.0
87.227	-1143.2	-279.8	-8034.5	385586.0	15470000.0	101.0
87.228	-848.5	-223.2	-7051.0	307208.0	14250000.0	78.0
87.229	-909.2	-12.8	-14599.6	-10300.0	1827000.0	268.0
87.230	-672.1	-63.6	-13848.0	100261.0	603361.0	241.0
87.231	-1177.3	-585.4	-13104.2	822758.0	2965000.0	235.0
87.232	-696.9	-19.0	-11232.5	-8447.0	1741000.0	200.0
87.233	-1179.0	-583.3	-13370.5	813268.0	2604000.0	255.0
87.234	-886.6	-519.3	-12378.1	723787.0	1380000.0	233.0
87.235	-1166.2	-586.7	-13087.5	827976.9	2965000.0	234.0
87.236	-851.0	-449.3	-11993.4	642134.0	1741000.0	210.0
87.237	-970.5	-56.6	-15186.6	51839.0	12000000.0	226.0
87.238	-696.1	-51.1	-14292.8	47713.0	10780000.0	207.0
87.239	-1322.3	198.2	-7788.5	-140851.0	5183000.0	-1330.0
87.240	-1013.9	174.7	-6797.9	-122373.0	3959000.0	-1342.0

87.241	-1374.1	235.5	-8730.6	-164608.0	4773000.0	-1785.0
87.242	-1064.8	211.1	-7737.3	-146434.0	3549000.0	-1798.0
87.243	-1332.6	196.9	-8066.1	-140789.0	4823000.0	-1314.0
87.244	-1024.1	173.9	-7075.8	-122424.0	3599000.0	-1327.0
87.245	-1303.4	199.8	-7756.6	-141510.0	5183000.0	-1326.0
87.246	-996.5	176.3	-6768.5	-123285.0	3959000.0	-1339.0
87.247	-1157.7	-252.4	-9933.2	565119.0	14220000.0	-1331.0
87.248	-1039.1	160.6	-9876.9	-92461.0	12990000.0	-1344.0
87.249	-884.0	2.2	-7223.1	-164352.0	5184000.0	1588.0
87.250	-613.3	1.2	-6360.6	-142968.0	3960000.0	1559.0
87.251	-831.6	2.3	-8120.1	-194277.0	4773000.0	2072.0
87.252	-563.1	1.6	-7263.0	-173327.0	3549000.0	2045.0
87.253	-888.2	2.8	-7489.9	-166797.0	4823000.0	1602.0
87.254	-646.6	-26.7	-6748.7	-70449.0	3599000.0	1569.0
87.255	-867.1	1.6	-7193.1	-162763.0	5183000.0	1584.0
87.256	-596.4	1.4	-6328.4	-143043.0	3959000.0	1554.0
87.257	-874.5	-21.7	-10258.6	-126641.0	14220000.0	1594.0
87.258	-618.7	-20.2	-9382.2	-121904.0	12990000.0	1566.0
87.401	6973.1	149.4	-391.0	284607.0	3066000.0	-4837.0
87.402	5856.6	131.5	-1664.4	355684.0	5095000.0	-4760.0
87.403	7434.3	5.8	667.9	552760.0	2744000.0	-5170.0
87.404	6230.0	-18.1	-751.7	632497.0	4774000.0	-5093.0
87.405	-8170.6	-501.7	-4841.0	264742.0	2218000.0	4997.0
87.406	-9471.6	-583.9	-6538.2	356011.0	4248000.0	5131.0
87.407	-7529.9	-658.9	-4019.7	514120.0	1897000.0	4775.0
87.408	-8730.0	-726.7	-5528.2	583999.0	3926000.0	4909.0
87.409	6819.5	99.7	-464.1	351664.0	3073000.0	-5162.0
87.410	5716.8	84.9	-1723.0	421319.0	5103000.0	-5087.0
87.411	7597.4	-93.2	958.6	715157.0	2737000.0	-4837.0
87.412	6335.9	13.1	-740.3	593922.0	4766000.0	-4761.0
87.413	-8364.5	-476.1	-5113.3	237420.0	2226000.0	4672.0
87.414	-9686.7	-538.4	-6823.2	297682.0	4255000.0	4804.0
87.415	-7429.9	-676.5	-3916.9	529272.0	1889000.0	5116.0
87.416	-8627.5	-740.5	-5412.5	592190.0	3919000.0	5246.0
87.417	6941.3	479.2	1627.5	-146334.0	2135000.0	-4858.0
87.418	5803.3	508.0	252.2	-149724.0	4164000.0	-4770.0
87.419	7447.4	160.2	2987.1	383077.0	1813000.0	-5223.0
87.420	6195.1	157.2	1456.6	427186.0	3842000.0	-5135.0
87.421	-8056.9	-280.6	-6869.2	-152735.0	3150000.0	5053.0
87.422	-9344.4	-286.9	-8440.4	-186542.0	5179000.0	5193.0
87.423	-7480.6	-592.5	-6358.8	353380.0	2828000.0	4814.0
87.424	-8652.3	-663.3	-7826.1	430240.0	4857000.0	4957.0
87.425	6758.4	350.3	1621.0	21461.0	2142000.0	-5158.0
87.426	5578.1	371.6	178.4	29998.0	4172000.0	-5071.0
87.427	7555.7	211.8	2965.3	316536.0	1806000.0	-4908.0
87.428	6314.4	201.1	1463.3	372918.0	3835000.0	-4820.0
87.429	-8294.6	-237.5	-7142.6	-221900.0	3157000.0	4729.0
87.430	-9575.8	-287.7	-8763.9	-185693.0	5186000.0	4866.0
87.431	-7317.2	-579.8	-6139.3	327810.0	2821000.0	5139.0
87.432	-8494.0	-673.5	-7642.0	440479.0	4850000.0	5283.0
87.433	1695.6	362.1	-2237.6	-362412.0	3145000.0	-923.0
87.434	530.8	387.9	-3625.7	-376503.0	5175000.0	-830.0
87.435	2701.9	-193.4	265.0	574605.0	2073000.0	-1984.0
87.436	1497.0	-230.4	-1190.9	672650.0	4102000.0	-1880.0
87.437	-4008.0	48.4	-4828.9	-335304.0	2891000.0	1890.0
87.438	-5220.5	30.1	-6300.0	-346109.0	4920000.0	2020.0
87.439	-1500.5	-450.8	-1251.4	513319.0	1819000.0	959.0
87.440	-2708.3	-519.3	-2736.8	597308.0	3848000.0	1075.0
87.441	1590.1	404.1	-1752.1	-393551.0	2866000.0	-897.0
87.442	407.2	431.3	-3179.0	-404484.0	4895000.0	-807.0
87.443	2692.9	-156.5	977.1	533070.0	1794000.0	-2022.0
87.444	1477.1	-226.4	-443.9	682192.0	3823000.0	-1920.0

87.445	-3910.0	55.1	-5333.4	-382246.0	3170000.0	1871.0
87.446	-5110.5	31.0	-6782.9	-385731.0	5200000.0	2000.0
87.447	-1488.0	-432.3	-1992.9	470836.0	2098000.0	991.0
87.448	-2663.4	-499.1	-3416.3	550522.0	4128000.0	1106.0
87.449	1019.1	151.5	-2685.1	-142681.0	3170000.0	-1988.0
87.450	-126.4	171.1	-4029.4	-152706.0	5199000.0	-1894.0
87.451	2904.8	-85.1	49.6	431795.0	2048000.0	-898.0
87.452	1652.8	-123.6	-1456.0	525194.0	4078000.0	-795.0
87.453	-4553.8	81.9	-5411.0	-394112.0	2915000.0	818.0
87.454	-5724.5	46.2	-6806.1	-384049.0	4945000.0	952.0
87.455	-1074.8	-472.8	-812.2	533620.0	1794000.0	2090.0
87.456	-2389.3	-528.2	-2479.8	600403.0	3823000.0	2219.0
87.457	946.1	201.5	-2167.0	-171743.0	2891000.0	-1966.0
87.458	-210.0	225.4	-3540.0	-182893.0	4920000.0	-1874.0
87.459	2918.2	-21.9	730.8	359814.0	1769000.0	-932.0
87.460	1658.1	-91.8	-739.5	501162.0	3798000.0	-829.0
87.461	-4516.3	95.8	-6027.7	-451058.0	3195000.0	805.0
87.462	-5666.5	59.8	-7390.9	-439380.0	5224000.0	936.0
87.463	-1038.0	-459.4	-1460.7	488331.0	2074000.0	2126.0
87.464	-2320.8	-512.8	-3073.1	552197.0	4103000.0	2260.0
87.529	3211.2	136.6	-82.8	-77296.0	402601.0	-1448.0
87.530	-366.8	207.5	-4295.2	-70492.0	7167000.0	-1158.0
87.531	3616.3	-33.9	889.5	223065.0	80805.0	-1772.0
87.532	-396.8	-182.6	-3832.9	566675.0	6845000.0	-1470.0
87.533	-1415.5	-81.4	-1344.6	-21344.0	148239.0	1432.0
87.534	-5808.7	-50.7	-6667.3	-201157.0	6913000.0	1864.0
87.535	-843.6	-235.0	-584.7	212704.0	-173581.0	1191.0
87.536	-4833.8	-477.7	-5595.3	516415.0	6591000.0	1595.0
87.537	3063.2	52.0	-91.1	32373.0	410033.0	-1770.0
87.538	-488.6	97.9	-4239.3	75806.0	7174000.0	-1474.0
87.539	3699.4	-0.7	855.1	182535.0	73398.0	-1450.0
87.540	-341.4	-158.8	-3879.5	533913.0	6838000.0	-1127.0
87.541	-1613.3	-55.9	-1574.2	-60806.0	155564.0	1101.0
87.542	-5893.4	-65.8	-6766.3	-173968.0	6920000.0	1537.0
87.543	-716.4	-248.7	-451.7	225945.0	-180947.0	1531.0
87.544	-4848.9	-498.8	-5700.9	535633.0	6584000.0	1935.0
87.545	3194.0	199.0	562.7	-147423.0	123247.0	-1435.0
87.546	-555.8	342.1	-4057.0	-248273.0	6888000.0	-1139.0
87.547	3634.3	10.9	1617.4	174783.0	-198528.0	-1806.0
87.548	-450.4	-171.3	-3175.7	572576.0	6566000.0	-1478.0
87.549	-1384.3	-42.3	-1958.5	-114088.0	427653.0	1426.0
87.550	-5683.8	-27.4	-7088.3	-281002.0	7192000.0	1877.0
87.551	-834.0	-212.3	-1298.1	161433.0	105859.0	1184.0
87.552	-4768.0	-496.7	-6288.7	528628.0	6870000.0	1629.0
87.553	3020.0	128.7	490.9	-67514.0	130672.0	-1750.0
87.554	-660.0	183.2	-3892.2	-25824.0	6895000.0	-1456.0
87.555	3713.8	62.1	1545.0	108337.0	-205936.0	-1486.0
87.556	-395.1	-70.4	-3338.8	424677.0	6558000.0	-1156.0
87.557	-1617.3	-25.2	-2267.5	-142695.0	434986.0	1115.0
87.558	-5793.4	-21.6	-7288.9	-273578.0	7199000.0	1558.0
87.559	-693.6	-222.5	-1157.0	173113.0	98496.0	1526.0
87.560	-4715.0	-511.5	-6278.3	543302.0	6863000.0	1958.0
93.1	-57.7	51.8	-3733.4	-60102.0	6334000.0	-957.0
93.2	-112.2	38.2	-3230.1	-42627.0	5198000.0	-617.0
93.3	-187.0	54.1	-4258.0	-56359.0	5957000.0	-788.0
93.4	-224.4	-2.2	-3682.2	15104.0	4820000.0	-446.0
93.5	367.4	12.1	-6432.7	-29810.0	16440000.0	-1435.0
93.6	318.5	-24.3	-5915.0	15105.0	15300000.0	-1095.0
93.7	1991.5	-437.2	-11409.1	532496.0	1988000.0	-3336.0
93.8	1922.8	-472.5	-10976.4	576093.0	851188.9	-2997.0
93.9	1501.4	-324.2	-9460.7	394406.0	3060000.0	-2748.0
93.10	1419.4	-378.3	-9072.5	462723.0	1924000.0	-2407.0

93.11	1340.1	-420.2	-10120.7	520026.0	2683000.0	-2576.0
93.12	1293.2	-399.0	-9587.1	494670.0	1547000.0	-2239.0
93.13	1911.7	-476.9	-12225.5	562505.0	13160000.0	-3220.0
93.14	1844.3	-507.7	-11787.6	600642.0	12030000.0	-2882.0
93.15	128.3	82.2	-4498.2	-94766.0	5912000.0	-1200.0
93.16	-263.7	50.8	-3012.2	-58333.0	6757000.0	-713.0
93.17	81.4	53.4	-3973.4	-59189.0	4776000.0	-860.0
93.18	-307.7	5.5	-2464.0	-452.0	5620000.0	-372.0
93.19	259.7	90.5	-4994.3	-104619.0	5631000.0	-1362.0
93.20	-397.4	38.0	-2517.3	-41941.0	7039000.0	-550.0
93.21	219.2	47.9	-4445.8	-52352.0	4494000.0	-1022.0
93.22	-435.3	-16.5	-1955.5	28221.0	5902000.0	-208.0
93.23	5.2	71.7	-5002.6	-75571.0	5535000.0	-1032.0
93.24	-378.0	14.9	-3475.6	-6093.0	6380000.0	-542.0
93.25	-49.8	46.4	-4510.5	-44737.0	4399000.0	-692.0
93.26	-424.0	-16.4	-2942.6	34014.0	5243000.0	-202.0
93.27	580.4	-9.8	-7119.1	-3289.0	16020000.0	-1677.0
93.28	169.0	17.6	-5687.1	-36343.0	16860000.0	-1192.0
93.29	498.4	-237.1	-6714.4	275465.0	14880000.0	-1326.0
93.30	127.7	-24.0	-5142.7	14491.0	15730000.0	-852.0
93.31	2184.4	-463.3	-12166.3	564477.0	1565000.0	-3577.0
93.32	1779.1	-463.2	-10744.8	563849.0	2411000.0	-3091.0
93.33	2135.1	-452.6	-11642.6	551605.0	428151.0	-3241.0
93.34	1732.5	-445.1	-10211.3	542200.0	1274000.0	-2755.0
93.35	1784.8	-451.9	-10884.1	551744.0	2355000.0	-3147.0
93.36	1176.9	-286.7	-8208.0	348669.0	3765000.0	-2345.0
93.37	1775.4	-350.0	-10193.9	425869.0	1218000.0	-2814.0
93.38	1099.9	-332.8	-7800.9	406949.0	2629000.0	-2005.0
93.39	1695.1	-347.2	-10214.0	422545.0	2637000.0	-2990.0
93.40	1306.9	-302.7	-8708.9	368129.0	3483000.0	-2506.0
93.41	1645.9	-335.4	-9692.4	408070.0	1500000.0	-2653.0
93.42	1227.8	-350.3	-8309.3	428468.0	2347000.0	-2166.0
93.43	1529.2	-446.3	-10885.3	552758.0	2261000.0	-2817.0
93.44	1168.6	-355.2	-9276.3	439322.0	3106000.0	-2336.0
93.45	1481.5	-427.4	-10353.1	530263.0	1124000.0	-2481.0
93.46	1120.2	-336.1	-8749.3	416370.0	1970000.0	-2000.0
93.47	2105.1	-503.1	-12982.3	594549.0	12740000.0	-3461.0
93.48	1699.2	-500.3	-11558.8	590931.0	13590000.0	-2977.0
93.49	2055.9	-488.5	-12457.1	577057.0	11600000.0	-3125.0
93.50	1655.1	-481.2	-11023.3	567345.0	12450000.0	-2641.0
93.51	1258.1	-535.1	-6122.9	565624.0	5771000.0	-416.0
93.52	1225.9	-460.4	-5553.4	476022.0	4635000.0	-85.0
93.53	2212.6	-639.7	-7487.1	622142.0	5397000.0	-78.0
93.54	2176.6	-560.8	-6934.8	529303.0	4261000.0	254.0
93.55	1128.3	-547.2	-6634.6	582449.0	5394000.0	-246.0
93.56	1096.8	-470.8	-6061.3	488556.0	4258000.0	84.0
93.57	1677.5	-682.5	-8848.1	721145.0	15880000.0	-888.0
93.58	1637.1	-619.3	-8300.3	644579.0	14740000.0	-558.0
93.59	3264.5	-1027.0	-13946.0	1165000.0	1425000.0	-2798.0
93.60	3226.2	-970.2	-13412.0	1094000.0	289247.0	-2465.0
93.61	2773.0	-905.2	-12012.8	1015000.0	2498000.0	-2212.0
93.62	2732.8	-846.9	-11476.5	942878.0	1361000.0	-1878.0
93.63	3670.7	-1148.7	-13615.0	1260000.0	2122000.0	-1856.0
93.64	3635.0	-1079.1	-13063.8	1173000.0	986293.0	-1525.0
93.65	2643.4	-922.9	-12529.1	1043000.0	2121000.0	-2042.0
93.66	2601.1	-862.7	-11994.5	967705.0	984476.0	-1708.0
93.67	3189.6	-1062.5	-14750.5	1189000.0	1260000.0	-2684.0
93.68	3142.9	-1004.2	-14222.0	1118000.0	11470000.0	-2351.0
93.69	-1518.1	310.1	-6896.6	-245821.0	5919000.0	-1448.0
93.70	-1561.4	253.5	-6339.3	-168332.0	4782000.0	-1103.0
93.71	-2482.3	407.8	-8937.9	-275661.0	5641000.0	-1761.0
93.72	-2340.1	-18.3	-7644.9	383762.0	4497000.0	-1413.0

93.73	-1630.2	285.6	-7364.1	-197777.0	5541000.0	-1281.0
93.74	-1667.2	238.0	-6817.9	-136536.0	4404000.0	-937.0
93.75	-1097.0	359.7	-9663.8	-345135.0	16030000.0	-1937.0
93.76	-1139.2	298.8	-9092.1	-259342.0	14890000.0	-1592.0
93.77	598.2	747.7	-14620.3	-848293.0	1579000.0	-3895.0
93.78	582.9	571.6	-13928.3	-611675.0	440833.0	-3545.0
93.79	79.7	598.2	-12682.5	-647439.0	2650000.0	-3290.0
93.80	26.9	559.1	-12154.5	-595745.0	1513000.0	-2946.0
93.81	-916.8	755.1	-14820.2	-752721.0	2373000.0	-3607.0
93.82	-983.6	757.5	-14350.0	-763533.0	1237000.0	-3263.0
93.83	-45.6	586.6	-13183.0	-623548.0	2272000.0	-3123.0
93.84	-97.5	546.7	-12652.6	-570618.0	1136000.0	-2779.0
93.85	509.6	679.6	-15449.4	-782999.0	12760000.0	-3780.0
93.86	457.3	636.1	-14919.1	-726706.0	11620000.0	-3436.0
93.87	285.2	-257.5	-5728.9	281535.0	5146000.0	-538.0
93.88	230.6	-223.3	-5229.7	239667.0	4010000.0	-204.0
93.89	395.9	-290.8	-6401.5	308924.0	4757000.0	-408.0
93.90	345.0	-256.3	-5897.4	266287.0	3621000.0	-75.0
93.91	153.3	-293.7	-6260.4	334213.0	4769000.0	-370.0
93.92	90.2	-278.8	-5790.4	318298.0	3633000.0	-35.0
93.93	718.8	-375.9	-8417.6	404441.0	15250000.0	-1014.0
93.94	665.2	-345.0	-7917.4	366433.0	14110000.0	-680.0
93.95	474.2	-303.4	-6500.3	340143.0	4723000.0	-778.0
93.96	87.2	-230.1	-4984.8	248432.0	5569000.0	-297.0
93.97	416.4	-297.4	-6024.4	334361.0	3587000.0	-443.0
93.98	28.5	-209.5	-4503.3	224684.0	4433000.0	37.0
93.99	605.1	-321.7	-6999.0	362628.0	4441000.0	-939.0
93.100	-49.2	-228.2	-4507.4	247613.0	5851000.0	-135.0
93.101	546.9	-319.6	-6525.8	361484.0	3305000.0	-604.0
93.102	-98.2	-176.7	-3990.2	182387.0	4715000.0	197.0
93.103	585.8	-344.6	-7172.6	378008.0	4335000.0	-648.0
93.104	197.3	-262.2	-5658.6	274148.0	5180000.0	-167.0
93.105	536.0	-306.1	-6664.1	330822.0	3198000.0	-315.0
93.106	142.7	-244.2	-5172.4	254077.0	4044000.0	166.0
93.107	338.5	-346.6	-7048.3	401352.0	4346000.0	-609.0
93.108	-31.4	-229.4	-5470.7	251589.0	5192000.0	-130.0
93.109	285.1	-313.4	-6542.2	360967.0	3210000.0	-276.0
93.110	-89.7	-196.6	-4978.7	211299.0	4055000.0	203.0
93.111	915.1	-401.4	-9164.6	435400.0	14830000.0	-1255.0
93.112	522.0	-349.8	-7671.8	372741.0	15670000.0	-773.0
93.113	862.1	-373.4	-8663.7	400838.0	13690000.0	-921.0
93.114	466.3	-316.2	-7174.1	331684.0	14540000.0	-440.0
93.115	1603.4	-652.9	-8172.3	674880.0	4584000.0	-12.0
93.116	1565.4	-589.9	-7620.7	599894.0	3448000.0	320.0
93.117	2519.0	-845.5	-9695.7	864501.0	4210000.0	329.0
93.118	2474.7	-791.2	-9188.8	811144.0	3074000.0	657.0
93.119	1714.8	-697.0	-8853.6	719120.0	4196000.0	120.0
93.120	1674.8	-635.4	-8304.2	646177.0	3060000.0	454.0
93.121	1471.6	-665.7	-8689.5	693500.0	4207000.0	157.0
93.122	1421.7	-624.9	-8186.5	652737.0	3071000.0	490.0
93.123	2034.3	-779.7	-10863.2	799313.0	14690000.0	-485.0
93.124	1978.3	-755.1	-10383.1	780788.0	13550000.0	-153.0
93.125	-1163.0	406.4	-8924.1	-422408.0	4734000.0	-1056.0
93.126	-1214.4	362.3	-8388.7	-362944.0	3597000.0	-711.0
93.127	-2154.8	559.9	-11055.4	-531028.0	4457000.0	-1368.0
93.128	-2180.8	472.5	-10425.9	-404406.0	3319000.0	-1025.0
93.129	-1038.0	428.8	-9566.2	-467641.0	4346000.0	-927.0
93.130	-1089.9	387.1	-9033.4	-411564.0	3209000.0	-583.0
93.131	-1275.2	366.2	-9379.3	-355370.0	4356000.0	-889.0
93.132	-1331.0	343.7	-8868.9	-328573.0	3220000.0	-544.0
93.133	-718.8	426.7	-11624.8	-479294.0	14840000.0	-1543.0
93.134	-762.5	358.2	-11059.7	-384339.0	13700000.0	-1199.0

93.135	875.1	205.8	-5683.8	-227486.0	5167000.0	-2849.0
93.136	813.5	206.8	-5209.8	-228671.0	4031000.0	-2511.0
93.137	1184.1	246.8	-6306.1	-270094.0	4785000.0	-3469.0
93.138	1120.4	252.9	-5839.9	-277622.0	3649000.0	-3130.0
93.139	733.9	234.5	-6259.9	-257216.0	4791000.0	-2682.0
93.140	686.9	199.3	-5722.9	-212167.0	3654000.0	-2342.0
93.141	1335.5	141.2	-8296.2	-169476.0	15270000.0	-3330.0
93.142	1285.2	110.0	-7773.8	-130006.0	14140000.0	-2990.0
93.143	1077.1	220.4	-6427.5	-246486.0	4745000.0	-3093.0
93.144	659.3	223.5	-4996.1	-249467.0	5590000.0	-2607.0
93.145	1028.1	190.4	-5898.2	-207942.0	3608000.0	-2753.0
93.146	611.8	188.0	-4459.3	-204041.0	4454000.0	-2266.0
93.147	1211.7	231.0	-6923.3	-260067.0	4463000.0	-3256.0
93.148	536.9	176.8	-4443.7	-189164.0	5872000.0	-2442.0
93.149	1162.5	199.2	-6394.7	-219479.0	3326000.0	-2916.0
93.150	488.5	144.7	-3914.5	-148375.0	4735000.0	-2102.0
93.151	1386.0	261.6	-7050.2	-289363.0	4362000.0	-3713.0
93.152	967.0	269.6	-5627.1	-299100.0	5208000.0	-3227.0
93.153	1336.9	230.5	-6521.1	-249681.0	3226000.0	-3373.0
93.154	919.8	234.3	-5090.5	-253962.0	4071000.0	-2886.0
93.155	950.7	212.2	-6936.5	-228965.0	4368000.0	-2925.0
93.156	533.0	216.1	-5510.0	-233562.0	5213000.0	-2438.0
93.157	887.0	217.9	-6473.2	-235854.0	3232000.0	-2586.0
93.158	498.1	149.8	-4918.7	-148550.0	4076000.0	-2096.0
93.159	1537.8	152.3	-9036.5	-184216.0	14850000.0	-3574.0
93.160	1133.3	126.4	-7556.2	-150273.0	15690000.0	-3085.0
93.161	1486.8	120.9	-8515.3	-144464.0	13710000.0	-3234.0
93.162	1082.8	99.2	-7033.6	-115551.0	14560000.0	-2746.0
93.163	2139.5	-757.9	-8123.6	872505.9	4601000.0	-2285.0
93.164	2101.3	-687.8	-7574.9	784785.0	3465000.0	-1952.0
93.165	3059.4	-923.5	-9622.8	1009000.0	4227000.0	-1940.0
93.166	3027.8	-852.3	-9057.0	920957.0	3091000.0	-1607.0
93.167	2428.9	-830.4	-8778.2	971970.0	4218000.0	-2896.0
93.168	2392.7	-760.5	-8225.5	884628.0	3082000.0	-2563.0
93.169	2012.6	-773.3	-8635.3	894651.0	4224000.0	-2116.0
93.170	1971.6	-701.2	-8086.3	804826.0	3088000.0	-1783.0
93.171	2575.8	-870.8	-10794.0	984641.0	14710000.0	-2762.0
93.172	2533.9	-811.8	-10260.2	911415.1	13570000.0	-2428.0
93.173	-614.2	521.7	-8945.1	-505285.0	4753000.0	-3352.0
93.174	-661.2	469.3	-8397.0	-435177.0	3616000.0	-3006.0
93.175	-1589.3	636.2	-11014.5	-554606.0	4475000.0	-3663.0
93.176	-1624.6	570.1	-10428.2	-461017.0	3338000.0	-3319.0
93.177	-311.5	577.1	-9589.5	-568197.0	4371000.0	-3974.0
93.178	-358.4	527.5	-9043.3	-502207.0	3234000.0	-3630.0
93.179	-733.2	503.1	-9430.0	-470100.0	4376000.0	-3184.0
93.180	-768.8	418.9	-8831.7	-351497.0	3238000.0	-2838.0
93.181	-160.0	506.5	-11597.6	-509329.0	14860000.0	-3840.0
93.182	-224.7	506.8	-11121.4	-514187.0	13720000.0	-3495.0
93.183	26.2	-15.1	-3560.7	23244.0	6335000.0	-1059.0
93.184	-31.0	-30.5	-3055.0	42490.0	5198000.0	-719.0
93.185	-92.1	-30.2	-4040.8	48881.0	5958000.0	-890.0
93.186	-147.1	-49.3	-3533.1	71848.0	4821000.0	-550.0
93.187	72.1	-37.9	-3487.7	47687.0	6335000.0	-1127.0
93.188	19.5	-63.7	-2975.4	79173.0	5199000.0	-781.0
93.189	455.7	-60.1	-6241.3	55607.0	16440000.0	-1538.0
93.190	401.0	-99.5	-5742.5	101755.0	15300000.0	-1198.0
93.191	2024.6	-532.1	-11422.7	646677.0	1987000.0	-3436.0
93.192	1982.0	-525.0	-10882.8	638423.0	850684.0	-3098.0
93.193	1518.6	-434.7	-9523.5	529615.0	3060000.0	-2848.0
93.194	1478.9	-421.4	-8980.1	513129.0	1923000.0	-2510.0
93.195	1394.9	-454.5	-10033.6	560114.0	2683000.0	-2679.0
93.196	1370.3	-406.0	-9416.0	499760.0	1546000.0	-2343.0

93.197	1613.3	-372.8	-9261.3	447279.0	3059000.0	-2922.0
93.198	1564.0	-363.8	-8752.7	435825.0	1923000.0	-2582.0
93.199	1996.4	-463.6	-12021.6	539856.0	13160000.0	-3326.0
93.200	1946.0	-458.3	-11515.0	532951.0	12030000.0	-2990.0
93.201	360.1	-256.7	-5608.6	275281.0	5147000.0	-644.0
93.202	319.5	-214.5	-5082.2	220799.0	4012000.0	-305.0
93.203	486.4	-274.2	-6250.4	278639.0	4759000.0	-512.0
93.204	437.4	-245.1	-5741.7	243368.0	3623000.0	-175.0
93.205	248.7	-230.8	-6071.2	243940.0	4771000.0	-478.0
93.206	198.8	-227.6	-5576.6	242556.0	3635000.0	-138.0
93.207	421.6	-215.7	-5498.6	214796.0	5148000.0	-707.0
93.208	376.8	-198.5	-4985.4	192114.0	4012000.0	-368.0
93.209	791.9	-352.8	-8291.6	368313.0	15250000.0	-1121.0
93.210	738.4	-362.7	-7810.1	384599.0	14120000.0	-781.0
93.211	953.5	160.9	-5519.6	-172169.0	5167000.0	-2954.0
93.212	917.6	60.0	-4916.1	-41455.0	4029000.0	-2611.0
93.213	1262.6	196.5	-6138.4	-208090.0	4784000.0	-3574.0
93.214	1207.3	169.6	-5622.5	-173159.0	3647000.0	-3233.0
93.215	838.6	124.9	-5981.1	-119105.0	4789000.0	-2784.0
93.216	800.4	21.5	-5388.4	15178.0	3652000.0	-2441.0
93.217	1012.9	42.0	-5349.5	-19308.0	5165000.0	-3021.0
93.218	958.9	5.1	-4837.0	27365.0	4028000.0	-2678.0
93.219	1398.4	109.2	-8195.2	-132889.0	15270000.0	-3436.0
93.220	1352.2	57.4	-7641.8	-67145.0	14130000.0	-3095.0
93.221	-106.8	49.8	-3816.5	-57686.0	6332000.0	-872.0
93.222	-157.1	26.1	-3295.6	-27343.0	5195000.0	-533.0
93.223	-235.1	52.1	-4339.7	-53943.0	5955000.0	-704.0
93.224	-272.6	-3.4	-3764.3	16602.0	4818000.0	-362.0
93.225	-139.2	48.7	-3871.0	-56221.0	6330000.0	-816.0
93.226	-189.8	25.4	-3350.8	-26348.0	5193000.0	-476.0
93.227	326.9	9.4	-6483.7	-26649.0	16440000.0	-1350.0
93.228	284.6	-42.0	-5935.0	36823.0	15300000.0	-1010.0
93.229	1955.6	-427.5	-11465.5	521296.0	1987000.0	-3253.0
93.230	1906.8	-416.3	-10940.7	507881.0	850554.0	-2916.0
93.231	1460.1	-319.5	-9528.0	388928.0	3059000.0	-2664.0
93.232	1378.6	-370.9	-9137.7	454219.0	1922000.0	-2324.0
93.233	1296.6	-414.8	-10191.7	513564.0	2682000.0	-2492.0
93.234	1284.4	-324.0	-9512.8	401574.0	1545000.0	-2159.0
93.235	1426.5	-317.4	-9584.4	386581.0	3057000.0	-2609.0
93.236	1378.6	-301.8	-9059.9	367536.0	1920000.0	-2272.0
93.237	1892.6	-431.3	-12211.6	506121.0	13160000.0	-3139.0
93.238	1842.8	-422.6	-11691.7	495523.0	12030000.0	-2802.0
93.239	237.0	-251.6	-5809.8	274537.0	5144000.0	-454.0
93.240	179.7	-216.3	-5314.7	231374.0	4007000.0	-121.0
93.241	343.9	-283.6	-6488.2	300402.0	4755000.0	-325.0
93.242	285.4	-247.2	-5995.7	255796.0	3619000.0	7.8
93.243	104.8	-287.8	-6341.2	327141.0	4766000.0	-286.0
93.244	58.5	-216.3	-5805.2	235135.0	3630000.0	45.0
93.245	204.9	-247.6	-5863.6	269634.0	5142000.0	-398.0
93.246	147.3	-211.9	-5369.1	226077.0	4006000.0	-65.0
93.247	670.0	-370.3	-8499.8	397537.0	15250000.0	-930.0
93.248	611.9	-337.5	-8005.0	357839.0	14110000.0	-597.0
93.249	825.7	203.5	-5765.1	-224180.0	5165000.0	-2764.0
93.250	776.1	173.4	-5238.4	-185914.0	4028000.0	-2425.0
93.251	1134.3	244.6	-6387.9	-266890.0	4782000.0	-3384.0
93.252	1084.8	214.1	-5860.0	-227821.0	3646000.0	-3044.0
93.253	699.9	195.0	-6275.0	-206781.0	4788000.0	-2597.0
93.254	638.2	197.0	-5803.9	-209288.0	3652000.0	-2258.0
93.255	792.4	202.1	-5819.9	-222016.0	5163000.0	-2708.0
93.256	743.7	171.8	-5291.5	-183505.0	4026000.0	-2368.0
93.257	1285.1	138.3	-8381.1	-165653.0	15270000.0	-3246.0
93.258	1236.1	110.3	-7855.9	-130054.0	14130000.0	-2906.0

93.401	7982.6	-430.0	6221.3	207776.0	-70010.0	2305.0
93.402	5403.4	-532.4	4885.5	297242.0	4080000.0	1789.0
93.403	6580.1	-677.6	4654.4	481691.0	-703501.0	3261.0
93.404	4067.5	-777.0	3446.3	564901.0	3450000.0	2746.0
93.405	-4088.9	607.2	-7728.5	-312867.0	3027000.0	-4264.0
93.406	-6567.9	652.9	-8937.8	-387519.0	7179000.0	-4797.0
93.407	-5331.4	-182.6	-7943.8	966238.9	2370000.0	-3324.0
93.408	-7701.7	-290.1	-8777.2	1140000.0	6521000.0	-3854.0
93.409	7980.9	-443.8	6163.2	213119.0	-91319.0	2320.0
93.410	5384.9	-545.9	4797.0	302656.0	4058000.0	1800.0
93.411	6559.8	-666.8	4674.1	483027.0	-682428.0	3258.0
93.412	4050.5	-765.7	3473.3	565606.0	3472000.0	2744.0
93.413	-3843.4	48.4	-6681.1	564798.0	2996000.0	-4240.0
93.414	-6254.4	-29.8	-7624.5	691205.0	7146000.0	-4772.0
93.415	-5425.9	31.1	-8328.4	629536.0	2394000.0	-3341.0
93.416	-7773.5	-122.0	-9069.8	875184.0	6544000.0	-3872.0
93.417	11643.4	-298.4	7219.8	112826.0	-13061.0	3121.0
93.418	9076.3	-420.2	5888.7	234669.0	4138000.0	2611.0
93.419	10221.1	-563.6	5623.2	422359.0	-644013.0	4113.0
93.420	7703.5	-679.8	4391.8	534452.0	3510000.0	3602.0
93.421	-7900.4	956.2	-9396.7	-898409.0	2974000.0	-5168.0
93.422	-10378.1	974.2	-10559.1	-924128.0	7125000.0	-5702.0
93.423	-9024.2	-347.3	-8777.8	1190000.0	2306000.0	-4229.0
93.424	-11441.3	-382.8	-9762.8	1253000.0	6459000.0	-4762.0
93.425	11625.4	-318.9	7141.5	135322.0	-34680.0	3121.0
93.426	9061.7	-432.9	5826.2	244613.0	4117000.0	2612.0
93.427	10224.7	-541.3	5676.0	396571.0	-623214.0	4111.0
93.428	7708.6	-655.2	4450.2	504903.0	3531000.0	3599.0
93.429	-7750.0	448.2	-8516.0	-106582.0	2946000.0	-5147.0
93.430	-10261.5	520.1	-9796.1	-214505.0	7098000.0	-5683.0
93.431	-9469.2	730.4	-10858.9	-542764.0	2345000.0	-4252.0
93.432	-11938.4	803.5	-12066.6	-654038.0	6500000.0	-4787.0
93.433	5106.9	220.1	2664.5	-315810.0	1731000.0	-1107.0
93.434	2570.1	260.7	1431.7	-406115.0	5878000.0	-1625.0
93.435	443.4	-579.4	-2133.4	557094.0	-361485.0	2068.0
93.436	-2118.2	-729.0	-3492.1	726395.0	3793000.0	1556.0
93.437	1539.4	790.3	-1909.5	-882513.9	2684000.0	-3213.0
93.438	-1002.7	809.2	-3190.6	-911933.0	6829000.0	-3762.0
93.439	-2883.3	-468.3	-4913.3	966418.0	552078.0	36.0
93.440	-5326.1	-539.8	-5954.3	1056000.0	4705000.0	-484.0
93.441	5881.7	187.7	2534.7	-287287.0	1729000.0	-918.0
93.442	3317.2	210.7	1281.6	-364190.0	5878000.0	-1440.0
93.443	1594.6	-587.5	-1791.5	600600.0	-344370.0	2337.0
93.444	-912.5	-750.2	-3075.2	780837.0	3810000.0	1827.0
93.445	862.1	840.9	-1465.1	-969744.1	2686000.0	-3408.0
93.446	-1699.6	862.6	-2778.2	-1002000.0	6831000.0	-3950.0
93.447	-3990.7	-515.7	-5150.9	1051000.0	533405.0	-255.0
93.448	-6440.6	-578.2	-6214.8	1129000.0	4686000.0	-775.0
93.449	5129.7	134.2	2767.0	-302907.0	1646000.0	-1054.0
93.450	2590.2	69.2	1538.0	-273499.0	5793000.0	-1568.0
93.451	487.6	-502.5	-1934.6	482490.0	-297054.0	2077.0
93.452	-1999.9	-583.2	-3121.8	550653.0	3857000.0	1566.0
93.453	1728.5	45.4	-954.7	104588.0	2592000.0	-3074.0
93.454	-785.1	8.4	-2124.5	168640.0	6735000.0	-3639.0
93.455	-3121.2	196.2	-5958.9	-40766.0	630037.0	15.0
93.456	-5585.9	206.2	-7136.7	-83084.0	4784000.0	-503.0
93.457	5945.0	204.8	2615.2	-369582.0	1654000.0	-841.0
93.458	3419.7	146.7	1421.3	-346948.0	5804000.0	-1352.0
93.459	1647.9	-509.1	-1541.5	507917.0	-278070.0	2339.0
93.460	-841.5	-609.1	-2742.6	598108.0	3876000.0	1832.0
93.461	1070.9	88.3	-540.3	-10422.0	2593000.0	-3279.0
93.462	-1444.1	65.0	-1721.9	31100.0	6738000.0	-3817.0

93.463	-4249.4	278.4	-6431.3	-177882.0	612407.0	-268.0
93.464	-6702.8	287.6	-7569.4	-207985.0	4766000.0	-788.0
93.529	6724.9	5.1	3099.2	-53262.0	-3833000.0	600.0
93.530	-1907.6	-274.5	-1414.0	164505.0	9997000.0	-1107.0
93.531	5215.8	-212.1	1388.0	182024.0	-4468000.0	1543.0
93.532	-3137.4	-660.8	-2756.3	641547.0	9381000.0	-165.0
93.533	3162.2	386.0	-1181.7	-347734.0	-2885000.0	-1389.0
93.534	-5192.5	450.8	-5307.3	-475662.0	10940000.0	-3197.0
93.535	1644.0	-104.0	-2275.7	401116.0	-3546000.0	-437.0
93.536	-6399.8	-329.1	-5517.1	722136.0	10300000.0	-2191.0
93.537	6730.1	-9.1	3054.7	-48708.0	-3855000.0	610.0
93.538	-1903.3	-330.7	-1439.7	217825.0	9974000.0	-1086.0
93.539	5227.4	-199.4	1451.7	173504.0	-4448000.0	1546.0
93.540	-3135.6	-559.1	-2631.6	516263.0	9401000.0	-163.0
93.541	3237.7	119.7	-803.3	13952.0	-2912000.0	-1347.0
93.542	-5056.8	6.2	-4611.3	182804.0	10910000.0	-3172.0
93.543	1512.6	201.7	-2829.9	-79265.0	-3520000.0	-457.0
93.544	-6631.6	215.2	-6535.9	-139428.0	10330000.0	-2198.0
93.545	7804.8	66.5	3387.5	-115664.0	-3816000.0	820.0
93.546	-905.0	-257.8	-1258.9	168057.0	10010000.0	-875.0
93.547	6345.4	-181.0	1740.7	166764.0	-4450000.0	1807.0
93.548	-2064.4	-665.2	-2528.0	689432.0	9399000.0	102.0
93.549	2214.9	433.7	-1273.5	-437395.0	-2898000.0	-1646.0
93.550	-6293.8	550.7	-5670.0	-623419.0	10930000.0	-3445.0
93.551	499.4	-119.2	-2629.8	415562.0	-3564000.0	-713.0
93.552	-7545.4	-382.9	-5787.3	818917.0	10280000.0	-2472.0
93.553	7784.6	58.0	3319.9	-112437.0	-3838000.0	825.0
93.554	-928.3	-285.5	-1347.6	193606.0	9988000.0	-871.0
93.555	6340.9	-164.8	1771.2	150733.0	-4430000.0	1804.0
93.556	-2051.7	-615.9	-2429.3	627300.0	9420000.0	101.0
93.557	2233.4	193.3	-997.7	-108348.0	-2922000.0	-1614.0
93.558	-6183.7	182.1	-5081.0	-86885.0	10900000.0	-3410.0
93.559	366.2	279.9	-3329.3	-216543.0	-3537000.0	-730.0
93.560	-7824.0	367.3	-7170.8	-382574.0	10310000.0	-2488.0
94.1	-689.3	-124.7	-4892.4	114426.0	6298000.0	716.0
94.2	-504.1	-78.0	-3927.8	69358.0	5191000.0	466.0
94.3	-674.0	-97.6	-5108.6	84582.0	5937000.0	598.0
94.4	-489.7	-58.7	-4155.0	53011.0	4830000.0	348.0
94.5	-670.9	-36.8	-8137.3	-96242.0	16570000.0	1178.0
94.6	-501.6	-26.6	-7242.4	-82201.0	15470000.0	929.0
94.7	-652.0	-36.8	-16179.2	-323434.0	1053000.0	3047.0
94.8	-498.5	-55.8	-15354.0	-255278.0	-53883.0	2797.0
94.9	-656.9	-53.5	-13378.9	-222902.0	2347000.0	2472.0
94.10	-485.8	-44.9	-12499.7	-201089.0	1240000.0	2223.0
94.11	-641.9	-62.4	-13666.9	-186434.0	1986000.0	2355.0
94.12	-485.5	-56.4	-12785.1	-168991.0	879038.0	2104.0
94.13	-657.3	-35.5	-16761.4	-314238.0	12620000.0	2937.0
94.14	-505.3	-54.0	-15936.6	-247312.0	11520000.0	2687.0
94.15	-651.0	-36.8	-5829.8	-58260.0	5789000.0	931.0
94.16	-663.0	-77.7	-3696.3	70399.0	6808000.0	501.0
94.17	-482.8	-27.7	-4935.8	-43155.0	4681000.0	681.0
94.18	-477.8	-35.8	-2739.2	34329.0	5701000.0	251.0
94.19	-652.1	-34.0	-6562.5	-83469.0	5449000.0	1074.0
94.20	-646.1	-48.8	-2904.6	45781.0	7148000.0	357.0
94.21	-487.9	-34.4	-5686.5	-51909.0	4341000.0	824.0
94.22	-465.1	-0.9	-1963.5	5998.0	6041000.0	106.0
94.23	-648.7	-39.6	-6100.0	-40977.0	5428000.0	812.0
94.24	-649.3	-60.2	-3927.6	57398.0	6447000.0	383.0
94.25	-478.8	-26.7	-5201.8	-31230.0	4320000.0	564.0
94.26	-467.9	-16.2	-2978.8	20856.0	5340000.0	132.0
94.27	-681.9	-56.7	-9280.9	-92904.0	16060000.0	1393.0
94.28	-665.2	-28.9	-7013.1	-80584.0	17080000.0	963.0

94.29	-469.7	-35.8	-8348.2	-83083.0	14960000.0	1146.0
94.30	-503.0	-32.7	-6144.7	-43308.0	15980000.0	713.0
94.31	-651.8	-39.8	-17292.4	-345829.0	543513.0	3262.0
94.32	-654.6	-57.3	-15117.8	-253983.0	1563000.0	2833.0
94.33	-494.9	-35.1	-16415.4	-324404.0	-563704.0	3012.0
94.34	-500.1	-53.7	-14243.0	-232179.0	455937.0	2582.0
94.35	-652.0	-83.9	-15288.5	-207407.0	1497000.0	2831.0
94.36	-654.3	-45.1	-11516.8	-190818.0	3197000.0	2113.0
94.37	-502.6	-55.4	-14362.0	-236902.0	390185.0	2579.0
94.38	-484.8	-36.8	-10637.2	-169556.0	2090000.0	1864.0
94.39	-658.3	-58.5	-14496.3	-241856.0	1837000.0	2686.0
94.40	-655.2	-48.4	-12261.6	-203745.0	2857000.0	2256.0
94.41	-501.7	-52.1	-13617.4	-224034.0	730065.0	2435.0
94.42	-485.4	-40.0	-11382.4	-182175.0	1750000.0	2008.0
94.43	-632.6	-49.8	-14746.8	-235898.0	1476000.0	2571.0
94.44	-650.7	-59.8	-12551.5	-168761.0	2496000.0	2138.0
94.45	-474.5	-41.7	-13860.7	-221353.0	369219.0	2320.0
94.46	-493.0	-51.8	-11666.5	-154349.0	1389000.0	1888.0
94.47	-659.1	-41.9	-17881.7	-331009.0	12110000.0	3153.0
94.48	-659.8	-55.3	-15698.3	-245853.0	13130000.0	2722.0
94.49	-500.5	-31.2	-16994.1	-319725.0	11010000.0	2902.0
94.50	-516.4	-70.8	-14863.2	-192469.0	12030000.0	2471.0
94.51	-128.1	55.3	-12461.3	-185284.0	5236000.0	875.0
94.52	19.8	63.3	-11588.6	-174082.0	4129000.0	621.0
94.53	147.5	111.2	-17710.3	-296233.0	4528000.0	973.0
94.54	291.5	112.6	-16853.5	-273182.0	3421000.0	722.0
94.55	-111.3	53.9	-12697.4	-170631.0	4875000.0	756.0
94.56	38.4	56.8	-11819.8	-150146.0	3768000.0	501.0
94.57	-123.9	72.3	-15840.9	-275438.0	15510000.0	1341.0
94.58	31.7	81.2	-14956.3	-265610.0	14410000.0	1086.0
94.59	-54.9	182.4	-23683.0	-676411.0	-8708.0	3205.0
94.60	80.7	144.4	-22875.6	-587723.0	-1116000.0	2954.0
94.61	-79.6	137.1	-20939.8	-532385.0	1285000.0	2630.0
94.62	69.9	132.3	-20078.2	-500082.0	177843.0	2380.0
94.63	218.6	184.4	-26188.7	-625945.0	577030.0	2749.0
94.64	353.4	153.9	-25376.9	-550342.0	-530187.0	2496.0
94.65	-65.3	138.1	-21183.9	-523797.0	924211.1	2512.0
94.66	85.5	132.6	-20319.0	-490435.0	-183005.0	2262.0
94.67	-77.4	144.9	-24328.4	-603455.0	11560000.0	3093.0
94.68	88.7	174.3	-23405.8	-628095.0	10450000.0	2843.0
94.69	-1238.7	-129.7	-7175.4	151507.0	5236000.0	624.0
94.70	-1041.6	-62.0	-6192.9	78432.0	4129000.0	372.0
94.71	-1552.6	-76.7	-8595.7	98473.0	4528000.0	557.0
94.72	-1385.1	46.9	-7623.8	-59857.0	3421000.0	290.0
94.73	-1242.9	-105.1	-7440.0	127567.0	4876000.0	506.0
94.74	-1052.9	18.6	-6480.0	-14552.0	3768000.0	248.0
94.75	-1321.9	-260.2	-10776.2	280051.0	15510000.0	1090.0
94.76	-1127.7	-214.1	-9801.3	235592.0	14410000.0	838.0
94.77	-1674.8	-703.8	-19769.9	733779.0	-8718.0	2951.0
94.78	-1464.9	-660.7	-18769.4	693074.0	-1116000.0	2701.0
94.79	-1552.5	-564.8	-16627.7	589922.0	1285000.0	2378.0
94.80	-1351.7	-519.8	-15636.5	545314.0	177863.0	2128.0
94.81	-1854.6	-575.4	-18002.2	610195.0	577115.0	2317.0
94.82	-1649.0	-515.3	-16993.6	543512.0	-530111.0	2067.0
94.83	-1541.1	-532.4	-16846.3	549080.0	924234.9	2260.0
94.84	-1341.2	-488.6	-15858.1	506468.0	-182989.0	2011.0
94.85	-1666.0	-682.6	-20311.9	712934.0	11560000.0	2839.0
94.86	-1464.5	-638.7	-19321.5	670209.0	10450000.0	2589.0
94.87	-992.2	-7.6	-8053.3	-149570.0	4871000.0	535.0
94.88	-832.0	5.4	-7159.9	-142714.0	3764000.0	285.0
94.89	-1115.3	5.8	-9148.2	-197259.0	4404000.0	475.0
94.90	-960.6	12.2	-8271.3	-180491.0	3296000.0	225.0

94.91	-988.5	-12.8	-8328.8	-126801.0	4510000.0	417.0
94.92	-826.4	-6.0	-7444.3	-108562.0	3403000.0	166.0
94.93	-1013.7	-18.0	-11491.9	-194909.0	15150000.0	998.0
94.94	-855.1	-8.3	-10605.9	-182202.0	14040000.0	747.0
94.95	-983.2	-1.4	-9147.2	-186042.0	4361000.0	751.0
94.96	-990.7	0.2	-6932.4	-134853.0	5381000.0	319.0
94.97	-827.4	-3.8	-8285.2	-150863.0	3254000.0	501.0
94.98	-833.2	2.1	-6058.6	-109395.0	4274000.0	68.0
94.99	-982.7	-3.8	-9889.0	-200250.0	4021000.0	895.0
94.100	-990.0	-1.6	-6197.2	-112464.0	5721000.0	175.0
94.101	-828.5	-10.3	-9035.3	-157961.0	2914000.0	644.0
94.102	-838.4	-0.1	-5326.0	-89353.0	4613000.0	-75.0
94.103	-1108.0	8.0	-10250.9	-226429.0	3894000.0	690.0
94.104	-1115.3	9.5	-8033.8	-176536.0	4913000.0	259.0
94.105	-951.0	21.5	-9361.4	-220502.0	2787000.0	440.0
94.106	-963.1	6.7	-7175.0	-143954.0	3806000.0	8.9
94.107	-978.9	-8.6	-9427.2	-158735.0	4000000.0	633.0
94.108	-999.5	-16.3	-7231.1	-97501.0	5020000.0	201.0
94.109	-820.4	-0.1	-8540.6	-144622.0	2893000.0	382.0
94.110	-838.3	-7.1	-6340.0	-84715.0	3913000.0	-50.0
94.111	-1014.3	-24.0	-12609.2	-212236.0	14640000.0	1213.0
94.112	-1013.3	-12.4	-10375.5	-176541.0	15660000.0	782.0
94.113	-856.7	-15.9	-11727.2	-196892.0	13530000.0	963.0
94.114	-851.4	2.4	-9477.2	-172607.0	14550000.0	531.0
94.115	-478.3	101.3	-15768.0	-347155.0	3809000.0	697.0
94.116	-331.7	98.7	-14908.8	-318688.0	2702000.0	444.0
94.117	-202.2	137.9	-21054.9	-423488.0	3101000.0	798.0
94.118	-61.7	134.6	-20216.4	-390626.0	1994000.0	541.0
94.119	-595.1	109.7	-16860.2	-387732.0	3342000.0	638.0
94.120	-441.5	122.4	-15974.7	-385396.0	2234000.0	387.0
94.121	-461.1	100.6	-16004.8	-335680.0	3448000.0	578.0
94.122	-311.7	98.0	-15145.5	-305322.0	2341000.0	325.0
94.123	-487.8	91.6	-19188.0	-392123.0	14080000.0	1161.0
94.124	-332.8	92.1	-18320.7	-365081.0	12980000.0	908.0
94.125	-1705.4	-301.7	-10798.3	319141.0	3809000.0	434.0
94.126	-1506.9	-259.6	-9814.6	279177.0	2702000.0	185.0
94.127	-2019.9	-302.5	-12224.7	336321.0	3101000.0	375.0
94.128	-1825.3	-260.0	-11244.9	296127.0	1994000.0	123.0
94.129	-1870.9	-370.0	-12029.5	396844.0	3342000.0	372.0
94.130	-1669.7	-323.8	-11035.9	350260.0	2234000.0	122.0
94.131	-1705.3	-289.1	-11056.3	310235.0	3448000.0	317.0
94.132	-1505.9	-238.9	-10067.6	258613.0	2341000.0	68.0
94.133	-1803.5	-409.9	-14445.2	425886.0	14080000.0	897.0
94.134	-1609.4	-380.7	-13479.0	405852.0	12980000.0	647.0
94.135	-449.6	-299.1	-8098.5	283192.0	4871000.0	2330.0
94.136	-266.2	-255.5	-7140.5	242635.0	3764000.0	2081.0
94.137	-367.7	-350.7	-9137.4	330865.0	4403000.0	2858.0
94.138	-178.6	-292.2	-8154.6	267432.0	3296000.0	2610.0
94.139	-436.5	-274.7	-8321.3	256277.0	4510000.0	2214.0
94.140	-251.8	-234.4	-7364.3	221097.0	3403000.0	1964.0
94.141	-506.1	-357.5	-11632.1	310695.0	15150000.0	2791.0
94.142	-322.5	-318.6	-10679.1	277663.0	14040000.0	2543.0
94.143	-474.5	-337.4	-9285.3	315212.0	4361000.0	2546.0
94.144	-416.6	-236.1	-6874.2	213569.0	5381000.0	2115.0
94.145	-288.4	-293.7	-8322.1	274657.0	3254000.0	2296.0
94.146	-229.1	-191.1	-5907.3	170849.0	4273000.0	1865.0
94.147	-489.9	-360.4	-10071.2	332351.0	4021000.0	2689.0
94.148	-391.5	-199.9	-6058.3	176251.0	5721000.0	1971.0
94.149	-303.9	-317.2	-9109.3	292854.0	2914000.0	2440.0
94.150	-208.9	-164.0	-5110.2	148098.0	4613000.0	1722.0
94.151	-392.4	-388.3	-10322.9	361680.0	3894000.0	3074.0
94.152	-339.3	-297.0	-7930.2	275484.0	4913000.0	2644.0

94.153	-205.9	-344.2	-9358.9	320636.0	2786000.0	2825.0
94.154	-154.2	-256.5	-6972.3	239936.0	3806000.0	2394.0
94.155	-457.0	-310.9	-9497.6	285308.0	4000000.0	2428.0
94.156	-407.6	-227.7	-7120.2	211871.0	5020000.0	1998.0
94.157	-275.6	-269.2	-8544.9	247417.0	2893000.0	2179.0
94.158	-217.8	-181.9	-6149.5	168564.0	3913000.0	1748.0
94.159	-528.9	-392.2	-12811.1	336824.0	14640000.0	3007.0
94.160	-482.8	-322.4	-10452.3	283847.0	15660000.0	2577.0
94.161	-345.1	-351.9	-11856.4	301702.0	13530000.0	2758.0
94.162	-299.1	-282.9	-9497.9	249888.0	14550000.0	2327.0
94.163	290.1	121.8	-15185.2	-386128.0	3809000.0	2484.0
94.164	432.2	111.2	-14338.1	-344922.0	2702000.0	2234.0
94.165	562.2	142.0	-20482.1	-437641.0	3101000.0	2590.0
94.166	703.6	136.8	-19635.1	-404413.0	1994000.0	2340.0
94.167	423.3	129.4	-16093.9	-426070.0	3341000.0	3012.0
94.168	564.4	119.2	-15247.2	-385777.0	2234000.0	2761.0
94.169	294.2	100.1	-15466.3	-337624.0	3448000.0	2365.0
94.170	446.2	111.6	-14582.1	-335871.0	2341000.0	2115.0
94.171	279.2	111.1	-18596.9	-429014.0	14080000.0	2946.0
94.172	425.3	104.6	-17742.4	-393728.0	12980000.0	2696.0
94.173	-992.4	-308.8	-10334.8	320815.0	3809000.0	2245.0
94.174	-798.8	-269.6	-9366.4	286811.0	2702000.0	1994.0
94.175	-1319.8	-326.8	-11798.1	364697.0	3101000.0	2182.0
94.176	-1126.7	-267.2	-10825.0	303259.0	1994000.0	1928.0
94.177	-911.1	-374.2	-11378.1	388022.0	3342000.0	2774.0
94.178	-718.6	-320.0	-10399.3	331172.0	2234000.0	2523.0
94.179	-996.8	-308.8	-10608.4	330445.0	3448000.0	2128.0
94.180	-802.3	-268.3	-9634.0	293361.0	2341000.0	1876.0
94.181	-1096.1	-442.0	-14002.7	463717.0	14080000.0	2706.0
94.182	-898.8	-398.6	-13018.9	421084.0	12980000.0	2457.0
94.183	-693.8	-105.3	-4877.0	72904.0	6298000.0	759.0
94.184	-500.8	-46.4	-3884.8	7554.0	5191000.0	510.0
94.185	-683.0	-92.9	-5114.8	65277.0	5937000.0	641.0
94.186	-501.5	-57.3	-4168.6	37741.0	4830000.0	391.0
94.187	-697.8	-106.1	-4883.4	66134.0	6298000.0	788.0
94.188	-488.5	-59.8	-3877.9	19737.0	5191000.0	536.0
94.189	-692.8	-53.7	-8191.5	-78303.0	16570000.0	1223.0
94.190	-526.8	-56.4	-7318.9	-42501.0	15470000.0	973.0
94.191	-656.2	-49.1	-16222.9	-303305.0	1053000.0	3091.0
94.192	-495.7	-42.9	-15337.1	-285271.0	-54122.0	2842.0
94.193	-646.8	-40.3	-13376.6	-245050.0	2347000.0	2516.0
94.194	-497.3	-52.3	-12528.7	-197604.0	1240000.0	2267.0
94.195	-647.7	-56.4	-13668.1	-206567.0	1986000.0	2399.0
94.196	-494.5	-49.3	-12776.4	-195687.0	878794.1	2148.0
94.197	-689.3	-59.5	-13435.1	-229441.0	2347000.0	2545.0
94.198	-514.5	-53.2	-12527.6	-211953.0	1239000.0	2295.0
94.199	-685.3	-51.9	-16806.3	-299323.0	12620000.0	2978.0
94.200	-523.5	-44.6	-15921.6	-281882.0	11520000.0	2728.0
94.201	-996.5	-17.4	-8065.6	-145376.0	4871000.0	574.0
94.202	-831.3	-7.8	-7164.9	-135672.0	3764000.0	325.0
94.203	-1126.3	-20.5	-9186.5	-168941.0	4403000.0	517.0
94.204	-957.8	-3.3	-8274.8	-170208.0	3296000.0	264.0
94.205	-1007.7	-35.7	-8364.7	-107445.0	4510000.0	456.0
94.206	-837.5	-24.8	-7462.5	-97566.0	3403000.0	207.0
94.207	-995.3	-30.9	-8064.7	-136631.0	4871000.0	603.0
94.208	-838.8	-43.4	-7208.0	-90050.0	3763000.0	353.0
94.209	-1022.6	-17.3	-11495.2	-209055.0	15150000.0	1040.0
94.210	-847.9	-10.3	-10593.5	-190962.0	14040000.0	790.0
94.211	-454.2	-264.0	-8064.0	217541.0	4871000.0	2374.0
94.212	-257.3	-215.4	-7079.9	170169.0	3763000.0	2124.0
94.213	-374.2	-319.8	-9110.8	271617.0	4403000.0	2902.0
94.214	-182.2	-265.0	-8125.4	213192.0	3296000.0	2653.0

94.215	-438.8	-247.8	-8290.9	203254.0	4510000.0	2256.0
94.216	-243.2	-202.2	-7313.4	160931.0	3403000.0	2006.0
94.217	-446.0	-247.8	-8034.5	186431.0	4870000.0	2401.0
94.218	-257.6	-200.6	-7065.6	140201.0	3763000.0	2155.0
94.219	-526.1	-358.7	-11665.0	301812.0	15150000.0	2837.0
94.220	-338.5	-320.5	-10705.6	270302.0	14040000.0	2587.0
94.221	-683.5	-119.3	-4881.3	112353.0	6298000.0	688.0
94.222	-498.7	-71.6	-3917.2	66782.0	5191000.0	438.0
94.223	-671.4	-93.8	-5105.7	86334.0	5938000.0	570.0
94.224	-486.5	-51.2	-4147.7	49651.0	4830000.0	320.0
94.225	-680.5	-115.2	-4874.8	110287.0	6299000.0	670.0
94.226	-496.0	-67.1	-3911.2	64620.0	5191000.0	420.0
94.227	-673.5	-42.8	-8150.1	-80237.0	16570000.0	1150.0
94.228	-502.8	-31.4	-7250.7	-68682.0	15470000.0	901.0
94.229	-654.5	-33.9	-16182.7	-323020.0	1053000.0	3016.0
94.230	-495.7	-26.4	-15299.1	-306271.0	-53779.0	2766.0
94.231	-658.4	-50.3	-13381.1	-222708.0	2347000.0	2442.0
94.232	-486.2	-39.7	-12497.3	-203971.0	1240000.0	2194.0
94.233	-643.6	-59.0	-13669.1	-186050.0	1986000.0	2326.0
94.234	-496.0	-36.3	-12754.2	-206270.0	879138.9	2074.0
94.235	-657.2	-46.0	-13376.3	-225995.0	2347000.0	2424.0
94.236	-502.4	-39.8	-12500.2	-207916.0	1240000.0	2174.0
94.237	-669.2	-34.9	-16768.8	-313911.0	12620000.0	2906.0
94.238	-511.1	-27.3	-15887.8	-296816.0	11520000.0	2656.0
94.239	-999.5	-2.9	-8063.5	-151481.0	4871000.0	506.0
94.240	-838.8	7.9	-7170.8	-141379.0	3764000.0	255.0
94.241	-1121.4	8.7	-9157.3	-196545.0	4404000.0	445.0
94.242	-962.2	14.3	-8273.1	-178147.0	3297000.0	194.0
94.243	-994.0	-4.1	-8331.5	-135143.0	4510000.0	388.0
94.244	-847.1	-11.3	-7471.7	-99294.0	3403000.0	137.0
94.245	-1003.7	-0.2	-8069.4	-152142.0	4871000.0	488.0
94.246	-843.8	9.6	-7179.2	-140615.0	3764000.0	237.0
94.247	-1022.2	-16.2	-11506.8	-192206.0	15150000.0	969.0
94.248	-856.2	2.7	-10597.3	-194644.0	14040000.0	718.0
94.249	-434.0	-278.3	-8055.3	257742.0	4871000.0	2303.0
94.250	-254.3	-250.6	-7118.8	241134.0	3764000.0	2053.0
94.251	-350.5	-328.0	-9089.3	302268.0	4404000.0	2831.0
94.252	-164.2	-286.6	-8128.6	265505.0	3296000.0	2581.0
94.253	-425.2	-270.1	-8301.4	255969.0	4510000.0	2185.0
94.254	-244.5	-228.3	-7349.6	217718.0	3403000.0	1937.0
94.255	-423.3	-262.2	-8023.4	237031.0	4871000.0	2285.0
94.256	-244.8	-233.0	-7088.2	218991.0	3764000.0	2036.0
94.257	-498.2	-350.2	-11615.4	305366.0	15150000.0	2764.0
94.258	-315.0	-310.1	-10661.3	270429.0	14040000.0	2515.0
94.401	3542.6	220.7	-6275.6	-858449.0	59209.0	2660.0
94.402	1820.3	223.6	-7863.0	-921226.0	3220000.0	3167.0
94.403	1866.7	-141.2	-8900.4	-179112.0	374873.0	1865.0
94.404	114.2	-147.0	-10548.5	-229156.0	3536000.0	2370.0
94.405	-1202.7	697.9	4591.4	-597568.0	2790000.0	-1074.0
94.406	-3037.4	722.0	2742.2	-628031.0	5952000.0	-590.0
94.407	-2898.4	607.8	2579.3	-484827.0	3106000.0	-2080.0
94.408	-4757.5	622.7	714.2	-508331.0	6268000.0	-1599.0
94.409	3362.8	61.6	-6736.3	-610069.0	58156.0	2606.0
94.410	1656.4	70.0	-8291.7	-679193.0	3219000.0	3116.0
94.411	2057.9	65.8	-8365.0	-509614.0	375928.0	1908.0
94.412	305.9	65.1	-10006.4	-568104.0	3537000.0	2413.0
94.413	-1282.4	678.0	4552.4	-595083.0	2789000.0	-1150.0
94.414	-3131.7	701.4	2692.3	-630646.0	5951000.0	-668.0
94.415	-2837.6	614.5	2637.3	-480684.0	3108000.0	-2023.0
94.416	-4698.8	630.5	775.1	-506735.0	6269000.0	-1545.0
94.417	4876.3	325.6	-7463.5	-1018000.0	289864.0	3101.0
94.418	3162.0	369.3	-8997.8	-1146000.0	3451000.0	3610.0

94.419	3249.8	183.7	-9758.7	-705908.0	605535.0	2265.0
94.420	1518.9	227.6	-11320.0	-835209.9	3767000.0	2773.0
94.421	-2825.7	422.3	5257.6	-280727.0	2559000.0	-1446.0
94.422	-4683.0	377.8	3361.1	-232689.0	5720000.0	-955.0
94.423	-4384.8	50.8	3471.8	147921.0	2875000.0	-2421.0
94.424	-6275.5	-23.9	1523.3	232525.0	6037000.0	-1931.0
94.425	4793.8	320.5	-7596.4	-1007000.0	288832.0	3047.0
94.426	3079.1	363.9	-9129.5	-1136000.0	3450000.0	3557.0
94.427	3332.9	188.7	-9624.0	-716813.0	606579.0	2306.0
94.428	1601.8	232.6	-11185.1	-846155.9	3768000.0	2815.0
94.429	-2915.9	-58.3	5128.2	290604.0	2558000.0	-1467.0
94.430	-4775.2	-126.5	3213.2	368782.0	5719000.0	-972.0
94.431	-4268.2	476.5	3520.3	-329461.0	2876000.0	-2386.0
94.432	-6139.2	437.5	1600.6	-284301.0	6038000.0	-1896.0
94.433	3410.3	370.9	-226.8	-927966.0	646478.0	2342.0
94.434	1717.6	410.1	-1688.2	-1062000.0	3808000.0	2869.0
94.435	-1559.9	-610.7	-7445.4	743611.0	1699000.0	-473.0
94.436	-3323.7	-702.2	-9205.1	857870.0	4861000.0	12.0
94.437	2488.8	278.1	3638.7	-367724.0	1466000.0	1370.0
94.438	721.2	328.9	2001.1	-493845.0	4627000.0	1880.0
94.439	-3065.7	-190.8	-3529.6	358841.0	2519000.0	-1797.0
94.440	-4926.3	-241.6	-5455.7	411348.0	5680000.0	-1307.0
94.441	4441.6	340.8	418.2	-834395.0	715865.0	2491.0
94.442	2828.6	375.7	-917.5	-952842.0	3877000.0	3012.0
94.443	-1121.9	-365.9	-7520.1	463217.0	1769000.0	-383.0
94.444	-2917.7	-453.7	-9323.0	579245.0	4930000.0	110.0
94.445	1332.8	281.3	2879.7	-460287.0	1396000.0	1230.0
94.446	-331.0	330.3	1425.7	-588467.0	4558000.0	1741.0
94.447	-3601.2	-500.7	-3647.0	702642.0	2450000.0	-1875.0
94.448	-5451.3	-563.6	-5541.6	774926.0	5611000.0	-1385.0
94.449	2809.1	-58.5	-1636.0	-260329.0	642910.0	2199.0
94.450	1115.9	-66.4	-3170.6	-311855.0	3804000.0	2725.0
94.451	-1089.1	-179.3	-6132.0	292351.0	1703000.0	-416.0
94.452	-2863.9	-220.3	-7796.0	355267.0	4864000.0	67.0
94.453	2014.0	-181.7	2619.3	233254.0	1462000.0	1216.0
94.454	135.8	-192.1	757.5	206551.0	4624000.0	1729.0
94.455	-2746.9	15.4	-2977.6	169790.0	2523000.0	-1660.0
94.456	-4594.9	39.5	-4857.3	140044.0	5684000.0	-1179.0
94.457	3794.2	178.8	-769.5	-612019.0	712373.0	2337.0
94.458	2095.5	167.3	-2316.0	-657428.0	3874000.0	2854.0
94.459	-734.0	-202.2	-6569.5	344278.0	1772000.0	-297.0
94.460	-2496.5	-243.0	-8218.2	408498.0	4933000.0	189.0
94.461	561.9	-470.1	960.3	590018.0	1393000.0	1095.0
94.462	-1171.5	-502.9	-672.7	587541.0	4554000.0	1604.0
94.463	-3195.8	87.0	-2767.2	54320.0	2453000.0	-1772.0
94.464	-5051.8	112.4	-4655.7	23912.0	5615000.0	-1294.0
94.529	3844.3	135.7	-555.0	-366791.0	-2673000.0	722.0
94.530	-1789.4	169.0	-5621.7	-620600.0	7865000.0	2438.0
94.531	2344.9	-214.4	-2816.0	238445.0	-2357000.0	-80.0
94.532	-3595.1	-345.4	-8644.6	297774.0	8180000.0	1581.0
94.533	2614.2	210.8	2962.5	-173110.0	-1854000.0	-331.0
94.534	-3467.7	292.3	-3047.3	-341436.0	8684000.0	1331.0
94.535	965.9	122.2	981.4	-50293.0	-1538000.0	-1308.0
94.536	-5238.7	59.5	-5341.8	-3763.0	9000000.0	325.0
94.537	3663.2	-2.0	-996.4	-150280.0	-2674000.0	680.0
94.538	-1955.5	58.2	-6012.9	-447140.0	7864000.0	2395.0
94.539	2496.0	-14.7	-2395.0	-25955.0	-2356000.0	-57.0
94.540	-3359.8	-6.7	-7877.0	-226518.0	8181000.0	1614.0
94.541	2549.9	188.1	2902.8	-154594.0	-1855000.0	-397.0
94.542	-3586.0	139.9	-3245.7	-160615.0	8683000.0	1292.0
94.543	1028.3	130.5	1032.1	-45609.0	-1537000.0	-1251.0
94.544	-5118.1	203.0	-5192.3	-153290.0	9001000.0	365.0

94.545	4381.0	127.6	-721.4	-339457.0	-2604000.0	856.0
94.546	-1253.5	256.3	-5690.3	-744488.0	7934000.0	2569.0
94.547	2766.9	-15.5	-2990.6	-26518.0	-2288000.0	18.0
94.548	-3063.4	-4.6	-8441.8	-213329.0	8249000.0	1696.0
94.549	1922.9	168.2	2865.0	-124627.0	-1923000.0	-448.0
94.550	-4079.9	100.8	-3068.1	-114757.0	8615000.0	1197.0
94.551	519.1	-126.0	1164.8	235903.0	-1607000.0	-1400.0
94.552	-5661.5	-359.0	-5133.3	486858.0	8931000.0	249.0
94.553	4308.6	122.2	-833.3	-329841.0	-2605000.0	812.0
94.554	-1380.2	163.6	-5994.6	-594050.0	7933000.0	2527.0
94.555	2852.5	-10.2	-2852.9	-37591.0	-2287000.0	58.0
94.556	-2937.0	86.8	-8117.5	-355231.0	8251000.0	1732.0
94.557	1790.3	-163.0	2540.4	275883.0	-1924000.0	-482.0
94.558	-4319.6	-321.6	-3606.4	403904.0	8614000.0	1178.0
94.559	616.2	165.7	1344.2	-98670.0	-1606000.0	-1374.0
94.560	-5545.9	88.9	-4937.3	-26310.0	8932000.0	266.0
351.1	186.6	-235.9	-3205.8	214248.0	5455000.0	608.0
351.2	401.3	-234.5	-2290.5	218779.0	4462000.0	405.0
351.3	850.5	-394.4	-2533.6	377203.0	5094000.0	430.0
351.4	1053.6	-395.3	-1643.1	386239.0	4102000.0	226.0
351.5	72.1	-214.0	-6306.6	173737.0	14130000.0	1267.0
351.6	285.6	-212.3	-5392.7	178559.0	13140000.0	1062.0
351.7	-411.3	-108.4	-13996.2	33585.0	1028000.0	835.0
351.8	-208.7	-110.9	-13105.4	42054.0	36117.0	631.0
351.9	-274.4	-141.3	-11353.5	76379.0	2120000.0	775.0
351.10	-67.2	-140.4	-10447.8	79573.0	1128000.0	574.0
351.11	370.8	-306.9	-10697.3	243784.0	1759000.0	595.0
351.12	572.9	-300.1	-9794.4	240516.0	767185.0	391.0
351.13	-381.9	-124.0	-14460.0	51524.0	10790000.0	1440.0
351.14	-180.8	-125.8	-13571.1	59793.0	9802000.0	1234.0
351.15	153.1	-233.3	-4216.9	205668.0	5025000.0	677.0
351.16	220.8	-238.4	-2193.4	222584.0	5885000.0	539.0
351.17	363.7	-238.8	-3318.9	221623.0	4032000.0	474.0
351.18	435.5	-236.3	-1277.3	226189.0	4893000.0	337.0
351.19	131.5	-229.5	-4886.6	196625.0	4738000.0	722.0
351.20	245.7	-235.3	-1507.8	220637.0	6172000.0	494.0
351.21	342.1	-234.6	-3988.2	211959.0	3745000.0	520.0
351.22	460.6	-233.0	-591.2	223525.0	5180000.0	291.0
351.23	811.7	-399.0	-3564.0	380725.0	4664000.0	498.0
351.24	889.1	-389.6	-1502.5	373552.0	5524000.0	362.0
351.25	1018.3	-388.0	-2650.9	370313.0	3671000.0	294.0
351.26	1094.8	-390.3	-608.4	381755.0	4532000.0	158.0
351.27	35.9	-215.7	-7330.4	172444.0	13700000.0	1336.0
351.28	106.4	-216.2	-5293.6	181926.0	14560000.0	1197.0
351.29	249.5	-215.2	-6416.5	178866.0	12710000.0	1131.0
351.30	316.9	-219.5	-4392.3	194945.0	13570000.0	992.0
351.31	-442.9	-105.4	-15006.8	27753.0	598143.0	903.0
351.32	-385.1	-112.5	-12996.4	43979.0	1459000.0	763.0
351.33	-239.9	-104.6	-14110.9	30996.0	-394125.0	699.0
351.34	-182.3	-114.9	-12104.9	52306.0	466356.0	560.0
351.35	-322.3	-135.8	-13029.4	62218.0	1403000.0	892.0
351.36	-219.9	-144.4	-9661.5	84864.0	2837000.0	661.0
351.37	-119.4	-137.9	-12137.2	70895.0	410885.0	688.0
351.38	-11.7	-143.7	-8752.6	89193.0	1845000.0	459.0
351.39	-303.4	-141.1	-12364.3	71977.0	1690000.0	846.0
351.40	-242.0	-143.3	-10338.9	81524.0	2550000.0	707.0
351.41	-97.3	-139.4	-11460.3	74298.0	697713.0	642.0
351.42	-34.1	-142.2	-9431.6	84875.0	1558000.0	505.0
351.43	338.4	-299.1	-11703.4	227936.0	1329000.0	664.0
351.44	407.0	-306.2	-9673.5	246261.0	2190000.0	527.0
351.45	534.9	-300.5	-10821.2	237836.0	336940.0	459.0
351.46	610.8	-299.6	-8767.6	243220.0	1197000.0	322.0

351.47	-411.3	-117.6	-15461.6	39829.0	10360000.0	1509.0
351.48	-352.4	-130.2	-13458.3	63109.0	11220000.0	1370.0
351.49	-210.0	-119.7	-14573.0	48515.0	9372000.0	1304.0
351.50	-148.2	-123.4	-12550.4	57527.0	10230000.0	1164.0
351.51	-245.0	-77.2	-10786.2	206166.0	4559000.0	-115.0
351.52	-58.0	-78.6	-9924.0	208726.0	3566000.0	-326.0
351.53	-595.9	-164.6	-16023.6	482963.0	3961000.0	-609.0
351.54	-402.3	-164.4	-15147.8	479181.0	2969000.0	-810.0
351.55	383.7	-17.1	-10114.4	-7207.0	4198000.0	-292.0
351.56	577.4	-21.6	-9239.2	6061.0	3206000.0	-503.0
351.57	-346.0	-82.6	-13864.9	225731.0	13230000.0	548.0
351.58	-161.8	-84.4	-13006.5	229717.0	12240000.0	334.0
351.59	-792.8	-95.8	-21466.6	313843.0	132303.0	114.0
351.60	-605.6	-97.6	-20603.2	317310.0	-859988.0	-93.0
351.61	-658.1	-97.5	-18823.1	297076.0	1224000.0	58.0
351.62	-476.2	-93.7	-17979.0	293070.0	231848.0	-151.0
351.63	-984.0	-180.5	-24037.8	564775.0	626747.0	-400.0
351.64	-797.1	-183.0	-23169.8	568286.0	-365542.0	-613.0
351.65	-31.5	-46.0	-18157.6	112822.0	863323.1	-126.0
351.66	162.8	-47.6	-17283.3	117880.0	-128966.0	-333.0
351.67	-763.0	-101.4	-21911.5	316017.0	9899000.0	719.0
351.68	-569.2	-99.0	-21048.5	311237.0	8906000.0	512.0
351.69	647.4	-626.2	-3895.4	624652.0	4558000.0	1331.0
351.70	853.6	-614.7	-2979.7	614312.0	3566000.0	1123.0
351.71	956.2	-876.8	-4343.8	881722.0	3961000.0	1800.0
351.72	1162.9	-865.5	-3427.2	871536.1	2969000.0	1590.0
351.73	1277.8	-781.6	-3268.8	787837.0	4198000.0	1150.0
351.74	1485.7	-769.4	-2349.9	775976.0	3205000.0	941.0
351.75	530.5	-598.4	-6985.4	576358.0	13230000.0	1995.0
351.76	730.2	-598.6	-6099.1	585366.0	12240000.0	1785.0
351.77	32.6	-520.2	-14689.0	462074.0	132077.0	1578.0
351.78	229.6	-512.7	-13794.7	459358.0	-860193.0	1367.0
351.79	179.5	-542.5	-12024.7	496194.0	1224000.0	1517.0
351.80	383.0	-534.9	-11120.1	492223.0	231651.0	1308.0
351.81	487.6	-794.6	-12478.5	754449.0	626398.0	1990.0
351.82	686.6	-796.6	-11595.3	766069.0	-365870.0	1782.0
351.83	813.7	-688.9	-11388.8	644190.0	863151.0	1321.0
351.84	1012.6	-693.1	-10510.0	658982.0	-129117.0	1114.0
351.85	60.8	-526.8	-15140.4	467660.0	9898000.0	2180.0
351.86	262.6	-520.1	-14239.3	464893.0	8906000.0	1970.0
351.87	-301.3	-108.6	-6324.0	65139.0	4250000.0	708.0
351.88	-103.1	-105.9	-5429.5	67072.0	3258000.0	501.0
351.89	-455.9	-51.5	-7336.4	5174.0	3856000.0	739.0
351.90	-259.8	-49.0	-6452.9	7055.0	2864000.0	531.0
351.91	329.6	-256.2	-5658.0	206209.0	3889000.0	518.0
351.92	528.6	-261.0	-4778.8	220113.0	2897000.0	315.0
351.93	-409.5	-85.1	-9431.3	32035.0	12920000.0	1372.0
351.94	-214.4	-84.2	-8548.8	35810.0	11930000.0	1164.0
351.95	-333.4	-106.1	-7338.8	59534.0	3820000.0	776.0
351.96	-268.5	-111.2	-5307.0	71409.0	4680000.0	638.0
351.97	-136.5	-103.0	-6447.8	60354.0	2828000.0	570.0
351.98	-69.2	-108.7	-4409.7	74123.0	3688000.0	431.0
351.99	-352.8	-105.5	-8012.6	56045.0	3533000.0	825.0
351.100	-245.9	-113.1	-4627.1	76165.0	4967000.0	592.0
351.101	-156.2	-102.1	-7122.7	56592.0	2541000.0	617.0
351.102	-45.6	-110.8	-3730.2	78622.0	3975000.0	385.0
351.103	-482.6	-48.6	-8339.3	-1773.0	3426000.0	809.0
351.104	-425.7	-56.2	-6329.0	13289.0	4286000.0	669.0
351.105	-289.9	-45.0	-7462.3	-910.0	2433000.0	600.0
351.106	-230.7	-53.1	-5445.8	14490.0	3294000.0	461.0
351.107	291.8	-261.2	-6692.9	210671.0	3459000.0	588.0
351.108	360.1	-265.3	-4660.7	224068.0	4320000.0	450.0

351.109	494.9	-256.5	-5789.5	209696.0	2467000.0	383.0
351.110	561.3	-264.8	-3769.8	229781.0	3327000.0	246.0
351.111	-441.0	-81.9	-10443.1	26352.0	12490000.0	1440.0
351.112	-378.2	-88.1	-8419.8	37643.0	13350000.0	1302.0
351.113	-245.5	-81.3	-9560.5	30483.0	11500000.0	1233.0
351.114	-181.9	-87.1	-7534.1	41518.0	12360000.0	1095.0
351.115	-730.8	-105.0	-13896.2	329092.0	3354000.0	-9.9
351.116	-543.7	-100.4	-13038.9	321132.0	2362000.0	-221.0
351.117	-1043.5	-186.8	-19072.7	587200.0	2757000.0	-481.0
351.118	-863.8	-190.1	-18212.2	591974.0	1764000.0	-703.0
351.119	-885.7	-107.5	-14914.1	357207.0	2960000.0	29.0
351.120	-686.5	-103.0	-14038.4	347341.0	1967000.0	-176.0
351.121	-92.1	-55.9	-13208.3	164892.0	2993000.0	-201.0
351.122	99.9	-55.5	-12338.4	165844.0	2001000.0	-411.0
351.123	-828.6	-108.4	-16976.1	345768.0	12030000.0	656.0
351.124	-638.3	-108.3	-16107.8	345110.0	11040000.0	443.0
351.125	117.2	-510.2	-7055.7	492170.0	3354000.0	1411.0
351.126	317.1	-497.5	-6151.2	481297.0	2362000.0	1199.0
351.127	428.3	-769.8	-7504.6	763374.0	2756000.0	1897.0
351.128	616.4	-770.4	-6638.8	774056.0	1764000.0	1684.0
351.129	-50.9	-468.6	-8084.8	443709.0	2960000.0	1438.0
351.130	160.4	-468.0	-7175.5	450307.0	1967000.0	1226.0
351.131	743.8	-650.2	-6423.5	630983.0	2993000.0	1219.0
351.132	949.0	-672.1	-5559.1	673351.0	2001000.0	1014.0
351.133	4.6	-491.5	-10159.3	455737.0	12030000.0	2081.0
351.134	201.4	-487.7	-9272.2	459199.0	11040000.0	1867.0
351.135	296.0	-277.0	-6045.1	233338.0	4250000.0	663.0
351.136	499.4	-275.9	-5149.7	239785.0	3258000.0	457.0
351.137	336.3	-289.6	-6969.3	237073.0	3855000.0	680.0
351.138	538.2	-289.1	-6076.8	244500.0	2863000.0	475.0
351.139	935.6	-434.0	-5414.1	396798.0	3889000.0	474.0
351.140	1141.0	-437.4	-4521.9	409740.0	2897000.0	270.0
351.141	182.8	-257.0	-9147.5	196478.0	12920000.0	1318.0
351.142	385.0	-255.9	-8254.1	203173.0	11930000.0	1112.0
351.143	263.3	-272.9	-7051.6	222392.0	3820000.0	733.0
351.144	331.8	-274.5	-5023.5	233659.0	4680000.0	593.0
351.145	466.6	-272.1	-6157.3	229292.0	2827000.0	527.0
351.146	534.6	-272.9	-4128.2	239365.0	3688000.0	387.0
351.147	239.6	-274.1	-7732.0	221589.0	3533000.0	780.0
351.148	352.3	-279.1	-4357.2	243932.0	4967000.0	547.0
351.149	442.8	-273.7	-6838.4	228968.0	2541000.0	573.0
351.150	559.1	-271.2	-3445.8	239293.0	3975000.0	341.0
351.151	300.7	-291.5	-7989.8	235878.0	3425000.0	750.0
351.152	369.3	-294.0	-5962.8	248489.0	4286000.0	611.0
351.153	505.4	-284.8	-7083.5	233367.0	2433000.0	544.0
351.154	571.2	-293.2	-5070.5	255409.0	3293000.0	404.0
351.155	898.5	-437.8	-6440.9	398663.0	3459000.0	543.0
351.156	963.8	-441.7	-4419.7	413975.0	4319000.0	404.0
351.157	1109.0	-429.4	-5522.5	392379.0	2467000.0	339.0
351.158	1170.8	-445.5	-3525.5	427508.0	3327000.0	200.0
351.159	147.3	-258.4	-10167.4	194528.0	12490000.0	1388.0
351.160	215.5	-255.0	-8125.5	198734.0	13350000.0	1254.0
351.161	348.8	-257.6	-9275.9	201772.0	11500000.0	1180.0
351.162	420.5	-254.0	-7233.4	204376.0	12360000.0	1042.0
351.163	-100.3	-49.9	-13557.6	114209.0	3354000.0	-69.0
351.164	99.3	-53.2	-12676.2	121744.0	2362000.0	-276.0
351.165	-425.6	-157.8	-18758.5	441797.0	2757000.0	-559.0
351.166	-234.5	-158.1	-17888.4	441709.0	1764000.0	-766.0
351.167	-73.7	-35.1	-14497.9	71328.0	2959000.0	-54.0
351.168	131.0	-38.2	-13608.4	78532.0	1967000.0	-260.0
351.169	524.9	16.6	-12871.6	-137449.0	2993000.0	-243.0
351.170	720.0	14.5	-12000.0	-127303.0	2001000.0	-451.0

351.171	-205.0	-59.9	-16637.9	142271.0	12030000.0	591.0
351.172	-9.1	-63.9	-15760.7	151939.0	11040000.0	381.0
351.173	788.9	-671.6	-6694.4	647599.0	3354000.0	1389.0
351.174	989.8	-674.9	-5809.1	661237.0	2361000.0	1181.0
351.175	1099.2	-934.1	-7158.1	923192.0	2756000.0	1860.0
351.176	1302.9	-923.3	-6247.6	914157.0	1764000.0	1651.0
351.177	839.4	-681.8	-7597.0	647422.0	2959000.0	1407.0
351.178	1040.1	-684.6	-6711.3	660315.0	1967000.0	1200.0
351.179	1420.7	-819.3	-6055.2	797951.0	2993000.0	1210.0
351.180	1615.6	-826.6	-5186.6	818405.0	2001000.0	1001.0
351.181	670.2	-643.4	-9791.0	598500.0	12030000.0	2051.0
351.182	871.0	-645.2	-8903.7	609423.0	11040000.0	1844.0
351.183	473.6	-341.5	-2740.0	323599.0	5455000.0	496.0
351.184	690.6	-334.1	-1812.8	317601.0	4462000.0	297.0
351.185	1121.3	-495.8	-2094.0	479574.0	5094000.0	317.0
351.186	1340.2	-487.9	-1163.8	472352.0	4102000.0	116.0
351.187	683.7	-396.6	-2371.3	369852.0	5455000.0	430.0
351.188	901.8	-390.0	-1443.8	365213.0	4462000.0	225.0
351.189	360.4	-315.5	-5833.9	277786.0	14130000.0	1150.0
351.190	577.1	-300.7	-4895.3	260441.0	13140000.0	948.0
351.191	-148.1	-185.2	-13520.7	93557.0	1028000.0	701.0
351.192	58.6	-189.8	-12623.2	105647.0	35952.0	501.0
351.193	4.1	-223.0	-10851.9	146192.0	2120000.0	647.0
351.194	210.5	-227.4	-9954.1	159018.0	1128000.0	446.0
351.195	635.7	-401.0	-10245.5	337571.0	1759000.0	471.0
351.196	851.1	-386.8	-9307.3	320545.0	767026.0	269.0
351.197	199.5	-286.9	-10519.4	206005.0	2120000.0	566.0
351.198	409.2	-285.4	-9608.6	209222.0	1128000.0	364.0
351.199	-108.8	-195.2	-13962.3	100356.0	10790000.0	1302.0
351.200	94.2	-193.9	-13061.0	104832.0	9802000.0	1097.0
351.201	-2.1	-193.5	-5786.5	140958.0	4250000.0	573.0
351.202	217.7	-197.6	-4869.0	151217.0	3258000.0	375.0
351.203	-144.4	-145.8	-6778.4	85637.0	3856000.0	607.0
351.204	64.2	-150.0	-5876.6	96289.0	2864000.0	403.0
351.205	662.0	-359.2	-5110.1	309632.0	3889000.0	398.0
351.206	875.0	-364.3	-4207.9	322576.0	2897000.0	198.0
351.207	197.9	-265.5	-5457.9	211688.0	4250000.0	508.0
351.208	408.5	-269.2	-4553.1	223272.0	3258000.0	310.0
351.209	-119.1	-167.4	-8905.5	99074.0	12920000.0	1229.0
351.210	97.0	-170.6	-7988.4	109539.0	11930000.0	1029.0
351.211	574.5	-369.3	-5577.6	323448.0	4250000.0	528.0
351.212	775.6	-371.7	-4691.6	334907.0	3258000.0	323.0
351.213	619.7	-371.0	-6472.6	310133.0	3855000.0	548.0
351.214	811.7	-392.4	-5629.9	352659.0	2863000.0	343.0
351.215	1202.5	-541.7	-4987.0	511600.0	3889000.0	345.0
351.216	1411.1	-532.6	-4071.2	504031.0	2897000.0	141.0
351.217	763.4	-441.2	-5272.7	398439.0	4250000.0	451.0
351.218	967.4	-448.3	-4386.8	416704.0	3257000.0	255.0
351.219	461.2	-343.3	-8671.3	277538.0	12920000.0	1182.0
351.220	667.6	-337.5	-7764.8	275456.0	11930000.0	977.0
351.221	157.2	-230.3	-3245.9	208142.0	5455000.0	703.0
351.222	365.2	-227.2	-2340.4	210840.0	4462000.0	499.0
351.223	805.7	-384.8	-2595.5	366797.0	5094000.0	521.0
351.224	1003.4	-383.7	-1712.2	373700.0	4102000.0	317.0
351.225	132.9	-226.2	-3280.5	203582.0	5454000.0	770.0
351.226	333.1	-220.0	-2385.5	202992.0	4462000.0	562.0
351.227	40.8	-207.9	-6348.7	167196.0	14130000.0	1362.0
351.228	246.0	-204.2	-5447.5	169949.0	13140000.0	1155.0
351.229	-444.8	-101.6	-14041.0	26358.0	1028000.0	930.0
351.230	-245.1	-101.2	-13152.8	32209.0	35915.0	724.0
351.231	-306.8	-135.2	-11397.2	69829.0	2120000.0	874.0
351.232	-106.0	-131.4	-10500.2	70196.0	1128000.0	667.0

351.233	323.5	-288.4	-10751.8	219981.0	1759000.0	690.0
351.234	524.7	-288.7	-9861.4	228373.0	766984.0	485.0
351.235	-329.1	-125.4	-11420.1	57667.0	2120000.0	936.0
351.236	-129.2	-124.0	-10529.6	62522.0	1128000.0	730.0
351.237	-414.2	-109.5	-14489.3	32373.0	10790000.0	1536.0
351.238	-216.8	-107.7	-13604.3	36712.0	9802000.0	1328.0
351.239	-335.1	-98.8	-6367.0	55191.0	4250000.0	797.0
351.240	-139.8	-94.0	-5475.1	54025.0	3258000.0	589.0
351.241	-490.2	-40.4	-7380.0	-5774.0	3856000.0	827.0
351.242	-297.9	-36.8	-6503.6	-5183.0	2863000.0	619.0
351.243	293.7	-246.0	-5704.7	195611.0	3889000.0	608.0
351.244	490.1	-250.2	-4829.5	208811.0	2897000.0	404.0
351.245	-360.1	-89.7	-6396.2	44834.0	4250000.0	858.0
351.246	-165.4	-86.0	-5506.8	45438.0	3258000.0	650.0
351.247	-439.7	-73.3	-9464.8	19026.0	12920000.0	1459.0
351.248	-250.0	-68.7	-8587.6	17360.0	11930000.0	1254.0
351.249	259.6	-271.5	-6101.8	226553.0	4250000.0	762.0
351.250	463.2	-270.6	-5205.9	233209.0	3258000.0	556.0
351.251	295.8	-290.4	-7042.4	240835.0	3855000.0	778.0
351.252	501.9	-283.2	-6132.9	237312.0	2863000.0	573.0
351.253	901.0	-428.2	-5462.9	390394.0	3889000.0	572.0
351.254	1108.5	-431.5	-4566.9	403292.0	2897000.0	369.0
351.255	235.8	-267.8	-6138.4	221934.0	4250000.0	829.0
351.256	437.3	-266.8	-5245.7	228597.0	3257000.0	624.0
351.257	140.4	-256.9	-9213.7	200047.0	12920000.0	1423.0
351.258	345.5	-250.1	-8307.1	197222.0	11930000.0	1217.0
351.401	-3018.8	-164.6	-8224.0	984868.0	2271000.0	-5147.0
351.402	-4715.1	-201.0	-10364.5	1073000.0	5589000.0	-4979.0
351.403	-3796.1	-373.5	-9307.4	1413000.0	2971000.0	-3558.0
351.404	-5500.9	-390.4	-11492.4	1471000.0	6289000.0	-3391.0
351.405	4495.9	-1323.9	6638.6	1211000.0	-619262.0	4172.0
351.406	2721.7	-1399.2	4186.6	1313000.0	2699000.0	4353.0
351.407	4044.7	-1284.6	5727.2	1210000.0	80294.0	5518.0
351.408	2292.9	-1369.2	3304.8	1322000.0	3398000.0	5718.0
351.409	-2835.5	-166.0	-8068.8	962940.1	2301000.0	-5200.0
351.410	-4542.7	-184.0	-10261.2	1022000.0	5619000.0	-5029.0
351.411	-3979.1	-359.5	-9473.9	1417000.0	2941000.0	-3525.0
351.412	-5676.1	-393.5	-11621.4	1501000.0	6259000.0	-3356.0
351.413	4750.2	-1390.5	6863.0	1275000.0	-589211.0	4135.0
351.414	2974.5	-1468.9	4404.4	1382000.0	2729000.0	4321.0
351.415	3806.5	-1207.5	5543.4	1134000.0	50181.0	5542.0
351.416	2056.2	-1279.5	3144.8	1223000.0	3368000.0	5746.0
351.417	-2331.9	-110.3	-6345.3	847746.0	2560000.0	-5020.0
351.418	-4033.3	-127.0	-8523.2	909595.0	5878000.0	-4856.0
351.419	-3208.4	-302.7	-7639.1	1226000.0	3260000.0	-3450.0
351.420	-4885.7	-310.5	-9791.8	1273000.0	6577000.0	-3283.0
351.421	3813.4	-1179.8	4791.3	1055000.0	-906938.0	4038.0
351.422	2030.7	-1224.5	2363.4	1114000.0	2411000.0	4200.0
351.423	3493.9	-1121.2	4139.8	1017000.0	-207255.0	5421.0
351.424	1753.3	-1179.4	1769.4	1094000.0	3111000.0	5611.0
351.425	-2153.0	-115.7	-6187.4	841966.0	2590000.0	-5090.0
351.426	-3863.1	-132.4	-8380.0	903958.0	5908000.0	-4924.0
351.427	-3386.6	-299.2	-7791.7	1236000.0	3229000.0	-3409.0
351.428	-5070.3	-316.3	-9943.4	1296000.0	6547000.0	-3237.0
351.429	4079.4	-1254.9	5018.7	1139000.0	-876988.0	3997.0
351.430	2311.3	-1298.2	2619.3	1196000.0	2441000.0	4161.0
351.431	3231.9	-1057.5	3904.3	951663.0	-237233.0	5462.0
351.432	1469.5	-1116.6	1496.1	1031000.0	3081000.0	5652.0
351.433	110.8	391.1	-2605.2	-462727.0	443527.0	-3584.0
351.434	-1667.9	379.9	-4913.9	-420425.0	3761000.0	-3433.0
351.435	-2325.6	-342.6	-6068.3	916013.0	2776000.0	1504.0
351.436	-3977.3	-365.0	-8151.0	982119.1	6094000.0	1679.0

351.437	2253.9	-445.5	2264.6	288952.0	-423256.0	-617.0
351.438	438.3	-491.9	-229.2	354714.0	2894000.0	-478.0
351.439	705.6	-280.8	-658.8	278026.0	1908000.0	4149.0
351.440	-988.0	-355.5	-2956.0	371314.0	5226000.0	4359.0
351.441	334.3	418.3	-2024.9	-503652.0	530345.0	-3532.0
351.442	-1448.7	405.6	-4348.3	-461202.0	3848000.0	-3378.0
351.443	-2171.0	-323.2	-5608.4	854130.0	2862000.0	1551.0
351.444	-3779.0	-343.8	-7623.0	913573.1	6180000.0	1716.0
351.445	2021.8	-412.0	1664.9	242259.0	-510083.0	-680.0
351.446	190.4	-449.1	-839.5	295821.0	2808000.0	-542.0
351.447	313.3	-205.0	-1495.1	197240.0	1822000.0	4102.0
351.448	-1326.3	-289.2	-3705.8	305354.0	5140000.0	4318.0
351.449	547.5	301.1	-2154.6	-401920.0	543254.0	-3751.0
351.450	-1241.1	298.7	-4507.4	-376078.0	3861000.0	-3601.0
351.451	-3007.1	-348.3	-6678.9	986076.9	2675000.0	1632.0
351.452	-4667.4	-365.4	-8784.0	1044000.0	5993000.0	1808.0
351.453	3036.9	-612.2	2989.6	451491.0	-323422.0	-757.0
351.454	1258.4	-678.2	533.2	547536.0	2994000.0	-611.0
351.455	-295.7	-72.1	-1633.7	74296.0	1808000.0	4230.0
351.456	-2033.7	-76.4	-3938.3	85917.0	5126000.0	4424.0
351.457	770.4	324.4	-1572.1	-429684.0	630070.0	-3703.0
351.458	-1009.4	321.3	-3919.4	-403975.0	3948000.0	-3551.0
351.459	-2851.0	-330.8	-6212.6	927817.0	2762000.0	1677.0
351.460	-4481.5	-348.9	-8266.9	985650.0	6080000.0	1853.0
351.461	2541.4	-541.2	1978.6	362149.0	-410288.0	-824.0
351.462	701.5	-580.5	-544.9	416812.0	2907000.0	-683.0
351.463	-929.7	-76.8	-2937.7	106928.0	1722000.0	4195.0
351.464	-2593.8	-104.0	-5038.9	178863.0	5040000.0	4383.0
351.529	1584.3	85.8	-566.9	-2894.0	-2611000.0	-1953.0
351.530	-4215.4	-6.7	-7973.3	265009.0	8448000.0	-1414.0
351.531	754.3	-143.3	-1738.4	457399.0	-1911000.0	-430.0
351.532	-4796.1	-191.1	-8804.7	624022.0	9148000.0	172.0
351.533	3826.3	-331.2	4223.8	237933.0	-3478000.0	873.0
351.534	-2054.7	-530.5	-3830.3	497082.0	7581000.0	1430.0
351.535	3354.1	-288.8	3306.2	243311.0	-2779000.0	2231.0
351.536	-2446.9	-506.7	-4604.7	508907.0	8281000.0	2943.0
351.537	1731.8	66.5	-440.3	9373.0	-2581000.0	-2001.0
351.538	-4116.5	-20.1	-7940.5	271318.0	8478000.0	-1471.0
351.539	540.8	-140.6	-1942.2	472750.0	-1941000.0	-388.0
351.540	-4989.5	-193.7	-8954.7	656804.0	9118000.0	206.0
351.541	4090.0	-401.1	4470.2	306603.0	-3448000.0	850.0
351.542	-1808.4	-593.4	-3615.6	564105.0	7611000.0	1398.0
351.543	3109.6	-223.0	3098.4	182020.0	-2809000.0	2258.0
351.544	-2679.9	-433.8	-4780.5	434438.0	8251000.0	2956.0
351.545	1800.5	145.5	-37.0	-95603.0	-2524000.0	-1924.0
351.546	-3997.3	10.6	-7384.9	231390.0	8535000.0	-1371.0
351.547	894.0	-127.6	-1295.6	403449.0	-1825000.0	-385.0
351.548	-4610.6	-177.6	-8270.1	584841.0	9235000.0	204.0
351.549	3571.6	-300.8	3572.1	200987.0	-3564000.0	847.0
351.550	-2491.2	-449.8	-4737.3	403794.0	7495000.0	1367.0
351.551	3199.5	-259.2	2827.0	206462.0	-2865000.0	2221.0
351.552	-2615.6	-440.5	-5070.7	435897.0	8195000.0	2895.0
351.553	1949.4	124.7	96.4	-78927.0	-2494000.0	-1970.0
351.554	-3908.0	5.3	-7375.0	226658.0	8565000.0	-1426.0
351.555	687.2	-124.2	-1489.1	417041.0	-1855000.0	-344.0
351.556	-4808.6	-172.8	-8447.3	596035.0	9205000.0	245.0
351.557	3755.4	-340.6	3712.3	235707.0	-3534000.0	798.0
351.558	-2325.4	-490.3	-4633.1	440576.0	7525000.0	1328.0
351.559	2842.6	-187.3	2433.9	138780.0	-2895000.0	2246.0
351.560	-2865.0	-384.9	-5294.9	382883.0	8165000.0	2927.0
352.1	1487.7	22.9	-427.7	-63008.0	6020000.0	-232.0
352.2	1363.7	24.1	-403.7	-66169.0	4710000.0	-40.0

352.3	1821.3	37.6	-638.4	-103460.0	5102000.0	71.0
352.4	1696.8	39.6	-624.4	-108991.0	3794000.0	262.0
352.5	3577.1	45.5	-585.2	-125063.0	15250000.0	-669.0
352.6	3454.5	46.5	-557.6	-127743.0	13930000.0	-474.0
352.7	1696.4	23.3	-584.5	-64197.0	5446000.0	-1185.0
352.8	1573.1	21.9	-563.3	-60359.0	4134000.0	-993.0
352.9	1645.5	23.7	-543.7	-65076.0	5585000.0	-944.0
352.10	1522.2	22.5	-520.5	-61937.0	4274000.0	-752.0
352.11	1980.5	31.4	-741.3	-86332.0	4664000.0	-641.0
352.12	1856.6	30.1	-716.4	-82752.0	3354000.0	-454.0
352.13	3731.6	49.6	-703.3	-136476.0	14820000.0	-1385.0
352.14	3608.9	48.9	-678.0	-134524.0	13510000.0	-1189.0
352.15	1512.6	22.0	-446.2	-60559.0	5951000.0	-348.0
352.16	1462.7	24.0	-409.8	-65942.0	6088000.0	-117.0
352.17	1388.5	22.6	-422.9	-62216.0	4641000.0	-155.0
352.18	1338.9	25.5	-386.9	-70086.0	4778000.0	75.0
352.19	1529.2	21.7	-457.5	-59698.0	5905000.0	-424.0
352.20	1446.3	24.5	-395.1	-67306.0	6133000.0	-40.0
352.21	1405.0	22.2	-434.3	-61132.0	4596000.0	-232.0
352.22	1322.3	27.1	-375.6	-74452.0	4824000.0	152.0
352.23	1846.4	35.2	-653.4	-96776.0	5033000.0	-44.0
352.24	1796.6	38.4	-616.9	-105467.0	5170000.0	187.0
352.25	1721.4	39.4	-641.7	-108278.0	3726000.0	146.0
352.26	1671.4	42.9	-612.6	-117984.0	3864000.0	377.0
352.27	3601.5	44.8	-606.6	-123140.0	15180000.0	-784.0
352.28	3552.7	46.7	-565.3	-128402.0	15310000.0	-553.0
352.29	3479.0	45.7	-578.7	-125541.0	13870000.0	-589.0
352.30	3430.1	47.4	-539.6	-130367.0	14000000.0	-358.0
352.31	1721.1	22.9	-602.2	-62934.0	5378000.0	-1300.0
352.32	1672.2	24.0	-565.1	-66131.0	5512000.0	-1063.0
352.33	1597.9	21.5	-579.9	-59166.0	4066000.0	-1108.0
352.34	1548.9	22.6	-543.9	-62220.0	4200000.0	-871.0
352.35	1686.3	22.8	-574.9	-62645.0	5473000.0	-1142.0
352.36	1604.2	24.8	-513.0	-68136.0	5699000.0	-752.0
352.37	1563.1	21.2	-552.7	-58427.0	4161000.0	-949.0
352.38	1480.9	23.4	-488.7	-64268.0	4387000.0	-560.0
352.39	1669.8	23.2	-564.4	-63695.0	5519000.0	-1065.0
352.40	1620.7	24.4	-525.8	-67086.0	5654000.0	-829.0
352.41	1546.6	21.6	-540.4	-59324.0	4207000.0	-872.0
352.42	1497.4	23.0	-501.5	-63291.0	4342000.0	-637.0
352.43	2005.4	30.7	-757.4	-84337.0	4596000.0	-756.0
352.44	1955.5	32.2	-722.1	-88463.0	4733000.0	-525.0
352.45	1881.5	29.4	-735.7	-80753.0	3286000.0	-570.0
352.46	1831.6	30.8	-696.8	-84663.0	3423000.0	-339.0
352.47	3756.1	48.9	-720.4	-134612.0	14760000.0	-1500.0
352.48	3707.0	50.3	-686.3	-138310.0	14890000.0	-1269.0
352.49	3633.5	48.4	-695.2	-132983.0	13440000.0	-1305.0
352.50	3584.2	49.8	-658.1	-136880.0	13580000.0	-1073.0
352.51	1596.4	38.6	-260.3	-106020.0	5720000.0	-51.0
352.52	1473.3	35.7	-235.0	-98261.0	4408000.0	150.0
352.53	1670.0	43.2	-199.1	-118809.0	5518000.0	87.0
352.54	1546.3	40.0	-174.1	-109908.0	4208000.0	282.0
352.55	1932.1	46.1	-423.0	-126639.0	4797000.0	258.0
352.56	1808.1	45.1	-402.2	-124054.0	3488000.0	459.0
352.57	3681.9	68.1	-418.1	-187207.0	14960000.0	-491.0
352.58	3559.7	65.6	-392.8	-180409.0	13640000.0	-285.0
352.59	1801.0	36.5	-438.3	-100288.0	5158000.0	-1050.0
352.60	1678.3	32.4	-408.4	-89218.0	3845000.0	-849.0
352.61	1750.2	36.8	-392.6	-101324.0	5298000.0	-806.0
352.62	1627.5	34.8	-370.1	-95756.0	3984000.0	-601.0
352.63	1820.5	41.5	-338.4	-114082.0	5104000.0	-682.0
352.64	1698.4	37.2	-306.7	-102169.0	3789000.0	-476.0

352.65	2084.9	51.5	-575.4	-141600.0	4377000.0	-489.0
352.66	1960.7	50.0	-555.1	-137636.0	3068000.0	-291.0
352.67	3834.5	68.0	-550.7	-186897.0	14540000.0	-1240.0
352.68	3710.6	67.1	-541.7	-184623.0	13230000.0	-1044.0
352.69	1532.5	-56.4	-901.1	155048.0	5896000.0	-362.0
352.70	1409.3	-50.9	-861.8	139967.0	4584000.0	-164.0
352.71	1563.4	-88.2	-1209.9	242549.0	5811000.0	-429.0
352.72	1440.5	-82.9	-1170.3	227848.0	4499000.0	-229.0
352.73	1869.6	-40.3	-1057.4	110891.0	4969000.0	-64.0
352.74	1746.8	-33.1	-1019.7	91117.0	3656000.0	135.0
352.75	3623.1	-53.8	-1031.1	148018.0	15120000.0	-804.0
352.76	3500.8	-47.7	-1000.0	131150.0	13810000.0	-603.0
352.77	1745.6	-40.5	-974.4	111489.0	5310000.0	-1339.0
352.78	1623.2	-35.9	-939.9	98604.0	3996000.0	-1135.0
352.79	1692.6	-50.1	-962.6	137858.0	5456000.0	-1097.0
352.80	1570.0	-43.1	-924.7	118463.0	4142000.0	-899.0
352.81	1720.1	-100.9	-1312.7	277564.0	5380000.0	-1170.0
352.82	1597.5	-95.2	-1278.8	261731.0	4067000.0	-971.0
352.83	2031.7	-1.1	-1113.2	3050.0	4523000.0	-787.0
352.84	1908.4	6.0	-1082.2	-16365.0	3212000.0	-590.0
352.85	3783.2	-33.7	-1087.3	92790.0	14680000.0	-1539.0
352.86	3660.5	-25.6	-1053.3	70337.0	13370000.0	-1339.0
352.87	1549.5	28.2	-507.8	-77674.0	5850000.0	-1060.0
352.88	1426.9	26.8	-482.5	-73571.0	4536000.0	-863.0
352.89	1568.0	29.6	-533.6	-81430.0	5799000.0	-1333.0
352.90	1445.6	28.0	-509.2	-76874.0	4484000.0	-1135.0
352.91	1887.5	36.4	-695.5	-99988.0	4920000.0	-744.0
352.92	1761.9	41.1	-697.2	-113005.0	3615000.0	-551.0
352.93	3634.2	55.9	-661.8	-153669.0	15090000.0	-1503.0
352.94	3511.8	54.4	-638.4	-149500.0	13780000.0	-1305.0
352.95	1574.0	27.8	-526.6	-76410.0	5782000.0	-1176.0
352.96	1524.9	28.8	-489.1	-79214.0	5917000.0	-944.0
352.97	1451.4	26.3	-501.8	-72300.0	4468000.0	-979.0
352.98	1402.4	27.2	-462.8	-74868.0	4603000.0	-747.0
352.99	1590.5	27.2	-539.9	-74758.0	5737000.0	-1257.0
352.100	1508.5	29.1	-476.0	-80101.0	5962000.0	-867.0
352.101	1467.8	25.8	-515.4	-70900.0	4423000.0	-1059.0
352.102	1384.8	31.5	-464.8	-86581.0	4652000.0	-670.0
352.103	1592.5	29.0	-552.8	-79680.0	5731000.0	-1453.0
352.104	1543.6	30.0	-516.0	-82563.0	5866000.0	-1217.0
352.105	1470.3	27.3	-528.1	-75176.0	4417000.0	-1253.0
352.106	1421.4	28.3	-491.0	-77937.0	4551000.0	-1018.0
352.107	1911.7	38.3	-726.8	-105343.0	4854000.0	-860.0
352.108	1861.1	42.3	-699.6	-116355.0	4993000.0	-629.0
352.109	1787.7	37.4	-703.3	-102804.0	3544000.0	-666.0
352.110	1736.0	45.3	-692.7	-124534.0	3686000.0	-435.0
352.111	3658.8	55.4	-679.8	-152484.0	15020000.0	-1619.0
352.112	3609.7	56.4	-643.9	-155022.0	15160000.0	-1386.0
352.113	3536.2	53.9	-656.8	-148282.0	13710000.0	-1421.0
352.114	3487.3	54.8	-619.5	-150570.0	13840000.0	-1189.0
352.115	1656.5	38.0	-354.8	-104554.0	5555000.0	-890.0
352.116	1534.5	35.3	-331.1	-96987.0	4240000.0	-686.0
352.117	1729.1	40.4	-296.2	-111109.0	5356000.0	-776.0
352.118	1607.4	38.7	-272.4	-106364.0	4039000.0	-567.0
352.119	1675.3	37.4	-386.2	-102847.0	5504000.0	-1169.0
352.120	1553.0	34.3	-364.6	-94354.0	4189000.0	-972.0
352.121	1994.1	52.3	-529.5	-143884.0	4627000.0	-570.0
352.122	1871.5	47.3	-495.9	-130126.0	3313000.0	-368.0
352.123	3739.3	69.0	-519.6	-189871.0	14800000.0	-1334.0
352.124	3617.2	66.6	-496.1	-183120.0	13490000.0	-1129.0
352.125	1605.7	3.5	-852.7	-9687.0	5695000.0	-1186.0
352.126	1482.9	6.9	-820.3	-18853.0	4382000.0	-986.0

352.127	1634.9	-69.2	-1177.5	190207.0	5615000.0	-1263.0
352.128	1512.5	-64.1	-1143.8	176167.0	4301000.0	-1060.0
352.129	1624.5	16.8	-871.3	-46329.0	5643000.0	-1464.0
352.130	1501.9	18.6	-843.7	-51140.0	4330000.0	-1260.0
352.131	1942.4	23.8	-1038.6	-65527.0	4769000.0	-877.0
352.132	1818.1	24.6	-1021.7	-67564.0	3460000.0	-676.0
352.133	3691.8	26.5	-1004.8	-72880.0	14930000.0	-1635.0
352.134	3568.8	28.9	-979.0	-79411.0	13620000.0	-1437.0
352.135	1529.6	-16.5	-494.1	45465.0	5904000.0	14.0
352.136	1406.4	-10.9	-456.1	30091.0	4592000.0	208.0
352.137	1541.9	-27.4	-534.9	75480.0	5870000.0	98.0
352.138	1418.6	-22.7	-497.4	62288.0	4559000.0	291.0
352.139	1866.7	21.6	-655.3	-59501.0	4977000.0	325.0
352.140	1742.9	22.8	-627.3	-62755.0	3667000.0	518.0
352.141	3620.5	13.0	-639.3	-35741.0	15130000.0	-415.0
352.142	3497.7	18.3	-603.0	-50290.0	13810000.0	-220.0
352.143	1554.9	-18.2	-507.1	50128.0	5835000.0	-101.0
352.144	1504.3	-15.7	-478.0	43154.0	5974000.0	130.0
352.145	1431.7	-11.3	-470.3	31207.0	4523000.0	93.0
352.146	1381.2	-10.2	-439.3	27936.0	4662000.0	324.0
352.147	1571.7	-18.8	-517.9	51645.0	5789000.0	-178.0
352.148	1487.5	-14.7	-469.9	40560.0	6020000.0	208.0
352.149	1448.5	-11.5	-481.7	31748.0	4476000.0	16.0
352.150	1364.3	-9.4	-428.7	25786.0	4708000.0	401.0
352.151	1567.1	-28.8	-551.1	79288.0	5801000.0	-18.0
352.152	1516.5	-25.7	-522.2	70653.0	5940000.0	214.0
352.153	1444.0	-24.2	-510.3	66535.0	4489000.0	175.0
352.154	1393.4	-19.8	-485.0	54376.0	4628000.0	407.0
352.155	1891.8	21.3	-675.6	-58543.0	4908000.0	210.0
352.156	1841.9	22.3	-638.4	-61214.0	5046000.0	441.0
352.157	1767.7	22.2	-644.0	-61041.0	3599000.0	403.0
352.158	1718.1	23.5	-610.5	-64515.0	3735000.0	634.0
352.159	3645.6	12.6	-656.1	-34782.0	15060000.0	-530.0
352.160	3596.2	-1.3	-606.3	3601.0	15190000.0	-302.0
352.161	3522.9	18.1	-619.8	-49808.0	13750000.0	-334.0
352.162	3472.6	18.7	-585.9	-51379.0	13880000.0	-105.0
352.163	1642.2	38.3	-275.1	-105310.0	5595000.0	211.0
352.164	1518.5	36.6	-255.7	-100616.0	4284000.0	404.0
352.165	1713.4	45.4	-221.7	-124755.0	5399000.0	325.0
352.166	1590.0	42.3	-196.4	-116418.0	4087000.0	520.0
352.167	1657.0	37.2	-280.6	-102418.0	5554000.0	296.0
352.168	1533.8	36.0	-258.6	-99128.0	4242000.0	492.0
352.169	1978.0	45.7	-453.2	-125791.0	4671000.0	510.0
352.170	1853.7	43.9	-430.8	-120673.0	3362000.0	701.0
352.171	3729.4	63.5	-426.2	-174554.0	14830000.0	-226.0
352.172	3605.5	63.4	-405.3	-174393.0	13520000.0	-30.0
352.173	1573.3	-73.0	-992.3	200823.0	5784000.0	-125.0
352.174	1450.1	-67.4	-955.5	185315.0	4472000.0	73.0
352.175	1604.5	-98.7	-1301.8	271390.0	5698000.0	-191.0
352.176	1481.2	-93.3	-1261.7	256699.0	4387000.0	6.2
352.177	1587.1	-76.7	-1017.8	210948.0	5746000.0	-47.0
352.178	1464.1	-70.9	-980.1	194962.0	4434000.0	150.0
352.179	1907.6	-64.9	-1164.5	178370.0	4865000.0	172.0
352.180	1784.5	-58.8	-1128.7	161584.0	3552000.0	370.0
352.181	3662.2	-78.6	-1151.0	216022.0	15010000.0	-565.0
352.182	3539.2	-73.4	-1116.0	201900.0	13700000.0	-367.0
352.183	1432.5	85.6	1946.4	-235465.0	6171000.0	456.0
352.184	1307.4	89.3	1962.3	-245671.0	4864000.0	645.0
352.185	1762.7	107.2	1707.3	-294931.0	5263000.0	759.0
352.186	1637.1	112.0	1714.3	-308106.0	3958000.0	948.0
352.187	1397.1	124.3	3550.3	-341859.0	6269000.0	908.0
352.188	1272.4	127.9	3566.1	-351685.0	4961000.0	1100.0

352.189	3523.3	110.5	1782.8	-303967.0	15400000.0	28.0
352.190	3399.5	112.5	1812.7	-309504.0	14080000.0	218.0
352.191	1640.3	82.1	1830.2	-225675.0	5600000.0	-462.0
352.192	1515.8	82.0	1848.6	-225487.0	4292000.0	-272.0
352.193	1589.5	82.0	1865.5	-225618.0	5739000.0	-233.0
352.194	1465.3	80.9	1890.3	-222397.0	4430000.0	-42.0
352.195	1922.0	94.0	1651.3	-258473.0	4825000.0	68.0
352.196	1797.4	92.5	1681.0	-254312.0	3517000.0	258.0
352.197	1552.6	122.5	3449.8	-336858.0	5841000.0	229.0
352.198	1428.1	122.6	3473.1	-337050.0	4533000.0	420.0
352.199	3678.0	111.8	1685.3	-307566.0	14970000.0	-663.0
352.200	3554.8	111.1	1717.8	-305629.0	13660000.0	-470.0
352.201	1497.9	89.5	1891.6	-246258.0	5992000.0	-359.0
352.202	1370.3	98.4	1873.9	-270665.0	4692000.0	-169.0
352.203	1519.8	86.1	1881.3	-236680.0	5931000.0	-627.0
352.204	1393.9	90.3	1881.2	-248400.0	4627000.0	-430.0
352.205	1827.0	111.3	1639.2	-306201.0	5087000.0	-57.0
352.206	1700.5	116.4	1634.6	-320152.0	3784000.0	136.0
352.207	1458.9	140.3	3442.6	-385807.0	6099000.0	94.0
352.208	1333.4	139.5	3461.8	-383703.0	4793000.0	281.0
352.209	3588.7	115.9	1739.4	-318653.0	15220000.0	-788.0
352.210	3463.9	117.4	1752.7	-322892.0	13910000.0	-597.0
352.211	1475.7	63.7	1899.1	-175220.0	6053000.0	725.0
352.212	1352.5	69.1	1937.0	-189956.0	4740000.0	917.0
352.213	1487.6	42.5	1866.5	-116757.0	6020000.0	805.0
352.214	1365.1	49.6	1902.7	-136533.0	4706000.0	999.0
352.215	1811.4	82.4	1722.6	-226718.0	5129000.0	1030.0
352.216	1687.3	83.6	1756.0	-229979.0	3820000.0	1221.0
352.217	1440.2	108.5	3500.0	-298239.0	6150000.0	1183.0
352.218	1316.6	108.7	3533.9	-299044.0	4839000.0	1372.0
352.219	3566.3	89.6	1739.3	-246294.0	15280000.0	297.0
352.220	3442.5	94.0	1770.2	-258448.0	13970000.0	489.0
352.221	1485.6	17.3	-412.3	-47697.0	6025000.0	-464.0
352.222	1361.6	19.1	-385.3	-52644.0	4715000.0	-273.0
352.223	1819.6	32.1	-613.3	-88319.0	5107000.0	-165.0
352.224	1695.5	34.2	-595.0	-93973.0	3797000.0	21.0
352.225	1483.1	7.3	-412.1	-20135.0	6032000.0	-623.0
352.226	1359.8	15.0	-376.0	-41129.0	4721000.0	-436.0
352.227	3575.2	38.9	-562.6	-107040.0	15250000.0	-900.0
352.228	3452.4	40.1	-536.5	-110322.0	13940000.0	-708.0
352.229	1693.7	22.1	-565.8	-60668.0	5453000.0	-1421.0
352.230	1570.5	21.0	-541.0	-57690.0	4141000.0	-1236.0
352.231	1642.9	21.3	-526.4	-58651.0	5593000.0	-1180.0
352.232	1519.5	20.9	-500.6	-57515.0	4281000.0	-992.0
352.233	1978.0	30.6	-717.7	-84255.0	4671000.0	-885.0
352.234	1853.8	29.9	-696.7	-82292.0	3362000.0	-700.0
352.235	1641.0	18.1	-513.1	-49750.0	5598000.0	-1340.0
352.236	1517.3	19.3	-489.9	-52960.0	4287000.0	-1157.0
352.237	3728.9	43.6	-677.2	-119829.0	14830000.0	-1618.0
352.238	3605.9	45.0	-652.6	-123754.0	13520000.0	-1432.0
352.239	1547.5	26.9	-483.1	-73876.0	5855000.0	-1298.0
352.240	1424.8	25.5	-457.6	-70062.0	4542000.0	-1102.0
352.241	1565.9	28.2	-507.8	-77528.0	5804000.0	-1570.0
352.242	1443.4	26.8	-484.8	-73592.0	4491000.0	-1374.0
352.243	1885.1	35.2	-671.7	-96754.0	4927000.0	-983.0
352.244	1759.4	39.5	-672.4	-108585.0	3621000.0	-791.0
352.245	1545.9	25.9	-464.6	-71143.0	5859000.0	-1459.0
352.246	1423.4	24.3	-438.7	-66958.0	4546000.0	-1262.0
352.247	3632.1	54.1	-635.2	-148778.0	15100000.0	-1738.0
352.248	3509.6	53.0	-611.1	-145672.0	13780000.0	-1543.0
352.249	1524.6	-27.6	-512.1	75910.0	5918000.0	-222.0
352.250	1401.4	-22.6	-474.9	62219.0	4606000.0	-29.0

352.251	1537.5	-35.0	-549.5	96196.0	5883000.0	-138.0
352.252	1414.2	-30.0	-510.0	82574.0	4571000.0	53.0
352.253	1863.2	9.4	-652.8	-25842.0	4987000.0	90.0
352.254	1739.9	14.9	-617.8	-41072.0	3675000.0	283.0
352.255	1521.8	-32.7	-518.6	89822.0	5926000.0	-380.0
352.256	1398.6	-27.5	-480.0	75681.0	4614000.0	-188.0
352.257	3616.7	-19.5	-634.2	53619.0	15140000.0	-657.0
352.258	3493.8	-13.5	-597.4	37058.0	13830000.0	-462.0
352.401	1880.2	-43.8	-2731.4	120529.0	-453988.0	3456.0
352.402	497.2	-53.6	-2968.7	147387.0	3349000.0	3336.0
352.403	1682.5	-68.5	-2886.2	188455.0	89466.0	-128.0
352.404	299.6	-74.9	-3139.6	206078.0	3893000.0	-249.0
352.405	351.6	-40.2	2658.0	110572.0	3749000.0	140.0
352.406	-1027.4	-49.6	2367.9	136305.0	7542000.0	1.4
352.407	141.8	-28.9	2092.1	79373.0	4326000.0	-2958.0
352.408	-1237.8	-40.9	1799.4	112418.0	8120000.0	-3123.0
352.409	1879.1	-45.8	-2679.6	125956.0	-450972.0	3795.0
352.410	493.7	-46.8	-2956.0	128752.0	3359000.0	3669.0
352.411	1685.5	-74.1	-2909.1	203799.0	81388.0	-443.0
352.412	302.3	-79.8	-3161.2	219523.0	3885000.0	-563.0
352.413	347.1	-37.7	2637.0	103794.0	3762000.0	472.0
352.414	-1032.6	-49.7	2344.7	136765.0	7556000.0	331.0
352.415	143.8	-32.2	2111.7	88546.0	4321000.0	-3285.0
352.416	-1234.2	-43.2	1826.9	118854.0	8111000.0	-3444.0
352.417	1939.6	-19.7	-1507.1	54262.0	-617543.0	3275.0
352.418	557.5	-26.7	-1761.6	73522.0	3183000.0	3124.0
352.419	1758.4	-45.5	-1663.6	125256.0	-119223.0	-126.0
352.420	376.1	-50.2	-1930.9	137932.0	3682000.0	-283.0
352.421	308.6	-15.7	1467.3	43052.0	3868000.0	174.0
352.422	-1072.6	-24.5	1181.9	67265.0	7666000.0	33.0
352.423	91.8	-4.4	897.4	11991.0	4464000.0	-2935.0
352.424	-1293.0	-17.4	610.6	47906.0	8272000.0	-3116.0
352.425	1933.5	-13.9	-1478.5	38152.0	-600570.0	3569.0
352.426	551.7	-21.2	-1731.7	58432.0	3199000.0	3416.0
352.427	1763.9	-49.3	-1695.1	135534.0	-134268.0	-386.0
352.428	380.7	-53.7	-1963.3	147599.0	3670000.0	-550.0
352.429	303.5	-12.5	1451.1	34315.0	3882000.0	482.0
352.430	-1077.9	-23.2	1173.2	63873.0	7681000.0	338.0
352.431	96.4	-7.2	911.0	19812.0	4451000.0	-3231.0
352.432	-1287.4	-18.2	632.1	50020.0	8257000.0	-3411.0
352.433	1561.7	87.2	-785.5	-239745.0	421919.0	5968.0
352.434	177.4	62.1	-968.9	-170751.0	4229000.0	5858.0
352.435	870.7	-0.1	-1670.1	348.0	2322000.0	-5420.0
352.436	-515.0	-12.4	-1905.2	34088.0	6133000.0	-5599.0
352.437	1112.9	77.5	1054.5	-213166.0	1656000.0	4652.0
352.438	-273.6	69.5	763.7	-191180.0	5469000.0	4556.0
352.439	392.4	-67.8	-457.4	186336.0	3637000.0	-5916.0
352.440	-983.6	-63.3	-684.8	174162.0	7421000.0	-6082.0
352.441	1564.3	123.5	-516.6	-339736.0	414736.0	5821.0
352.442	178.0	105.7	-730.0	-290778.0	4227000.0	5706.0
352.443	888.3	-6.7	-1310.0	18518.0	2274000.0	-5367.0
352.444	-492.5	-19.4	-1547.3	53247.0	6071000.0	-5535.0
352.445	1105.0	60.0	725.1	-165013.0	1678000.0	4808.0
352.446	-279.3	41.6	478.5	-114486.0	5485000.0	4711.0
352.447	381.3	-51.5	-762.0	141719.0	3668000.0	-5957.0
352.448	-993.9	-33.4	-944.1	91885.0	7450000.0	-6123.0
352.449	1544.7	41.4	-414.2	-113862.0	468589.0	6968.0
352.450	158.0	28.5	-650.7	-78508.0	4282000.0	6852.0
352.451	882.0	-9.7	-1703.0	26789.0	2291000.0	-6263.0
352.452	-503.8	-22.0	-1939.1	60426.0	6102000.0	-6439.0
352.453	1097.5	56.8	1210.9	-156199.0	1698000.0	5677.0
352.454	-286.1	48.5	909.5	-133255.0	5503000.0	5558.0

352.455	424.2	-5.7	-133.2	15627.0	3550000.0	-6956.0
352.456	-959.0	-17.2	-386.4	47191.0	7354000.0	-7139.0
352.457	1559.0	45.3	-24.8	-124451.0	429287.0	6820.0
352.458	171.0	38.7	-288.1	-106561.0	4246000.0	6703.0
352.459	898.9	-15.9	-1341.2	43861.0	2244000.0	-6211.0
352.460	-485.3	-28.1	-1577.4	77351.0	6051000.0	-6388.0
352.461	1081.3	50.3	870.1	-138289.0	1743000.0	5801.0
352.462	-303.0	42.7	578.8	-117446.0	5550000.0	5693.0
352.463	410.8	-0.7	-498.3	1911.0	3587000.0	-7016.0
352.464	-974.7	-11.9	-730.6	32848.0	7397000.0	-7204.0
352.529	2974.6	22.8	-490.6	-62652.0	-3464000.0	2150.0
352.530	-1654.3	-7.6	-1273.3	20862.0	9266000.0	1730.0
352.531	2761.3	3.7	-770.4	-10054.0	-2877000.0	-1322.0
352.532	-1845.6	-28.8	-1537.0	79211.0	9792000.0	-1835.0
352.533	2511.2	41.8	1289.2	-114969.0	-2189000.0	1026.0
352.534	-2093.1	16.1	283.9	-44154.0	10470000.0	634.0
352.535	2293.7	-4.1	761.6	11259.0	-1591000.0	-2057.0
352.536	-2307.1	-42.3	-179.7	116458.0	11060000.0	-2644.0
352.537	2971.5	20.9	-430.4	-57377.0	-3455000.0	2452.0
352.538	-1660.2	-4.4	-1237.1	11966.0	9282000.0	2023.0
352.539	2765.1	1.5	-777.4	-4096.0	-2888000.0	-1586.0
352.540	-1845.0	-27.0	-1528.2	74339.0	9790000.0	-2154.0
352.541	2507.7	25.4	1285.8	-69754.0	-2180000.0	1350.0
352.542	-2098.1	15.6	297.8	-42835.0	10490000.0	925.0
352.543	2297.3	-4.9	788.1	13442.0	-1601000.0	-2376.0
352.544	-2303.9	-43.3	-154.0	119069.0	11050000.0	-2941.0
352.545	2987.4	29.5	-121.0	-81244.0	-3499000.0	2061.0
352.546	-1637.2	1.5	-912.4	-4016.0	9219000.0	1597.0
352.547	2777.8	-1.8	-404.6	5069.0	-2923000.0	-1272.0
352.548	-1821.2	-30.7	-1142.1	84554.0	9725000.0	-1869.0
352.549	2500.7	38.1	913.0	-104849.0	-2160000.0	1081.0
352.550	-2110.7	12.5	-64.7	-34504.0	10520000.0	651.0
352.551	2279.3	1.7	386.1	-4685.0	-1552000.0	-2027.0
352.552	-2331.3	-35.6	-533.0	97791.0	11130000.0	-2670.0
352.553	2983.3	28.9	-62.7	-79478.0	-3488000.0	2336.0
352.554	-1642.3	1.1	-861.4	-2888.0	9233000.0	1884.0
352.555	2782.1	-3.2	-409.0	8686.0	-2934000.0	-1533.0
352.556	-1818.5	-27.8	-1136.6	76513.0	9717000.0	-2128.0
352.557	2494.6	32.3	931.4	-88769.0	-2144000.0	1379.0
352.558	-2115.8	13.4	-44.8	-36939.0	10530000.0	934.0
352.559	2284.0	1.4	418.6	-3867.0	-1564000.0	-2345.0
352.560	-2326.9	-36.9	-517.0	101451.0	11120000.0	-2956.0
1272.1	-1014.1	64.0	-112800.0	126426.0	-574223.0	448.0
1272.2	-775.5	24.6	-79843.0	56907.0	-642699.0	363.0
1272.3	-1095.0	-4.2	-113200.0	38532.0	-1097000.0	533.0
1272.4	-855.9	-4.9	-80217.8	19623.0	-1165000.0	402.0
1272.5	-1105.1	106.2	-159600.0	188334.0	-417942.0	393.0
1272.6	-866.5	84.9	-126700.0	150881.0	-485778.0	279.0
1272.7	-1440.4	-35.6	-357000.0	107670.0	321932.0	570.0
1272.8	-1201.6	-66.3	-323900.0	51589.0	253863.0	470.0
1272.9	-1335.3	4.7	-296900.0	108102.0	99279.0	540.0
1272.10	-1094.8	44.1	-263600.0	149766.0	33097.0	339.0
1272.11	-1415.5	2.2	-297300.0	109003.0	-423035.0	536.0
1272.12	-1176.5	2.2	-264300.0	97134.0	-490615.0	393.0
1272.13	-1425.5	16.5	-343300.0	135556.0	256443.0	508.0
1272.14	-1186.7	10.6	-310300.0	120609.0	189013.0	372.0
1272.15	-1057.8	-170.1	-136300.0	-232873.0	-492896.0	663.0
1272.16	-973.1	27.3	-89058.0	63339.0	-661547.0	499.0
1272.17	-817.1	18.6	-103600.0	63747.0	-555939.0	367.0
1272.18	-734.5	1.3	-56126.1	16560.0	-729702.0	398.0
1272.19	-1085.9	-190.9	-152200.0	-261793.0	-436053.0	683.0
1272.20	-946.0	-5.8	-73252.3	16056.0	-719668.0	544.0

1272.21	-846.6	-148.7	-119300.0	-204074.0	-502675.0	510.0
1272.22	-706.8	0.7	-40328.7	6163.0	-787596.0	402.0
1272.23	-1135.5	77.3	-137000.0	153159.0	-1010000.0	427.0
1272.24	-1053.2	1.8	-89404.6	25665.0	-1184000.0	538.0
1272.25	-897.1	21.4	-104000.0	68316.0	-1078000.0	359.0
1272.26	-814.2	8.2	-56490.4	18368.0	-1252000.0	393.0
1272.27	-1146.5	120.2	-183500.0	214355.0	-331347.0	380.0
1272.28	-1064.0	91.1	-135900.0	161934.0	-504591.0	411.0
1272.29	-907.6	100.4	-150400.0	177511.0	-399253.0	262.0
1272.30	-825.4	69.7	-102900.0	124377.0	-572565.0	297.0
1272.31	-1481.8	-38.0	-380800.0	114507.0	408562.0	573.0
1272.32	-1397.6	8.9	-333100.0	124084.0	234622.0	527.0
1272.33	-1242.7	-35.1	-347800.0	104170.0	341097.0	430.0
1272.34	-1159.1	-27.3	-300100.0	67202.0	166804.0	430.0
1272.35	-1405.7	-36.0	-336800.0	98513.0	244097.0	582.0
1272.36	-1266.1	3.3	-257200.0	94670.0	-44693.0	534.0
1272.37	-1166.5	-34.5	-303700.0	87980.0	176738.0	438.0
1272.38	-1026.0	36.5	-224000.0	127740.0	-111227.0	345.0
1272.39	-1378.1	-36.0	-320900.0	93543.0	186485.0	580.0
1272.40	-1293.6	5.7	-273100.0	101105.0	12977.0	534.0
1272.41	-1138.9	-32.5	-287900.0	83787.0	119019.0	435.0
1272.42	-1053.5	38.7	-239900.0	136262.0	-53452.0	342.0
1272.43	-1456.9	1.9	-321100.0	116917.0	-336565.0	537.0
1272.44	-1374.1	2.7	-273500.0	101244.0	-509497.0	534.0
1272.45	-1217.9	1.7	-288100.0	104845.0	-404120.0	395.0
1272.46	-1135.1	3.4	-240600.0	89780.0	-577098.0	392.0
1272.47	-1466.8	17.3	-367000.0	144259.0	343066.0	508.0
1272.48	-1384.4	13.3	-319600.0	125661.0	169820.0	510.0
1272.49	-1227.9	15.6	-334000.0	131216.0	275603.0	369.0
1272.50	-1145.5	7.5	-286600.0	110850.0	102423.0	374.0
1272.51	-1065.4	48.9	-125600.0	-7718.0	-524433.0	381.0
1272.52	-829.7	-4.0	-93205.4	-22295.0	-592958.0	278.0
1272.53	-1105.5	-17.5	-135300.0	-48027.0	-493637.0	384.0
1272.54	-865.8	-16.1	-102800.0	-46437.0	-560321.0	286.0
1272.55	-1145.0	50.1	-125900.0	-5571.0	-1046000.0	372.0
1272.56	-909.5	-4.8	-93484.9	-21812.0	-1115000.0	279.0
1272.57	-1154.0	50.7	-172100.0	-17484.0	-363851.0	337.0
1272.58	-918.6	-11.8	-139700.0	-33539.0	-431766.0	240.0
1272.59	-1484.7	-77.4	-371400.0	-139487.0	393981.0	347.0
1272.60	-1246.2	-69.2	-338400.0	-127174.0	325602.0	195.0
1272.61	-1381.1	-61.3	-311100.0	-108262.0	171996.0	332.0
1272.62	-1142.1	-50.9	-277700.0	-92186.0	102608.0	174.0
1272.63	-1408.2	201.3	-316700.0	7351.0	191891.0	113.0
1272.64	-1171.7	178.9	-284100.0	4790.0	122619.0	17.0
1272.65	-1460.1	-59.6	-311000.0	-102801.0	-350006.0	310.0
1272.66	-1221.9	-51.0	-278000.0	-91245.0	-419097.0	173.0
1272.67	-1471.7	-72.3	-357800.0	-120630.0	329348.0	334.0
1272.68	-1232.9	-63.1	-324700.0	-112720.0	260751.0	174.0
1272.69	-1000.4	-75.3	-106700.0	-155518.0	-681695.0	802.0
1272.70	-762.6	-42.0	-74171.3	-106161.0	-749939.0	612.0
1272.71	-993.6	-60.3	-103600.0	-162296.0	-754268.0	886.0
1272.72	-754.5	-40.0	-71183.0	-122190.0	-821409.9	697.0
1272.73	-1080.2	-74.5	-107000.0	-154085.0	-1204000.0	802.0
1272.74	-842.5	-49.7	-74445.0	-117714.0	-1272000.0	619.0
1272.75	-1091.6	-121.5	-153000.0	-204462.0	-524098.0	878.0
1272.76	-852.9	-86.8	-120400.0	-168834.0	-592636.0	673.0
1272.77	-1427.9	-362.7	-349300.0	-402893.0	217711.0	1277.0
1272.78	-1187.5	-298.4	-316400.0	-358913.0	149675.0	1080.0
1272.79	-1322.1	-295.0	-289200.0	-370053.0	-4611.0	1200.0
1272.80	-1083.0	-267.8	-256400.0	-338621.0	-71974.0	1019.0
1272.81	-1312.3	-335.2	-285400.0	-480196.0	-75788.0	1233.0
1272.82	-1072.4	-285.1	-252700.0	-437231.0	-143701.0	1013.0

1272.83	-1402.3	-315.8	-289500.0	-411258.0	-528322.0	1201.0
1272.84	-1163.0	-250.3	-256900.0	-305090.0	-594178.0	1013.0
1272.85	-1414.0	-385.6	-335500.0	-522480.0	149037.0	1236.0
1272.86	-1174.9	-328.6	-302900.0	-428147.0	83137.0	1066.0
1272.87	-1216.7	-290.2	-229800.0	-353215.0	-134644.0	1362.0
1272.88	-976.8	-254.8	-196800.0	-315499.0	-200031.0	1121.0
1272.89	-1281.7	-345.1	-268200.0	-427057.0	12270.0	1521.0
1272.90	-1041.8	-308.7	-235200.0	-388211.0	-53104.0	1278.0
1272.91	-1291.7	-98.6	-230600.0	-162000.0	-646814.0	962.0
1272.92	-1056.7	-255.2	-197100.0	-314489.0	-722090.0	1117.0
1272.93	-1307.6	-274.9	-276500.0	-347315.0	20998.0	1336.0
1272.94	-1068.7	-275.5	-243600.0	-341485.0	-44907.0	1179.0
1272.95	-1253.2	-102.2	-254200.0	-169896.0	-38088.0	994.0
1272.96	-1173.9	-237.2	-206000.0	-301599.0	-219265.0	1228.0
1272.97	-1018.8	-280.5	-220600.0	-343286.0	-114594.0	1195.0
1272.98	-934.2	-205.7	-173000.0	-266792.0	-284818.0	997.0
1272.99	-1287.1	-328.3	-269700.0	-398239.0	7799.0	1489.0
1272.100	-1146.1	-222.0	-190200.0	-284623.0	-276365.0	1184.0
1272.101	-1047.2	-295.6	-236700.0	-362515.0	-57615.0	1252.0
1272.102	-906.1	-191.9	-157100.0	-249709.0	-341838.0	949.0
1272.103	-1324.2	-365.9	-292200.0	-453625.0	97811.0	1600.0
1272.104	-1238.8	-286.4	-244300.0	-369948.0	-72235.0	1374.0
1272.105	-1084.3	-333.4	-259200.0	-417584.0	32344.0	1362.0
1272.106	-999.1	-254.9	-211400.0	-335023.0	-137736.0	1143.0
1272.107	-1338.1	-281.9	-253900.0	-350401.0	-570839.0	1359.0
1272.108	-1254.1	-237.2	-206300.0	-300620.0	-741392.0	1227.0
1272.109	-1094.0	-97.0	-221400.0	-159851.0	-627089.0	812.0
1272.110	-1014.0	-206.5	-173200.0	-266176.0	-806635.0	993.0
1272.111	-1350.6	-319.3	-300500.0	-396275.0	106167.0	1476.0
1272.112	-1265.9	-256.4	-252800.0	-326256.0	-64623.0	1280.0
1272.113	-1110.5	-295.6	-267300.0	-365610.0	40575.0	1245.0
1272.114	-1026.9	-254.1	-219800.0	-317683.0	-130454.0	1116.0
1272.115	-1254.3	42.6	-241800.0	-109311.0	-65231.0	498.0
1272.116	-1017.4	30.5	-209100.0	-104140.0	-134155.0	379.0
1272.117	-1292.0	93.1	-250800.0	-81009.0	-35802.0	423.0
1272.118	-1058.1	-41.7	-218900.0	-128042.0	-102061.0	351.0
1272.119	-1315.1	64.0	-279700.0	-135169.0	85700.0	483.0
1272.120	-1078.6	53.3	-247000.0	-121227.0	16452.0	418.0
1272.121	-1334.1	42.5	-242100.0	-108407.0	-587028.0	496.0
1272.122	-1097.6	10.8	-209500.0	-111570.0	-655441.0	392.0
1272.123	-1343.0	32.0	-288300.0	-128459.0	96279.0	427.0
1272.124	-1107.2	-0.6	-255800.0	-134271.0	25746.0	372.0
1272.125	-1197.5	-269.5	-220000.0	-378552.0	-234868.0	1217.0
1272.126	-957.7	-205.5	-187400.0	-300987.0	-302032.0	1002.0
1272.127	-1184.7	-185.7	-216300.0	-369079.0	-306188.0	1195.0
1272.128	-946.8	-155.6	-183800.0	-320852.0	-373999.0	993.0
1272.129	-1261.2	-321.8	-256700.0	-462699.0	-89718.0	1403.0
1272.130	-1022.2	-279.9	-224400.0	-402915.0	-156221.0	1137.0
1272.131	-1278.1	-266.4	-220200.0	-372806.0	-758064.0	1292.0
1272.132	-1036.8	-207.0	-187400.0	-331550.0	-825237.0	995.0
1272.133	-1288.3	-288.4	-266100.0	-414098.0	-78617.0	1344.0
1272.134	-1049.9	-238.3	-233700.0	-336446.0	-145820.0	1141.0
1272.135	-1074.8	259.8	-148100.0	436766.0	-462280.0	-1.1
1272.136	-837.5	192.3	-115500.0	339356.0	-531254.0	-36.0
1272.137	-1095.4	311.8	-159900.0	524168.0	-425937.0	-123.0
1272.138	-857.7	240.2	-127100.0	421768.0	-494689.0	-155.0
1272.139	-1155.7	213.3	-148600.0	378770.0	-985520.0	67.0
1272.140	-917.7	164.3	-115800.0	304934.0	-1054000.0	3.0
1272.141	-1166.6	238.5	-194800.0	425114.0	-306275.0	14.0
1272.142	-927.4	241.1	-161900.0	403666.0	-374573.0	-111.0
1272.143	-1115.6	279.8	-171800.0	469816.0	-375286.0	-35.0
1272.144	-1035.0	197.0	-124700.0	348553.0	-550037.0	97.0

1272.145	-877.4	251.5	-139000.0	422990.0	-443614.0	-128.0
1272.146	-796.6	179.6	-91854.7	315073.0	-618197.0	-12.0
1272.147	-1142.8	291.4	-187500.0	489757.0	-317320.0	-55.0
1272.148	-1008.2	160.0	-108900.0	296174.0	-608353.0	153.0
1272.149	-904.6	264.0	-154700.0	443507.0	-385670.0	-149.0
1272.150	-769.5	149.3	-76084.0	270453.0	-676405.0	34.0
1272.151	-1136.2	331.8	-183500.0	557310.0	-338985.0	-157.0
1272.152	-1055.4	246.0	-136400.0	432507.0	-513551.0	-23.0
1272.153	-897.9	303.1	-150700.0	509606.0	-407299.0	-249.0
1272.154	-817.0	227.3	-103600.0	396834.0	-581807.0	-129.0
1272.155	-1195.9	282.4	-172200.0	474211.0	-898013.0	-36.0
1272.156	-1115.7	167.1	-125100.0	311674.0	-1073000.0	141.0
1272.157	-958.2	207.6	-139400.0	368112.0	-966713.0	-63.0
1272.158	-877.0	155.5	-92227.4	284951.0	-1141000.0	23.0
1272.159	-1207.5	250.0	-218400.0	447298.0	-219413.0	-7.7
1272.160	-1124.8	248.9	-171100.0	416547.0	-393100.0	18.0
1272.161	-969.1	232.1	-185600.0	413348.0	-287614.0	-115.0
1272.162	-886.6	226.3	-138300.0	378642.0	-461437.0	-86.0
1272.163	-1128.7	25.9	-159500.0	43778.0	-414381.0	160.0
1272.164	-891.3	27.6	-126600.0	48732.0	-485623.0	64.0
1272.165	-1166.6	6.9	-168000.0	31180.0	-388343.0	164.0
1272.166	-928.9	28.5	-134900.0	48790.0	-459052.0	17.0
1272.167	-1147.6	35.4	-170300.0	68032.0	-376654.0	-14.0
1272.168	-911.0	40.8	-137400.0	75993.0	-450173.0	-49.0
1272.169	-1208.9	25.5	-159900.0	44094.0	-936749.0	161.0
1272.170	-971.2	27.7	-126900.0	49610.0	-1008000.0	56.0
1272.171	-1217.7	14.5	-206100.0	27363.0	-252437.0	67.0
1272.172	-980.5	23.0	-173100.0	39566.0	-324858.0	1.1
1272.173	-1064.9	-98.4	-142100.0	-142734.0	-574081.0	700.0
1272.174	-826.0	-64.5	-109300.0	-111460.0	-642914.0	506.0
1272.175	-1055.4	-70.7	-138600.0	-179879.0	-647368.0	739.0
1272.176	-817.7	-40.7	-106100.0	-133356.0	-715720.0	558.0
1272.177	-1086.0	-113.1	-153800.0	-163960.0	-539693.0	667.0
1272.178	-847.0	-66.6	-121000.0	-97594.0	-607145.0	459.0
1272.179	-1144.2	-83.8	-142400.0	-135737.0	-1097000.0	690.0
1272.180	-905.7	-63.0	-109700.0	-109310.0	-1165000.0	497.0
1272.181	-1157.5	-150.7	-188600.0	-189081.0	-417216.0	835.0
1272.182	-916.8	-77.9	-155800.0	-122584.0	-485064.0	546.0
1272.183	-1384.4	13.2	-111200.0	7143.0	-1008000.0	657.0
1272.184	-1145.2	17.0	-78131.9	14269.0	-1075000.0	488.0
1272.185	-1464.1	19.8	-111500.0	15157.0	-1530000.0	644.0
1272.186	-1225.1	21.8	-78500.1	20180.0	-1597000.0	483.0
1272.187	-1630.6	23.9	-110000.0	20416.0	-1295000.0	683.0
1272.188	-1392.2	22.2	-77096.7	21444.0	-1363000.0	523.0
1272.189	-1476.3	5.5	-158100.0	-7784.0	-851957.0	687.0
1272.190	-1237.4	8.4	-125100.0	-853.0	-919334.0	525.0
1272.191	-1813.1	-202.1	-355500.0	-129645.0	-111937.0	893.0
1272.192	-1570.3	-12.2	-322800.0	-52609.0	-181672.0	692.0
1272.193	-1707.8	-165.7	-295200.0	-103723.0	-332691.0	842.0
1272.194	-1465.6	-8.1	-262500.0	-39333.0	-402018.0	649.0
1272.195	-1786.9	-160.6	-295300.0	-97522.0	-854303.0	824.0
1272.196	-1545.6	-5.8	-262900.0	-36359.0	-924094.1	642.0
1272.197	-1951.5	-3.4	-294400.0	-34681.0	-621838.0	862.0
1272.198	-1712.6	-3.6	-261400.0	-31687.0	-689258.0	704.0
1272.199	-1799.7	-192.9	-342000.0	-121623.0	-176409.0	868.0
1272.200	-1558.1	-13.9	-309600.0	-54067.0	-246802.0	685.0
1272.201	-1584.6	-147.3	-228200.0	-223089.0	-564317.0	1150.0
1272.202	-1344.3	-134.8	-194800.0	-204033.0	-629972.0	958.0
1272.203	-1652.2	-310.4	-266500.0	-392925.0	-420920.0	1544.0
1272.204	-1410.3	-185.8	-233600.0	-275519.0	-484055.0	1119.0
1272.205	-1664.0	-138.8	-228300.0	-213710.0	-1086000.0	1128.0
1272.206	-1424.1	-131.9	-195100.0	-200272.0	-1152000.0	950.0

1272.207	-1829.3	-124.8	-226300.0	-192912.0	-850334.0	1138.0
1272.208	-1590.1	-113.7	-193400.0	-175124.0	-916859.9	953.0
1272.209	-1676.2	-171.3	-274700.0	-251708.0	-409463.0	1207.0
1272.210	-1435.7	-143.1	-241500.0	-218717.0	-474659.0	984.0
1272.211	-1448.9	60.7	-146900.0	179506.0	-896518.0	376.0
1272.212	-1209.9	73.5	-114000.0	183842.0	-964384.9	223.0
1272.213	-1468.1	191.7	-158400.0	375633.0	-859070.0	158.0
1272.214	-1230.5	103.4	-125700.0	240124.0	-928140.1	130.0
1272.215	-1528.9	63.3	-147300.0	183691.0	-1419000.0	370.0
1272.216	-1289.9	72.2	-114400.0	181712.0	-1487000.0	221.0
1272.217	-1696.1	54.1	-145800.0	169742.0	-1184000.0	446.0
1272.218	-1453.7	141.1	-112700.0	209131.0	-1253000.0	229.0
1272.219	-1540.7	50.3	-193600.0	183852.0	-740162.0	383.0
1272.220	-1301.7	61.1	-160700.0	186448.0	-807924.0	231.0
1272.221	-647.1	-128.4	-113800.0	-168235.0	-160618.0	630.0
1272.222	-406.2	36.9	-81015.1	72532.0	-224728.0	330.0
1272.223	-726.0	-5.2	-114300.0	36112.0	-680032.0	531.0
1272.224	-486.6	5.6	-81337.1	27160.0	-748158.0	370.0
1272.225	-400.6	-134.8	-114500.0	-177383.0	118464.0	581.0
1272.226	-161.5	-81.7	-81607.7	-108631.0	50683.0	389.0
1272.227	-739.2	-170.6	-160600.0	-236351.0	-6327.0	668.0
1272.228	-500.0	-135.8	-127700.0	-188207.0	-73169.0	492.0
1272.229	-1070.8	12.5	-358400.0	172461.0	740485.0	509.0
1272.230	-832.9	-69.3	-325300.0	48021.0	670995.0	472.0
1272.231	-968.7	-381.1	-297100.0	-528986.0	507942.0	835.0
1272.232	-726.0	40.2	-265000.0	146240.0	450421.0	341.0
1272.233	-1049.0	-380.2	-297500.0	-523443.0	-15086.0	828.0
1272.234	-809.7	-337.3	-264600.0	-465082.0	-81657.0	651.0
1272.235	-722.7	-385.9	-298000.0	-534645.0	786470.0	822.0
1272.236	-483.1	-308.4	-265100.0	-409288.0	720724.0	621.0
1272.237	-1056.7	14.4	-344500.0	133519.0	674013.0	514.0
1272.238	-817.9	10.4	-311600.0	119279.0	606100.0	373.0
1272.239	-847.6	-293.2	-231000.0	-356379.0	282703.0	1337.0
1272.240	-607.8	-257.2	-198000.0	-318293.0	217188.0	1091.0
1272.241	-912.8	-347.2	-269400.0	-429488.0	429508.0	1507.0
1272.242	-672.8	-309.7	-236400.0	-389495.0	364339.0	1257.0
1272.243	-927.7	-292.7	-231300.0	-354743.0	-239736.0	1346.0
1272.244	-687.8	-257.7	-198300.0	-317384.0	-305083.0	1097.0
1272.245	-601.6	-294.5	-231800.0	-357937.0	560646.0	1280.0
1272.246	-361.9	-258.2	-198800.0	-319701.0	494931.0	1038.0
1272.247	-934.1	-108.8	-278100.0	-178637.0	448099.0	985.0
1272.248	-699.3	-277.7	-244600.0	-343670.0	372359.0	1147.0
1272.249	-705.5	258.9	-149300.0	434010.0	-44607.0	-12.0
1272.250	-467.7	230.5	-116600.0	385708.0	-113165.0	-108.0
1272.251	-726.2	311.7	-161100.0	521776.0	-8450.0	-135.0
1272.252	-488.0	282.9	-128300.0	474046.0	-76703.0	-235.0
1272.253	-786.1	260.9	-149800.0	437158.0	-567462.0	-4.6
1272.254	-548.6	162.8	-117000.0	301652.0	-636248.0	-12.0
1272.255	-459.1	258.0	-150100.0	431939.0	234133.0	-45.0
1272.256	-220.9	231.8	-117400.0	385748.0	165857.0	-159.0
1272.257	-797.5	237.5	-196000.0	422725.0	111456.0	8.6
1272.258	-558.3	241.1	-163200.0	402187.0	43313.0	-123.0
1272.401	-1138.7	-1480.9	-135700.0	147111.0	443878.0	-1550.0
1272.402	-1338.7	-1541.4	-179700.0	114687.0	605416.0	-615.0
1272.403	-1278.4	-1507.3	-159500.0	214737.0	291432.0	-1101.0
1272.404	-1479.5	-1563.5	-203200.0	187734.0	448732.0	-5.8
1272.405	-53.0	1751.1	4248.6	-172283.0	-616604.0	2142.0
1272.406	-255.7	1678.1	-37781.8	-208359.0	-462248.0	3390.0
1272.407	-195.8	1425.5	-13950.4	-394427.0	-803774.0	1413.0
1272.408	-392.0	1362.2	-56140.9	-413613.0	-640183.0	2416.0
1272.409	-1116.6	-1471.0	-132700.0	168690.0	442218.0	-1508.0
1272.410	-1316.2	-1540.9	-177000.0	131269.0	606211.0	-505.0

1272.411	-1296.2	-1458.4	-162100.0	260984.0	292306.0	-1204.0
1272.412	-1498.9	-1574.7	-205800.0	172735.0	447023.0	0.0
1272.413	-33.9	1735.7	6493.6	-152815.0	-623768.0	2272.0
1272.414	-238.5	1681.0	-35630.7	-159557.0	-470757.0	3618.0
1272.415	-219.8	1444.6	-15723.0	-401146.0	-803787.0	1382.0
1272.416	-415.4	1387.2	-57858.6	-412771.0	-639455.0	2354.0
1272.417	-1170.3	-1320.5	-149600.0	-344542.0	334292.0	-1188.0
1272.418	-1370.0	-1396.2	-193100.0	-395646.0	492647.0	-332.0
1272.419	-1305.7	-1297.2	-171800.0	-205442.0	181185.0	-892.0
1272.420	-1506.0	-1355.9	-215000.0	-238150.0	335387.0	196.0
1272.421	-1.2	1766.5	9553.8	617386.0	-450584.0	1798.0
1272.422	-207.9	1776.1	-33416.0	702429.0	-298459.0	3137.0
1272.423	-138.8	1273.6	-6864.7	147263.0	-637268.0	1163.0
1272.424	-337.3	1204.5	-49486.7	118352.0	-475689.0	2217.0
1272.425	-1148.3	-1241.6	-144400.0	-271584.0	323399.0	-1327.0
1272.426	-1349.1	-1319.5	-187900.0	-320489.0	480056.0	-360.0
1272.427	-1324.7	-1332.1	-174500.0	-235412.0	182608.0	-866.0
1272.428	-1524.8	-1389.5	-217700.0	-265422.0	337471.0	200.0
1272.429	19.5	1799.4	11571.2	691374.0	-457269.0	1935.0
1272.430	-190.0	1764.7	-31593.3	709477.0	-309622.0	3317.0
1272.431	-163.6	1304.6	-9010.7	169760.0	-634637.0	1117.0
1272.432	-361.1	1215.2	-51468.8	108220.0	-472381.0	2145.0
1272.433	-508.5	-362.5	-50780.2	-95088.0	411881.0	-1547.0
1272.434	-710.5	-419.7	-94866.4	-104273.0	565922.0	-484.0
1272.435	-976.5	-600.7	-116000.0	95749.0	-152734.0	-458.0
1272.436	-1177.8	-677.7	-159300.0	60209.0	1753.0	622.0
1272.437	-225.4	1123.9	-12416.6	419337.0	53336.0	2512.0
1272.438	-429.1	1108.9	-55632.0	454085.0	201882.0	3561.0
1272.439	-657.1	32.1	-70312.6	-380133.0	-469153.0	47.0
1272.440	-851.3	-14.1	-112800.0	-390828.0	-302457.0	1044.0
1272.441	-526.0	-331.0	-53868.4	-242662.0	362590.0	-1530.0
1272.442	-727.8	-395.6	-97699.3	-262715.0	518069.0	-459.0
1272.443	-982.7	-514.6	-119600.0	-18496.0	-182181.0	-405.0
1272.444	-1182.6	-571.5	-162500.0	-37256.0	-27673.0	641.0
1272.445	-213.5	1120.8	-12070.3	607500.0	98506.0	2443.0
1272.446	-417.5	1104.3	-55463.2	644171.0	247730.0	3538.0
1272.447	-642.0	-38.0	-68285.8	-233108.0	-425513.0	-28.0
1272.448	-836.7	-80.7	-111000.0	-238178.0	-258197.0	972.0
1272.449	-422.1	-193.9	-36443.8	82458.0	413774.0	-640.0
1272.450	-626.9	-240.4	-81059.0	95995.0	566102.0	504.0
1272.451	-1033.0	-640.9	-122400.0	48193.0	-154282.0	-370.0
1272.452	-1232.8	-695.9	-165200.0	22293.0	-1045.0	702.0
1272.453	-188.0	1137.6	-7297.9	491848.0	-13243.0	3200.0
1272.454	-394.0	1124.6	-50739.5	533607.0	134330.0	4273.0
1272.455	-711.4	86.9	-76469.7	-379804.0	-448324.0	73.0
1272.456	-903.5	42.6	-118500.0	-392232.0	-284961.0	1052.0
1272.457	-440.6	-187.0	-40257.8	-106627.0	363673.0	-578.0
1272.458	-644.9	-243.0	-84656.8	-103307.0	516945.0	559.0
1272.459	-1040.8	-604.3	-126200.0	-91750.0	-185054.0	-290.0
1272.460	-1239.3	-638.0	-168700.0	-100512.0	-31857.0	748.0
1272.461	-174.2	1126.7	-6732.3	678456.0	33633.0	3154.0
1272.462	-381.0	1110.1	-50403.0	718043.0	179892.0	4247.0
1272.463	-704.0	42.6	-74679.8	-228088.0	-408993.0	17.0
1272.464	-896.8	-2.5	-116900.0	-233578.0	-245216.0	989.0
1272.529	-439.7	-365.6	-18598.9	18209.0	35485.0	-1998.0
1272.530	-1103.7	-639.2	-167000.0	-121958.0	582081.0	1082.0
1272.531	-580.7	-414.8	-40738.2	87229.0	-125774.0	-1653.0
1272.532	-1250.8	-596.3	-185300.0	33027.0	394922.0	1882.0
1272.533	-119.5	702.6	20926.7	22225.0	-277846.0	-403.0
1272.534	-799.9	786.7	-122100.0	350600.0	224272.0	3786.0
1272.535	-268.1	407.0	2520.0	-178647.0	-469171.0	-939.0
1272.536	-920.5	170.5	-139300.0	-314112.0	79719.0	2614.0

1272.537	-411.5	-315.8	-14896.1	65099.0	42186.0	-1895.0
1272.538	-1075.7	-580.1	-163300.0	-59686.0	588175.0	1219.0
1272.539	-599.3	-431.8	-43129.4	70350.0	-126531.0	-1614.0
1272.540	-1268.0	-592.6	-187000.0	25052.0	389552.0	1839.0
1272.541	-105.1	715.0	22687.6	60563.0	-291359.0	-250.0
1272.542	-796.8	753.6	-121100.0	332815.0	204268.0	4071.0
1272.543	-292.6	419.1	724.0	-185556.0	-468003.0	-967.0
1272.544	-935.2	187.0	-140300.0	-329103.0	81901.0	2520.0
1272.545	-453.2	-303.1	-22813.8	-112285.0	-3527.0	-2035.0
1272.546	-1118.5	-612.3	-169400.0	-298768.0	531758.0	1165.0
1272.547	-588.6	-345.6	-44634.8	-36706.0	-155629.0	-1587.0
1272.548	-1256.9	-509.4	-188200.0	-81773.0	358525.0	1919.0
1272.549	-108.4	704.6	21593.4	234253.0	-230010.0	-421.0
1272.550	-791.1	806.3	-122000.0	572842.0	270479.0	3702.0
1272.551	-250.0	359.0	4845.0	-14594.0	-417688.0	-1023.0
1272.552	-905.7	70.8	-137400.0	-208862.0	126420.0	2554.0
1272.553	-426.3	-252.7	-18424.2	-69304.0	-1253.0	-1906.0
1272.554	-1091.1	-526.7	-165800.0	-213394.0	538802.0	1269.0
1272.555	-607.3	-381.7	-47066.4	-66074.0	-156547.0	-1531.0
1272.556	-1274.6	-552.1	-190100.0	-129735.0	356806.0	1928.0
1272.557	-90.4	709.2	23686.9	269460.0	-243673.0	-343.0
1272.558	-785.8	744.0	-120600.0	555317.0	250276.0	3967.0
1272.559	-276.3	363.9	2837.0	-27782.0	-417791.0	-1039.0
1272.560	-924.8	88.3	-138900.0	-222802.0	128740.0	2493.0
1274.1	1015.9	26.2	-112800.0	-21602.0	-562273.0	578.0
1274.2	776.4	13.6	-79782.5	-10527.0	-632987.0	428.0
1274.3	1095.1	18.4	-113000.0	-13709.0	-1082000.0	582.0
1274.4	855.5	10.6	-79993.2	-7934.0	-1152000.0	427.0
1274.5	1109.9	-63.6	-159500.0	133298.0	-408602.0	662.0
1274.6	869.5	40.8	-126700.0	-39091.0	-476748.0	413.0
1274.7	1449.5	-183.9	-356900.0	367118.0	329691.0	881.0
1274.8	1209.7	-164.8	-323900.0	331222.0	259362.0	704.0
1274.9	1342.7	-244.3	-296100.0	483815.0	105339.0	835.0
1274.10	1102.7	-110.5	-263700.0	227984.0	39320.0	626.0
1274.11	1422.2	-239.6	-296300.0	479903.0	-414675.0	831.0
1274.12	1182.6	-211.6	-263500.0	425390.0	-484261.0	654.0
1274.13	1435.1	-126.2	-343400.0	259825.0	266611.0	815.0
1274.14	1195.7	-112.4	-310500.0	234728.0	196037.0	649.0
1274.15	1057.4	53.7	-136600.0	-54388.0	-474297.0	555.0
1274.16	973.9	10.9	-88990.5	-6626.0	-650093.0	576.0
1274.17	818.2	24.8	-103600.0	-21158.0	-545026.0	432.0
1274.18	734.4	3.3	-55980.9	-300.0	-720801.0	423.0
1274.19	1086.7	-100.0	-152100.0	203309.0	-419900.0	683.0
1274.20	945.9	0.9	-73113.1	4403.0	-708608.0	578.0
1274.21	847.1	-77.2	-119200.0	158146.0	-489847.0	510.0
1274.22	706.3	4.8	-40106.8	-3473.0	-779358.0	409.0
1274.23	1138.1	-62.4	-136700.0	129740.0	-996651.0	658.0
1274.24	1052.9	7.9	-89152.7	-4048.0	-1170000.0	573.0
1274.25	897.7	21.8	-103800.0	-18408.0	-1064000.0	433.0
1274.26	813.2	15.5	-56160.3	-16866.0	-1240000.0	401.0
1274.27	1152.0	-102.6	-183100.0	209922.0	-322144.0	692.0
1274.28	1067.0	43.2	-135900.0	-41634.0	-493873.0	555.0
1274.29	911.2	47.0	-150500.0	-43929.0	-388516.0	421.0
1274.30	827.9	26.4	-103000.0	-23738.0	-564769.0	417.0
1274.31	1491.3	-196.3	-380600.0	391802.0	417399.0	905.0
1274.32	1406.8	-164.6	-332900.0	334469.0	241972.0	830.0
1274.33	1251.8	-178.6	-347700.0	357610.0	346979.0	732.0
1274.34	1167.2	-145.6	-300000.0	299552.0	171636.0	658.0
1274.35	1413.2	-282.5	-335900.0	553049.0	251512.0	902.0
1274.36	1272.7	-175.3	-256700.0	352135.0	-39152.0	780.0
1274.37	1173.7	-253.9	-303000.0	498935.0	181351.0	726.0
1274.38	1032.9	-80.4	-224200.0	168860.0	-106415.0	587.0

1274.39	1385.3	-268.3	-320100.0	526593.0	193063.0	884.0
1274.40	1300.5	-186.6	-272500.0	373746.0	19222.0	795.0
1274.41	1145.7	-240.4	-287100.0	472641.0	123030.0	708.0
1274.42	1060.8	-86.3	-240000.0	181164.0	-47884.0	602.0
1274.43	1464.1	-259.4	-320000.0	519160.0	-327117.0	856.0
1274.44	1380.3	-219.7	-272700.0	440494.0	-502203.0	805.0
1274.45	1224.5	-231.3	-287200.0	464611.0	-396770.0	679.0
1274.46	1140.7	-191.7	-239800.0	385872.0	-571743.0	629.0
1274.47	1476.9	-135.2	-367100.0	278231.0	354425.0	836.0
1274.48	1393.3	-116.6	-319700.0	241552.0	178802.0	796.0
1274.49	1237.5	-122.6	-334200.0	253196.0	283844.0	668.0
1274.50	1153.9	-102.8	-286800.0	216282.0	108213.0	629.0
1274.51	1012.3	-126.2	-106500.0	236065.0	-710334.0	779.0
1274.52	775.1	-51.5	-74725.8	139470.0	-781435.0	582.0
1274.53	1013.8	-67.5	-104800.0	200316.0	-809963.0	809.0
1274.54	773.5	-43.2	-72732.2	154054.0	-879462.0	644.0
1274.55	1091.6	-125.8	-106800.0	234984.0	-1230000.0	777.0
1274.56	854.3	-50.9	-74946.7	137942.0	-1301000.0	581.0
1274.57	1103.2	-140.5	-152600.0	263329.0	-551645.0	820.0
1274.58	866.2	-97.3	-120700.0	221874.0	-623282.0	654.0
1274.59	1448.4	-387.1	-349300.0	449473.0	194436.0	1262.0
1274.60	1209.0	-357.2	-316700.0	420408.0	123295.0	1082.0
1274.61	1341.0	-329.1	-289300.0	390150.0	-26714.0	1187.0
1274.62	1100.5	-269.5	-256600.0	347615.0	-98521.0	983.0
1274.63	1328.6	-305.6	-284100.0	519585.0	-130770.0	1004.0
1274.64	1091.5	-282.3	-251900.0	483846.0	-203171.0	843.0
1274.65	1419.2	-295.6	-289400.0	374109.0	-546766.0	1170.0
1274.66	1180.0	-268.2	-256900.0	344978.0	-618132.0	988.0
1274.67	1432.6	-348.8	-335400.0	448824.0	129517.0	1198.0
1274.68	1193.9	-325.2	-302900.0	423813.0	57571.0	1037.0
1274.69	1054.8	-33.6	-123900.0	31951.0	-473353.0	419.0
1274.70	817.5	-29.9	-91065.7	25725.0	-548274.0	290.0
1274.71	1086.2	-56.9	-131700.0	50292.0	-424709.0	383.0
1274.72	848.0	-59.6	-98795.9	52068.0	-500281.0	254.0
1274.73	1133.7	-32.1	-124100.0	29911.0	-992242.0	418.0
1274.74	896.4	-28.6	-91223.5	23741.0	-1067000.0	283.0
1274.75	1145.6	-39.0	-170800.0	44542.0	-310736.0	389.0
1274.76	908.1	-35.2	-137800.0	35484.0	-386062.0	274.0
1274.77	1479.5	-78.6	-368700.0	125797.0	448131.0	394.0
1274.78	1240.1	-72.2	-335500.0	110295.0	375840.0	227.0
1274.79	1374.2	-67.9	-308300.0	101955.0	222414.0	372.0
1274.80	1135.7	-61.6	-275400.0	90693.0	149862.0	229.0
1274.81	1403.2	-83.2	-316200.0	105142.0	275678.0	326.0
1274.82	1165.0	-83.3	-283100.0	98056.0	200426.0	217.0
1274.83	1453.5	-68.4	-308600.0	101156.0	-296793.0	372.0
1274.84	1214.7	-61.4	-275600.0	88922.0	-369217.0	227.0
1274.85	1467.2	-77.6	-355400.0	121317.0	380077.0	386.0
1274.86	1228.2	-71.4	-322400.0	109292.0	308069.0	237.0
1274.87	1084.3	-129.8	-147400.0	153365.0	-459174.0	321.0
1274.88	846.0	-97.5	-114800.0	111859.0	-531326.0	169.0
1274.89	1107.8	-134.3	-159100.0	154168.0	-426793.0	228.0
1274.90	869.5	-103.8	-126600.0	115434.0	-498635.0	80.0
1274.91	1164.1	-133.6	-147800.0	155720.0	-978380.9	337.0
1274.92	925.4	-97.8	-115100.0	112391.0	-1051000.0	178.0
1274.93	1176.5	-159.7	-194000.0	211905.0	-302599.0	332.0
1274.94	934.4	179.5	-161700.0	-308730.0	-366885.0	-119.0
1274.95	1125.8	-160.1	-171000.0	189219.0	-370166.0	336.0
1274.96	1043.6	-95.3	-124100.0	97626.0	-547584.0	324.0
1274.97	887.0	-120.9	-138300.0	142228.0	-442402.0	172.0
1274.98	805.3	-64.3	-91490.6	60015.0	-619808.0	170.0
1274.99	1153.5	-196.6	-186600.0	215630.0	-310502.0	347.0
1274.100	1016.2	-80.5	-108400.0	79665.0	-606810.0	321.0

1274.101	915.0	-157.9	-154000.0	169736.0	-382524.0	189.0
1274.102	777.6	-39.3	-75787.2	38389.0	-679300.0	160.0
1274.103	1149.6	-185.0	-182700.0	195196.0	-337116.0	249.0
1274.104	1067.3	-99.8	-135900.0	97355.0	-515260.0	234.0
1274.105	911.1	-147.3	-150100.0	150758.0	-409066.0	95.0
1274.106	828.9	-69.3	-103300.0	60616.0	-587126.0	82.0
1274.107	1205.1	-175.6	-171200.0	229182.0	-890869.1	338.0
1274.108	1120.1	145.6	-124600.0	-268547.0	-1061000.0	89.0
1274.109	966.9	-125.3	-138700.0	145623.0	-961850.0	189.0
1274.110	883.0	96.0	-92000.9	-192523.0	-1135000.0	32.0
1274.111	1214.0	169.3	-218000.0	-335384.0	-204310.0	-15.0
1274.112	1135.4	-137.7	-170500.0	182059.0	-391183.0	328.0
1274.113	979.6	-153.7	-184900.0	170255.0	-284308.0	194.0
1274.114	893.7	169.6	-138200.0	-289438.0	-456320.0	-92.0
1274.115	1076.2	-125.2	-141400.0	231354.0	-599844.0	586.0
1274.116	838.7	-86.6	-109300.0	168259.0	-671207.0	412.0
1274.117	1078.1	-164.8	-138800.0	305371.0	-701943.0	691.0
1274.118	841.4	-61.8	-107500.0	204890.0	-772474.0	502.0
1274.119	1097.1	-125.2	-152800.0	219954.0	-563575.0	504.0
1274.120	858.5	-106.4	-120300.0	191789.0	-634746.0	336.0
1274.121	1155.5	-124.2	-141600.0	229351.0	-1119000.0	587.0
1274.122	918.1	-81.1	-109600.0	168119.0	-1190000.0	419.0
1274.123	1168.3	-122.6	-187700.0	233374.0	-441692.0	654.0
1274.124	930.2	-105.3	-155500.0	215358.0	-513335.0	469.0
1274.125	1125.2	15.4	-158900.0	-37883.0	-367810.0	95.0
1274.126	887.9	16.5	-125700.0	-46775.0	-444479.0	36.0
1274.127	1154.5	9.0	-165700.0	-46090.0	-321175.0	105.0
1274.128	917.7	6.8	-133000.0	-46867.0	-396698.0	-4.5
1274.129	1148.4	32.0	-170100.0	-63122.0	-333930.0	16.0
1274.130	910.5	29.6	-137200.0	-66931.0	-408864.0	-109.0
1274.131	1204.8	15.3	-159000.0	-39890.0	-887134.9	115.0
1274.132	966.5	18.3	-125800.0	-50440.0	-963930.0	22.0
1274.133	1216.5	7.0	-205400.0	-24823.0	-207235.0	85.0
1274.134	978.3	13.7	-172400.0	-36315.0	-280843.0	-44.0
1274.135	1214.5	-103.9	-228600.0	162745.0	-113642.0	1069.0
1274.136	974.7	-97.5	-195400.0	155709.0	-185482.0	887.0
1274.137	1279.3	-130.1	-266400.0	206613.0	32626.0	1200.0
1274.138	1039.2	-123.1	-233300.0	194632.0	-38047.0	1019.0
1274.139	1293.5	-103.4	-228600.0	162399.0	-633763.0	1060.0
1274.140	1053.6	-95.9	-195500.0	150599.0	-704644.0	881.0
1274.141	1307.7	-112.7	-275300.0	179430.0	42937.0	1105.0
1274.142	1067.6	-106.2	-242100.0	166755.0	-27859.0	922.0
1274.143	1256.5	-108.0	-252300.0	170552.0	-25592.0	1095.0
1274.144	1172.4	-99.8	-204600.0	159680.0	-202862.0	1037.0
1274.145	1016.9	-102.2	-219300.0	160264.0	-96482.0	919.0
1274.146	932.8	-95.3	-171600.0	150589.0	-273806.0	866.0
1274.147	1284.5	-110.9	-268200.0	175734.0	33149.0	1112.0
1274.148	1144.1	-98.0	-188600.0	155611.0	-261555.0	1021.0
1274.149	1044.9	-105.3	-235200.0	165739.0	-37696.0	937.0
1274.150	904.5	-91.9	-155700.0	144114.0	-332164.0	847.0
1274.151	1321.4	-134.7	-290200.0	214985.0	120668.0	1227.0
1274.152	1237.0	-126.2	-242500.0	201124.0	-55937.0	1170.0
1274.153	1081.6	-128.4	-257200.0	204023.0	50029.0	1051.0
1274.154	997.5	-123.9	-209400.0	194798.0	-127223.0	1002.0
1274.155	1336.0	-108.9	-252500.0	171882.0	-545893.0	1092.0
1274.156	1251.5	-102.5	-204600.0	162261.0	-723218.0	1038.0
1274.157	1095.9	-101.5	-219300.0	159793.0	-616733.0	911.0
1274.158	1011.9	-96.4	-171600.0	150654.0	-793826.0	866.0
1274.159	1349.6	-117.6	-299100.0	187619.0	131110.0	1131.0
1274.160	1265.2	-108.0	-251400.0	169238.0	-45121.0	1070.0
1274.161	1110.0	-111.1	-266100.0	177060.0	60399.0	957.0
1274.162	1025.6	-101.0	-218400.0	158484.0	-116017.0	896.0

1274.163	1210.8	-269.5	-219800.0	409302.0	-264280.0	1210.0
1274.164	971.7	-240.9	-187400.0	372383.0	-335777.0	1004.0
1274.165	1207.8	-206.5	-217100.0	418803.0	-364250.0	1179.0
1274.166	969.3	-148.5	-184800.0	327645.0	-435942.0	968.0
1274.167	1275.1	-308.0	-256700.0	467380.0	-117960.0	1328.0
1274.168	1036.1	-279.1	-224400.0	430156.0	-190328.0	1128.0
1274.169	1290.2	-285.5	-219900.0	441761.0	-784904.0	1209.0
1274.170	1051.1	-240.9	-187600.0	371344.0	-855105.0	1003.0
1274.171	1304.0	-275.5	-266100.0	419065.0	-106224.0	1352.0
1274.172	1064.0	-254.3	-233700.0	392493.0	-177452.0	1077.0
1274.173	1241.9	-114.5	-239600.0	161071.0	-4940.0	622.0
1274.174	1004.2	-109.1	-206600.0	149680.0	-80294.0	511.0
1274.175	1271.8	-133.8	-246900.0	168937.0	43877.0	579.0
1274.176	1034.5	-127.6	-214100.0	160768.0	-31023.0	442.0
1274.177	1303.7	-154.9	-277400.0	216540.0	147046.0	723.0
1274.178	1065.9	-145.7	-244500.0	202406.0	72410.0	606.0
1274.179	1320.5	-112.5	-239600.0	157366.0	-523804.0	611.0
1274.180	1083.0	-107.6	-206800.0	147665.0	-598846.0	502.0
1274.181	1334.4	-125.9	-286600.0	181476.0	155547.0	634.0
1274.182	1094.9	-119.4	-253400.0	166905.0	82142.0	472.0
1274.183	652.2	-9.0	-113800.0	-6188.0	-179417.0	735.0
1274.184	412.2	18.5	-80934.9	-20560.0	-250674.0	548.0
1274.185	731.4	-1.4	-114100.0	-11724.0	-699483.0	729.0
1274.186	491.7	19.3	-81215.0	-23431.0	-770609.0	547.0
1274.187	408.8	28.7	-114700.0	-32327.0	75887.0	774.0
1274.188	169.7	22.9	-81935.9	-26111.0	5988.0	611.0
1274.189	746.0	-44.1	-160600.0	17595.0	-22227.0	782.0
1274.190	506.3	-22.5	-127700.0	4102.0	-93219.0	607.0
1274.191	1081.1	189.1	-358100.0	-203754.0	721305.0	676.0
1274.192	846.6	-134.6	-324700.0	52143.0	651545.0	752.0
1274.193	975.6	128.9	-297900.0	-133687.0	498821.0	722.0
1274.194	740.3	-135.2	-264700.0	76525.0	428939.0	753.0
1274.195	1056.5	31.8	-298300.0	-10638.0	-22083.0	855.0
1274.196	819.7	-127.6	-265000.0	65653.0	-91226.0	742.0
1274.197	737.8	-144.5	-298500.0	76072.0	755223.0	1025.0
1274.198	498.1	-125.4	-265700.0	63788.0	684584.0	855.0
1274.199	1068.9	117.6	-344700.0	-113237.0	654672.0	756.0
1274.200	832.1	-48.2	-311100.0	-55317.0	586444.0	624.0
1274.201	721.5	-148.0	-149200.0	192990.0	-75397.0	505.0
1274.202	480.6	49.5	-117000.0	-141245.0	-139755.0	248.0
1274.203	742.3	-153.3	-160600.0	197333.0	-39682.0	392.0
1274.204	504.0	-120.8	-128300.0	152472.0	-110002.0	246.0
1274.205	801.1	-129.8	-149700.0	153202.0	-594809.0	506.0
1274.206	560.2	51.9	-117300.0	-145300.0	-660189.0	246.0
1274.207	477.0	64.7	-150700.0	-147417.0	187296.0	506.0
1274.208	237.3	80.9	-117900.0	-151513.0	116765.0	339.0
1274.209	814.1	-159.5	-195800.0	212188.0	80504.0	514.0
1274.210	573.0	71.0	-163600.0	-172778.0	16737.0	219.0
1274.211	850.1	-105.3	-228700.0	166276.0	266283.0	1227.0
1274.212	610.6	-99.9	-195800.0	156242.0	195779.0	1045.0
1274.213	915.3	-138.5	-266700.0	216146.0	412762.0	1378.0
1274.214	675.2	-129.2	-233600.0	201230.0	342359.0	1182.0
1274.215	929.4	-102.9	-228900.0	163063.0	-253688.0	1224.0
1274.216	689.9	-97.9	-196000.0	153226.0	-324207.0	1042.0
1274.217	607.6	-98.8	-229300.0	158243.0	520929.0	1291.0
1274.218	365.5	-75.6	-195600.0	128248.0	450061.0	1046.0
1274.219	943.2	-115.1	-275400.0	182550.0	423177.0	1275.0
1274.220	703.8	-108.3	-242600.0	171742.0	352534.0	1098.0
1274.221	1388.6	-40.5	-111600.0	84104.0	-990532.0	599.0
1274.222	1149.1	13.7	-78709.3	-9069.0	-1060000.0	403.0
1274.223	1467.5	7.2	-111900.0	2003.0	-1508000.0	563.0
1274.224	1228.3	6.8	-78864.3	-2245.0	-1579000.0	407.0

1274.225	1637.7	-43.3	-111000.0	87847.0	-1276000.0	603.0
1274.226	1397.9	29.9	-78072.4	-30704.0	-1345000.0	380.0
1274.227	1481.4	-90.8	-158200.0	184809.0	-835580.0	620.0
1274.228	1242.4	-71.3	-125400.0	146024.0	-906101.0	460.0
1274.229	1820.5	-168.4	-355900.0	330018.0	-94355.0	818.0
1274.230	1580.4	-172.7	-322700.0	340562.0	-164867.0	641.0
1274.231	1713.5	-131.6	-295700.0	266086.0	-315641.0	737.0
1274.232	1473.4	-117.3	-262500.0	236552.0	-384615.0	564.0
1274.233	1792.9	-127.0	-295900.0	261862.0	-834576.0	731.0
1274.234	1553.2	-112.1	-263000.0	232091.0	-904401.9	557.0
1274.235	1960.9	-136.8	-294900.0	272708.0	-598243.0	709.0
1274.236	1721.3	-119.7	-261900.0	240479.0	-668048.0	539.0
1274.237	1805.8	-132.8	-342200.0	267902.0	-158104.0	752.0
1274.238	1566.3	-119.0	-309300.0	242203.0	-227981.0	581.0
1274.239	1457.6	-131.2	-146300.0	156045.0	-886584.9	329.0
1274.240	1219.3	-96.8	-113800.0	111136.0	-958551.9	176.0
1274.241	1481.2	-134.8	-158000.0	155163.0	-854463.9	234.0
1274.242	1243.0	-101.9	-125500.0	112914.0	-926726.0	82.0
1274.243	1537.1	-129.2	-146600.0	152752.0	-1406000.0	327.0
1274.244	1298.8	-96.6	-114000.0	110752.0	-1478000.0	183.0
1274.245	1706.7	-116.6	-145800.0	124864.0	-1170000.0	332.0
1274.246	1468.3	-86.2	-113200.0	87363.0	-1242000.0	186.0
1274.247	1550.2	-145.6	-193000.0	177244.0	-729563.0	336.0
1274.248	1311.3	-113.3	-160300.0	136589.0	-801365.0	183.0
1274.249	1585.1	-102.4	-227600.0	161515.0	-536595.0	1002.0
1274.250	1345.7	-96.7	-194600.0	156762.0	-609084.0	825.0
1274.251	1650.0	-128.8	-265500.0	207936.0	-390927.0	1132.0
1274.252	1410.5	-123.9	-232500.0	197675.0	-461952.0	958.0
1274.253	1664.6	-103.0	-227800.0	164832.0	-1058000.0	997.0
1274.254	1424.4	-96.9	-194600.0	153098.0	-1128000.0	817.0
1274.255	1832.3	-102.4	-227100.0	163137.0	-819061.0	962.0
1274.256	1594.6	-162.2	-193900.0	223879.0	-894667.0	921.0
1274.257	1678.4	-111.7	-274400.0	181094.0	-380923.0	1038.0
1274.258	1438.4	-106.7	-241200.0	169066.0	-451784.0	855.0
1274.401	553.4	-112.9	-11882.3	518757.0	-1194000.0	1463.0
1274.402	668.8	-139.4	-53769.0	561768.0	-1055000.0	2607.0
1274.403	444.8	155.3	-27.7	104293.0	-880107.0	1360.0
1274.404	560.3	134.5	-41669.4	142044.0	-744006.0	2591.0
1274.405	964.3	-21.3	-145900.0	-158853.0	537442.0	-737.0
1274.406	1081.2	-47.4	-188800.0	-124282.0	681274.0	521.0
1274.407	877.6	-112.5	-134000.0	-91226.0	796619.0	-2055.0
1274.408	992.1	-130.8	-177300.0	-60245.0	942691.0	-797.0
1274.409	554.6	21.1	-12889.3	308315.0	-1215000.0	1313.0
1274.410	669.9	-36.1	-54928.5	391309.0	-1076000.0	2495.0
1274.411	438.8	-12.7	1192.8	351967.0	-857845.0	1591.0
1274.412	553.7	-3.5	-40438.1	350183.0	-721121.0	2779.0
1274.413	963.4	-47.3	-146100.0	-166154.0	516767.0	-780.0
1274.414	1080.6	-70.7	-189100.0	-133969.0	661761.0	483.0
1274.415	883.7	-98.2	-133200.0	-82474.0	809581.0	-2018.0
1274.416	999.0	-122.9	-176400.0	-43352.0	952749.0	-749.0
1274.417	566.8	-154.1	-151200.0	452911.0	-1273000.0	1531.0
1274.418	680.7	-129.5	-192900.0	455260.0	-1133000.0	2618.0
1274.419	454.1	79.2	-139500.0	42456.0	-960173.1	1360.0
1274.420	566.4	136.1	-181000.0	433.0	-820819.1	2487.0
1274.421	933.2	-6.0	992.4	-100116.0	626796.0	-827.0
1274.422	1051.5	-65.5	-42331.3	-49591.0	774463.0	452.0
1274.423	841.1	-26.8	13069.8	-61128.0	886468.0	-1910.0
1274.424	955.3	-66.6	-30656.6	-33221.0	1039000.0	-682.0
1274.425	569.4	-19.4	-151800.0	234161.0	-1297000.0	1353.0
1274.426	683.4	1.2	-193400.0	249826.0	-1157000.0	2445.0
1274.427	447.8	-88.8	-138300.0	303674.0	-939968.0	1565.0
1274.428	560.7	-46.0	-179700.0	285393.0	-801382.0	2716.0

1274.429	928.0	23.3	1211.6	-131586.0	611437.0	-873.0
1274.430	1045.9	-32.0	-42182.3	-87079.0	760501.0	405.0
1274.431	850.3	-53.0	13259.4	-33063.0	894663.0	-1833.0
1274.432	965.5	-114.5	-30352.4	19588.0	1045000.0	-566.0
1274.433	714.6	-325.7	-61276.8	584808.0	-715422.0	940.0
1274.434	827.0	-361.0	-103600.0	648374.0	-569089.0	2175.0
1274.435	404.2	467.9	-29093.6	-571300.0	215337.0	-67.0
1274.436	524.4	525.3	-71680.4	-643036.0	342347.0	1053.0
1274.437	829.3	-30.6	-94592.6	-39262.0	-220872.0	342.0
1274.438	942.1	-86.8	-137000.0	33329.0	-72649.0	1555.0
1274.439	580.5	-119.6	-67005.1	27415.0	617939.0	-2453.0
1274.440	697.0	-89.9	-110300.0	-11147.0	757253.0	-1117.0
1274.441	724.7	-271.4	-102700.0	526537.0	-757699.0	923.0
1274.442	837.9	-304.3	-145100.0	593034.0	-615019.0	2161.0
1274.443	406.2	391.7	-71073.0	-525718.0	191466.0	-47.0
1274.444	525.1	465.0	-113500.0	-610714.0	320337.0	1067.0
1274.445	815.6	-93.0	-51212.4	16400.0	-176946.0	330.0
1274.446	927.8	-151.3	-93987.4	93924.0	-24307.0	1556.0
1274.447	569.0	-33.2	-23083.5	-23964.0	645922.0	-2520.0
1274.448	685.9	-16.0	-66755.7	-59308.0	786817.0	-1173.0
1274.449	705.8	76.9	-64198.7	-14705.0	-767398.0	556.0
1274.450	818.9	91.2	-106900.0	-28534.0	-619813.0	1755.0
1274.451	381.6	-117.7	-15727.7	191766.0	255466.0	547.0
1274.452	500.1	-127.3	-56696.4	222726.0	381349.0	1732.0
1274.453	802.0	68.1	-95313.5	-189614.0	-227802.0	224.0
1274.454	915.7	73.1	-138400.0	-193446.0	-79143.0	1379.0
1274.455	574.1	-176.8	-64285.8	174410.0	672902.0	-2439.0
1274.456	691.5	-213.5	-106000.0	218818.0	806059.0	-1053.0
1274.457	716.0	71.4	-105700.0	-43025.0	-803451.0	569.0
1274.458	829.1	94.5	-148400.0	-62416.0	-657326.0	1763.0
1274.459	385.2	-155.5	-59994.4	192127.0	235399.0	570.0
1274.460	503.4	-172.5	-100700.0	229645.0	360721.0	1787.0
1274.461	786.3	97.1	-51434.6	-187773.0	-183396.0	175.0
1274.462	898.0	95.2	-94709.6	-189515.0	-26504.0	1334.0
1274.463	571.3	-210.5	-20722.1	209374.0	700981.0	-2383.0
1274.464	689.7	-263.4	-62829.2	260813.0	835298.1	-983.0
1274.529	480.7	-92.4	5231.9	238444.0	-580687.0	-923.0
1274.530	861.6	-186.8	-136400.0	407144.0	-100232.0	3111.0
1274.531	371.8	166.7	15655.8	-151877.0	-269184.0	-1242.0
1274.532	769.6	342.5	-125700.0	-372455.0	167495.0	3118.0
1274.533	599.5	27.8	-34399.8	-78544.0	-61356.0	-1569.0
1274.534	983.2	-61.9	-175900.0	33167.0	420692.0	2421.0
1274.535	511.4	-81.6	-23482.9	10096.0	211473.0	-3205.0
1274.536	896.6	-132.2	-168400.0	67919.0	690028.0	1432.0
1274.537	479.2	19.3	4335.9	68944.0	-597983.0	-1029.0
1274.538	859.4	-71.3	-137500.0	230451.0	-114574.0	3007.0
1274.539	364.5	-23.5	19040.9	117016.0	-252441.0	-941.0
1274.540	763.0	-12.4	-120800.0	145488.0	179206.0	3469.0
1274.541	598.3	6.6	-34435.2	-86533.0	-77218.0	-1606.0
1274.542	983.3	-24.5	-177500.0	-40092.0	418838.0	2356.0
1274.543	517.1	-62.8	-22804.3	16085.0	224227.0	-3212.0
1274.544	897.5	-144.9	-165800.0	129417.0	695073.0	1372.0
1274.545	488.5	-92.6	-36307.8	204057.0	-611053.0	-926.0
1274.546	866.3	-111.9	-177300.0	325317.0	-131595.0	3048.0
1274.547	376.1	116.3	-26457.6	-147979.0	-295888.0	-1208.0
1274.548	768.5	296.0	-167300.0	-331605.0	147552.0	3101.0
1274.549	591.3	11.2	9365.0	-50283.0	-30282.0	-1579.0
1274.550	978.0	-132.8	-133000.0	86785.0	451392.0	2419.0
1274.551	500.2	-32.0	20513.0	9442.0	234214.0	-3167.0
1274.552	885.3	-83.6	-125200.0	50149.0	724110.0	1425.0
1274.553	488.4	2.4	-37171.8	50215.0	-631573.0	-1022.0

1274.554	866.0	-20.9	-178500.0	170020.0	-149691.0	2959.0
1274.555	367.1	-45.5	-22980.5	89701.0	-277373.0	-978.0
1274.556	762.3	20.2	-162500.0	63635.0	157676.0	3380.0
1274.557	586.2	44.8	9977.3	-82958.0	-46043.0	-1643.0
1274.558	973.6	-7.3	-134000.0	-27969.0	450493.0	2335.0
1274.559	508.7	-51.5	20967.9	32548.0	245173.0	-3168.0
1274.560	891.4	-184.4	-123500.0	169797.0	726681.0	1449.0
1275.1	-1021.3	25.1	-112600.0	86515.0	-577795.0	-723.0
1275.2	-780.8	12.8	-79820.1	54017.0	-644463.0	-501.0
1275.3	-1100.7	-14.2	-113000.0	54221.0	-1098000.0	-638.0
1275.4	-860.8	-6.1	-80298.5	38230.0	-1165000.0	-463.0
1275.5	-1115.9	55.0	-159300.0	130145.0	-425600.0	-802.0
1275.6	-875.6	43.8	-126500.0	104431.0	-493222.0	-611.0
1275.7	-1451.3	-103.5	-355500.0	130570.0	303199.0	-759.0
1275.8	-1211.0	-112.3	-322600.0	104224.0	235932.0	-554.0
1275.9	-1345.1	-36.0	-295300.0	133927.0	87344.0	-751.0
1275.10	-1107.0	-8.8	-263000.0	140854.0	17993.0	-647.0
1275.11	-1425.6	-35.9	-295700.0	136405.0	-434515.0	-756.0
1275.12	-1185.7	-31.4	-263000.0	122582.0	-501858.0	-594.0
1275.13	-1440.3	-34.6	-342500.0	162517.0	239312.0	-807.0
1275.14	-1200.3	-34.3	-309700.0	145760.0	171294.0	-638.0
1275.15	-1060.2	-80.2	-136600.0	-3806.0	-484994.0	-521.0
1275.16	-978.7	14.0	-89015.0	59397.0	-662718.0	-655.0
1275.17	-822.6	0.1	-103400.0	60739.0	-558715.0	-514.0
1275.18	-738.4	1.8	-56241.7	29417.0	-729732.0	-450.0
1275.19	-1087.6	-89.6	-152200.0	-5229.0	-426646.0	-512.0
1275.20	-950.1	-6.3	-73285.7	33237.0	-719330.0	-598.0
1275.21	-848.3	-69.4	-119400.0	-2949.0	-495884.0	-380.0
1275.22	-710.4	6.0	-40550.8	21447.0	-786698.0	-435.0
1275.23	-1143.9	31.5	-136600.0	106291.0	-1014000.0	-760.0
1275.24	-1059.0	2.6	-89549.3	46224.0	-1183000.0	-616.0
1275.25	-903.1	2.6	-103800.0	64075.0	-1080000.0	-523.0
1275.26	-819.1	12.2	-56782.7	33923.0	-1251000.0	-455.0
1275.27	-1157.9	60.6	-182900.0	146161.0	-339556.0	-831.0
1275.28	-1073.6	46.9	-135700.0	111267.0	-511573.0	-769.0
1275.29	-917.9	51.0	-150100.0	122528.0	-407102.0	-643.0
1275.30	-833.3	36.6	-102800.0	86062.0	-579071.0	-578.0
1275.31	-1493.2	-110.5	-379100.0	139169.0	389343.0	-771.0
1275.32	-1410.8	-37.9	-332000.0	153749.0	217878.0	-788.0
1275.33	-1253.5	-101.1	-346300.0	127637.0	321485.0	-610.0
1275.34	-1170.4	-54.1	-299200.0	123039.0	150485.0	-579.0
1275.35	-1413.6	-99.8	-334500.0	119265.0	230486.0	-733.0
1275.36	-1275.5	-31.1	-256100.0	117199.0	-56619.0	-730.0
1275.37	-1174.0	-91.1	-301800.0	107855.0	162360.0	-572.0
1275.38	-1037.0	-7.3	-223600.0	120816.0	-125656.0	-615.0
1275.39	-1385.7	-95.9	-318800.0	113454.0	172845.0	-725.0
1275.40	-1303.5	-31.8	-271900.0	125004.0	917.0	-741.0
1275.41	-1146.1	-86.1	-286100.0	102465.0	104866.0	-564.0
1275.42	-1065.1	-8.3	-239400.0	128733.0	-68251.0	-628.0
1275.43	-1467.5	-39.2	-319300.0	146867.0	-348144.0	-771.0
1275.44	-1383.8	-32.4	-272100.0	126173.0	-520863.0	-742.0
1275.45	-1227.6	-34.9	-286600.0	132815.0	-415507.0	-608.0
1275.46	-1143.9	-27.4	-239400.0	112644.0	-588188.0	-580.0
1275.47	-1482.4	-37.2	-366200.0	173548.0	325489.0	-824.0
1275.48	-1398.2	-33.7	-318900.0	150453.0	153129.0	-790.0
1275.49	-1242.5	-34.0	-333400.0	158577.0	257530.0	-657.0
1275.50	-1158.2	-33.2	-286000.0	133855.0	85090.0	-621.0
1275.51	-1012.8	137.3	-107200.0	214229.0	-703793.0	-825.0
1275.52	-772.3	81.2	-74523.7	174007.0	-775303.0	-624.0
1275.53	-1007.2	94.8	-104300.0	222229.0	-797040.0	-850.0
1275.54	-764.9	68.0	-71829.7	170132.0	-866087.0	-662.0
1275.55	-1092.7	145.1	-107400.0	228537.0	-1224000.0	-836.0

1275.56	-852.1	81.0	-74804.8	174458.0	-1296000.0	-624.0
1275.57	-1106.0	165.3	-153500.0	260114.0	-548199.0	-892.0
1275.58	-865.1	116.1	-120700.0	244919.0	-619907.0	-686.0
1275.59	-1438.8	253.9	-347200.0	402414.0	184178.0	-1012.0
1275.60	-1199.5	234.9	-314700.0	374123.0	115080.0	-860.0
1275.61	-1332.7	258.7	-287400.0	435170.0	-36090.0	-990.0
1275.62	-1094.2	229.7	-255100.0	402857.0	-105574.0	-845.0
1275.63	-1338.8	359.4	-286900.0	460952.0	-121989.0	-1238.0
1275.64	-1098.7	325.6	-254300.0	424739.0	-192202.0	-1029.0
1275.65	-1413.7	252.7	-287900.0	442922.0	-557201.0	-1016.0
1275.66	-1174.4	230.6	-255300.0	404810.0	-626379.0	-848.0
1275.67	-1426.2	282.9	-333800.0	495410.0	118240.0	-1014.0
1275.68	-1187.1	238.7	-301400.0	408285.0	49798.0	-868.0
1275.69	-1076.1	5.2	-127700.0	49272.0	-506586.0	-408.0
1275.70	-837.5	17.7	-94683.7	49045.0	-578486.0	-294.0
1275.71	-1116.4	31.3	-137300.0	74954.0	-469416.0	-355.0
1275.72	-876.1	26.6	-104300.0	66077.0	-540016.0	-248.0
1275.73	-1156.5	5.3	-128200.0	50197.0	-1027000.0	-407.0
1275.74	-917.9	13.6	-95191.9	45722.0	-1099000.0	-287.0
1275.75	-1167.8	-24.5	-174400.0	50169.0	-349005.0	-357.0
1275.76	-929.4	-1.8	-141600.0	50434.0	-420225.0	-256.0
1275.77	-1499.8	-224.9	-371000.0	32380.0	389947.0	-109.0
1275.78	-1261.5	-157.5	-338400.0	51530.0	322845.0	-1.0
1275.79	-1394.5	-149.4	-311100.0	41732.0	172961.0	-146.0
1275.80	-1155.0	-135.8	-278100.0	37367.0	103686.0	-20.0
1275.81	-1433.4	-140.3	-320400.0	41778.0	212671.0	-135.0
1275.82	-1195.2	-100.3	-287700.0	48791.0	142324.0	-47.0
1275.83	-1474.9	-152.9	-311600.0	36862.0	-347269.0	-146.0
1275.84	-1235.5	-133.0	-278500.0	42922.0	-417681.0	-27.0
1275.85	-1487.7	-174.0	-358000.0	35459.0	328757.0	-135.0
1275.86	-1248.2	-158.2	-325000.0	38005.0	258979.0	-0.2
1275.87	-1076.5	-297.8	-147100.0	-424492.0	-455644.0	153.0
1275.88	-837.9	-264.6	-114500.0	-379148.0	-525051.0	218.0
1275.89	-1096.5	-358.6	-158700.0	-513950.0	-417984.0	300.0
1275.90	-857.9	-325.6	-126100.0	-469891.0	-487136.0	363.0
1275.91	-1161.6	95.6	-147000.0	173660.0	-986082.0	-249.0
1275.92	-918.3	-264.0	-114900.0	-377377.0	-1046000.0	211.0
1275.93	-1170.6	-249.5	-193700.0	-356834.0	-302391.0	101.0
1275.94	-930.9	-272.7	-161000.0	-383349.0	-371028.0	250.0
1275.95	-1122.8	116.0	-170000.0	207346.0	-378619.0	-231.0
1275.96	-1036.3	-232.4	-123700.0	-339097.0	-543735.0	35.0
1275.97	-879.0	-288.2	-138000.0	-410899.0	-437744.0	275.0
1275.98	-797.5	-206.7	-91115.7	-303967.0	-612949.0	109.0
1275.99	-1144.6	-323.4	-186000.0	-471561.0	-310502.0	253.0
1275.100	-1008.9	-220.3	-108000.0	-322824.0	-601810.0	1.9
1275.101	-905.9	-294.7	-153500.0	-429888.0	-379722.0	322.0
1275.102	-770.2	-199.2	-75542.7	-288675.0	-670933.0	72.0
1275.103	-1137.1	-366.3	-181900.0	-536088.0	-330987.0	364.0
1275.104	-1056.5	-286.1	-135300.0	-420312.0	-506217.0	170.0
1275.105	-898.5	-339.6	-149400.0	-498384.0	-400096.0	431.0
1275.106	-817.7	-260.2	-102700.0	-384520.0	-575266.0	244.0
1275.107	-1198.6	-267.6	-170800.0	-386915.0	-890515.1	131.0
1275.108	-1116.5	-232.6	-124000.0	-337353.0	-1065000.0	32.0
1275.109	-963.8	87.7	-137900.0	160569.0	-967821.0	-110.0
1275.110	-878.0	-207.4	-91500.3	-303039.0	-1134000.0	103.0
1275.111	-1210.7	-303.5	-217000.0	-439568.0	-214861.0	225.0
1275.112	-1129.3	-236.0	-170200.0	-338807.0	-389364.0	62.0
1275.113	-972.1	-280.7	-184500.0	-404472.0	-283906.0	300.0
1275.114	-889.6	-254.8	-137500.0	-360012.0	-458049.0	204.0
1275.115	-1077.3	170.7	-142400.0	228094.0	-588326.0	-743.0
1275.116	-837.6	153.0	-109800.0	215201.0	-658900.0	-558.0
1275.117	-1074.9	266.3	-139500.0	377541.0	-681132.0	-845.0

1275.118	-831.6	149.8	-106600.0	317009.0	-753289.0	-606.0
1275.119	-1099.7	191.4	-154000.0	224227.0	-550468.0	-774.0
1275.120	-859.0	212.6	-121100.0	292278.0	-621896.0	-532.0
1275.121	-1157.3	171.0	-142700.0	229091.0	-1109000.0	-746.0
1275.122	-916.9	139.5	-110000.0	211957.0	-1179000.0	-545.0
1275.123	-1171.2	175.0	-188800.0	239496.0	-432772.0	-840.0
1275.124	-930.3	133.5	-156200.0	201910.0	-502941.0	-589.0
1275.125	-1134.3	-159.7	-159800.0	-87009.0	-393540.0	-63.0
1275.126	-895.8	-120.7	-127100.0	-76447.0	-463558.0	27.0
1275.127	-1176.4	-37.3	-170200.0	-26712.0	-352744.0	-106.0
1275.128	-937.9	-30.5	-137200.0	-28782.0	-425248.0	-4.3
1275.129	-1152.3	-190.4	-170500.0	-121188.0	-351851.0	99.0
1275.130	-914.9	-174.6	-137600.0	-123513.0	-425971.0	143.0
1275.131	-1213.6	-158.3	-160300.0	-84239.0	-911463.9	6.5
1275.132	-976.8	-98.9	-127700.0	-69663.0	-983546.0	21.0
1275.133	-1225.8	-153.1	-206700.0	-68485.0	-232878.0	36.0
1275.134	-987.3	-137.6	-173900.0	-68097.0	-304194.0	138.0
1275.135	-1228.2	166.6	-230100.0	319122.0	-145574.0	-1209.0
1275.136	-986.3	123.0	-197000.0	262149.0	-211498.0	-937.0
1275.137	-1295.1	201.0	-268300.0	384251.0	-3538.0	-1341.0
1275.138	-1053.5	154.8	-235400.0	325231.0	-69578.0	-1066.0
1275.139	-1307.7	134.5	-230400.0	291966.0	-665938.0	-1141.0
1275.140	-1066.5	103.5	-197500.0	246296.0	-732521.0	-898.0
1275.141	-1321.9	150.1	-276800.0	331077.0	7256.0	-1219.0
1275.142	-1081.9	163.9	-244000.0	315016.0	-59482.0	-1037.0
1275.143	-1270.9	179.2	-253800.0	343666.0	-60081.0	-1259.0
1275.144	-1184.2	125.7	-206200.0	269161.0	-229877.0	-1094.0
1275.145	-1030.0	161.4	-220800.0	309981.0	-127036.0	-1046.0
1275.146	-943.6	115.4	-173300.0	241591.0	-297051.0	-895.0
1275.147	-1299.3	186.1	-269600.0	358707.0	-3043.0	-1290.0
1275.148	-1155.3	101.8	-190400.0	239027.0	-286269.0	-1026.0
1275.149	-1058.5	169.6	-236700.0	326106.0	-69967.0	-1079.0
1275.150	-914.9	96.5	-157500.0	215619.0	-353594.0	-838.0
1275.151	-1337.8	213.9	-292000.0	409157.0	81992.0	-1392.0
1275.152	-1251.3	158.1	-244500.0	332686.0	-87907.0	-1224.0
1275.153	-1097.0	195.8	-259100.0	374949.0	15124.0	-1178.0
1275.154	-1010.6	147.2	-211600.0	304368.0	-155009.0	-1023.0
1275.155	-1351.3	179.8	-254100.0	345218.0	-581473.0	-1261.0
1275.156	-1264.1	104.8	-206600.0	251865.0	-750601.0	-1050.0
1275.157	-1109.6	131.2	-221200.0	284388.0	-647561.0	-981.0
1275.158	-1023.7	98.9	-173700.0	228017.0	-818009.0	-861.0
1275.159	-1364.4	156.6	-300500.0	350438.0	93004.0	-1257.0
1275.160	-1280.1	168.8	-253200.0	323652.0	-78118.0	-1198.0
1275.161	-1123.9	146.7	-267600.0	323249.0	25906.0	-1059.0
1275.162	-1039.3	153.4	-220300.0	293305.0	-145255.0	-995.0
1275.163	-1210.4	209.4	-219300.0	366040.0	-273081.0	-1105.0
1275.164	-971.0	156.5	-187200.0	272611.0	-341470.0	-894.0
1275.165	-1207.1	159.4	-217300.0	350400.0	-363542.0	-1124.0
1275.166	-969.2	163.2	-184800.0	344858.0	-434567.0	-970.0
1275.167	-1277.2	237.5	-256100.0	417137.0	-132932.0	-1305.0
1275.168	-1036.7	179.9	-224200.0	309237.0	-199347.0	-1027.0
1275.169	-1290.2	209.3	-219500.0	366378.0	-793641.0	-1106.0
1275.170	-1051.0	156.5	-187500.0	272684.0	-861701.9	-904.0
1275.171	-1304.9	216.0	-265700.0	382526.0	-117785.0	-1225.0
1275.172	-1064.7	201.3	-233300.0	357454.0	-187217.0	-984.0
1275.173	-1275.2	3.3	-244500.0	155538.0	-65126.0	-543.0
1275.174	-1036.6	27.5	-211600.0	154797.0	-136019.0	-431.0
1275.175	-1316.4	71.6	-254400.0	188519.0	-26129.0	-529.0
1275.176	-1077.7	81.0	-221400.0	185918.0	-97867.0	-406.0
1275.177	-1340.9	10.0	-283100.0	189495.0	80046.0	-585.0
1275.178	-1101.9	28.0	-250000.0	191899.0	8449.0	-488.0
1275.179	-1356.1	21.3	-245200.0	164237.0	-585388.0	-551.0

1275.180	-1117.1	27.8	-212100.0	155821.0	-656988.0	-440.0
1275.181	-1366.4	-35.3	-291400.0	155311.0	93443.0	-438.0
1275.182	-1129.4	23.8	-258600.0	173049.0	21047.0	-415.0
1275.183	-1409.0	53.3	-112600.0	72142.0	-1052000.0	-509.0
1275.184	-1169.4	38.0	-79934.6	56052.0	-1121000.0	-372.0
1275.185	-1490.0	56.1	-113100.0	75982.0	-1574000.0	-522.0
1275.186	-1250.2	42.0	-80378.7	59433.0	-1642000.0	-379.0
1275.187	-1668.5	53.2	-112700.0	78945.0	-1371000.0	-481.0
1275.188	-1428.4	41.9	-79636.7	60977.0	-1439000.0	-337.0
1275.189	-1502.7	72.1	-159200.0	93202.0	-898838.9	-503.0
1275.190	-1262.8	57.6	-126400.0	77165.0	-967137.0	-360.0
1275.191	-1837.1	-168.1	-355400.0	62471.0	-169762.0	-435.0
1275.192	-1600.6	151.8	-322400.0	175159.0	-234352.0	-329.0
1275.193	-1731.3	-137.1	-295500.0	55146.0	-387963.0	-446.0
1275.194	-1494.1	124.5	-262500.0	145115.0	-453186.0	-333.0
1275.195	-1812.7	-132.1	-296300.0	60562.0	-910013.9	-465.0
1275.196	-1574.8	126.3	-263000.0	147446.0	-975128.0	-341.0
1275.197	-1993.1	142.9	-295100.0	168248.0	-704037.0	-424.0
1275.198	-1753.2	127.1	-262300.0	150889.0	-772274.0	-277.0
1275.199	-1824.8	-160.4	-342300.0	61773.0	-235524.0	-445.0
1275.200	-1587.1	144.4	-308900.0	165248.0	-299522.0	-321.0
1275.201	-1468.4	-73.9	-146400.0	-132280.0	-938998.1	-63.0
1275.202	-1230.0	-75.9	-114100.0	-129243.0	-1008000.0	50.0
1275.203	-1485.4	-302.6	-158100.0	-439679.0	-898254.0	319.0
1275.204	-1249.1	-131.1	-125400.0	-214181.0	-970412.0	200.0
1275.205	-1549.5	-58.8	-146800.0	-110369.0	-1462000.0	-87.0
1275.206	-1310.7	-70.5	-114500.0	-121273.0	-1531000.0	39.0
1275.207	-1729.3	-40.6	-146600.0	-64745.0	-1259000.0	-78.0
1275.208	-1489.7	-41.1	-113900.0	-57361.0	-1327000.0	43.0
1275.209	-1562.0	-89.1	-193100.0	-147665.0	-785305.0	-31.0
1275.210	-1323.7	-64.9	-160700.0	-110907.0	-854892.0	51.0
1275.211	-1612.2	37.9	-229700.0	209235.0	-619000.0	-827.0
1275.212	-1372.2	48.0	-196800.0	199637.0	-686747.0	-675.0
1275.213	-1680.5	118.4	-267800.0	316146.0	-479149.0	-1058.0
1275.214	-1438.9	69.9	-235200.0	253408.0	-544235.0	-778.0
1275.215	-1692.9	38.9	-230100.0	211053.0	-1141000.0	-834.0
1275.216	-1452.9	47.3	-197300.0	199513.0	-1208000.0	-677.0
1275.217	-1870.7	34.9	-229500.0	208221.0	-937319.1	-757.0
1275.218	-1632.9	138.9	-197300.0	240830.0	-1003000.0	-661.0
1275.219	-1706.1	27.3	-276400.0	225759.0	-466409.0	-846.0
1275.220	-1466.3	35.8	-243500.0	215735.0	-534309.0	-693.0
1275.221	-647.3	-64.0	-113900.0	-937.0	-153888.0	-536.0
1275.222	-409.9	18.8	-80857.5	57508.0	-225993.0	-532.0
1275.223	-729.2	-14.9	-114100.0	52399.0	-678501.0	-637.0
1275.224	-489.6	5.6	-81366.4	43978.0	-744827.0	-492.0
1275.225	-401.0	-67.7	-114500.0	-4696.0	123683.0	-585.0
1275.226	-162.3	-37.6	-81632.7	2015.0	54544.0	-475.0
1275.227	-740.5	-73.0	-160600.0	5235.0	533.0	-523.0
1275.228	-501.0	-58.0	-127700.0	4316.0	-67960.0	-394.0
1275.229	-1081.0	-78.4	-356800.0	149697.0	720328.0	-817.0
1275.230	-839.2	-116.3	-323700.0	98347.0	654987.0	-549.0
1275.231	-970.4	-180.5	-297600.0	-14473.0	516731.0	-452.0
1275.232	-735.4	-13.7	-264000.0	134254.0	436973.0	-642.0
1275.233	-1050.6	-180.5	-297900.0	-14541.0	-3660.0	-460.0
1275.234	-811.0	-159.9	-265100.0	-11896.0	-72087.0	-332.0
1275.235	-722.9	-183.2	-298300.0	-16871.0	796171.0	-463.0
1275.236	-483.6	-157.4	-265200.0	-7895.0	726640.0	-359.0
1275.237	-1068.7	-39.0	-343500.0	155999.0	657473.0	-798.0
1275.238	-828.5	-36.9	-310700.0	140685.0	590512.0	-634.0
1275.239	-705.1	-302.0	-148300.0	-430460.0	-35176.0	132.0
1275.240	-466.6	-268.5	-115700.0	-384981.0	-104725.0	191.0
1275.241	-724.7	-361.9	-159900.0	-518889.0	3019.0	290.0

1275.242	-486.2	-326.8	-127300.0	-471672.0	-66449.0	347.0
1275.243	-785.2	-300.9	-148600.0	-428489.0	-555810.0	138.0
1275.244	-546.8	-268.2	-116000.0	-383746.0	-625581.0	195.0
1275.245	-459.3	-303.9	-149100.0	-432812.0	242672.0	73.0
1275.246	-220.8	-270.2	-116500.0	-387355.0	173116.0	136.0
1275.247	-803.1	108.3	-194400.0	198819.0	109858.0	-246.0
1275.248	-559.8	-274.5	-162300.0	-387603.0	49491.0	222.0
1275.249	-857.2	168.1	-231100.0	318814.0	272254.0	-1218.0
1275.250	-616.2	151.1	-198000.0	284531.0	205191.0	-1008.0
1275.251	-924.0	203.7	-269300.0	384341.0	414408.0	-1352.0
1275.252	-683.4	185.3	-236300.0	349955.0	346988.0	-1146.0
1275.253	-937.3	168.4	-231400.0	319756.0	-248899.0	-1212.0
1275.254	-695.5	104.1	-198500.0	245197.0	-314934.0	-912.0
1275.255	-610.4	168.5	-231700.0	318021.0	549823.0	-1250.0
1275.256	-369.8	152.7	-198600.0	284672.0	482414.0	-1059.0
1275.257	-950.7	150.6	-277700.0	330205.0	425137.0	-1223.0
1275.258	-710.9	165.4	-245000.0	314749.0	358057.0	-1048.0
1275.401	-80.6	-1718.1	1484.1	178582.0	-796204.0	-1692.0
1275.402	-280.9	-1673.8	-40377.3	197183.0	-683336.0	-2912.0
1275.403	-173.5	-1419.7	-10678.4	399249.0	-1015000.0	-1523.0
1275.404	-370.6	-1369.9	-52804.9	428845.0	-896929.0	-2569.0
1275.405	-1224.6	1537.8	-146600.0	-123944.0	571879.0	1675.0
1275.406	-1421.5	1575.6	-189800.0	-95355.0	693692.0	774.0
1275.407	-1293.9	1539.3	-160500.0	-196632.0	431266.0	723.0
1275.408	-1490.1	1578.2	-203600.0	-165609.0	551384.0	-403.0
1275.409	-72.1	-1526.4	2534.7	270134.0	-793382.0	-1553.0
1275.410	-269.6	-1491.2	-39156.1	282505.0	-679750.0	-2707.0
1275.411	-176.5	-1471.9	-11552.1	523859.0	-1013000.0	-1726.0
1275.412	-372.8	-1545.8	-54118.0	363896.0	-892212.0	-2665.0
1275.413	-1218.2	1615.3	-146400.0	-123275.0	570538.0	1819.0
1275.414	-1414.9	1660.8	-189600.0	-85725.0	691935.0	1011.0
1275.415	-1300.7	1454.0	-161300.0	-195049.0	442074.0	674.0
1275.416	-1497.4	1497.4	-204500.0	-160777.0	561204.0	-481.0
1275.417	3.3	-1760.2	11937.3	-633477.0	-612859.0	-1315.0
1275.418	-200.6	-1759.1	-30417.9	-681689.0	-501347.0	-2628.0
1275.419	-85.3	-1302.2	1406.7	-161619.0	-832903.0	-1286.0
1275.420	-283.2	-1269.0	-41099.7	-160540.0	-712686.0	-2345.0
1275.421	-1280.8	1349.3	-164000.0	350073.0	448757.0	1382.0
1275.422	-1477.7	1425.7	-207200.0	417299.0	571035.0	560.0
1275.423	-1347.6	1278.6	-177300.0	199884.0	301774.0	534.0
1275.424	-1541.6	1312.1	-219800.0	225641.0	425165.0	-546.0
1275.425	7.1	-1473.8	13949.5	-421914.0	-612742.0	-1364.0
1275.426	-195.0	-1468.1	-28338.8	-459129.0	-498600.0	-2550.0
1275.427	-87.3	-1506.8	-12.7	-258490.0	-830017.0	-1358.0
1275.428	-285.9	-1467.3	-42495.2	-246571.0	-710848.0	-2440.0
1275.429	-1275.8	1477.8	-164700.0	381450.0	448483.0	1539.0
1275.430	-1473.8	1531.3	-207800.0	425969.0	566674.0	756.0
1275.431	-1354.4	1180.3	-177500.0	201589.0	305924.0	464.0
1275.432	-1548.5	1205.9	-220200.0	217788.0	429770.0	-638.0
1275.433	-301.2	-1044.3	-22401.4	-411526.0	65281.0	-1320.0
1275.434	-502.9	-1019.1	-64888.7	-424018.0	174088.0	-2429.0
1275.435	-566.3	-72.0	-60295.3	404276.0	-539567.0	-917.0
1275.436	-761.5	-44.2	-102900.0	434427.0	-419224.0	-1979.0
1275.437	-644.7	455.5	-66857.0	129324.0	452430.0	2623.0
1275.438	-845.8	522.8	-110400.0	161870.0	565905.0	1507.0
1275.439	-883.8	557.5	-102400.0	-92928.0	-77517.0	-413.0
1275.440	-1078.5	611.8	-145300.0	-46899.0	44066.0	-1534.0
1275.441	-289.1	-1029.3	-20775.4	-578202.0	103927.0	-1320.0
1275.442	-491.6	-1009.9	-63369.4	-599264.0	210089.0	-2420.0
1275.443	-541.2	-5.8	-56747.8	255809.0	-488116.0	-854.0
1275.444	-737.6	59.7	-99335.9	336418.0	-367614.0	-1951.0

1275.445	-662.2	425.9	-71766.2	271946.0	415234.0	2577.0
1275.446	-862.4	494.0	-114900.0	311693.0	528894.0	1501.0
1275.447	-898.6	453.7	-107400.0	13302.0	-113256.0	-466.0
1275.448	-1092.6	510.8	-150000.0	62966.0	7207.0	-1589.0
1275.449	-238.0	-312.2	-13555.9	-7115.0	110379.0	-120.0
1275.450	-437.7	-282.7	-55741.7	3147.0	219889.0	-1147.0
1275.451	-569.0	-646.3	-66757.5	189153.0	-516583.0	-1161.0
1275.452	-765.2	-590.3	-109600.0	229564.0	-393983.0	-2236.0
1275.453	-645.2	862.3	-66747.6	192266.0	410098.0	3345.0
1275.454	-846.1	934.2	-109600.0	245237.0	518862.0	2250.0
1275.455	-871.8	198.9	-105000.0	-118420.0	-18377.0	-650.0
1275.456	-1066.5	255.2	-149000.0	-82913.0	113633.0	-1789.0
1275.457	-223.9	-314.5	-11449.6	-210891.0	152493.0	-78.0
1275.458	-424.2	-293.9	-53740.6	-211322.0	260867.0	-1111.0
1275.459	-542.7	-636.4	-63202.0	-4296.0	-464335.0	-1067.0
1275.460	-740.1	-545.6	-106100.0	83769.0	-343007.0	-2178.0
1275.461	-664.0	826.3	-72368.4	330286.0	374547.0	3311.0
1275.462	-864.5	894.5	-114800.0	382302.0	485285.0	2232.0
1275.463	-893.4	135.8	-109500.0	10755.0	-57744.0	-708.0
1275.464	-1087.5	188.7	-153200.0	50516.0	73880.0	-1851.0
1275.529	-149.2	-703.0	17333.3	-83268.0	-254862.0	699.0
1275.530	-819.5	-698.6	-123400.0	-204823.0	108326.0	-3482.0
1275.531	-240.1	-392.1	5563.3	175315.0	-465925.0	784.0
1275.532	-897.4	-205.2	-136000.0	355625.0	-68392.0	-2828.0
1275.533	-499.9	388.5	-25392.9	-36665.0	123220.0	2190.0
1275.534	-1158.1	687.5	-171600.0	192652.0	536495.0	-867.0
1275.535	-576.0	434.2	-39176.7	-87608.0	-21969.0	1407.0
1275.536	-1224.4	553.8	-181600.0	-12595.0	375532.0	-2134.0
1275.537	-133.2	-465.9	19418.7	59504.0	-243751.0	894.0
1275.538	-801.1	-449.9	-120700.0	-25369.0	120405.0	-3257.0
1275.539	-241.1	-573.0	3974.0	107686.0	-459859.0	723.0
1275.540	-899.8	-355.2	-137900.0	305806.0	-59403.0	-2981.0
1275.541	-498.4	506.1	-25662.4	-16577.0	118248.0	2350.0
1275.542	-1163.1	771.3	-170100.0	194601.0	512172.0	-539.0
1275.543	-582.5	333.0	-39842.4	-92962.0	-13442.0	1363.0
1275.544	-1225.5	470.0	-183800.0	-19038.0	401194.0	-2282.0
1275.545	-131.4	-681.7	19527.5	-268893.0	-204796.0	662.0
1275.546	-805.3	-749.1	-121800.0	-502809.0	157654.0	-3403.0
1275.547	-213.9	-351.7	9267.6	9911.0	-413989.0	860.0
1275.548	-872.2	-125.6	-132700.0	237311.0	-12227.0	-2790.0
1275.549	-520.9	348.7	-31004.1	106891.0	82130.0	2177.0
1275.550	-1177.6	677.0	-176000.0	353750.0	490961.0	-925.0
1275.551	-593.8	352.4	-44392.6	30919.0	-66970.0	1340.0
1275.552	-1237.2	433.8	-185900.0	86595.0	341252.0	-2180.0
1275.553	-116.2	-452.5	22032.2	-144693.0	-196131.0	873.0
1275.554	-788.1	-446.0	-119100.0	-249287.0	166314.0	-3215.0
1275.555	-214.4	-555.9	7629.9	-85571.0	-407627.0	818.0
1275.556	-874.9	-359.0	-134700.0	73046.0	-6113.0	-2888.0
1275.557	-517.5	458.6	-32093.0	124108.0	83624.0	2278.0
1275.558	-1181.2	704.7	-175300.0	336393.0	470726.0	-626.0
1275.559	-600.1	237.2	-44769.8	19637.0	-58005.0	1299.0
1275.560	-1240.7	341.6	-187300.0	77822.0	356646.0	-2289.0
1276.1	-1525.8	-24.2	-69724.6	15602.0	-897196.0	892.0
1276.2	-1116.2	-4.8	-49491.6	8566.0	-794011.0	944.0
1276.3	-1591.9	6.1	-70104.9	5675.0	-1284000.0	1056.0
1276.4	-1182.1	6.7	-49894.7	3352.0	-1180000.0	1118.0
1276.5	-2041.4	-40.5	-98478.7	22553.0	-1181000.0	4027.0
1276.6	-1630.7	-31.8	-78196.6	18444.0	-1078000.0	4084.0
1276.7	-4118.2	-6.4	-219500.0	-1829.0	-2312000.0	-8260.0
1276.8	-3708.3	9.1	-199200.0	-7387.0	-2209000.0	-8208.0
1276.9	-3478.1	-9.0	-182400.0	4679.0	-1963000.0	-6010.0
1276.10	-3070.2	-25.0	-162400.0	10935.0	-1861000.0	-5957.0

1276.11	-3542.8	-6.1	-182800.0	6479.0	-2349000.0	-5848.0
1276.12	-3132.5	-5.3	-162500.0	5964.0	-2245000.0	-5791.0
1276.13	-3997.7	-10.8	-211400.0	7463.0	-2249000.0	-2882.0
1276.14	-3586.6	-10.2	-191100.0	6159.0	-2145000.0	-2825.0
1276.15	-1782.1	198.7	-84972.0	32931.0	-1034000.0	-309.0
1276.16	-1275.0	-5.1	-55217.6	9575.0	-760228.0	1777.0
1276.17	-1367.6	-5.3	-64014.7	8081.0	-931029.0	57.0
1276.18	-864.9	3.8	-34979.3	3057.0	-656855.0	1840.0
1276.19	-1949.5	220.9	-94689.8	35921.0	-1125000.0	-936.0
1276.20	-1107.5	6.4	-45544.1	2685.0	-668746.0	2377.0
1276.21	-1538.2	173.8	-74266.5	28944.0	-1022000.0	-807.0
1276.22	-697.3	6.4	-25326.4	2778.0	-565430.0	2431.0
1276.23	-1842.1	-28.2	-84584.7	19524.0	-1421000.0	167.0
1276.24	-1341.5	6.3	-55659.0	4640.0	-1147000.0	1948.0
1276.25	-1432.6	-4.1	-64362.7	9830.0	-1317000.0	222.0
1276.26	-931.0	5.0	-35414.5	4515.0	-1044000.0	2006.0
1276.27	-2292.7	-48.5	-113000.0	24540.0	-1318000.0	3142.0
1276.28	-1789.4	-33.7	-83915.9	19928.0	-1044000.0	4917.0
1276.29	-1882.8	-39.0	-92765.8	20803.0	-1215000.0	3196.0
1276.30	-1378.6	-24.8	-63627.2	15936.0	-940063.9	4972.0
1276.31	-4370.2	-6.8	-234100.0	-2031.0	-2450000.0	-9148.0
1276.32	-3868.9	-10.4	-205000.0	5667.0	-2177000.0	-7389.0
1276.33	-3959.8	-6.7	-213800.0	-2148.0	-2346000.0	-9093.0
1276.34	-3458.6	4.8	-184700.0	-361.0	-2073000.0	-7335.0
1276.35	-3895.3	-5.8	-206600.0	-2313.0	-2189000.0	-7474.0
1276.36	-3059.1	-6.9	-158200.0	4778.0	-1735000.0	-4531.0
1276.37	-3485.2	-5.6	-186400.0	-2376.0	-2086000.0	-7420.0
1276.38	-2650.3	-20.5	-138100.0	9804.0	-1633000.0	-4477.0
1276.39	-3727.5	-5.3	-196900.0	-2135.0	-2098000.0	-6883.0
1276.40	-3227.2	-7.6	-167900.0	5051.0	-1826000.0	-5124.0
1276.41	-3317.4	-5.2	-176700.0	-2117.0	-1995000.0	-6829.0
1276.42	-2818.4	-22.2	-147800.0	10256.0	-1724000.0	-5069.0
1276.43	-3794.7	-7.0	-197300.0	6599.0	-2486000.0	-6736.0
1276.44	-3291.0	-5.2	-168200.0	6432.0	-2212000.0	-4960.0
1276.45	-3384.3	-6.2	-177100.0	6031.0	-2382000.0	-6679.0
1276.46	-2880.7	-4.5	-148000.0	5955.0	-2108000.0	-4904.0
1276.47	-4249.9	-11.7	-226000.0	7765.0	-2386000.0	-3772.0
1276.48	-3745.3	-9.9	-196900.0	6908.0	-2111000.0	-1992.0
1276.49	-3839.1	-11.1	-205700.0	6876.0	-2283000.0	-3715.0
1276.50	-3334.3	-9.2	-176600.0	5685.0	-2008000.0	-1935.0
1276.51	-1393.0	-177.4	-69450.5	-144568.0	-871494.1	-1924.0
1276.52	-978.6	-165.3	-49467.9	-139396.0	-767407.0	-1976.0
1276.53	-1298.5	-254.2	-70217.1	-216353.0	-855309.0	-4122.0
1276.54	-886.5	-229.7	-50375.0	-195752.0	-751670.0	-4230.0
1276.55	-1457.4	-181.4	-69613.5	-148041.0	-1257000.0	-1720.0
1276.56	-1043.3	-164.2	-49674.5	-138606.0	-1153000.0	-1791.0
1276.57	-1909.2	-192.1	-97770.6	-161601.0	-1154000.0	1390.0
1276.58	-1493.6	-193.7	-77650.8	-168149.0	-1049000.0	1383.0
1276.59	-3964.4	-250.5	-217200.0	-235647.0	-2267000.0	-10322.0
1276.60	-3554.7	-240.1	-197100.0	-223678.0	-2165000.0	-10339.0
1276.61	-3325.1	-286.1	-180200.0	-255591.0	-1920000.0	-8011.0
1276.62	-2918.6	-268.8	-160300.0	-239387.0	-1820000.0	-8069.0
1276.63	-3269.5	-321.9	-181800.0	-257800.0	-1928000.0	-10437.0
1276.64	-2857.3	-313.3	-161800.0	-249949.0	-1825000.0	-10494.0
1276.65	-3393.1	-286.1	-180500.0	-256710.0	-2308000.0	-7820.0
1276.66	-2983.5	-268.1	-160500.0	-238812.0	-2206000.0	-7884.0
1276.67	-3841.5	-313.6	-208700.0	-283954.0	-2203000.0	-4734.0
1276.68	-3432.3	-261.9	-188800.0	-240255.0	-2101000.0	-4874.0
1276.69	-1695.6	272.0	-79504.3	99516.0	-983162.0	1411.0
1276.70	-1281.8	231.4	-59073.7	92661.0	-879873.1	1602.0
1276.71	-1801.2	365.0	-85649.9	147972.0	-1041000.0	2060.0
1276.72	-1387.6	322.4	-65220.8	135921.0	-936833.0	2283.0

1276.73	-1761.5	273.7	-79904.0	100520.0	-1370000.0	1564.0
1276.74	-1347.9	240.3	-59477.4	93915.0	-1266000.0	1749.0
1276.75	-2213.1	310.4	-108300.0	103329.0	-1265000.0	4387.0
1276.76	-1800.9	283.4	-87993.5	101013.0	-1163000.0	4559.0
1276.77	-4294.8	446.3	-229800.0	103558.0	-2394000.0	-8395.0
1276.78	-3885.6	418.7	-209600.0	106405.0	-2292000.0	-8295.0
1276.79	-3655.2	431.5	-192800.0	112103.0	-2045000.0	-6106.0
1276.80	-3242.7	403.3	-172400.0	107656.0	-1941000.0	-5971.0
1276.81	-3761.8	599.3	-198800.0	173908.0	-2102000.0	-5552.0
1276.82	-3351.1	567.8	-178500.0	171869.0	-2000000.0	-5379.0
1276.83	-3721.2	473.3	-193400.0	123473.0	-2431000.0	-6018.0
1276.84	-3308.0	377.9	-172700.0	102607.0	-2327000.0	-5763.0
1276.85	-4173.6	577.6	-222100.0	147246.0	-2329000.0	-3269.0
1276.86	-3760.8	485.6	-201500.0	124791.0	-2225000.0	-3021.0
1276.87	-1865.1	47.4	-91524.5	-54224.0	-1072000.0	-1145.0
1276.88	-1454.1	42.8	-71438.3	-50681.0	-968970.0	-1103.0
1276.89	-1975.6	57.5	-98926.6	-68398.0	-1130000.0	-1830.0
1276.90	-1564.6	54.4	-78856.3	-63334.0	-1026000.0	-1794.0
1276.91	-1924.0	-129.4	-91622.5	-165186.0	-1458000.0	-538.0
1276.92	-1519.4	43.2	-71693.0	-50182.0	-1355000.0	-932.0
1276.93	-2381.3	49.6	-120200.0	-56851.0	-1356000.0	1990.0
1276.94	-1970.4	47.1	-100000.0	-55705.0	-1253000.0	2046.0
1276.95	-2110.3	-146.2	-105800.0	-180889.0	-1208000.0	-1541.0
1276.96	-1612.8	42.4	-77170.5	-49927.0	-935323.1	-276.0
1276.97	-1706.4	45.4	-85867.5	-53772.0	-1106000.0	-1980.0
1276.98	-1201.8	38.6	-57077.7	-45748.0	-831926.9	-236.0
1276.99	-2283.3	51.1	-115500.0	-58297.0	-1299000.0	-2609.0
1276.100	-1444.6	40.9	-67545.1	-47703.0	-843797.0	309.0
1276.101	-1872.5	46.3	-95425.6	-55403.0	-1196000.0	-2565.0
1276.102	-1034.5	37.6	-47481.4	-43866.0	-740987.0	349.0
1276.103	-2225.4	56.8	-113300.0	-72426.0	-1265000.0	-2702.0
1276.104	-1723.3	52.8	-84596.5	-62825.0	-992930.0	-967.0
1276.105	-1814.7	55.2	-93208.6	-66957.0	-1162000.0	-2667.0
1276.106	-1312.2	48.8	-64500.3	-58812.0	-889363.9	-926.0
1276.107	-2180.9	48.0	-106200.0	-55298.0	-1595000.0	-1860.0
1276.108	-1677.1	42.8	-77387.7	-49894.0	-1321000.0	-103.0
1276.109	-1765.5	-123.9	-85980.0	-159738.0	-1492000.0	-1393.0
1276.110	-1267.2	39.4	-57348.4	-45322.0	-1218000.0	-65.0
1276.111	-2632.0	54.5	-134500.0	-59529.0	-1492000.0	1117.0
1276.112	-2128.9	47.1	-105800.0	-54440.0	-1219000.0	2871.0
1276.113	-2222.3	49.2	-114500.0	-57295.0	-1390000.0	1165.0
1276.114	-1718.0	44.7	-85600.9	-52760.0	-1115000.0	2925.0
1276.115	-1732.5	-215.0	-91574.6	-220174.0	-1047000.0	-3691.0
1276.116	-1320.6	-212.8	-71557.8	-216486.0	-944201.0	-3727.0
1276.117	-1643.1	-338.3	-92153.1	-310776.0	-1034000.0	-5816.0
1276.118	-1223.3	-318.3	-72144.4	-311712.0	-926440.1	-5864.0
1276.119	-1844.6	-223.1	-98807.5	-238609.0	-1105000.0	-4238.0
1276.120	-1432.3	-267.6	-78559.9	-270500.0	-1003000.0	-4193.0
1276.121	-1797.5	-213.9	-91783.8	-219385.0	-1433000.0	-3505.0
1276.122	-1384.4	-211.6	-71743.1	-218320.0	-1329000.0	-3536.0
1276.123	-2248.3	-215.9	-120000.0	-228037.0	-1329000.0	-372.0
1276.124	-1836.1	-206.0	-100000.0	-220669.0	-1226000.0	-476.0
1276.125	-2025.5	338.9	-98930.4	61579.0	-1155000.0	-919.0
1276.126	-1614.3	280.1	-78663.9	54521.0	-1053000.0	-715.0
1276.127	-2140.1	440.4	-105600.0	125852.0	-1217000.0	-310.0
1276.128	-1725.8	403.9	-85140.5	120673.0	-1114000.0	-123.0
1276.129	-2136.6	383.2	-105400.0	59055.0	-1211000.0	-1816.0
1276.130	-1722.6	328.1	-85025.4	47692.0	-1109000.0	-1514.0
1276.131	-2092.3	337.9	-99372.0	62385.0	-1541000.0	-839.0
1276.132	-1682.4	311.6	-79165.6	64396.0	-1440000.0	-614.0
1276.133	-2546.1	374.7	-127900.0	69487.0	-1438000.0	1978.0
1276.134	-2133.2	308.0	-107600.0	56555.0	-1335000.0	2220.0

1276.135	-2792.0	-72.3	-142400.0	78330.0	-1596000.0	-2089.0
1276.136	-2380.3	-52.2	-122100.0	62472.0	-1491000.0	-2009.0
1276.137	-3205.0	-88.1	-166100.0	94360.0	-1824000.0	-3050.0
1276.138	-2794.5	-66.7	-145800.0	77682.0	-1720000.0	-2971.0
1276.139	-2857.6	-56.0	-142800.0	69527.0	-1982000.0	-1909.0
1276.140	-2446.8	-41.7	-122500.0	57547.0	-1878000.0	-1836.0
1276.141	-3308.5	-61.6	-171200.0	77228.0	-1880000.0	1040.0
1276.142	-2898.5	-62.1	-151000.0	73828.0	-1777000.0	1106.0
1276.143	-3044.6	-77.3	-157000.0	83971.0	-1734000.0	-2990.0
1276.144	-2538.8	-52.5	-127800.0	64330.0	-1457000.0	-1180.0
1276.145	-2633.2	-70.6	-136700.0	75900.0	-1630000.0	-2918.0
1276.146	-2127.5	-49.4	-107400.0	58288.0	-1353000.0	-1110.0
1276.147	-3212.9	-79.8	-166800.0	85755.0	-1826000.0	-3591.0
1276.148	-2370.7	-41.1	-118000.0	55922.0	-1366000.0	-575.0
1276.149	-2801.6	-73.1	-146400.0	79725.0	-1722000.0	-3520.0
1276.150	-1959.6	-39.1	-97739.0	51617.0	-1262000.0	-509.0
1276.151	-3457.5	-93.1	-180700.0	100037.0	-1962000.0	-3951.0
1276.152	-2952.6	-67.9	-151500.0	79466.0	-1686000.0	-2139.0
1276.153	-3046.2	-85.9	-160400.0	91974.0	-1857000.0	-3880.0
1276.154	-2541.1	-63.6	-131200.0	73445.0	-1581000.0	-2071.0
1276.155	-3109.2	-77.5	-157300.0	84825.0	-2120000.0	-2819.0
1276.156	-2604.2	-41.6	-128100.0	58834.0	-1844000.0	-1003.0
1276.157	-2698.8	-55.0	-137100.0	67649.0	-2016000.0	-2740.0
1276.158	-2193.2	-39.2	-107800.0	54489.0	-1740000.0	-939.0
1276.159	-3561.0	-63.2	-185800.0	81368.0	-2018000.0	140.0
1276.160	-3057.3	-64.3	-156700.0	75751.0	-1743000.0	1936.0
1276.161	-3149.7	-60.0	-165500.0	75412.0	-1914000.0	209.0
1276.162	-2645.8	-59.2	-136400.0	69326.0	-1639000.0	2005.0
1276.163	-2638.3	-198.0	-137800.0	-131881.0	-1559000.0	-4637.0
1276.164	-2230.2	-161.2	-118100.0	-98117.0	-1458000.0	-4791.0
1276.165	-2556.2	-270.0	-138900.0	-192075.0	-1550000.0	-6890.0
1276.166	-2147.3	-269.2	-118900.0	-186019.0	-1450000.0	-6928.0
1276.167	-3047.5	-204.1	-160100.0	-126376.0	-1786000.0	-5440.0
1276.168	-2640.8	-154.2	-140600.0	-81442.0	-1685000.0	-5713.0
1276.169	-2702.4	-196.8	-138000.0	-131110.0	-1945000.0	-4455.0
1276.170	-2294.9	-159.2	-118300.0	-96563.0	-1844000.0	-4604.0
1276.171	-3153.3	-194.7	-166200.0	-136364.0	-1840000.0	-1324.0
1276.172	-2744.9	-188.9	-146300.0	-127094.0	-1740000.0	-1438.0
1276.173	-2960.6	352.0	-152100.0	144509.0	-1677000.0	-1787.0
1276.174	-2548.7	325.7	-131700.0	141603.0	-1575000.0	-1621.0
1276.175	-3070.6	471.9	-158400.0	202760.0	-1737000.0	-1164.0
1276.176	-2656.8	430.8	-138000.0	194787.0	-1634000.0	-972.0
1276.177	-3376.4	400.9	-176200.0	165079.0	-1905000.0	-2866.0
1276.178	-2963.0	347.1	-155600.0	156206.0	-1802000.0	-2659.0
1276.179	-3027.8	353.6	-152600.0	147904.0	-2064000.0	-1639.0
1276.180	-2614.4	327.1	-132100.0	142675.0	-1961000.0	-1459.0
1276.181	-3478.2	390.2	-181100.0	148253.0	-1959000.0	1140.0
1276.182	-3067.1	345.3	-160700.0	146568.0	-1858000.0	1386.0
1276.183	-1873.0	13.1	-69511.8	5797.0	-1114000.0	825.0
1276.184	-1463.1	10.9	-49290.5	6529.0	-1011000.0	883.0
1276.185	-1939.0	13.3	-69923.1	7720.0	-1501000.0	990.0
1276.186	-1528.3	10.8	-49652.6	8029.0	-1398000.0	1047.0
1276.187	-2103.6	14.3	-69326.0	8525.0	-1259000.0	798.0
1276.188	-1690.2	10.1	-48851.8	7894.0	-1154000.0	885.0
1276.189	-2388.1	19.5	-98238.2	4768.0	-1397000.0	3959.0
1276.190	-1977.2	16.0	-77948.7	5005.0	-1294000.0	4017.0
1276.191	-4464.4	71.6	-219300.0	-27516.0	-2528000.0	-8325.0
1276.192	-4054.9	26.4	-199000.0	-2200.0	-2425000.0	-8292.0
1276.193	-3824.7	60.7	-182300.0	-21199.0	-2179000.0	-6066.0
1276.194	-3414.9	22.8	-162000.0	-359.0	-2076000.0	-6029.0
1276.195	-3892.5	63.2	-182900.0	-18226.0	-2567000.0	-5910.0
1276.196	-3480.2	24.9	-162400.0	1426.0	-2462000.0	-5867.0

1276.197	-4054.1	23.7	-181900.0	728.0	-2323000.0	-6120.0
1276.198	-3642.9	22.1	-161600.0	927.0	-2219000.0	-6063.0
1276.199	-4341.3	70.6	-211200.0	-25109.0	-2463000.0	-2930.0
1276.200	-3928.4	27.7	-190600.0	-2095.0	-2358000.0	-2891.0
1276.201	-2202.5	27.7	-90906.5	-51578.0	-1286000.0	-1219.0
1276.202	-1794.8	21.9	-70891.2	-50841.0	-1185000.0	-1164.0
1276.203	-2315.5	54.5	-98182.2	-65626.0	-1345000.0	-1896.0
1276.204	-1902.0	33.2	-78164.1	-63836.0	-1241000.0	-1856.0
1276.205	-2268.5	24.2	-91198.9	-52796.0	-1674000.0	-1045.0
1276.206	-1860.0	21.5	-71149.3	-50639.0	-1572000.0	-996.0
1276.207	-2435.4	13.2	-90600.3	-59160.0	-1433000.0	-1223.0
1276.208	-2024.0	4.4	-70400.3	-61626.0	-1329000.0	-1153.0
1276.209	-2720.9	37.1	-119600.0	-52918.0	-1572000.0	1916.0
1276.210	-2312.0	26.6	-99563.2	-53700.0	-1470000.0	1976.0
1276.211	-3135.8	7.8	-142100.0	44551.0	-1810000.0	-2127.0
1276.212	-2724.4	3.0	-121700.0	45580.0	-1707000.0	-2069.0
1276.213	-3547.9	-50.7	-165500.0	69504.0	-2039000.0	-3065.0
1276.214	-3138.5	1.2	-145500.0	60102.0	-1935000.0	-3044.0
1276.215	-3201.1	8.4	-142400.0	45804.0	-2197000.0	-1961.0
1276.216	-2789.8	7.2	-122100.0	47018.0	-2093000.0	-1908.0
1276.217	-3364.0	16.0	-141700.0	45897.0	-1954000.0	-2172.0
1276.218	-2959.5	4.6	-121800.0	57606.0	-1853000.0	-2133.0
1276.219	-3651.8	8.3	-170800.0	42531.0	-2094000.0	1016.0
1276.220	-3240.5	4.4	-150500.0	43505.0	-1991000.0	1073.0
1276.221	-1199.3	140.8	-71259.9	21160.0	-729898.0	665.0
1276.222	-786.0	-12.3	-50525.8	9450.0	-626573.0	933.0
1276.223	-1262.3	5.7	-71166.8	4915.0	-1116000.0	1043.0
1276.224	-852.4	4.1	-50947.3	4890.0	-1012000.0	1102.0
1276.225	-978.9	141.5	-71920.8	18794.0	-618866.0	658.0
1276.226	-567.3	87.0	-51465.5	11695.0	-515426.0	801.0
1276.227	-1715.9	198.4	-100200.0	30983.0	-1014000.0	3705.0
1276.228	-1304.2	158.5	-79777.4	25008.0	-909603.0	3825.0
1276.229	-3788.2	-29.8	-220700.0	4959.0	-2146000.0	-8271.0
1276.230	-3378.1	7.8	-200300.0	-8826.0	-2042000.0	-8217.0
1276.231	-3159.0	422.5	-185100.0	59235.0	-1798000.0	-6697.0
1276.232	-2739.8	-26.7	-163400.0	9308.0	-1694000.0	-5966.0
1276.233	-3223.7	426.2	-185400.0	63557.0	-2183000.0	-6538.0
1276.234	-2812.2	379.0	-165000.0	56710.0	-2079000.0	-6406.0
1276.235	-2938.6	422.7	-185900.0	57538.0	-1685000.0	-6702.0
1276.236	-2526.1	318.9	-165200.0	39014.0	-1581000.0	-6467.0
1276.237	-3667.4	-14.0	-212500.0	5485.0	-2082000.0	-2891.0
1276.238	-3256.4	-12.8	-192200.0	4586.0	-1977000.0	-2832.0
1276.239	-1535.4	47.6	-92660.5	-54616.0	-903800.0	-1157.0
1276.240	-1124.4	43.0	-72579.7	-50921.0	-800571.0	-1116.0
1276.241	-1646.1	57.7	-100100.0	-68622.0	-961224.0	-1844.0
1276.242	-1235.1	53.6	-79985.2	-64105.0	-857913.9	-1806.0
1276.243	-1600.7	48.5	-92898.5	-53657.0	-1290000.0	-987.0
1276.244	-1189.9	43.7	-72825.7	-50252.0	-1187000.0	-945.0
1276.245	-1315.7	47.0	-93477.9	-55381.0	-792919.0	-1164.0
1276.246	-904.8	42.5	-73393.3	-51592.0	-689757.0	-1123.0
1276.247	-2046.8	-132.2	-121200.0	-174432.0	-1187000.0	2439.0
1276.248	-1642.1	47.2	-101200.0	-55561.0	-1085000.0	2032.0
1276.249	-2462.1	-71.3	-143500.0	78447.0	-1429000.0	-2108.0
1276.250	-2049.3	-64.4	-123000.0	70248.0	-1324000.0	-2036.0
1276.251	-2874.5	-87.5	-167100.0	94480.0	-1657000.0	-3068.0
1276.252	-2463.0	-80.5	-146800.0	86297.0	-1553000.0	-2998.0
1276.253	-2526.3	-71.0	-143800.0	79278.0	-1815000.0	-1938.0
1276.254	-2116.0	-41.3	-123500.0	57180.0	-1711000.0	-1852.0
1276.255	-2241.3	-71.0	-144100.0	78233.0	-1318000.0	-2120.0
1276.256	-1828.9	-65.1	-123700.0	70067.0	-1214000.0	-2047.0
1276.257	-2978.0	-61.1	-172200.0	77034.0	-1713000.0	1021.0
1276.258	-2567.8	-62.5	-152000.0	73585.0	-1610000.0	1088.0

1276.401	332.7	-1346.9	-19563.8	343979.0	-573222.0	-10335.0
1276.402	-89.9	-1426.0	-43418.5	341296.0	-794696.0	-11276.0
1276.403	226.0	-1333.6	-28222.6	205119.0	-779851.0	-10463.0
1276.404	-201.5	-1415.8	-52283.9	201169.0	-1002000.0	-11556.0
1276.405	-1827.9	1417.8	-92523.0	-349950.0	204929.0	10696.0
1276.406	-2263.5	1430.2	-117500.0	-298863.0	-20845.0	8833.0
1276.407	-1960.0	1685.1	-99863.7	-405658.0	39778.0	12228.0
1276.408	-2391.8	1687.6	-124700.0	-355537.0	-183251.0	10529.0
1276.409	333.6	-1361.5	-18523.4	338292.0	-571270.0	-9389.0
1276.410	-86.6	-1439.7	-42362.5	334601.0	-790709.0	-10366.0
1276.411	223.3	-1380.8	-29066.7	172628.0	-779608.0	-11349.0
1276.412	-206.9	-1408.1	-53432.6	202706.0	-1003000.0	-12556.0
1276.413	-1828.9	1417.3	-92460.7	-353458.0	202614.0	11430.0
1276.414	-2264.1	1413.0	-117400.0	-303491.0	-23545.0	9499.0
1276.415	-1965.5	1681.7	-100300.0	-402049.0	43386.0	11374.0
1276.416	-2397.9	1680.3	-125200.0	-351795.0	-180649.0	9690.0
1276.417	446.4	-975.2	-17543.1	210442.0	404400.0	-9523.0
1276.418	19.2	-1033.6	-41572.3	221389.0	179259.0	-10431.0
1276.419	342.1	-1024.0	-24681.7	34910.0	198804.0	-9563.0
1276.420	-90.6	-1096.5	-48856.1	38464.0	-25971.0	-10666.0
1276.421	-1939.9	969.6	-101200.0	-160994.0	-728939.0	9878.0
1276.422	-2371.6	918.9	-126400.0	-110995.0	-951826.0	7994.0
1276.423	-2077.8	1362.3	-107900.0	-216164.0	-903050.0	11304.0
1276.424	-2503.9	1368.6	-132400.0	-166895.0	-1120000.0	9593.0
1276.425	442.9	-1013.4	-15233.7	197754.0	401415.0	-8515.0
1276.426	14.6	-1074.5	-39254.0	206881.0	176557.0	-9512.0
1276.427	336.8	-1007.3	-25948.1	40128.0	197151.0	-10580.0
1276.428	-95.6	-1082.8	-50099.8	41560.0	-27901.0	-11664.0
1276.429	-1945.6	944.2	-101800.0	-160399.0	-733814.0	10592.0
1276.430	-2376.2	931.8	-127000.0	-108556.0	-958804.0	8733.0
1276.431	-2077.7	1340.8	-108100.0	-216003.0	-899748.1	10479.0
1276.432	-2505.2	1365.6	-132600.0	-165657.0	-1118000.0	8775.0
1276.433	-231.5	-469.5	-22146.7	241575.0	70608.0	-2584.0
1276.434	-656.9	-538.0	-46633.1	257338.0	-155917.0	-3814.0
1276.435	-639.9	-358.9	-44809.2	-170870.0	-575145.0	-2410.0
1276.436	-1070.7	-428.0	-69100.0	-172632.0	-797831.0	-3545.0
1276.437	-904.1	97.7	-46630.0	23033.0	252478.0	1147.0
1276.438	-1337.3	69.6	-71793.6	74718.0	24015.0	-295.0
1276.439	-1287.7	903.3	-62792.7	-203633.0	-301962.0	5955.0
1276.440	-1718.1	885.0	-87529.4	-165773.0	-523459.0	4288.0
1276.441	-212.4	-380.0	-22441.1	183401.0	343227.0	-2385.0
1276.442	-640.1	-447.5	-46948.1	197143.0	113324.0	-3621.0
1276.443	-606.6	-274.1	-43790.1	-222699.0	-284799.0	-2127.0
1276.444	-1039.3	-359.8	-68015.1	-233650.0	-508657.0	-3216.0
1276.445	-929.3	-0.8	-49405.8	86375.0	-21932.0	972.0
1276.446	-1359.3	-28.4	-74354.5	138046.0	-248325.0	-507.0
1276.447	-1322.5	816.8	-65180.3	-146260.0	-582458.0	5673.0
1276.448	-1749.4	796.3	-89709.7	-107869.0	-802203.0	4011.0
1276.449	-223.9	-510.1	-13742.8	253939.0	98383.0	260.0
1276.450	-645.6	-584.1	-38151.7	269652.0	-125304.0	-984.0
1276.451	-680.1	-332.6	-49676.4	-159926.0	-586895.0	-5872.0
1276.452	-1115.2	-407.0	-74009.5	-159394.0	-811326.0	-7004.0
1276.453	-901.4	96.4	-47069.8	28881.0	225080.0	3992.0
1276.454	-1329.2	70.7	-71816.9	81333.0	-2844.0	2515.0
1276.455	-1305.5	883.5	-64203.0	-203650.0	-273771.0	3277.0
1276.456	-1746.5	861.1	-89596.7	-165915.0	-495971.0	1621.0
1276.457	-198.5	-413.1	-13870.0	191855.0	377427.0	462.0
1276.458	-621.8	-486.0	-38300.8	205845.0	151873.0	-782.0
1276.459	-644.8	-233.9	-48703.1	-209180.0	-294471.0	-5604.0
1276.460	-1082.3	-323.1	-73035.4	-216860.0	-521246.0	-6705.0
1276.461	-932.6	-2.9	-50318.8	92919.0	-52626.0	3785.0
1276.462	-1356.9	-28.0	-74844.7	144802.0	-276900.0	2326.0

1276.463	-1335.1	787.5	-66355.2	-143194.0	-553140.0	2958.0
1276.464	-1772.7	762.3	-91559.4	-106090.0	-773191.0	1311.0
1276.529	119.4	-323.9	1930.8	118088.0	115072.0	-1178.0
1276.530	-1282.0	-510.1	-78991.9	162648.0	-624595.0	-4541.0
1276.531	6.7	-310.8	-5963.0	-18983.0	-90719.0	-1238.0
1276.532	-1426.1	-571.7	-86859.1	-24835.0	-833788.9	-5011.0
1276.533	-518.6	400.9	-19526.5	-134185.0	330495.0	4938.0
1276.534	-1975.8	182.0	-104500.0	21817.0	-420912.0	-905.0
1276.535	-651.1	653.0	-26881.4	-187635.0	160867.0	6394.0
1276.536	-2081.4	652.7	-109000.0	-48235.0	-579587.0	762.0
1276.537	122.4	-347.9	3930.0	110111.0	123492.0	-195.0
1276.538	-1275.0	-540.4	-76545.2	149969.0	-613022.0	-3591.0
1276.539	-1.3	-302.4	-7290.5	-17389.0	-92226.0	-2277.0
1276.540	-1439.1	-569.2	-88166.7	-22474.0	-836538.0	-5989.0
1276.541	-519.9	391.1	-19855.1	-133516.0	325680.0	5710.0
1276.542	-1962.8	207.3	-103800.0	22545.0	-428612.0	-119.0
1276.543	-655.2	651.3	-27277.0	-185407.0	164157.0	5555.0
1276.544	-2100.4	656.1	-110300.0	-42531.0	-575806.0	-66.0
1276.545	148.5	-232.2	1857.1	66153.0	402500.0	-849.0
1276.546	-1267.2	-385.8	-79070.2	128955.0	-348821.0	-4387.0
1276.547	43.0	-220.0	-4918.2	-71039.0	202133.0	-968.0
1276.548	-1398.1	-497.5	-85750.5	-87025.0	-544058.0	-4690.0
1276.549	-550.3	284.0	-22755.7	-72242.0	48770.0	4642.0
1276.550	-1997.8	66.6	-106900.0	87215.0	-698672.0	-1113.0
1276.551	-688.6	554.9	-29392.0	-131192.0	-127395.0	6108.0
1276.552	-2109.9	595.7	-111000.0	12360.0	-854700.0	461.0
1276.553	150.4	-246.2	4321.3	67140.0	408068.0	65.0
1276.554	-1259.5	-439.7	-76693.9	102795.0	-338790.0	-3412.0
1276.555	35.0	-203.2	-6288.9	-65427.0	200724.0	-2021.0
1276.556	-1410.4	-462.1	-87280.2	-66499.0	-548296.0	-5721.0
1276.557	-558.1	283.4	-23569.5	-69668.0	44101.0	5445.0
1276.558	-1990.6	93.4	-106700.0	84849.0	-707262.0	-312.0
1276.559	-689.9	554.5	-29631.0	-130154.0	-122049.0	5261.0
1276.560	-2121.5	594.9	-111800.0	15117.0	-852488.9	-372.0
1277.1	-1520.5	-8.7	-70033.7	9653.0	-882603.0	-808.0
1277.2	-1109.6	-2.7	-49655.9	9717.0	-781918.0	-885.0
1277.3	-1583.4	-0.3	-70419.3	12789.0	-1268000.0	-954.0
1277.4	-1172.8	-0.4	-50065.9	9858.0	-1167000.0	-1022.0
1277.5	-2033.4	-16.4	-98866.1	12838.0	-1158000.0	-3936.0
1277.6	-1623.6	-12.5	-78471.8	10758.0	-1058000.0	-4009.0
1277.7	-4107.0	-15.8	-220700.0	18775.0	-2264000.0	8437.0
1277.8	-3696.3	-11.0	-200200.0	18757.0	-2163000.0	8359.0
1277.9	-3469.6	-15.3	-183600.0	20550.0	-1924000.0	6149.0
1277.10	-3057.0	-17.6	-163000.0	17642.0	-1821000.0	6071.0
1277.11	-3533.8	-12.8	-183900.0	22443.0	-2310000.0	6000.0
1277.12	-3123.6	-11.0	-163500.0	20429.0	-2209000.0	5925.0
1277.13	-3978.6	-18.8	-212200.0	25802.0	-2197000.0	3014.0
1277.14	-3569.1	-16.7	-191800.0	22722.0	-2096000.0	2942.0
1277.15	-1768.4	108.2	-84540.9	91670.0	-1017000.0	-220.0
1277.16	-1268.0	-3.2	-55408.1	10660.0	-747478.0	-1711.0
1277.17	-1361.6	-3.2	-64296.1	10429.0	-916843.0	15.0
1277.18	-857.6	-0.9	-35064.1	7192.0	-647009.0	-1777.0
1277.19	-1936.6	120.2	-94334.6	101587.0	-1107000.0	346.0
1277.20	-1099.9	-0.8	-45695.7	8462.0	-657516.0	-2303.0
1277.21	-1527.3	95.2	-73973.4	80413.0	-1007000.0	345.0
1277.22	-689.7	0.5	-25340.1	6914.0	-557071.0	-2378.0
1277.23	-1836.4	-9.5	-85046.1	12658.0	-1404000.0	-55.0
1277.24	-1330.5	-1.5	-55812.3	11392.0	-1133000.0	-1849.0
1277.25	-1425.4	-2.0	-64651.9	11983.0	-1303000.0	-131.0
1277.26	-920.6	-0.7	-35455.6	9092.0	-1032000.0	-1922.0
1277.27	-2285.5	-19.6	-113600.0	13081.0	-1293000.0	-3033.0
1277.28	-1782.0	-13.4	-84227.9	11452.0	-1024000.0	-4835.0

1277.29	-1874.9	-15.7	-93098.9	11809.0	-1193000.0	-3109.0
1277.30	-1372.3	-9.4	-63842.6	9484.0	-923586.1	-4909.0
1277.31	-4358.5	-16.8	-235300.0	20021.0	-2398000.0	9338.0
1277.32	-3852.9	-17.8	-205900.0	23906.0	-2127000.0	7520.0
1277.33	-3948.4	-15.4	-214900.0	18237.0	-2298000.0	9262.0
1277.34	-3442.6	-12.1	-185500.0	22729.0	-2027000.0	7444.0
1277.35	-3891.6	-14.5	-208100.0	16827.0	-2150000.0	7665.0
1277.36	-3049.6	-12.6	-159100.0	18403.0	-1699000.0	4647.0
1277.37	-3481.1	-12.9	-187700.0	15041.0	-2049000.0	7589.0
1277.38	-2637.9	-14.5	-138600.0	15484.0	-1597000.0	4571.0
1277.39	-3723.8	-13.5	-198300.0	15983.0	-2060000.0	7065.0
1277.40	-3217.1	-13.7	-168900.0	19697.0	-1788000.0	5246.0
1277.41	-3313.3	-12.2	-177900.0	14337.0	-1959000.0	6989.0
1277.42	-2805.4	-15.6	-148300.0	16327.0	-1687000.0	5171.0
1277.43	-3785.4	-14.1	-198600.0	23938.0	-2445000.0	6900.0
1277.44	-3282.2	-11.5	-169300.0	21037.0	-2175000.0	5100.0
1277.45	-3375.1	-12.3	-178100.0	21866.0	-2344000.0	6825.0
1277.46	-2871.9	-9.8	-148800.0	19077.0	-2075000.0	5025.0
1277.47	-4229.8	-20.2	-226800.0	27487.0	-2331000.0	3913.0
1277.48	-3727.6	-17.3	-197500.0	23780.0	-2062000.0	2116.0
1277.49	-3820.1	-18.4	-206400.0	25024.0	-2231000.0	3839.0
1277.50	-3318.0	-15.1	-177200.0	20757.0	-1962000.0	2043.0
1277.51	-1666.4	-273.9	-78316.8	-84255.0	-961667.0	-1374.0
1277.52	-1261.4	-251.1	-58241.9	-86685.0	-865567.0	-1560.0
1277.53	-1772.8	-378.2	-84523.4	-141013.0	-1023000.0	-2080.0
1277.54	-1366.0	-336.5	-64342.1	-131993.0	-923797.0	-2322.0
1277.55	-1730.4	-282.6	-78591.5	-84911.0	-1347000.0	-1483.0
1277.56	-1325.1	-249.9	-58510.4	-86039.0	-1251000.0	-1689.0
1277.57	-2177.3	-307.5	-107000.0	-88166.0	-1233000.0	-4320.0
1277.58	-1773.4	-307.1	-86978.7	-97021.0	-1138000.0	-4462.0
1277.59	-4270.1	-418.9	-230100.0	-120008.0	-2340000.0	8644.0
1277.60	-3859.5	-397.2	-209600.0	-115824.0	-2240000.0	8492.0
1277.61	-3632.3	-465.0	-193000.0	-136524.0	-2001000.0	6414.0
1277.62	-3218.4	-435.9	-172300.0	-128320.0	-1899000.0	6220.0
1277.63	-3697.8	-513.3	-196500.0	-131844.0	-2039000.0	5473.0
1277.64	-3290.3	-492.0	-176300.0	-132794.0	-1942000.0	5280.0
1277.65	-3692.6	-468.6	-193000.0	-135437.0	-2384000.0	6289.0
1277.66	-3282.0	-435.5	-172500.0	-127646.0	-2285000.0	6091.0
1277.67	-4143.8	-517.9	-221800.0	-148009.0	-2275000.0	3429.0
1277.68	-3732.7	-433.4	-201200.0	-125058.0	-2174000.0	3155.0
1277.69	-1365.0	179.2	-69752.3	156811.0	-829051.0	1946.0
1277.70	-958.7	157.2	-49703.2	137790.0	-731972.0	2005.0
1277.71	-1270.0	249.0	-70320.9	217674.0	-800795.0	4076.0
1277.72	-864.0	223.0	-50350.4	194550.0	-703364.0	4167.0
1277.73	-1428.0	180.3	-70079.8	158005.0	-1214000.0	1792.0
1277.74	-1021.5	162.0	-50014.7	141282.0	-1117000.0	1844.0
1277.75	-1875.1	198.6	-98209.1	173657.0	-1101000.0	-1338.0
1277.76	-1467.4	185.0	-78075.7	162246.0	-1003000.0	-1299.0
1277.77	-3941.6	268.1	-219100.0	224200.0	-2200000.0	10549.0
1277.78	-3530.3	253.9	-198700.0	218033.0	-2098000.0	10518.0
1277.79	-3303.9	263.9	-182000.0	223465.0	-1860000.0	8299.0
1277.80	-2895.9	249.4	-161700.0	209933.0	-1761000.0	8302.0
1277.81	-3207.0	379.3	-181900.0	315662.0	-1830000.0	10333.0
1277.82	-2797.8	361.9	-161800.0	304132.0	-1730000.0	10374.0
1277.83	-3367.0	290.6	-182300.0	243762.0	-2246000.0	8078.0
1277.84	-2959.5	234.0	-162100.0	198670.0	-2147000.0	8202.0
1277.85	-3814.2	352.9	-210500.0	294380.0	-2135000.0	4874.0
1277.86	-3406.3	296.8	-190300.0	249480.0	-2035000.0	4991.0
1277.87	-2770.0	94.7	-142300.0	-76899.0	-1553000.0	2234.0
1277.88	-2360.6	82.7	-121900.0	-69877.0	-1452000.0	2142.0
1277.89	-3180.0	111.7	-166000.0	-94591.0	-1771000.0	3209.0
1277.90	-2770.6	102.1	-145700.0	-86605.0	-1671000.0	3113.0

1277.91	-2841.0	-243.3	-143600.0	-91253.0	-1939000.0	2526.0
1277.92	-2423.8	83.0	-122200.0	-69355.0	-1837000.0	1997.0
1277.93	-3282.2	76.5	-171100.0	-65735.0	-1828000.0	-894.0
1277.94	-2872.5	82.2	-150700.0	-70472.0	-1727000.0	-972.0
1277.95	-3029.5	-272.8	-158100.0	-98096.0	-1688000.0	3628.0
1277.96	-2519.1	72.4	-127700.0	-63343.0	-1418000.0	1315.0
1277.97	-2611.5	90.8	-136600.0	-75094.0	-1586000.0	3053.0
1277.98	-2109.8	64.0	-107300.0	-57410.0	-1317000.0	1222.0
1277.99	-3190.6	107.9	-166800.0	-84758.0	-1779000.0	3749.0
1277.100	-2351.9	68.5	-117900.0	-60492.0	-1328000.0	708.0
1277.101	-2780.9	96.1	-146400.0	-78592.0	-1677000.0	3660.0
1277.102	-1941.5	60.2	-97516.8	-54609.0	-1227000.0	616.0
1277.103	-3433.6	115.5	-180800.0	-100126.0	-1908000.0	4126.0
1277.104	-2929.2	88.5	-151400.0	-79084.0	-1637000.0	2285.0
1277.105	-3023.8	108.5	-160400.0	-92430.0	-1807000.0	4027.0
1277.106	-2519.9	79.8	-131100.0	-73189.0	-1536000.0	2194.0
1277.107	-3086.2	85.4	-157300.0	-70967.0	-2074000.0	2989.0
1277.108	-2583.5	72.0	-128000.0	-62957.0	-1804000.0	1172.0
1277.109	-2682.2	-232.2	-137800.0	-88936.0	-1973000.0	3326.0
1277.110	-2172.9	64.5	-107500.0	-56901.0	-1702000.0	1077.0
1277.111	-3534.8	99.5	-185800.0	-78157.0	-1964000.0	20.0
1277.112	-3031.3	71.5	-156500.0	-63001.0	-1693000.0	-1801.0
1277.113	-3123.9	89.3	-165400.0	-73905.0	-1862000.0	-66.0
1277.114	-2621.7	76.3	-136100.0	-66620.0	-1592000.0	-1881.0
1277.115	-2914.8	-360.9	-150500.0	-127618.0	-1622000.0	1938.0
1277.116	-2507.1	-352.8	-130300.0	-128606.0	-1524000.0	1768.0
1277.117	-3015.3	-544.1	-156300.0	-183440.0	-1680000.0	1305.0
1277.118	-2616.1	-514.0	-136600.0	-191824.0	-1586000.0	1123.0
1277.119	-3322.4	-381.0	-174100.0	-137956.0	-1837000.0	3056.0
1277.120	-2915.0	-447.1	-153900.0	-157917.0	-1740000.0	2964.0
1277.121	-2978.3	-359.9	-150700.0	-126811.0	-2007000.0	1809.0
1277.122	-2571.7	-352.0	-130600.0	-130288.0	-1910000.0	1643.0
1277.123	-3426.0	-370.6	-179200.0	-128496.0	-1893000.0	-1000.0
1277.124	-3019.0	-348.3	-159000.0	-129787.0	-1797000.0	-1241.0
1277.125	-2615.7	221.3	-138600.0	138647.0	-1500000.0	4689.0
1277.126	-2207.0	189.3	-118500.0	114392.0	-1400000.0	4760.0
1277.127	-2512.3	298.1	-138900.0	216258.0	-1465000.0	6782.0
1277.128	-2106.4	279.8	-118800.0	199097.0	-1368000.0	6835.0
1277.129	-3021.7	248.9	-160800.0	147893.0	-1717000.0	5450.0
1277.130	-2616.1	217.5	-140900.0	121162.0	-1620000.0	5617.0
1277.131	-2677.4	220.9	-138800.0	139014.0	-1884000.0	4459.0
1277.132	-2267.9	207.3	-118700.0	132311.0	-1785000.0	4549.0
1277.133	-3122.5	238.5	-166900.0	159411.0	-1770000.0	1328.0
1277.134	-2715.5	200.9	-147000.0	127817.0	-1672000.0	1437.0
1277.135	-1853.6	-30.6	-92648.3	58465.0	-1055000.0	1264.0
1277.136	-1444.9	-27.2	-72450.4	51721.0	-955922.0	1214.0
1277.137	-1964.2	-39.8	-100200.0	71130.0	-1113000.0	1956.0
1277.138	-1554.3	-36.3	-79927.5	64306.0	-1013000.0	1907.0
1277.139	-1917.1	-27.4	-93098.8	57393.0	-1441000.0	1133.0
1277.140	-1507.5	-24.9	-72821.7	51599.0	-1341000.0	1078.0
1277.141	-2365.6	-28.8	-121400.0	64177.0	-1330000.0	-1872.0
1277.142	-1955.2	-30.7	-101100.0	60684.0	-1230000.0	-1935.0
1277.143	-2104.3	-31.1	-107200.0	62517.0	-1189000.0	2151.0
1277.144	-1603.5	-27.2	-78198.3	53196.0	-921588.9	385.0
1277.145	-1695.3	-30.2	-86916.8	57012.0	-1090000.0	2093.0
1277.146	-1194.3	-27.0	-57893.7	48003.0	-821953.0	325.0
1277.147	-2271.5	-31.0	-116900.0	65320.0	-1279000.0	2742.0
1277.148	-1436.0	-25.4	-68523.6	49840.0	-832058.0	-202.0
1277.149	-1862.4	-30.0	-96618.2	60039.0	-1179000.0	2683.0
1277.150	-1026.6	-24.9	-48192.0	45515.0	-732252.0	-265.0
1277.151	-2215.0	-40.3	-114700.0	75224.0	-1247000.0	2843.0
1277.152	-1713.4	-36.8	-85698.4	65422.0	-978559.9	1080.0

1277.153	-1805.9	-39.1	-94440.7	69858.0	-1147000.0	2785.0
1277.154	-1304.4	-36.0	-65401.3	60604.0	-879094.1	1019.0
1277.155	-2168.7	-30.9	-107600.0	62963.0	-1576000.0	2011.0
1277.156	-1667.1	-25.0	-78626.5	52723.0	-1308000.0	251.0
1277.157	-1758.7	-27.1	-87359.1	56103.0	-1476000.0	1961.0
1277.158	-1257.7	-24.3	-58287.5	48495.0	-1208000.0	187.0
1277.159	-2616.5	-28.4	-136000.0	68232.0	-1464000.0	-984.0
1277.160	-2113.5	-31.8	-106900.0	61699.0	-1195000.0	-2763.0
1277.161	-2207.2	-28.1	-115700.0	63106.0	-1365000.0	-1044.0
1277.162	-1704.6	-30.5	-86548.1	56637.0	-1096000.0	-2823.0
1277.163	-2012.0	-305.3	-98785.1	-60483.0	-1144000.0	958.0
1277.164	-1600.7	-234.7	-78369.6	-48218.0	-1045000.0	673.0
1277.165	-2105.7	-394.1	-104200.0	-111879.0	-1199000.0	201.0
1277.166	-1694.8	-388.8	-83809.1	-109577.0	-1100000.0	28.0
1277.167	-2123.3	-316.0	-105400.0	-50567.0	-1202000.0	1804.0
1277.168	-1711.0	-225.5	-84902.7	-31309.0	-1103000.0	1400.0
1277.169	-2076.5	-304.1	-99094.5	-59804.0	-1531000.0	829.0
1277.170	-1664.5	-232.3	-78637.4	-46945.0	-1431000.0	549.0
1277.171	-2524.0	-310.8	-127500.0	-58008.0	-1416000.0	-1987.0
1277.172	-2113.1	-294.4	-107100.0	-56151.0	-1318000.0	-2236.0
1277.173	-1699.1	214.5	-92320.7	230635.0	-1003000.0	3806.0
1277.174	-1290.8	200.8	-72074.0	219246.0	-904919.1	3839.0
1277.175	-1599.8	299.8	-92631.7	308203.0	-972225.0	5910.0
1277.176	-1193.6	277.2	-72596.4	288165.0	-875205.0	5969.0
1277.177	-1807.4	239.2	-99835.8	266262.0	-1060000.0	4383.0
1277.178	-1400.4	209.9	-79587.0	241789.0	-961768.0	4458.0
1277.179	-1761.0	215.3	-92668.9	234275.0	-1388000.0	3646.0
1277.180	-1354.1	201.8	-72429.2	220394.0	-1290000.0	3693.0
1277.181	-2209.4	234.4	-120900.0	246822.0	-1276000.0	474.0
1277.182	-1800.5	210.0	-100700.0	231941.0	-1177000.0	586.0
1277.183	-1840.8	-4.6	-68892.9	19363.0	-1052000.0	-814.0
1277.184	-1430.2	-2.2	-48427.6	16445.0	-951550.0	-886.0
1277.185	-1903.8	-4.0	-69239.9	20881.0	-1438000.0	-959.0
1277.186	-1493.9	-1.8	-48790.1	17456.0	-1337000.0	-1031.0
1277.187	-2054.9	-4.4	-67968.3	22446.0	-1166000.0	-801.0
1277.188	-1647.6	-2.7	-47586.3	17434.0	-1068000.0	-845.0
1277.189	-2354.3	-6.7	-97823.5	24830.0	-1328000.0	-3944.0
1277.190	-1944.5	-5.0	-77372.1	21091.0	-1228000.0	-4015.0
1277.191	-4428.3	1.3	-219600.0	29209.0	-2434000.0	8432.0
1277.192	-4017.3	-19.8	-199400.0	38942.0	-2333000.0	8337.0
1277.193	-3790.5	2.0	-182400.0	25697.0	-2094000.0	6153.0
1277.194	-3379.7	-15.2	-162100.0	33093.0	-1993000.0	6062.0
1277.195	-3851.8	4.1	-182700.0	28682.0	-2477000.0	6000.0
1277.196	-3443.5	-13.5	-162500.0	34939.0	-2378000.0	5914.0
1277.197	-4005.7	-18.7	-181700.0	37526.0	-2207000.0	6139.0
1277.198	-3596.3	-16.0	-161300.0	34235.0	-2107000.0	6066.0
1277.199	-4302.7	1.7	-211300.0	29281.0	-2368000.0	3025.0
1277.200	-3894.9	-18.4	-191200.0	37616.0	-2270000.0	2936.0
1277.201	-3099.7	11.2	-141000.0	-36120.0	-1729000.0	2227.0
1277.202	-2686.9	7.4	-120500.0	-37497.0	-1626000.0	2152.0
1277.203	-3507.0	93.6	-164700.0	-82845.0	-1947000.0	3216.0
1277.204	-3100.4	24.8	-144400.0	-53532.0	-1847000.0	3125.0
1277.205	-3162.4	2.9	-141200.0	-34478.0	-2114000.0	2090.0
1277.206	-2750.4	5.3	-120700.0	-36396.0	-2011000.0	2008.0
1277.207	-3310.6	-20.1	-139700.0	-33597.0	-1840000.0	2261.0
1277.208	-2901.6	-29.4	-119400.0	-36723.0	-1740000.0	2203.0
1277.209	-3609.6	19.4	-169700.0	-35213.0	-2003000.0	-903.0
1277.210	-3198.1	3.2	-149200.0	-33529.0	-1900000.0	-972.0
1277.211	-2177.3	-11.0	-91765.2	60621.0	-1227000.0	1285.0
1277.212	-1768.1	-10.9	-71377.6	57769.0	-1128000.0	1213.0
1277.213	-2288.2	-35.8	-99015.0	66076.0	-1285000.0	1999.0
1277.214	-1877.8	-14.0	-78897.6	73720.0	-1185000.0	1893.0

1277.215	-2241.0	-10.3	-92132.4	61620.0	-1613000.0	1141.0
1277.216	-1831.8	-8.2	-71748.6	59978.0	-1514000.0	1064.0
1277.217	-2393.8	-7.1	-90909.5	64351.0	-1343000.0	1279.0
1277.218	-1978.4	-12.4	-70490.2	71281.0	-1239000.0	1191.0
1277.219	-2689.9	-14.8	-120600.0	62605.0	-1503000.0	-1836.0
1277.220	-2280.6	-14.2	-100200.0	59939.0	-1403000.0	-1909.0
1277.221	-1189.7	74.3	-71067.2	64042.0	-716786.0	-1027.0
1277.222	-781.8	-5.4	-50739.4	7454.0	-616651.0	-890.0
1277.223	-1255.0	-1.1	-71515.7	11863.0	-1103000.0	-960.0
1277.224	-844.4	-1.5	-51127.2	10179.0	-1002000.0	-1032.0
1277.225	-971.3	72.9	-71729.0	62772.0	-606673.0	-1030.0
1277.226	-562.1	44.2	-51375.8	39369.0	-507301.0	-1020.0
1277.227	-1702.0	103.9	-99903.5	92144.0	-992550.0	-4249.0
1277.228	-1292.8	83.2	-79529.5	73711.0	-892604.0	-4260.0
1277.229	-3779.7	-22.2	-221900.0	14807.0	-2098000.0	8434.0
1277.230	-3368.8	-11.7	-201400.0	16612.0	-1998000.0	8356.0
1277.231	-3132.6	222.2	-184200.0	191174.0	-1756000.0	5472.0
1277.232	-2729.8	-18.3	-164200.0	15060.0	-1657000.0	6069.0
1277.233	-3196.7	228.3	-184500.0	193868.0	-2142000.0	5319.0
1277.234	-2787.5	203.3	-164200.0	172774.0	-2042000.0	5319.0
1277.235	-2914.5	220.9	-185000.0	190063.0	-1646000.0	5471.0
1277.236	-2505.9	163.8	-164600.0	142674.0	-1546000.0	5574.0
1277.237	-3651.1	-20.5	-213300.0	22592.0	-2031000.0	3013.0
1277.238	-3241.5	-18.3	-192900.0	20181.0	-1932000.0	2940.0
1277.239	-2441.8	95.7	-143400.0	-78138.0	-1388000.0	2227.0
1277.240	-2032.4	83.7	-123100.0	-70979.0	-1287000.0	2135.0
1277.241	-2851.5	112.6	-167200.0	-95592.0	-1606000.0	3202.0
1277.242	-2442.2	101.2	-146800.0	-87670.0	-1505000.0	3107.0
1277.243	-2505.0	96.6	-143700.0	-77241.0	-1773000.0	2081.0
1277.244	-2095.5	84.4	-123300.0	-70404.0	-1672000.0	1990.0
1277.245	-2223.0	95.0	-144200.0	-79132.0	-1278000.0	2223.0
1277.246	-1813.6	83.1	-123800.0	-71911.0	-1177000.0	2131.0
1277.247	-2959.9	-258.7	-173200.0	-91627.0	-1662000.0	-438.0
1277.248	-2542.9	83.3	-151800.0	-71353.0	-1561000.0	-980.0
1277.249	-1525.6	-30.2	-93715.7	58637.0	-889795.0	1251.0
1277.250	-1117.9	-29.1	-73484.9	53059.0	-791267.0	1193.0
1277.251	-1636.8	-39.5	-101300.0	71180.0	-947796.0	1945.0
1277.252	-1227.9	-38.5	-80973.1	65646.0	-848388.9	1886.0
1277.253	-1590.4	-29.7	-94145.2	59188.0	-1277000.0	1111.0
1277.254	-1180.4	-25.0	-73920.3	51167.0	-1176000.0	1067.0
1277.255	-1307.8	-30.2	-94424.4	58431.0	-780110.0	1243.0
1277.256	-899.7	-29.8	-74166.1	52674.0	-681169.0	1186.0
1277.257	-2038.2	-28.7	-122500.0	63972.0	-1165000.0	-1883.0
1277.258	-1628.0	-31.1	-102200.0	60139.0	-1065000.0	-1946.0
1277.401	-1685.1	-1404.3	-85378.9	400953.0	330452.0	-11093.0
1277.402	-2130.7	-1411.4	-111000.0	408417.0	122610.0	-9446.0
1277.403	-1946.8	-1696.2	-99333.2	303732.0	147233.0	-12590.0
1277.404	-2388.1	-1708.7	-124700.0	311247.0	-59429.0	-11096.0
1277.405	392.6	1354.3	-18494.0	-291290.0	-591663.0	10013.0
1277.406	-39.0	1434.1	-42431.4	-227055.0	-793320.0	10748.0
1277.407	162.6	1325.4	-29843.6	-309078.0	-787314.0	10145.0
1277.408	-273.4	1400.3	-53933.4	-248801.0	-987421.0	11047.0
1277.409	-1659.8	-1426.3	-83723.0	404011.0	345651.0	-10895.0
1277.410	-2108.3	-1432.1	-109500.0	410205.0	137683.0	-9282.0
1277.411	-1971.4	-1792.1	-100800.0	296372.0	131173.0	-12731.0
1277.412	-2410.1	-1699.6	-126100.0	307655.0	-74722.0	-11349.0
1277.413	416.2	1357.9	-17461.9	-293975.0	-580968.0	10005.0
1277.414	-15.5	1428.6	-41380.8	-235383.0	-782953.0	10672.0
1277.415	146.6	1319.6	-30650.7	-307415.0	-796762.0	10033.0
1277.416	-288.7	1392.4	-54729.2	-248120.0	-996140.1	10955.0
1277.417	-1758.4	-943.7	-92341.3	210081.0	-699328.0	-10248.0
1277.418	-2199.5	-911.9	-117700.0	220310.0	-906591.0	-8561.0

1277.419	-2020.3	-1356.4	-104900.0	112900.0	-884582.0	-11704.0
1277.420	-2456.2	-1350.4	-129900.0	122748.0	-1090000.0	-10212.0
1277.421	450.5	990.9	-19201.8	-155242.0	467193.0	9383.0
1277.422	14.5	1037.5	-43755.1	-110449.0	261769.0	10089.0
1277.423	227.0	1026.9	-29112.5	-135047.0	276538.0	9413.0
1277.424	-214.1	1103.7	-53368.3	-74460.0	71734.0	10297.0
1277.425	-1725.1	-1012.7	-88981.0	221518.0	-685858.0	-9986.0
1277.426	-2164.9	-986.1	-114300.0	231398.0	-892688.9	-8387.0
1277.427	-2042.5	-1330.9	-106300.0	108461.0	-897778.0	-11988.0
1277.428	-2478.7	-1330.8	-131400.0	117943.0	-1103000.0	-10476.0
1277.429	477.5	981.7	-18515.5	-161468.0	481147.0	9347.0
1277.430	39.8	1048.9	-43235.2	-104247.0	271765.0	10075.0
1277.431	205.5	1011.6	-30038.0	-141887.0	264590.0	9343.0
1277.432	-234.4	1098.1	-54227.5	-74922.0	60952.0	10234.0
1277.433	-671.9	-70.5	-35970.2	199831.0	305441.0	-1511.0
1277.434	-1117.2	-45.8	-61585.5	212436.0	93317.0	-164.0
1277.435	-1464.6	-951.1	-71842.1	-81078.0	-292218.0	-5941.0
1277.436	-1903.1	-956.3	-97048.9	-67907.0	-499466.0	-4477.0
1277.437	-28.2	484.4	-17104.3	-13966.0	40502.0	2306.0
1277.438	-465.7	548.4	-42201.8	35186.0	-170186.0	3443.0
1277.439	-828.0	328.5	-49622.5	-122117.0	-566333.0	2453.0
1277.440	-1265.3	377.9	-73916.8	-71247.0	-764806.0	3388.0
1277.441	-680.8	24.9	-37755.9	136535.0	-5676.0	-1277.0
1277.442	-1123.6	50.1	-63207.6	147546.0	-214995.0	63.0
1277.443	-1485.0	-858.7	-73427.0	-138170.0	-598058.0	-5674.0
1277.444	-1921.3	-892.7	-98475.3	-126682.0	-803975.0	-4166.0
1277.445	-20.6	392.0	-18189.6	44682.0	348745.0	2113.0
1277.446	-461.0	454.9	-43291.9	94892.0	136819.0	3211.0
1277.447	-809.9	247.2	-49478.5	-68305.0	-252355.0	2230.0
1277.448	-1250.6	296.0	-73835.1	-17663.0	-452803.0	3169.0
1277.449	-580.2	-135.1	-25694.5	244751.0	367889.0	-1187.0
1277.450	-1029.5	-118.1	-51620.4	258593.0	152270.0	147.0
1277.451	-1516.4	-913.0	-75244.5	-91203.0	-325909.0	-6977.0
1277.452	-1950.3	-920.8	-100200.0	-77262.0	-530645.0	-5511.0
1277.453	38.9	500.8	-15795.4	-8887.0	41787.0	2600.0
1277.454	-403.7	561.9	-40865.8	44444.0	-172919.0	3702.0
1277.455	-888.7	295.8	-52495.4	-126257.0	-592303.0	2248.0
1277.456	-1316.1	346.1	-76742.2	-78763.0	-785932.0	3206.0
1277.457	-595.7	-31.4	-27893.6	177066.0	51891.0	-949.0
1277.458	-1043.2	-13.0	-53686.1	188967.0	-161844.0	385.0
1277.459	-1539.2	-798.9	-76961.6	-150508.0	-634433.0	-6725.0
1277.460	-1970.6	-833.5	-101700.0	-137444.0	-837784.0	-5228.0
1277.461	52.2	411.0	-16886.9	48228.0	355485.0	2383.0
1277.462	-393.5	472.3	-42041.5	101267.0	137776.0	3498.0
1277.463	-873.4	211.4	-52403.8	-73078.0	-282712.0	1989.0
1277.464	-1304.0	259.5	-76727.6	-26442.0	-478363.0	2953.0
1277.529	-414.0	-353.3	-15022.0	112535.0	357489.0	-4675.0
1277.530	-1912.1	-243.8	-101700.0	156280.0	-339815.0	580.0
1277.531	-667.0	-646.7	-27706.9	19012.0	173825.0	-6126.0
1277.532	-2130.7	-696.6	-111900.0	63942.0	-514243.0	-1253.0
1277.533	197.0	353.2	3740.1	-129683.0	80538.0	1456.0
1277.534	-1243.0	476.3	-78767.5	-2720.0	-599473.0	4271.0
1277.535	-31.4	316.6	-7682.8	-149942.0	-115233.0	1508.0
1277.536	-1494.2	539.0	-88544.5	34825.0	-784661.0	4549.0
1277.537	-388.4	-395.4	-12641.1	120563.0	378294.0	-4442.0
1277.538	-1890.0	-302.5	-99138.8	165940.0	-321910.0	777.0
1277.539	-686.6	-636.2	-28979.6	15048.0	160906.0	-6435.0
1277.540	-2145.0	-692.2	-112800.0	61083.0	-527086.0	-1490.0
1277.541	220.1	353.2	4288.1	-132071.0	87206.0	1483.0
1277.542	-1232.5	493.5	-78404.6	6209.0	-605150.0	4290.0
1277.543	-48.6	311.1	-8484.3	-148823.0	-125086.0	1416.0
1277.544	-1498.8	538.3	-89183.7	39158.0	-785321.0	4474.0

1277.545	-432.1	-249.4	-17515.4	51703.0	46800.0	-4337.0
1277.546	-1914.8	-79.5	-102800.0	97425.0	-646716.0	765.0
1277.547	-690.6	-547.9	-29484.5	-38626.0	-134551.0	-5871.0
1277.548	-2145.7	-626.6	-113100.0	3742.0	-821308.0	-930.0
1277.549	211.4	254.8	2772.1	-80103.0	395785.0	1211.0
1277.550	-1238.1	377.1	-79888.9	52031.0	-292140.0	4082.0
1277.551	-10.5	226.5	-7340.5	-98582.0	205932.0	1293.0
1277.552	-1481.3	473.5	-88385.1	100416.0	-472348.0	4294.0
1277.553	-404.3	-272.7	-14461.4	63754.0	66137.0	-4159.0
1277.554	-1893.8	-180.2	-100500.0	104514.0	-628994.0	987.0
1277.555	-710.3	-522.0	-30768.9	-42829.0	-147532.0	-6195.0
1277.556	-2160.8	-561.0	-114100.0	1867.0	-831900.0	-1233.0
1277.557	239.8	259.5	3320.6	-78014.0	405655.0	1262.0
1277.558	-1222.7	397.3	-79448.0	56834.0	-295061.0	4117.0
1277.559	-30.2	222.5	-8224.5	-98705.0	193553.0	1199.0
1277.560	-1492.6	469.1	-89123.7	101652.0	-477524.0	4222.0
1278.1	1519.0	-4.2	-69728.0	-4312.0	-890592.0	815.0
1278.2	1111.7	0.0	-49537.2	-2438.0	-790149.0	891.0
1278.3	1586.0	-0.2	-70197.0	-3408.0	-1280000.0	973.0
1278.4	1178.6	2.0	-50015.4	-2382.0	-1179000.0	1049.0
1278.5	2033.1	104.7	-98863.8	-19247.0	-1168000.0	3760.0
1278.6	1622.2	-7.1	-78175.4	-7081.0	-1067000.0	4003.0
1278.7	4097.4	263.7	-220300.0	-46318.0	-2273000.0	-8868.0
1278.8	3689.1	239.5	-200000.0	-42867.0	-2172000.0	-8753.0
1278.9	3466.4	384.9	-183900.0	-77546.0	-1934000.0	-6823.0
1278.10	3054.1	166.4	-162900.0	-28878.0	-1832000.0	-6347.0
1278.11	3531.8	386.9	-184300.0	-79585.0	-2322000.0	-6670.0
1278.12	3122.4	344.7	-163900.0	-71740.0	-2220000.0	-6521.0
1278.13	3976.0	184.4	-212100.0	-29848.0	-2211000.0	-3333.0
1278.14	3566.5	167.2	-191700.0	-27197.0	-2110000.0	-3228.0
1278.15	1769.3	-14.3	-84283.2	-8914.0	-1026000.0	-86.0
1278.16	1270.1	1.4	-55278.2	-1804.0	-756394.0	1716.0
1278.17	1361.4	-3.7	-64039.8	-4401.0	-924845.0	-10.0
1278.18	862.4	3.8	-35077.7	-1156.0	-655724.0	1790.0
1278.19	1939.3	163.6	-94566.3	-33557.0	-1115000.0	-967.0
1278.20	1104.0	5.2	-45655.5	-583.0	-666864.0	2314.0
1278.21	1530.2	128.7	-74174.3	-27051.0	-1014000.0	-831.0
1278.22	696.0	3.9	-25412.4	-1864.0	-566035.0	2388.0
1278.23	1836.8	103.9	-85030.5	-20768.0	-1414000.0	-98.0
1278.24	1337.7	4.5	-55811.6	-1923.0	-1146000.0	1871.0
1278.25	1427.1	-1.8	-64415.8	-4147.0	-1313000.0	149.0
1278.26	929.3	0.5	-35536.3	-3427.0	-1045000.0	1948.0
1278.27	2284.6	169.0	-113600.0	-33279.0	-1303000.0	2743.0
1278.28	1780.4	-7.7	-83901.2	-7368.0	-1033000.0	4826.0
1278.29	1872.7	-9.0	-92739.4	-7634.0	-1202000.0	3101.0
1278.30	1371.7	-2.6	-63610.3	-4815.0	-931411.1	4904.0
1278.31	4348.1	281.0	-234900.0	-49219.0	-2409000.0	-9798.0
1278.32	3849.8	251.1	-205900.0	-46187.0	-2140000.0	-7954.0
1278.33	3939.1	257.1	-214600.0	-45398.0	-2307000.0	-9681.0
1278.34	3440.9	226.5	-185600.0	-42249.0	-2039000.0	-7836.0
1278.35	3881.9	427.3	-208200.0	-83533.0	-2157000.0	-8392.0
1278.36	3047.1	278.1	-159300.0	-55529.0	-1708000.0	-5131.0
1278.37	3472.6	386.3	-187800.0	-75901.0	-2056000.0	-8243.0
1278.38	2635.7	120.3	-138500.0	-19665.0	-1607000.0	-4765.0
1278.39	3714.6	407.5	-198500.0	-79792.0	-2067000.0	-7756.0
1278.40	3214.6	294.8	-169100.0	-58947.0	-1799000.0	-5762.0
1278.41	3305.3	366.4	-178000.0	-72145.0	-1966000.0	-7608.0
1278.42	2802.9	128.6	-148200.0	-20837.0	-1697000.0	-5378.0
1278.43	3782.8	417.5	-198900.0	-85490.0	-2457000.0	-7624.0
1278.44	3280.7	356.4	-169600.0	-73735.0	-2187000.0	-5716.0
1278.45	3373.5	375.3	-178500.0	-77662.0	-2356000.0	-7475.0
1278.46	2871.4	314.2	-149200.0	-65922.0	-2085000.0	-5567.0

1278.47	4226.9	196.9	-226700.0	-31675.0	-2347000.0	-4254.0
1278.48	3725.0	171.9	-197400.0	-27846.0	-2076000.0	-2412.0
1278.49	3817.6	179.7	-206300.0	-29256.0	-2245000.0	-4149.0
1278.50	3315.5	154.7	-177100.0	-25258.0	-1974000.0	-2307.0
1278.51	1671.8	288.1	-78661.7	-92081.0	-958179.0	1206.0
1278.52	1253.9	219.8	-57860.3	-81613.0	-853029.0	1470.0
1278.53	1754.0	339.9	-83508.9	-130568.0	-995795.0	1883.0
1278.54	1338.5	298.6	-62805.4	-120487.0	-892243.0	2115.0
1278.55	1737.8	289.0	-79055.2	-92628.0	-1346000.0	1352.0
1278.56	1319.8	220.3	-58253.7	-82188.0	-1241000.0	1615.0
1278.57	2189.8	317.8	-107700.0	-99724.0	-1237000.0	4161.0
1278.58	1771.9	284.7	-86930.0	-92773.0	-1132000.0	4374.0
1278.59	4245.4	435.5	-228300.0	-86809.0	-2336000.0	-8600.0
1278.60	3835.2	413.1	-207900.0	-85334.0	-2233000.0	-8467.0
1278.61	3610.0	392.1	-191400.0	-84326.0	-1994000.0	-6232.0
1278.62	3202.0	366.0	-171100.0	-87177.0	-1893000.0	-6099.0
1278.63	3734.4	593.8	-198700.0	-182330.0	-2054000.0	-5891.0
1278.64	3319.7	559.5	-178000.0	-173447.0	-1950000.0	-5679.0
1278.65	3679.2	389.1	-191900.0	-89926.0	-2384000.0	-6103.0
1278.66	3268.2	366.1	-171500.0	-87801.0	-2281000.0	-5957.0
1278.67	4127.6	456.3	-220500.0	-102839.0	-2274000.0	-3279.0
1278.68	3715.5	432.3	-199900.0	-98909.0	-2171000.0	-3137.0
1278.69	1399.4	-139.7	-69164.5	120733.0	-863680.0	-1783.0
1278.70	991.4	-131.6	-49138.9	112327.0	-764630.0	-1814.0
1278.71	1321.0	-204.5	-69538.7	176475.0	-850999.0	-3807.0
1278.72	914.0	-182.8	-49620.2	158351.0	-751791.0	-3869.0
1278.73	1465.5	-138.9	-69460.9	119766.0	-1252000.0	-1609.0
1278.74	1057.5	-130.9	-49428.5	111401.0	-1153000.0	-1634.0
1278.75	1908.1	-149.3	-97445.4	133122.0	-1136000.0	1488.0
1278.76	1501.5	-141.8	-77454.4	123663.0	-1038000.0	1446.0
1278.77	3958.6	-193.1	-217000.0	186788.0	-2231000.0	-10419.0
1278.78	3553.8	-185.8	-197000.0	178861.0	-2133000.0	-10407.0
1278.79	3327.5	-168.5	-180600.0	162078.0	-1893000.0	-8286.0
1278.80	2919.4	-164.5	-160500.0	155030.0	-1793000.0	-8270.0
1278.81	3247.3	-243.3	-180700.0	218750.0	-1876000.0	-10225.0
1278.82	2842.4	-234.2	-160800.0	209778.0	-1779000.0	-10269.0
1278.83	3392.7	-167.7	-180900.0	161484.0	-2281000.0	-8113.0
1278.84	2985.9	-163.6	-160800.0	154210.0	-2182000.0	-8101.0
1278.85	3836.0	-162.3	-209000.0	163232.0	-2166000.0	-5122.0
1278.86	3429.4	-159.5	-188900.0	156859.0	-2067000.0	-5099.0
1278.87	2770.1	224.2	-142700.0	-73497.0	-1551000.0	-2619.0
1278.88	2358.8	185.6	-122200.0	-66133.0	-1448000.0	-2471.0
1278.89	3176.3	251.7	-166300.0	-88693.0	-1765000.0	-3661.0
1278.90	2764.9	214.0	-145800.0	-81022.0	-1663000.0	-3514.0
1278.91	2834.4	226.2	-143000.0	-73925.0	-1937000.0	-2460.0
1278.92	2424.9	188.0	-122600.0	-67123.0	-1836000.0	-2315.0
1278.93	3284.3	280.8	-171800.0	-86443.0	-1828000.0	391.0
1278.94	2868.1	-44.6	-150400.0	-57711.0	-1725000.0	934.0
1278.95	3020.3	252.2	-157300.0	-77453.0	-1685000.0	-3565.0
1278.96	2516.6	168.1	-127900.0	-59400.0	-1414000.0	-1610.0
1278.97	2611.0	213.5	-136900.0	-71468.0	-1584000.0	-3422.0
1278.98	2105.4	134.3	-107300.0	-53654.0	-1312000.0	-1473.0
1278.99	3188.1	271.0	-167200.0	-76933.0	-1775000.0	-4186.0
1278.100	2348.5	152.2	-118000.0	-56687.0	-1324000.0	-982.0
1278.101	2777.1	232.0	-146600.0	-71044.0	-1673000.0	-4043.0
1278.102	1938.2	118.0	-97588.7	-52656.0	-1222000.0	-850.0
1278.103	3426.1	280.9	-180900.0	-89499.0	-1900000.0	-4599.0
1278.104	2922.5	192.7	-151400.0	-73166.0	-1629000.0	-2644.0
1278.105	3015.0	241.3	-160400.0	-82751.0	-1797000.0	-4453.0
1278.106	2511.3	159.4	-130900.0	-67434.0	-1526000.0	-2508.0
1278.107	3087.4	297.5	-157900.0	-91205.0	-2073000.0	-3496.0
1278.108	2577.9	-37.9	-127600.0	-50669.0	-1802000.0	-1183.0

1278.109	2675.4	216.2	-137300.0	-71969.0	-1970000.0	-3264.0
1278.110	2168.3	-21.5	-107200.0	-39406.0	-1699000.0	-1088.0
1278.111	3528.3	-44.2	-185300.0	-60910.0	-1963000.0	-58.0
1278.112	3032.1	254.1	-157000.0	-81533.0	-1692000.0	1338.0
1278.113	3124.2	232.8	-165800.0	-70248.0	-1861000.0	-327.0
1278.114	2616.4	-42.5	-135800.0	-54541.0	-1590000.0	1843.0
1278.115	2921.5	361.4	-151000.0	-139903.0	-1611000.0	-2205.0
1278.116	2507.0	305.9	-130400.0	-127334.0	-1508000.0	-1957.0
1278.117	3012.2	470.9	-156300.0	-180702.0	-1654000.0	-1634.0
1278.118	2587.8	403.1	-135100.0	-169487.0	-1544000.0	-1353.0
1278.119	3332.3	380.1	-174800.0	-155956.0	-1826000.0	-3311.0
1278.120	2919.4	349.8	-154200.0	-147314.0	-1724000.0	-3107.0
1278.121	2987.8	362.1	-151400.0	-140548.0	-2000000.0	-2059.0
1278.122	2572.1	308.1	-130700.0	-127983.0	-1896000.0	-1814.0
1278.123	3438.9	373.7	-180100.0	-144706.0	-1890000.0	752.0
1278.124	3023.2	351.7	-159300.0	-137800.0	-1786000.0	975.0
1278.125	2623.7	-152.5	-137800.0	94949.0	-1512000.0	-4606.0
1278.126	2219.6	-139.0	-117900.0	80067.0	-1415000.0	-4717.0
1278.127	2554.1	-235.4	-138300.0	161021.0	-1505000.0	-6663.0
1278.128	2145.3	-226.4	-118200.0	152007.0	-1405000.0	-6697.0
1278.129	3026.8	-156.3	-160300.0	87117.0	-1726000.0	-5570.0
1278.130	2620.0	-135.5	-140400.0	65969.0	-1627000.0	-5622.0
1278.131	2690.4	-151.9	-138100.0	94438.0	-1901000.0	-4456.0
1278.132	2287.2	-135.1	-118300.0	77317.0	-1804000.0	-4547.0
1278.133	3135.9	-154.9	-166200.0	103874.0	-1788000.0	-1395.0
1278.134	2729.0	-152.4	-146200.0	97538.0	-1689000.0	-1403.0
1278.135	1865.3	-57.6	-91493.2	108600.0	-1089000.0	-950.0
1278.136	1458.6	-16.1	-71495.2	73059.0	-988871.0	-1014.0
1278.137	1979.3	-46.8	-98863.5	117347.0	-1154000.0	-1635.0
1278.138	1572.4	-37.2	-78732.6	105904.0	-1054000.0	-1601.0
1278.139	1932.7	-42.2	-91916.8	96634.0	-1479000.0	-838.0
1278.140	1525.2	-33.0	-71762.9	85385.0	-1378000.0	-803.0
1278.141	2377.5	-55.4	-120100.0	112759.0	-1367000.0	2175.0
1278.142	1970.7	-45.8	-99986.5	102282.0	-1267000.0	2211.0
1278.143	2115.3	-66.0	-106000.0	117850.0	-1224000.0	-1816.0
1278.144	1616.8	-10.9	-77229.4	70310.0	-954905.0	-203.0
1278.145	1707.3	-54.4	-85796.2	105046.0	-1123000.0	-1787.0
1278.146	1208.7	-0.6	-57037.8	58625.0	-853990.1	-169.0
1278.147	2281.9	-71.4	-115600.0	123911.0	-1314000.0	-2394.0
1278.148	1450.9	-1.2	-67617.6	60930.0	-865530.9	362.0
1278.149	1873.9	-60.1	-95441.5	111268.0	-1213000.0	-2364.0
1278.150	1042.5	0.0	-47388.1	56129.0	-764534.0	423.0
1278.151	2229.3	-53.6	-113300.0	125371.0	-1289000.0	-2506.0
1278.152	1730.7	-19.0	-84518.5	93374.0	-1020000.0	-829.0
1278.153	1821.3	-44.2	-93166.4	114293.0	-1188000.0	-2471.0
1278.154	1322.7	-0.5	-64351.8	75707.0	-919218.0	-820.0
1278.155	2181.4	-49.2	-106300.0	105075.0	-1613000.0	-1707.0
1278.156	1683.9	6.3	-77623.3	56970.0	-1344000.0	-95.0
1278.157	1774.5	-39.7	-86212.6	93576.0	-1513000.0	-1673.0
1278.158	1275.5	5.2	-57383.2	53848.0	-1243000.0	-27.0
1278.159	2627.6	-61.5	-134600.0	120406.0	-1502000.0	1302.0
1278.160	2128.7	-48.2	-105700.0	105297.0	-1233000.0	3046.0
1278.161	2219.5	-52.9	-114400.0	109751.0	-1401000.0	1340.0
1278.162	1720.4	-39.2	-85502.0	94279.0	-1132000.0	3083.0
1278.163	2011.5	357.3	-98656.7	-65806.0	-1155000.0	-988.0
1278.164	1599.8	325.5	-78208.2	-60562.0	-1053000.0	-781.0
1278.165	2106.5	437.9	-104300.0	-114343.0	-1200000.0	-357.0
1278.166	1695.6	375.6	-83870.5	-108211.0	-1099000.0	-124.0
1278.167	2125.4	383.5	-105400.0	-60413.0	-1221000.0	-1706.0
1278.168	1713.4	351.4	-84890.5	-55112.0	-1119000.0	-1500.0
1278.169	2077.7	390.8	-99042.4	-75306.0	-1544000.0	-901.0
1278.170	1665.9	326.3	-78603.4	-61155.0	-1442000.0	-634.0

1278.171	2528.2	367.7	-127700.0	-67129.0	-1433000.0	1926.0
1278.172	2116.3	344.4	-107200.0	-63541.0	-1332000.0	2202.0
1278.173	1742.6	-147.1	-91082.7	177212.0	-1052000.0	-3551.0
1278.174	1336.5	-142.1	-71106.1	170256.0	-953669.1	-3598.0
1278.175	1668.5	-218.6	-91533.4	237666.0	-1042000.0	-5567.0
1278.176	1260.4	-210.0	-71519.2	228375.0	-942829.0	-5598.0
1278.177	1856.7	-134.4	-98393.8	185980.0	-1114000.0	-4180.0
1278.178	1449.3	-134.8	-78333.1	182344.0	-1015000.0	-4204.0
1278.179	1809.9	-146.1	-91413.1	176787.0	-1441000.0	-3374.0
1278.180	1402.3	-141.7	-71387.7	169581.0	-1342000.0	-3415.0
1278.181	2251.6	-147.3	-119500.0	182360.0	-1325000.0	-344.0
1278.182	1846.5	-143.1	-99458.5	176656.0	-1227000.0	-334.0
1278.183	1203.2	18.4	-71626.1	-4756.0	-752200.0	862.0
1278.184	794.7	12.8	-51327.0	-9115.0	-651254.0	956.0
1278.185	1269.8	18.9	-72076.1	-6708.0	-1141000.0	1014.0
1278.186	860.6	13.5	-51731.9	-9896.0	-1040000.0	1110.0
1278.187	990.6	17.8	-72674.0	-13653.0	-659768.0	944.0
1278.188	579.4	18.4	-52198.6	-13592.0	-558116.0	1049.0
1278.189	1715.2	30.2	-100400.0	-119.0	-1030000.0	3959.0
1278.190	1305.9	24.0	-80054.7	-3410.0	-928044.1	4044.0
1278.191	3774.7	-47.7	-221000.0	-35516.0	-2135000.0	-8421.0
1278.192	3369.9	46.3	-201200.0	14403.0	-2036000.0	-8309.0
1278.193	3139.6	-27.0	-184100.0	-25295.0	-1794000.0	-6133.0
1278.194	2734.2	52.5	-164300.0	14001.0	-1694000.0	-6035.0
1278.195	3207.2	7.7	-184700.0	-6706.0	-2182000.0	-5958.0
1278.196	2799.9	49.6	-164600.0	12644.0	-2082000.0	-5874.0
1278.197	2929.0	61.7	-185600.0	11710.0	-1701000.0	-6086.0
1278.198	2519.5	55.7	-165200.0	8730.0	-1599000.0	-6001.0
1278.199	3652.0	-19.6	-212800.0	-23038.0	-2071000.0	-3019.0
1278.200	3244.5	15.6	-192700.0	-1616.0	-1971000.0	-2921.0
1278.201	2443.5	271.4	-143900.0	-88666.0	-1404000.0	-2661.0
1278.202	2029.9	1.1	-122700.0	-35101.0	-1303000.0	-2112.0
1278.203	2853.7	305.0	-167800.0	-106279.0	-1621000.0	-3723.0
1278.204	2438.8	259.5	-147000.0	-96025.0	-1516000.0	-3559.0
1278.205	2508.8	232.9	-144200.0	-78063.0	-1793000.0	-2423.0
1278.206	2095.5	1.0	-123100.0	-35996.0	-1691000.0	-1951.0
1278.207	2227.2	10.4	-144200.0	-41557.0	-1312000.0	-2176.0
1278.208	1817.4	7.9	-123800.0	-44096.0	-1210000.0	-2088.0
1278.209	2958.9	289.6	-173000.0	-91152.0	-1684000.0	425.0
1278.210	2543.7	-5.9	-151500.0	-38260.0	-1581000.0	1002.0
1278.211	1548.5	21.7	-92737.7	45939.0	-951375.0	-1120.0
1278.212	1139.3	19.3	-72457.7	44346.0	-850216.0	-1027.0
1278.213	1661.2	22.4	-99960.5	63651.0	-1016000.0	-1767.0
1278.214	1253.5	18.9	-79750.7	61936.0	-915537.0	-1675.0
1278.215	1614.4	21.9	-93070.1	45217.0	-1340000.0	-965.0
1278.216	1205.2	19.8	-72795.1	43398.0	-1239000.0	-873.0
1278.217	1333.0	27.6	-93248.9	39811.0	-857873.1	-1038.0
1278.218	930.9	28.9	-73213.0	34725.0	-761090.0	-956.0
1278.219	2060.8	27.4	-121400.0	47525.0	-1229000.0	1976.0
1278.220	1651.6	24.3	-101100.0	45952.0	-1128000.0	2063.0
1278.221	1849.0	60.1	-68805.8	-9461.0	-1058000.0	723.0
1278.222	1439.6	-0.6	-48327.7	-1984.0	-957579.0	892.0
1278.223	1914.6	3.3	-69045.2	-748.0	-1447000.0	974.0
1278.224	1507.3	3.4	-48858.4	-1154.0	-1347000.0	1048.0
1278.225	2067.1	59.8	-67964.1	-8236.0	-1170000.0	727.0
1278.226	1658.0	-8.8	-47549.3	-4213.0	-1070000.0	894.0
1278.227	2362.6	146.7	-97845.8	-28152.0	-1335000.0	3682.0
1278.228	1953.3	117.0	-77451.8	-22853.0	-1234000.0	3808.0
1278.229	4423.4	220.3	-218900.0	-32676.0	-2439000.0	-8779.0
1278.230	4016.9	239.6	-198800.0	-40288.0	-2338000.0	-8749.0
1278.231	3789.2	186.6	-181900.0	-29588.0	-2098000.0	-6451.0
1278.232	3381.6	166.2	-161700.0	-26293.0	-1998000.0	-6343.0

1278.233	3854.8	187.4	-182300.0	-30761.0	-2486000.0	-6296.0
1278.234	3446.1	167.0	-162000.0	-27937.0	-2385000.0	-6187.0
1278.235	4007.6	186.7	-181100.0	-27709.0	-2209000.0	-6448.0
1278.236	3599.7	166.1	-160800.0	-25320.0	-2109000.0	-6342.0
1278.237	4303.6	184.3	-210800.0	-27548.0	-2377000.0	-3329.0
1278.238	3894.5	167.0	-190500.0	-25108.0	-2276000.0	-3225.0
1278.239	3098.7	224.4	-141600.0	-72662.0	-1719000.0	-2619.0
1278.240	2687.3	183.8	-121000.0	-65225.0	-1616000.0	-2469.0
1278.241	3505.1	251.0	-165200.0	-87898.0	-1933000.0	-3660.0
1278.242	3093.6	211.3	-144600.0	-80128.0	-1830000.0	-3510.0
1278.243	3165.0	224.7	-142000.0	-73630.0	-2107000.0	-2461.0
1278.244	2753.6	185.8	-121500.0	-66246.0	-2004000.0	-2313.0
1278.245	3316.7	190.4	-140700.0	-62228.0	-1831000.0	-2551.0
1278.246	2905.4	156.7	-120100.0	-56518.0	-1728000.0	-2414.0
1278.247	3612.2	241.0	-170500.0	-73878.0	-1996000.0	472.0
1278.248	3202.5	207.2	-150000.0	-68631.0	-1894000.0	607.0
1278.249	2192.7	-75.5	-90390.0	122420.0	-1255000.0	-899.0
1278.250	1785.1	-24.4	-70393.0	79933.0	-1154000.0	-991.0
1278.251	2307.0	-47.1	-97836.3	117951.0	-1320000.0	-1637.0
1278.252	1898.7	-37.5	-77656.1	106921.0	-1219000.0	-1601.0
1278.253	2259.1	-42.8	-90844.8	97652.0	-1644000.0	-838.0
1278.254	1852.5	-33.0	-70729.0	86001.0	-1544000.0	-805.0
1278.255	2410.7	-75.3	-89684.4	122696.0	-1366000.0	-900.0
1278.256	2005.0	36.3	-69715.6	42654.0	-1265000.0	-1139.0
1278.257	2705.0	-55.9	-119100.0	113530.0	-1533000.0	2174.0
1278.258	2298.0	-46.0	-98951.8	102973.0	-1432000.0	2210.0
1278.401	1631.5	195.3	-16605.7	309947.0	-199899.0	11220.0
1278.402	2049.0	248.2	-42945.3	260396.0	-419921.0	9533.0
1278.403	1368.6	-138.8	-468.8	390499.0	133317.0	10670.0
1278.404	1790.0	-88.6	-27016.1	340271.0	-87400.0	8892.0
1278.405	197.2	128.6	-105000.0	-241234.0	-578323.0	-9674.0
1278.406	602.3	79.8	-129200.0	-232417.0	-793151.0	-10719.0
1278.407	-43.9	191.7	-90723.7	-267041.0	-231068.0	-7837.0
1278.408	358.9	142.8	-114900.0	-260140.0	-444063.0	-8868.0
1278.409	1637.5	97.6	-17646.0	311218.0	-198130.0	11925.0
1278.410	2052.0	171.4	-43781.0	262208.0	-416489.0	10220.0
1278.411	1366.5	-17.7	413.4	389428.0	132550.0	9888.0
1278.412	1788.8	11.6	-26205.4	339369.0	-88876.0	8144.0
1278.413	202.0	133.9	-105500.0	-241499.0	-568823.0	-9216.0
1278.414	606.0	85.3	-129800.0	-233751.0	-783217.0	-10269.0
1278.415	-43.5	187.6	-90304.3	-267717.0	-242926.0	-8320.0
1278.416	360.0	143.8	-114500.0	-262955.0	-456411.0	-9367.0
1278.417	1517.4	-8.5	-15327.8	514576.0	-200109.0	11215.0
1278.418	1940.0	25.0	-41972.2	461980.0	-424866.0	9563.0
1278.419	1251.9	-339.2	910.1	599180.0	143459.0	10727.0
1278.420	1678.5	-330.6	-25962.3	547073.0	-82002.0	9018.0
1278.421	296.1	310.1	-97875.9	-440757.0	-572050.0	-9592.0
1278.422	697.8	270.4	-122200.0	-433112.0	-785038.0	-10656.0
1278.423	60.6	366.4	-83736.4	-472243.0	-223698.0	-7913.0
1278.424	458.7	321.4	-107900.0	-468898.0	-433487.0	-8919.0
1278.425	1530.8	-112.0	-16834.2	513257.0	-200585.0	11902.0
1278.426	1953.9	-70.5	-43501.5	460321.0	-425815.0	10230.0
1278.427	1249.0	-208.8	1811.8	597434.0	145230.0	9968.0
1278.428	1675.6	-187.2	-25049.6	544930.0	-80324.0	8242.0
1278.429	305.2	310.6	-98493.9	-443271.0	-565961.0	-9146.0
1278.430	706.5	272.7	-122900.0	-440006.0	-778347.0	-10226.0
1278.431	55.2	365.7	-83220.8	-470488.0	-231269.0	-8411.0
1278.432	454.7	326.3	-107400.0	-463518.0	-442344.0	-9433.0
1278.433	1374.1	492.3	-49702.0	-22815.0	-610691.0	4544.0
1278.434	1789.6	540.2	-75832.9	-59822.0	-834842.0	2879.0
1278.435	585.5	-334.4	-13195.0	153438.0	488809.0	2975.0
1278.436	1005.4	-357.9	-39723.9	108709.0	262245.0	1556.0

1278.437	964.4	-1.0	-76352.9	-20743.0	-742650.0	-4605.0
1278.438	1374.3	3.6	-101100.0	-29308.0	-957780.0	-5738.0
1278.439	147.7	70.2	-37269.9	-62589.0	359979.0	-361.0
1278.440	554.2	19.6	-62088.3	-80203.0	145585.0	-1662.0
1278.441	1351.0	406.5	-50036.4	33477.0	-614850.0	4531.0
1278.442	1767.2	452.6	-76246.4	-1093.0	-836392.0	2882.0
1278.443	551.5	-364.1	-13131.2	217092.0	493853.0	2980.0
1278.444	974.6	-396.8	-39857.9	173488.0	264098.0	1571.0
1278.445	988.2	82.0	-74447.0	-80115.0	-737191.0	-4618.0
1278.446	1395.4	93.7	-99211.2	-91783.0	-950809.0	-5759.0
1278.447	180.0	103.1	-35477.6	-128200.0	359050.0	-377.0
1278.448	583.3	55.0	-60292.9	-146059.0	146924.0	-1681.0
1278.449	1397.8	217.1	-53188.5	-24967.0	-613903.0	6739.0
1278.450	1809.2	224.2	-79102.9	-63771.0	-835797.0	5101.0
1278.451	571.1	-134.0	285.3	224544.0	474058.0	1600.0
1278.452	995.6	-108.8	-25459.9	182874.0	243470.0	131.0
1278.453	984.1	5.1	-78636.3	-60866.0	-722740.0	-3195.0
1278.454	1388.2	-7.3	-103300.0	-86458.0	-934422.0	-4330.0
1278.455	147.1	79.9	-35005.5	-40276.0	322098.0	-1725.0
1278.456	564.6	44.3	-59764.5	-42671.0	99734.0	-3002.0
1278.457	1370.3	143.5	-53233.8	34417.0	-619059.0	6727.0
1278.458	1782.6	145.3	-79217.3	-2691.0	-839832.0	5103.0
1278.459	537.2	-184.4	-1488.4	285366.0	480452.0	1614.0
1278.460	963.7	-170.6	-27098.9	250224.0	247860.0	180.0
1278.461	1012.9	81.6	-76753.1	-139388.0	-721198.0	-3169.0
1278.462	1416.1	69.8	-101600.0	-164494.0	-933399.0	-4357.0
1278.463	174.4	130.7	-33089.4	-100443.0	322833.0	-1739.0
1278.464	589.0	99.2	-57826.6	-102964.0	102547.0	-3019.0
1278.529	617.0	150.5	-2726.7	112665.0	32230.0	5730.0
1278.530	1992.7	289.4	-89413.7	-20599.0	-701734.0	274.0
1278.531	364.0	-142.8	10671.2	179359.0	371641.0	5168.0
1278.532	1771.6	-205.3	-78769.2	37395.0	-372409.0	-495.0
1278.533	187.6	51.3	-30489.9	-35111.0	-84572.0	-1612.0
1278.534	1553.8	-31.3	-112700.0	-55011.0	-808052.0	-5333.0
1278.535	-54.8	123.3	-17290.2	-63546.0	257130.0	516.0
1278.536	1294.1	28.7	-99603.5	-112828.0	-457981.0	-3757.0
1278.537	623.8	74.4	-3763.9	112469.0	31864.0	6395.0
1278.538	1996.1	209.8	-90222.1	-23065.0	-701974.0	934.0
1278.539	361.0	-33.7	13642.8	189181.0	371334.0	4426.0
1278.540	1774.7	29.3	-75253.4	48351.0	-381103.0	-1195.0
1278.541	193.9	56.9	-31140.6	-37057.0	-78029.0	-1174.0
1278.542	1546.5	-35.6	-113200.0	-73741.0	-795310.0	-4900.0
1278.543	-57.0	118.1	-16649.2	-62990.0	246361.0	78.0
1278.544	1307.0	29.4	-99050.7	-95088.0	-477846.0	-4144.0
1278.545	587.5	79.6	-2675.2	171898.0	32070.0	5715.0
1278.546	1975.7	187.7	-90123.5	39446.0	-709859.0	305.0
1278.547	326.7	-190.6	11039.3	242135.0	377720.0	5169.0
1278.548	1746.0	-237.1	-79259.7	100579.0	-374727.0	-495.0
1278.549	214.1	108.1	-28391.6	-94554.0	-81854.0	-1582.0
1278.550	1573.1	58.5	-110600.0	-121450.0	-798709.0	-5363.0
1278.551	-23.1	170.2	-15286.5	-124841.0	260302.0	507.0
1278.552	1320.7	76.8	-97793.2	-177591.0	-453912.0	-3798.0
1278.553	595.1	9.3	-3754.5	171115.0	31005.0	6373.0
1278.554	1977.8	119.3	-90868.2	36489.0	-707245.0	949.0
1278.555	322.6	-99.5	14219.8	253139.0	378193.0	4478.0
1278.556	1744.1	-77.3	-75153.3	117666.0	-379587.0	-1076.0
1278.557	227.2	108.5	-29118.2	-98720.0	-79264.0	-1156.0
1278.558	1571.7	38.5	-111200.0	-150959.0	-790243.0	-4962.0
1278.559	-27.6	168.4	-14664.4	-124231.0	251204.0	70.0
1278.560	1324.9	101.0	-97036.8	-162762.0	-467008.0	-4173.0
1279.1	1527.3	-11.2	-70012.9	-11896.0	-888897.0	-759.0
1279.2	1114.2	-7.3	-49595.8	-9240.0	-785563.0	-852.0

1279.3	1589.3	-10.5	-70264.5	-12830.0	-1272000.0	-920.0
1279.4	1176.2	-6.8	-49876.2	-9914.0	-1168000.0	-1014.0
1279.5	2042.4	45.7	-98844.4	-59467.0	-1171000.0	-4004.0
1279.6	1632.3	-12.6	-78511.0	-14277.0	-1069000.0	-3932.0
1279.7	4129.3	124.4	-220600.0	-144753.0	-2303000.0	8236.0
1279.8	3716.9	113.7	-200200.0	-132310.0	-2200000.0	8181.0
1279.9	3483.0	203.3	-183000.0	-198559.0	-1953000.0	5674.0
1279.10	3074.3	74.1	-163100.0	-95305.0	-1850000.0	5981.0
1279.11	3546.5	205.3	-183300.0	-200451.0	-2337000.0	5508.0
1279.12	3135.1	183.9	-163000.0	-179204.0	-2235000.0	5487.0
1279.13	4001.7	75.5	-212300.0	-108572.0	-2234000.0	2973.0
1279.14	3590.5	68.7	-192000.0	-98739.0	-2132000.0	2908.0
1279.15	1780.6	-15.4	-84656.6	-14070.0	-1026000.0	155.0
1279.16	1273.0	-8.3	-55343.2	-9837.0	-751073.0	-1674.0
1279.17	1367.9	-9.7	-64241.2	-11603.0	-922882.0	62.0
1279.18	860.1	-4.1	-34948.5	-7194.0	-647957.0	-1768.0
1279.19	1946.8	83.7	-94253.1	-86697.0	-1117000.0	486.0
1279.20	1103.5	-5.7	-45579.3	-8577.0	-659221.0	-2285.0
1279.21	1535.2	66.4	-73900.5	-68736.0	-1015000.0	452.0
1279.22	690.9	-2.5	-25165.3	-6240.0	-556329.0	-2381.0
1279.23	1842.3	48.7	-84881.3	-58194.0	-1410000.0	-176.0
1279.24	1334.4	-7.4	-55610.1	-11065.0	-1134000.0	-1837.0
1279.25	1431.0	-9.4	-64532.9	-12144.0	-1307000.0	-99.0
1279.26	922.1	-5.2	-35194.1	-7973.0	-1031000.0	-1930.0
1279.27	2294.6	82.8	-113400.0	-90912.0	-1308000.0	-3205.0
1279.28	1791.2	-14.0	-84248.3	-14861.0	-1034000.0	-4754.0
1279.29	1885.3	-15.2	-93147.1	-16375.0	-1205000.0	-3019.0
1279.30	1379.3	-9.7	-63870.9	-11864.0	-931944.1	-4846.0
1279.31	4382.1	132.6	-235200.0	-154265.0	-2439000.0	9121.0
1279.32	3873.5	118.9	-205800.0	-139239.0	-2164000.0	7335.0
1279.33	3970.4	121.9	-214800.0	-141563.0	-2337000.0	9068.0
1279.34	3461.7	107.7	-185500.0	-126324.0	-2061000.0	7283.0
1279.35	3906.9	224.4	-207600.0	-219116.0	-2182000.0	7132.0
1279.36	3062.9	143.2	-158800.0	-146613.0	-1725000.0	4340.0
1279.37	3495.4	203.6	-187200.0	-198492.0	-2080000.0	7111.0
1279.38	2653.5	49.7	-138700.0	-71255.0	-1623000.0	4537.0
1279.39	3738.5	214.0	-197800.0	-209010.0	-2091000.0	6557.0
1279.40	3231.1	152.0	-168500.0	-155540.0	-1816000.0	4920.0
1279.41	3327.0	193.2	-177400.0	-188297.0	-1989000.0	6535.0
1279.42	2821.9	53.0	-148500.0	-76123.0	-1714000.0	5134.0
1279.43	3799.0	221.4	-197900.0	-216163.0	-2474000.0	6369.0
1279.44	3294.0	189.3	-168700.0	-184775.0	-2201000.0	4646.0
1279.45	3387.6	200.0	-177600.0	-194916.0	-2371000.0	6348.0
1279.46	2882.6	167.9	-148400.0	-163529.0	-2098000.0	4626.0
1279.47	4254.4	80.6	-227000.0	-115915.0	-2371000.0	3868.0
1279.48	3749.2	70.2	-197700.0	-101141.0	-2098000.0	2078.0
1279.49	3842.9	74.2	-206600.0	-106178.0	-2268000.0	3803.0
1279.50	3338.0	63.5	-177300.0	-91364.0	-1995000.0	2014.0
1279.51	1387.1	184.9	-69046.3	-156590.0	-871175.0	1856.0
1279.52	985.0	147.0	-49350.4	-126798.0	-775926.0	1948.0
1279.53	1314.9	230.3	-69899.9	-198059.0	-875186.1	4009.0
1279.54	911.2	206.0	-50067.8	-176739.0	-777631.0	4068.0
1279.55	1449.8	185.4	-69288.6	-157266.0	-1254000.0	1684.0
1279.56	1047.7	147.3	-49594.8	-127385.0	-1159000.0	1774.0
1279.57	1897.0	199.5	-97436.7	-174868.0	-1147000.0	-1376.0
1279.58	1494.7	180.1	-77612.9	-158758.0	-1052000.0	-1335.0
1279.59	3989.0	254.8	-218300.0	-210312.0	-2279000.0	10736.0
1279.60	3578.9	244.4	-198100.0	-200656.0	-2178000.0	10699.0
1279.61	3347.3	233.5	-181400.0	-191559.0	-1931000.0	8497.0
1279.62	2935.0	220.7	-161200.0	-185398.0	-1828000.0	8461.0
1279.63	3233.3	375.9	-180600.0	-323962.0	-1907000.0	10321.0
1279.64	2827.9	356.8	-160600.0	-304967.0	-1810000.0	10361.0

1279.65	3406.8	231.4	-181600.0	-196368.0	-2312000.0	8308.0
1279.66	2997.6	220.8	-161400.0	-185846.0	-2212000.0	8284.0
1279.67	3857.9	269.2	-209800.0	-228731.0	-2208000.0	5260.0
1279.68	3449.5	257.2	-189600.0	-216668.0	-2109000.0	5232.0
1279.69	1656.8	-212.8	-77359.9	74211.0	-935421.0	-1108.0
1279.70	1245.0	-195.8	-57021.1	72186.0	-835497.0	-1314.0
1279.71	1743.9	-298.7	-82458.1	118268.0	-973118.0	-1647.0
1279.72	1331.5	-259.8	-62078.6	111507.0	-873180.9	-1885.0
1279.73	1719.2	-212.0	-77561.6	73327.0	-1318000.0	-1253.0
1279.74	1307.5	-195.0	-57220.5	71381.0	-1218000.0	-1453.0
1279.75	2175.4	-238.7	-106300.0	75137.0	-1215000.0	-4023.0
1279.76	1762.3	-218.5	-85866.0	74350.0	-1114000.0	-4241.0
1279.77	4272.1	-335.9	-228400.0	86021.0	-2342000.0	8948.0
1279.78	3856.6	-321.5	-207900.0	83394.0	-2238000.0	8786.0
1279.79	3626.5	-288.8	-191200.0	77929.0	-1994000.0	6473.0
1279.80	3214.5	-275.8	-170800.0	77298.0	-1892000.0	6315.0
1279.81	3714.9	-379.7	-196300.0	125774.0	-2030000.0	6022.0
1279.82	3300.1	-359.1	-175800.0	124736.0	-1928000.0	5803.0
1279.83	3690.0	-288.2	-191400.0	77343.0	-2378000.0	6326.0
1279.84	3276.7	-275.2	-171000.0	76417.0	-2275000.0	6164.0
1279.85	4146.1	-287.7	-220200.0	74487.0	-2277000.0	3448.0
1279.86	3732.5	-276.3	-199700.0	74227.0	-2174000.0	3297.0
1279.87	1866.1	115.7	-91889.1	-144450.0	-1074000.0	948.0
1279.88	1456.8	94.4	-71714.0	-125711.0	-973590.1	924.0
1279.89	1980.4	128.1	-99274.9	-169455.0	-1137000.0	1587.0
1279.90	1571.1	107.0	-79106.6	-150921.0	-1037000.0	1562.0
1279.91	1930.6	117.1	-92235.1	-145060.0	-1458000.0	787.0
1279.92	1519.6	95.9	-72031.2	-127120.0	-1357000.0	761.0
1279.93	2380.7	146.0	-120600.0	-174595.0	-1354000.0	-2232.0
1279.94	1975.2	-30.8	-100600.0	-55766.0	-1254000.0	-1862.0
1279.95	2119.3	131.2	-106400.0	-157022.0	-1210000.0	1818.0
1279.96	1616.2	81.1	-77518.1	-116287.0	-939043.0	142.0
1279.97	1708.0	110.2	-86207.7	-139480.0	-1109000.0	1790.0
1279.98	1206.8	63.1	-57320.4	-100189.0	-839004.0	107.0
1279.99	2287.1	141.6	-116100.0	-162321.0	-1300000.0	2407.0
1279.100	1448.7	72.3	-67841.2	-108509.0	-848888.0	-441.0
1279.101	1877.4	120.7	-95885.7	-144664.0	-1200000.0	2379.0
1279.102	1038.3	53.9	-47640.2	-94094.0	-748298.0	-480.0
1279.103	2233.9	144.8	-113800.0	-178977.0	-1274000.0	2465.0
1279.104	1730.8	91.1	-84929.7	-139545.0	-1003000.0	788.0
1279.105	1824.3	123.0	-93606.1	-160662.0	-1173000.0	2440.0
1279.106	1321.3	73.3	-64730.1	-123612.0	-902434.9	753.0
1279.107	2181.1	160.5	-106600.0	-180248.0	-1593000.0	1567.0
1279.108	1682.9	-27.7	-77892.2	-49057.0	-1323000.0	247.0
1279.109	1772.4	112.0	-86555.8	-140361.0	-1493000.0	1628.0
1279.110	1272.1	-23.5	-57728.8	-44201.0	-1223000.0	171.0
1279.111	2638.8	-29.0	-135300.0	-60296.0	-1490000.0	-867.0
1279.112	2129.4	131.3	-106100.0	-161326.0	-1219000.0	-3100.0
1279.113	2223.4	116.4	-115000.0	-147618.0	-1389000.0	-1305.0
1279.114	1723.5	-30.1	-86063.4	-52360.0	-1118000.0	-2769.0
1279.115	1724.7	216.1	-90885.7	-232370.0	-1049000.0	3599.0
1279.116	1319.2	184.7	-71067.8	-204253.0	-951063.9	3675.0
1279.117	1643.7	294.3	-91296.3	-291112.0	-1048000.0	5646.0
1279.118	1248.1	253.2	-71821.4	-262899.0	-956466.0	5754.0
1279.119	1833.8	224.6	-98092.4	-255332.0	-1106000.0	4182.0
1279.120	1426.5	207.4	-78006.9	-237867.0	-1007000.0	4213.0
1279.121	1787.1	216.4	-91133.8	-233053.0	-1432000.0	3426.0
1279.122	1382.9	185.2	-71343.3	-205827.0	-1335000.0	3499.0
1279.123	2235.2	219.9	-119400.0	-243721.0	-1325000.0	370.0
1279.124	1830.7	207.7	-99460.9	-230030.0	-1228000.0	419.0
1279.125	2015.0	-230.4	-98440.6	41192.0	-1132000.0	1190.0
1279.126	1599.5	-197.5	-77900.9	39010.0	-1030000.0	904.0

1279.127	2093.3	-342.6	-103000.0	90389.0	-1165000.0	617.0
1279.128	1682.3	-321.2	-82721.6	89902.0	-1066000.0	407.0
1279.129	2130.1	-237.8	-105200.0	29723.0	-1195000.0	1903.0
1279.130	1717.1	-189.8	-84823.2	26053.0	-1095000.0	1676.0
1279.131	2076.8	-230.4	-98615.0	40410.0	-1515000.0	1022.0
1279.132	1660.5	-192.6	-78012.8	36964.0	-1413000.0	754.0
1279.133	2530.3	-247.2	-127200.0	39882.0	-1411000.0	-1786.0
1279.134	2117.2	-235.7	-106800.0	39927.0	-1309000.0	-1969.0
1279.135	2779.3	-136.8	-142000.0	55125.0	-1569000.0	2642.0
1279.136	2365.4	-67.3	-121400.0	37360.0	-1466000.0	2409.0
1279.137	3188.8	-129.5	-165500.0	61032.0	-1791000.0	3650.0
1279.138	2775.1	-108.6	-145000.0	57327.0	-1688000.0	3514.0
1279.139	2840.6	-114.3	-142100.0	47533.0	-1952000.0	2434.0
1279.140	2427.5	-93.8	-121600.0	44004.0	-1849000.0	2300.0
1279.141	3295.5	-143.6	-170900.0	52396.0	-1850000.0	-424.0
1279.142	2881.7	-123.9	-150300.0	48903.0	-1747000.0	-558.0
1279.143	3032.6	-154.1	-156700.0	57908.0	-1706000.0	3592.0
1279.144	2524.3	-61.5	-127100.0	35187.0	-1431000.0	1574.0
1279.145	2620.2	-129.7	-136300.0	53719.0	-1603000.0	3451.0
1279.146	2111.9	-38.2	-106700.0	32225.0	-1329000.0	1439.0
1279.147	3201.6	-165.5	-166500.0	59652.0	-1797000.0	4224.0
1279.148	2354.6	-43.0	-117200.0	31842.0	-1339000.0	928.0
1279.149	2789.1	-141.2	-146100.0	55691.0	-1694000.0	4084.0
1279.150	1942.5	-34.3	-96840.8	32461.0	-1237000.0	820.0
1279.151	3442.1	-144.1	-180200.0	63223.0	-1928000.0	4594.0
1279.152	2933.9	-82.7	-150700.0	49615.0	-1654000.0	2640.0
1279.153	3029.6	-123.4	-159800.0	59921.0	-1825000.0	4460.0
1279.154	2521.3	-46.2	-130200.0	43669.0	-1551000.0	2480.0
1279.155	3095.2	-129.1	-156900.0	50153.0	-2089000.0	3381.0
1279.156	2585.8	-34.0	-127200.0	28142.0	-1814000.0	1362.0
1279.157	2681.6	-108.2	-136300.0	46422.0	-1986000.0	3245.0
1279.158	2173.8	-28.6	-106800.0	29830.0	-1712000.0	1261.0
1279.159	3548.9	-157.6	-185500.0	54176.0	-1987000.0	518.0
1279.160	3040.8	-129.9	-156100.0	49943.0	-1712000.0	-1368.0
1279.161	3136.4	-137.4	-165100.0	51398.0	-1884000.0	386.0
1279.162	2628.7	-109.4	-135600.0	46774.0	-1610000.0	-1501.0
1279.163	2640.0	230.8	-138300.0	-148653.0	-1555000.0	4815.0
1279.164	2231.8	214.4	-118300.0	-133161.0	-1456000.0	4852.0
1279.165	2555.4	291.7	-138800.0	-208020.0	-1550000.0	6926.0
1279.166	2146.4	261.5	-118800.0	-181437.0	-1450000.0	6987.0
1279.167	3047.5	247.8	-160900.0	-150111.0	-1777000.0	5785.0
1279.168	2639.8	231.2	-140900.0	-134479.0	-1678000.0	5820.0
1279.169	2702.4	252.2	-138300.0	-165350.0	-1939000.0	4583.0
1279.170	2294.4	214.9	-118500.0	-133761.0	-1839000.0	4680.0
1279.171	3150.7	232.1	-166700.0	-157025.0	-1831000.0	1543.0
1279.172	2743.1	221.1	-146800.0	-144918.0	-1733000.0	1647.0
1279.173	2910.1	-251.4	-149300.0	109336.0	-1605000.0	2316.0
1279.174	2496.5	-238.2	-128800.0	108368.0	-1503000.0	2093.0
1279.175	2993.0	-347.2	-154100.0	156074.0	-1639000.0	1784.0
1279.176	2581.2	-329.7	-133800.0	153174.0	-1539000.0	1578.0
1279.177	3319.0	-235.3	-172800.0	119365.0	-1823000.0	3385.0
1279.178	2906.6	-231.6	-152400.0	119228.0	-1723000.0	3187.0
1279.179	2971.4	-251.8	-149400.0	108126.0	-1987000.0	2173.0
1279.180	2559.3	-238.1	-129000.0	107573.0	-1886000.0	1957.0
1279.181	3428.8	-257.9	-178200.0	109181.0	-1885000.0	-664.0
1279.182	3013.9	-247.5	-157700.0	108140.0	-1783000.0	-829.0
1279.183	1194.0	-0.2	-71385.9	-17981.0	-742552.0	-694.0
1279.184	782.1	0.6	-51044.5	-17566.0	-640192.0	-770.0
1279.185	1256.4	0.1	-71678.8	-19865.0	-1126000.0	-861.0
1279.186	845.1	1.1	-51339.9	-18344.0	-1024000.0	-935.0
1279.187	973.9	0.9	-72409.8	-24982.0	-646150.0	-603.0
1279.188	564.4	5.3	-52077.2	-21801.0	-544839.0	-670.0

1279.189	1710.7	0.8	-100200.0	-21340.0	-1024000.0	-3788.0
1279.190	1299.3	1.4	-79889.2	-19594.0	-922147.0	-3872.0
1279.191	3800.9	-38.3	-221900.0	-43629.0	-2156000.0	8698.0
1279.192	3385.8	-2.3	-201500.0	-27655.0	-2052000.0	8641.0
1279.193	3158.5	-28.9	-184700.0	-37383.0	-1808000.0	6379.0
1279.194	2744.1	3.4	-164400.0	-25415.0	-1704000.0	6309.0
1279.195	3220.4	-23.0	-185300.0	-35800.0	-2191000.0	6237.0
1279.196	2807.3	2.3	-164700.0	-25528.0	-2088000.0	6151.0
1279.197	2936.8	6.1	-185800.0	-31722.0	-1710000.0	6439.0
1279.198	2525.7	6.9	-165400.0	-29706.0	-1608000.0	6353.0
1279.199	3674.9	-31.6	-213600.0	-42579.0	-2090000.0	3303.0
1279.200	3261.6	-8.3	-192900.0	-27558.0	-1987000.0	3229.0
1279.201	1543.0	147.0	-93485.6	-168066.0	-932574.0	926.0
1279.202	1135.1	-15.9	-73563.9	-49098.0	-829778.0	1302.0
1279.203	1653.2	163.5	-100700.0	-196674.0	-991382.0	1547.0
1279.204	1247.1	137.6	-80624.4	-173783.0	-892278.0	1538.0
1279.205	1606.5	121.9	-93912.5	-149200.0	-1317000.0	845.0
1279.206	1198.4	-15.7	-73874.3	-49666.0	-1214000.0	1143.0
1279.207	1325.3	-13.6	-94895.6	-59801.0	-833971.0	1419.0
1279.208	914.5	-11.7	-74575.4	-58852.0	-731895.0	1334.0
1279.209	2056.5	152.5	-122300.0	-179571.0	-1213000.0	-2178.0
1279.210	1649.9	-22.3	-102300.0	-53377.0	-1111000.0	-1775.0
1279.211	2444.7	-14.6	-142300.0	18874.0	-1423000.0	2483.0
1279.212	2033.6	-11.6	-122000.0	21501.0	-1321000.0	2407.0
1279.213	2855.4	-20.7	-165900.0	31805.0	-1646000.0	3528.0
1279.214	2442.7	-20.3	-145400.0	33359.0	-1543000.0	3450.0
1279.215	2507.6	-15.0	-142500.0	17945.0	-1807000.0	2319.0
1279.216	2096.4	-11.4	-122200.0	20480.0	-1705000.0	2241.0
1279.217	2226.4	-7.9	-142900.0	13782.0	-1329000.0	2572.0
1279.218	1808.1	-4.3	-122200.0	10924.0	-1222000.0	2484.0
1279.219	2960.8	-16.2	-171100.0	14584.0	-1704000.0	-611.0
1279.220	2549.6	-13.9	-150800.0	17257.0	-1602000.0	-694.0
1279.221	1856.9	23.7	-68859.3	-34935.0	-1062000.0	-862.0
1279.222	1445.5	-7.2	-48496.9	-8674.0	-959611.1	-863.0
1279.223	1919.9	-10.0	-69161.1	-12164.0	-1445000.0	-930.0
1279.224	1506.7	-6.5	-48761.4	-9647.0	-1342000.0	-1027.0
1279.225	2078.2	23.4	-68162.5	-33938.0	-1179000.0	-866.0
1279.226	1666.6	-8.9	-47815.3	-7178.0	-1076000.0	-869.0
1279.227	2372.2	71.4	-97594.2	-78444.0	-1344000.0	-4093.0
1279.228	1960.8	57.3	-77254.6	-62859.0	-1241000.0	-4137.0
1279.229	4462.2	97.1	-219500.0	-121830.0	-2476000.0	8315.0
1279.230	4048.1	113.3	-199000.0	-130327.0	-2372000.0	8176.0
1279.231	3818.8	82.1	-182400.0	-104625.0	-2127000.0	6037.0
1279.232	3405.6	73.5	-161900.0	-93336.0	-2023000.0	5975.0
1279.233	3882.1	82.4	-182700.0	-105929.0	-2510000.0	5872.0
1279.234	3470.0	74.1	-162300.0	-94936.0	-2407000.0	5811.0
1279.235	4039.7	81.8	-181600.0	-103173.0	-2241000.0	6032.0
1279.236	3626.9	73.4	-161200.0	-92586.0	-2138000.0	5969.0
1279.237	4333.1	75.1	-211200.0	-106780.0	-2407000.0	2968.0
1279.238	3921.5	68.4	-190800.0	-97075.0	-2304000.0	2902.0
1279.239	2196.8	115.4	-90814.1	-144120.0	-1247000.0	936.0
1279.240	1787.6	93.2	-70642.4	-124729.0	-1147000.0	915.0
1279.241	2310.9	127.5	-98195.3	-168884.0	-1311000.0	1576.0
1279.242	1901.8	105.4	-78033.6	-149678.0	-1211000.0	1555.0
1279.243	2259.4	115.9	-91108.5	-144848.0	-1631000.0	774.0
1279.244	1850.1	94.5	-70952.9	-126022.0	-1530000.0	752.0
1279.245	2418.2	92.9	-90201.5	-126982.0	-1363000.0	996.0
1279.246	2008.8	75.0	-70021.4	-110879.0	-1263000.0	962.0
1279.247	2712.0	119.8	-119600.0	-154127.0	-1528000.0	-2163.0
1279.248	2301.1	102.1	-99418.6	-138271.0	-1427000.0	-2199.0
1279.249	3111.2	-163.4	-141100.0	63519.0	-1741000.0	2686.0
1279.250	2698.3	-79.4	-120500.0	41777.0	-1638000.0	2424.0

1279.251	3520.4	-129.4	-164600.0	61691.0	-1963000.0	3639.0
1279.252	3108.3	-108.4	-144100.0	58517.0	-1861000.0	3505.0
1279.253	3173.5	-114.5	-141200.0	48634.0	-2125000.0	2426.0
1279.254	2759.6	-93.1	-120700.0	44865.0	-2021000.0	2289.0
1279.255	3332.9	-162.6	-140500.0	64051.0	-1856000.0	2678.0
1279.256	2917.6	35.8	-119600.0	37067.0	-1753000.0	2269.0
1279.257	3627.4	-143.6	-169900.0	53237.0	-2023000.0	-434.0
1279.258	3213.8	-123.5	-149400.0	49757.0	-1919000.0	-567.0
1279.401	66.6	-82.2	-106800.0	231872.0	-575652.0	10188.0
1279.402	454.9	-21.1	-131100.0	167849.0	-792868.0	11388.0
1279.403	-13.6	-215.0	-96270.2	308781.0	-360318.0	8309.0
1279.404	371.0	-155.5	-120400.0	244757.0	-576492.0	9418.0
1279.405	1629.9	-116.4	-11229.8	-299194.0	-119866.0	-10179.0
1279.406	2028.7	-149.8	-36160.7	-301043.0	-341061.0	-8320.0
1279.407	1533.4	92.1	-3538.7	-360122.0	62924.0	-9615.0
1279.408	1935.2	60.8	-28634.5	-362580.0	-158758.0	-7742.0
1279.409	74.6	-131.5	-107600.0	225817.0	-600729.0	10450.0
1279.410	466.2	-59.4	-132000.0	156356.0	-820074.0	11631.0
1279.411	-24.4	-153.5	-95283.0	308271.0	-331861.0	7969.0
1279.412	359.4	-105.2	-119500.0	250225.0	-547286.0	9113.0
1279.413	1636.8	-109.5	-11196.8	-335861.0	-143294.0	-10164.0
1279.414	2036.5	-141.4	-36191.1	-337920.0	-364425.0	-8312.0
1279.415	1519.7	87.3	-3206.5	-324054.0	86273.0	-9656.0
1279.416	1920.8	64.5	-28262.0	-326596.0	-136754.0	-7800.0
1279.417	117.5	-271.8	-100900.0	441199.0	-645983.0	10088.0
1279.418	501.0	-222.6	-125200.0	378938.0	-858965.1	11323.0
1279.419	40.2	-401.0	-90474.0	522418.0	-433838.0	8268.0
1279.420	420.2	-364.6	-114700.0	467800.0	-644821.0	9448.0
1279.421	1575.8	75.2	-9264.3	-495939.0	-44317.0	-10109.0
1279.422	1977.7	54.3	-34411.4	-496798.0	-265415.0	-8268.0
1279.423	1474.8	278.1	-1336.5	-561818.0	143271.0	-9702.0
1279.424	1881.1	257.1	-26710.9	-563947.0	-77401.0	-7801.0
1279.425	117.8	-321.7	-101600.0	435950.0	-667603.0	10337.0
1279.426	500.8	-268.9	-125900.0	370581.0	-880523.1	11552.0
1279.427	30.2	-335.8	-89515.3	517888.0	-407329.0	7952.0
1279.428	410.1	-292.7	-113700.0	459024.0	-618642.0	9113.0
1279.429	1578.2	74.4	-8980.5	-536574.0	-60973.0	-10107.0
1279.430	1980.7	60.5	-34164.7	-538586.0	-281648.0	-8281.0
1279.431	1467.7	278.5	-1363.6	-522093.0	158954.0	-9757.0
1279.432	1872.6	260.9	-26666.0	-521934.0	-62543.0	-7874.0
1279.433	709.0	129.0	-71933.8	-21428.0	-516827.0	5357.0
1279.434	1100.1	173.4	-96520.6	-79951.0	-730685.0	6589.0
1279.435	389.6	-124.1	-48313.7	97386.0	164405.0	-479.0
1279.436	778.6	-97.4	-73384.3	63988.0	-61457.0	983.0
1279.437	1146.6	-304.8	-36609.0	13750.0	-371378.0	-3645.0
1279.438	1541.1	-298.8	-61289.3	-14008.0	-587180.0	-1878.0
1279.439	868.5	249.1	-19962.6	-137394.0	203045.0	-3672.0
1279.440	1267.9	242.1	-44991.7	-148419.0	-20769.0	-2088.0
1279.441	713.8	57.2	-70275.8	42533.0	-542083.0	5363.0
1279.442	1104.1	97.6	-94924.7	-14835.0	-757719.0	6606.0
1279.443	405.2	-159.1	-46784.8	156955.0	143006.0	-501.0
1279.444	791.2	-139.5	-71826.9	126024.0	-79512.0	969.0
1279.445	1136.0	-226.1	-36418.9	-48952.0	-341499.0	-3663.0
1279.446	1533.4	-214.0	-61288.4	-80318.0	-556476.0	-1906.0
1279.447	851.2	285.0	-19553.9	-201893.0	227323.0	-3668.0
1279.448	1254.1	281.6	-44828.4	-212390.0	2135.0	-2086.0
1279.449	733.7	-9.0	-74313.1	-62911.0	-587019.0	6064.0
1279.450	1128.9	18.7	-99005.8	-108790.0	-803186.0	7321.0
1279.451	341.3	-10.9	-36315.8	229789.0	238976.0	-469.0
1279.452	723.1	35.9	-60052.1	181405.0	17252.0	934.0
1279.453	1163.9	-259.6	-36432.1	-126482.0	-404343.0	-3697.0
1279.454	1564.6	-246.7	-61464.2	-156654.0	-624440.0	-1925.0

1279.455	831.3	235.1	-18699.3	-6052.0	281669.0	-3594.0
1279.456	1218.7	229.3	-42801.1	-10571.0	62033.0	-1991.0
1279.457	742.6	-69.0	-72579.8	3808.0	-611497.0	6068.0
1279.458	1136.9	-46.4	-97320.9	-40227.0	-827963.0	7339.0
1279.459	361.6	-47.0	-36882.8	299963.0	217636.0	-469.0
1279.460	741.1	-6.5	-60422.0	261057.0	-2728.0	967.0
1279.461	1147.9	-172.0	-35932.1	-199123.0	-370516.0	-3679.0
1279.462	1549.4	-158.7	-61051.0	-228890.0	-585648.0	-1966.0
1279.463	816.9	296.3	-18497.6	-60650.0	304158.0	-3586.0
1279.464	1207.3	295.8	-42813.1	-64487.0	83135.0	-1985.0
1279.529	123.5	-30.8	-29867.4	101261.0	-32171.0	1723.0
1279.530	1435.6	130.6	-112000.0	-82936.0	-757062.0	5894.0
1279.531	37.8	-137.8	-21280.8	157344.0	185509.0	-130.0
1279.532	1322.4	-67.2	-104000.0	32161.0	-545928.0	3827.0
1279.533	592.0	-114.8	-356.3	-37113.0	105855.0	-5489.0
1279.534	1906.1	-145.9	-82555.3	-92388.0	-620441.0	460.0
1279.535	497.6	112.9	6154.6	-93467.0	294533.0	-4623.0
1279.536	1835.3	140.0	-77647.6	-135013.0	-446108.0	769.0
1279.537	131.1	-69.1	-30604.3	87312.0	-54485.0	1941.0
1279.538	1446.8	93.3	-112800.0	-96567.0	-779924.0	6107.0
1279.539	23.0	-85.6	-18201.2	167641.0	212604.0	-445.0
1279.540	1300.3	49.1	-99897.9	6056.0	-517334.0	3543.0
1279.541	596.7	-105.5	-237.4	-74120.0	87189.0	-5490.0
1279.542	1923.4	-125.2	-83261.3	-132995.0	-638950.0	462.0
1279.543	486.3	104.5	6443.7	-57800.0	316032.0	-4619.0
1279.544	1809.4	114.0	-76249.4	-96739.0	-420211.0	810.0
1279.545	133.4	-90.9	-28091.2	166041.0	-53800.0	1702.0
1279.546	1433.7	46.2	-110200.0	-13141.0	-770697.0	5908.0
1279.547	56.5	-185.6	-19727.3	219099.0	160033.0	-158.0
1279.548	1330.5	-111.6	-102500.0	87076.0	-559327.0	3802.0
1279.549	578.3	-52.5	53.1	-94157.0	129464.0	-5460.0
1279.550	1900.4	-52.5	-82622.1	-157333.0	-602954.0	440.0
1279.551	480.4	161.6	6686.3	-154557.0	315820.0	-4634.0
1279.552	1823.5	185.7	-77652.6	-201794.0	-421407.0	742.0
1279.553	140.5	-124.2	-28834.3	151021.0	-77759.0	1917.0
1279.554	1446.1	17.1	-111000.0	-29099.0	-796842.0	6109.0
1279.555	42.4	-144.1	-16545.6	234786.0	187405.0	-422.0
1279.556	1312.5	-35.4	-98276.9	87715.0	-535236.0	3635.0
1279.557	576.2	-52.0	572.2	-135661.0	115796.0	-5480.0
1279.558	1911.9	-38.9	-82990.6	-203588.0	-616167.0	406.0
1279.559	471.4	161.0	6814.2	-116128.0	334257.0	-4628.0
1279.560	1806.2	197.1	-76755.2	-158002.0	-403042.0	803.0
1280.1	1019.1	72.7	-112400.0	-75013.0	-588944.0	-594.0
1280.2	779.8	45.0	-79794.6	-51481.0	-653647.0	-438.0
1280.3	1100.3	66.5	-113000.0	-72959.0	-1113000.0	-591.0
1280.4	861.0	42.5	-80422.0	-50670.0	-1178000.0	-439.0
1280.5	1110.5	56.0	-159300.0	-61136.0	-433522.0	-535.0
1280.6	872.3	84.0	-126300.0	-89185.0	-501567.0	-478.0
1280.7	1442.0	138.8	-355500.0	-127654.0	296908.0	-451.0
1280.8	1202.9	128.3	-322800.0	-118428.0	231806.0	-322.0
1280.9	1337.6	90.7	-296200.0	-83660.0	82489.0	-459.0
1280.10	1098.8	101.0	-263000.0	-102848.0	13289.0	-361.0
1280.11	1418.7	92.2	-296600.0	-84799.0	-441494.0	-465.0
1280.12	1179.3	83.2	-263800.0	-76640.0	-506953.0	-336.0
1280.13	1430.8	135.0	-342500.0	-138864.0	230672.0	-502.0
1280.14	1191.3	122.4	-309600.0	-125890.0	165740.0	-364.0
1280.15	1061.0	102.6	-136000.0	-102583.0	-504404.0	-632.0
1280.16	977.6	47.1	-88993.1	-54200.0	-673586.0	-579.0
1280.17	821.3	66.9	-103300.0	-70616.0	-569123.0	-450.0
1280.18	738.3	25.9	-56340.0	-32719.0	-738262.0	-426.0
1280.19	1087.0	53.3	-152100.0	-50034.0	-443079.0	-514.0
1280.20	950.0	33.3	-73379.5	-40164.0	-729972.0	-566.0

1280.21	847.8	43.1	-119200.0	-40726.0	-508826.0	-382.0
1280.22	710.8	18.5	-40676.1	-24959.0	-794745.0	-429.0
1280.23	1140.7	51.7	-136700.0	-52893.0	-1025000.0	-531.0
1280.24	1059.1	42.3	-89709.7	-53028.0	-1198000.0	-583.0
1280.25	902.3	64.4	-103800.0	-70135.0	-1093000.0	-450.0
1280.26	819.9	30.6	-56965.5	-39620.0	-1262000.0	-449.0
1280.27	1151.8	58.7	-183000.0	-61771.0	-347300.0	-520.0
1280.28	1070.3	89.3	-135500.0	-94510.0	-521597.0	-626.0
1280.29	914.0	99.2	-149900.0	-104714.0	-417126.0	-487.0
1280.30	830.5	63.5	-102600.0	-69049.0	-586170.0	-458.0
1280.31	1483.4	147.9	-379200.0	-136114.0	382023.0	-443.0
1280.32	1401.6	123.0	-332300.0	-122707.0	211974.0	-487.0
1280.33	1244.1	136.0	-346400.0	-125475.0	317053.0	-311.0
1280.34	1162.3	112.2	-299500.0	-112296.0	146838.0	-354.0
1280.35	1405.8	110.5	-335400.0	-93193.0	224575.0	-417.0
1280.36	1268.8	85.2	-256600.0	-80800.0	-61041.0	-486.0
1280.37	1166.5	100.2	-302500.0	-84677.0	159136.0	-287.0
1280.38	1029.8	88.3	-223500.0	-91125.0	-129023.0	-374.0
1280.39	1378.1	105.3	-319600.0	-88663.0	167728.0	-424.0
1280.40	1296.5	91.0	-272400.0	-86289.0	-4186.0	-483.0
1280.41	1139.0	95.2	-286700.0	-80398.0	102193.0	-295.0
1280.42	1057.4	94.3	-239300.0	-97364.0	-72319.0	-370.0
1280.43	1460.1	99.1	-320300.0	-91275.0	-356160.0	-456.0
1280.44	1377.3	85.3	-272900.0	-78394.0	-526826.0	-474.0
1280.45	1220.7	90.1	-287400.0	-83083.0	-421554.0	-327.0
1280.46	1138.0	76.5	-240100.0	-70432.0	-592333.0	-346.0
1280.47	1472.3	144.2	-366200.0	-148357.0	315732.0	-497.0
1280.48	1389.3	125.6	-318800.0	-128925.0	145608.0	-506.0
1280.49	1232.8	132.0	-333300.0	-136001.0	250819.0	-361.0
1280.50	1149.8	112.8	-286000.0	-115971.0	80702.0	-368.0
1280.51	1063.1	13.7	-126200.0	-30444.0	-512828.0	-422.0
1280.52	823.7	30.6	-92564.8	-33517.0	-581707.0	-315.0
1280.53	1092.8	51.5	-133600.0	-52812.0	-472142.0	-417.0
1280.54	851.4	49.4	-100100.0	-48189.0	-540466.0	-289.0
1280.55	1143.8	13.4	-126700.0	-31022.0	-1036000.0	-425.0
1280.56	904.4	30.8	-93066.7	-34560.0	-1105000.0	-317.0
1280.57	1155.1	24.3	-173400.0	-50238.0	-355882.0	-403.0
1280.58	915.4	29.2	-139700.0	-40817.0	-424505.0	-267.0
1280.59	1479.2	-237.9	-368700.0	-2106.0	373528.0	-111.0
1280.60	1240.0	-217.1	-335800.0	-692.0	308963.0	16.0
1280.61	1375.4	-197.7	-308900.0	-1129.0	156256.0	-144.0
1280.62	1137.3	-136.0	-276100.0	-17863.0	92372.0	-40.0
1280.63	1414.7	41.9	-320200.0	-97611.0	210214.0	-332.0
1280.64	1175.2	34.6	-286900.0	-84110.0	142393.0	-191.0
1280.65	1457.4	-151.6	-309700.0	-22754.0	-365527.0	-162.0
1280.66	1218.1	-135.5	-276600.0	-19366.0	-430548.0	-37.0
1280.67	1468.8	-174.2	-356000.0	-25085.0	310675.0	-159.0
1280.68	1229.0	-161.3	-322800.0	-18827.0	246104.0	-15.0
1280.69	1010.2	63.7	-107800.0	-156050.0	-697947.0	-784.0
1280.70	772.1	45.6	-75211.6	-128781.0	-765114.0	-611.0
1280.71	1007.9	44.5	-105300.0	-165545.0	-776414.0	-850.0
1280.72	768.7	15.7	-72924.3	-112962.0	-842229.0	-683.0
1280.73	1090.8	65.0	-108200.0	-157378.0	-1221000.0	-785.0
1280.74	852.9	46.5	-75630.0	-129882.0	-1289000.0	-619.0
1280.75	1100.9	98.2	-153900.0	-203637.0	-542691.0	-837.0
1280.76	862.5	71.8	-121400.0	-166945.0	-609304.0	-648.0
1280.77	1430.2	235.1	-348200.0	-367667.0	188337.0	-969.0
1280.78	1192.4	206.9	-315900.0	-345414.0	122319.0	-833.0
1280.79	1326.8	180.9	-289000.0	-300370.0	-29268.0	-953.0
1280.80	1087.9	164.8	-256300.0	-277585.0	-95002.0	-791.0
1280.81	1321.6	165.9	-286200.0	-314296.0	-103744.0	-1023.0
1280.82	1083.0	132.8	-253900.0	-275723.0	-169671.0	-825.0

1280.83	1407.4	181.0	-289300.0	-301280.0	-553003.0	-953.0
1280.84	1168.9	165.4	-256800.0	-279476.0	-619051.0	-794.0
1280.85	1417.4	191.6	-335100.0	-308080.0	125823.0	-962.0
1280.86	1179.1	176.5	-302600.0	-288034.0	59672.0	-808.0
1280.87	1208.2	-28.6	-229600.0	-115421.0	-129277.0	-886.0
1280.88	968.8	-13.3	-196500.0	-112286.0	-194328.0	-735.0
1280.89	1270.6	-20.1	-267600.0	-149986.0	20119.0	-994.0
1280.90	1031.1	-5.7	-234400.0	-146167.0	-44878.0	-840.0
1280.91	1288.3	-30.4	-229900.0	-114579.0	-652273.0	-870.0
1280.92	1049.5	-13.6	-197000.0	-112670.0	-716992.0	-727.0
1280.93	1300.1	-24.6	-276500.0	-128756.0	25643.0	-896.0
1280.94	1064.8	132.0	-243100.0	-272324.0	-47973.0	-1045.0
1280.95	1249.0	-43.4	-253200.0	-115072.0	-44108.0	-884.0
1280.96	1166.5	-18.2	-205600.0	-114382.0	-214990.0	-868.0
1280.97	1010.3	-24.3	-220300.0	-114951.0	-109034.0	-746.0
1280.98	927.1	-2.2	-172500.0	-111666.0	-279972.0	-720.0
1280.99	1276.1	-84.0	-269100.0	-103312.0	12356.0	-883.0
1280.100	1138.8	-10.6	-189700.0	-112683.0	-271890.0	-862.0
1280.101	1036.9	-61.8	-236000.0	-103895.0	-52665.0	-738.0
1280.102	900.0	19.8	-156700.0	-116142.0	-336566.0	-720.0
1280.103	1310.8	-68.1	-291200.0	-136618.0	104821.0	-986.0
1280.104	1228.7	-10.4	-243500.0	-148642.0	-65586.0	-973.0
1280.105	1071.6	-47.0	-258000.0	-136204.0	39816.0	-838.0
1280.106	989.4	5.4	-210400.0	-145654.0	-130573.0	-823.0
1280.107	1329.7	-42.2	-253900.0	-112767.0	-565725.0	-883.0
1280.108	1250.1	100.3	-205800.0	-233629.0	-744101.0	-1104.0
1280.109	1090.4	-26.4	-220700.0	-113829.0	-631846.0	-730.0
1280.110	1009.7	70.3	-172700.0	-187708.0	-807165.0	-859.0
1280.111	1345.9	107.1	-299800.0	-295281.0	99469.0	-1260.0
1280.112	1258.6	-16.0	-252700.0	-125298.0	-59775.0	-886.0
1280.113	1101.8	-48.9	-267200.0	-119912.0	44386.0	-746.0
1280.114	1022.9	125.7	-219300.0	-253885.0	-132463.0	-1004.0
1280.115	1249.0	88.7	-242600.0	-159883.0	-41563.0	-640.0
1280.116	1009.8	87.7	-209300.0	-152075.0	-109873.0	-511.0
1280.117	1279.3	86.0	-250700.0	-153430.0	1760.0	-563.0
1280.118	1038.3	109.7	-216400.0	-152430.0	-67759.0	-444.0
1280.119	1310.7	115.6	-280900.0	-206792.0	112509.0	-729.0
1280.120	1071.2	107.8	-247700.0	-192108.0	44633.0	-594.0
1280.121	1329.8	88.7	-243100.0	-160867.0	-564665.0	-640.0
1280.122	1090.3	89.0	-209700.0	-151925.0	-632938.0	-505.0
1280.123	1341.1	105.3	-289800.0	-185827.0	115643.0	-596.0
1280.124	1101.4	97.3	-256200.0	-168059.0	47146.0	-478.0
1280.125	1198.4	170.7	-219700.0	-292071.0	-246442.0	-1183.0
1280.126	959.6	129.9	-187500.0	-236616.0	-311736.0	-934.0
1280.127	1195.6	149.4	-217800.0	-330570.0	-322640.0	-1193.0
1280.128	957.0	124.6	-185200.0	-291200.0	-389260.0	-1001.0
1280.129	1259.9	202.8	-256500.0	-339097.0	-97799.0	-1279.0
1280.130	1021.5	153.9	-224200.0	-261641.0	-163842.0	-1104.0
1280.131	1279.2	170.7	-220200.0	-294705.0	-769587.0	-1161.0
1280.132	1040.6	122.1	-188000.0	-231590.0	-834726.9	-949.0
1280.133	1290.0	186.6	-266200.0	-325013.0	-91458.0	-1213.0
1280.134	1051.5	171.9	-233600.0	-303600.0	-157795.0	-1039.0
1280.135	1090.7	56.0	-147400.0	-95197.0	-503792.0	-161.0
1280.136	851.9	16.7	-115000.0	-20627.0	-567932.0	-36.0
1280.137	1114.6	41.2	-159100.0	-65967.0	-475375.0	-47.0
1280.138	875.9	23.7	-126600.0	-38872.0	-540412.0	79.0
1280.139	1172.2	47.9	-148000.0	-77160.0	-1028000.0	-171.0
1280.140	933.2	30.7	-115400.0	-49828.0	-1093000.0	-43.0
1280.141	1183.0	72.7	-193900.0	-115500.0	-351668.0	-150.0
1280.142	944.2	49.4	-161400.0	-87959.0	-416565.0	-27.0
1280.143	1131.9	70.8	-170900.0	-118924.0	-419035.0	-151.0
1280.144	1049.8	15.8	-124200.0	-16078.0	-587675.0	-176.0

1280.145	892.8	50.7	-138200.0	-86824.0	-483871.0	-20.0
1280.146	810.6	-6.7	-91531.4	18320.0	-652430.0	-40.0
1280.147	1159.4	80.7	-186500.0	-134792.0	-362556.0	-145.0
1280.148	1022.4	1.1	-108600.0	8422.0	-644204.0	-181.0
1280.149	920.4	60.3	-153900.0	-102338.0	-427427.0	-13.0
1280.150	783.2	-13.0	-75901.7	26537.0	-709189.0	-47.0
1280.151	1155.9	54.6	-182600.0	-86799.0	-390622.0	-37.0
1280.152	1073.7	12.9	-135800.0	-13764.0	-559770.0	-61.0
1280.153	916.9	36.2	-150000.0	-58491.0	-455588.0	93.0
1280.154	834.5	-17.9	-103200.0	35980.0	-624280.0	78.0
1280.155	1213.1	60.0	-171400.0	-96690.0	-943090.1	-156.0
1280.156	1131.1	0.4	-124700.0	13055.0	-1112000.0	-177.0
1280.157	974.3	43.1	-138800.0	-69684.0	-1008000.0	-30.0
1280.158	891.9	-12.3	-92028.9	28418.0	-1177000.0	-42.0
1280.159	1224.3	85.8	-217400.0	-136349.0	-266971.0	-141.0
1280.160	1142.0	54.0	-170500.0	-95435.0	-436360.0	-168.0
1280.161	985.2	67.5	-184800.0	-107713.0	-331904.0	-9.1
1280.162	902.8	37.0	-137900.0	-67225.0	-501255.0	-36.0
1280.163	1133.3	-138.2	-159300.0	86606.0	-432243.0	-65.0
1280.164	894.4	-126.3	-126300.0	91115.0	-499308.0	36.0
1280.165	1166.1	-35.5	-167900.0	48476.0	-388514.0	-111.0
1280.166	928.3	-14.6	-135100.0	41449.0	-456638.0	-19.0
1280.167	1157.6	-165.9	-170400.0	115970.0	-405461.0	31.0
1280.168	918.3	-153.9	-137300.0	120417.0	-472293.0	137.0
1280.169	1214.1	-138.9	-159700.0	88427.0	-955367.0	-69.0
1280.170	975.3	-126.4	-126800.0	90303.0	-1023000.0	33.0
1280.171	1224.5	-130.0	-206300.0	66000.0	-274035.0	46.0
1280.172	986.6	-122.8	-173300.0	74090.0	-343825.0	81.0
1280.173	1077.6	55.5	-143000.0	-133050.0	-601940.0	-605.0
1280.174	839.2	35.6	-110600.0	-109516.0	-668501.0	-411.0
1280.175	1075.6	25.9	-140900.0	-148867.0	-680403.0	-675.0
1280.176	837.6	10.2	-108300.0	-123469.0	-747656.0	-511.0
1280.177	1099.7	16.6	-154800.0	-73945.0	-569875.0	-511.0
1280.178	860.9	11.0	-122200.0	-67325.0	-636333.0	-323.0
1280.179	1158.6	53.5	-143600.0	-135930.0	-1125000.0	-616.0
1280.180	919.9	37.4	-111000.0	-111850.0	-1192000.0	-421.0
1280.181	1168.8	71.9	-189200.0	-147469.0	-447110.0	-617.0
1280.182	930.4	48.3	-156900.0	-127452.0	-513373.0	-474.0
1280.183	660.5	6.7	-114700.0	-56197.0	-198375.0	-434.0
1280.184	421.8	33.7	-81927.7	-55637.0	-263155.0	-315.0
1280.185	741.8	15.2	-115300.0	-61455.0	-721985.0	-442.0
1280.186	502.9	32.9	-82433.7	-56882.0	-787017.0	-317.0
1280.187	422.8	49.1	-115900.0	-79647.0	60593.0	-394.0
1280.188	183.4	36.7	-82862.3	-59920.0	-6114.0	-251.0
1280.189	752.2	-24.3	-161400.0	-58741.0	-46444.0	-414.0
1280.190	513.2	-5.5	-128500.0	-55196.0	-1111174.0	-283.0
1280.191	1089.1	297.8	-357100.0	-303910.0	677262.0	-662.0
1280.192	844.6	-119.8	-325000.0	-86387.0	611978.0	-279.0
1280.193	982.9	229.6	-297200.0	-238942.0	461580.0	-575.0
1280.194	739.4	-112.1	-265100.0	-58000.0	396671.0	-236.0
1280.195	1062.1	165.7	-297800.0	-184983.0	-59706.0	-441.0
1280.196	820.5	-107.8	-265500.0	-62690.0	-127063.0	-249.0
1280.197	739.3	-120.0	-299000.0	-71718.0	721603.0	-270.0
1280.198	500.2	-104.3	-266000.0	-66832.0	656595.0	-136.0
1280.199	1075.1	245.5	-343800.0	-257587.0	614311.0	-565.0
1280.200	833.4	-64.3	-311500.0	-127453.0	545576.0	-394.0
1280.201	846.4	-28.8	-230500.0	-112692.0	263738.0	-697.0
1280.202	608.5	39.0	-197100.0	-174948.0	193301.0	-648.0
1280.203	908.9	-19.7	-269000.0	-148153.0	414183.0	-819.0
1280.204	668.2	-5.9	-235400.0	-143589.0	349933.0	-659.0
1280.205	927.4	-28.4	-231000.0	-117033.0	-260441.0	-698.0
1280.206	689.5	40.2	-197600.0	-177036.0	-329999.0	-652.0

1280.207	609.6	68.1	-231300.0	-203668.0	518416.0	-698.0
1280.208	370.3	83.9	-198300.0	-196441.0	453749.0	-558.0
1280.209	939.5	-23.6	-277600.0	-130884.0	416451.0	-714.0
1280.210	701.8	59.8	-244000.0	-210128.0	345069.0	-703.0
1280.211	732.6	3.1	-149000.0	15515.0	-113701.0	-6.8
1280.212	493.5	-8.9	-116200.0	29783.0	-179375.0	118.0
1280.213	756.1	-14.3	-160500.0	42138.0	-85278.0	126.0
1280.214	517.4	-20.2	-127900.0	47471.0	-151157.0	238.0
1280.215	813.7	6.0	-149500.0	11659.0	-637763.0	-12.0
1280.216	574.6	-6.9	-116700.0	26822.0	-703363.0	114.0
1280.217	493.8	8.9	-149600.0	9458.0	143875.0	56.0
1280.218	256.1	-10.6	-117400.0	15644.0	78712.0	124.0
1280.219	824.8	15.7	-195600.0	-414.0	38834.0	14.0
1280.220	585.6	6.2	-162800.0	12206.0	-26428.0	144.0
1280.221	1388.1	43.3	-111400.0	-44042.0	-1007000.0	-571.0
1280.222	1149.6	45.4	-78492.4	-49595.0	-1075000.0	-465.0
1280.223	1469.9	59.5	-111800.0	-65352.0	-1534000.0	-610.0
1280.224	1231.0	37.8	-79205.2	-46925.0	-1599000.0	-462.0
1280.225	1634.8	40.6	-110400.0	-40669.0	-1289000.0	-570.0
1280.226	1396.8	53.9	-77653.1	-55055.0	-1356000.0	-490.0
1280.227	1480.1	50.7	-158200.0	-52179.0	-852603.0	-573.0
1280.228	1240.9	41.0	-125300.0	-42198.0	-918630.9	-430.0
1280.229	1810.5	133.9	-354100.0	-124560.0	-122884.0	-507.0
1280.230	1571.7	121.0	-321500.0	-110763.0	-187428.0	-379.0
1280.231	1706.4	108.9	-294300.0	-107838.0	-339937.0	-549.0
1280.232	1467.7	94.1	-261700.0	-95575.0	-406112.0	-417.0
1280.233	1787.5	110.7	-294700.0	-110425.0	-864251.9	-557.0
1280.234	1548.2	99.8	-261900.0	-99695.0	-929332.0	-426.0
1280.235	1952.5	103.3	-293400.0	-101905.0	-620126.0	-574.0
1280.236	1713.7	93.6	-260700.0	-93020.0	-686096.0	-441.0
1280.237	1799.6	129.3	-341200.0	-132358.0	-188332.0	-560.0
1280.238	1560.2	117.2	-308400.0	-120165.0	-253477.0	-424.0
1280.239	1577.7	-29.8	-228400.0	-113738.0	-550263.0	-880.0
1280.240	1338.3	-13.5	-195200.0	-111716.0	-615097.0	-730.0
1280.241	1640.0	-20.8	-266300.0	-148953.0	-400531.0	-990.0
1280.242	1400.6	-5.2	-233200.0	-146243.0	-465390.0	-839.0
1280.243	1658.8	-28.8	-228900.0	-115467.0	-1074000.0	-884.0
1280.244	1419.0	-13.4	-195800.0	-112499.0	-1138000.0	-724.0
1280.245	1824.6	-29.9	-227400.0	-115822.0	-832317.0	-879.0
1280.246	1584.8	-14.1	-194300.0	-113062.0	-896449.0	-722.0
1280.247	1670.1	-26.0	-275200.0	-130210.0	-397012.0	-897.0
1280.248	1430.8	-12.4	-242300.0	-127431.0	-461308.0	-746.0
1280.249	1460.0	66.5	-146200.0	-116985.0	-923694.1	-221.0
1280.250	1221.0	19.8	-113800.0	-27483.0	-987463.9	-92.0
1280.251	1484.0	39.6	-158000.0	-61886.0	-894866.0	-108.0
1280.252	1244.9	20.2	-125400.0	-32946.0	-959829.0	24.0
1280.253	1541.2	45.6	-146800.0	-72065.0	-1447000.0	-228.0
1280.254	1302.5	27.6	-114300.0	-44634.0	-1512000.0	-102.0
1280.255	1706.2	64.1	-145400.0	-112334.0	-1204000.0	-256.0
1280.256	1465.7	-115.4	-113100.0	178655.0	-1264000.0	8.7
1280.257	1552.2	71.2	-192800.0	-111076.0	-770702.0	-211.0
1280.258	1313.4	46.8	-160200.0	-83212.0	-835628.0	-87.0
1280.401	964.2	4.7	-145800.0	164835.0	305081.0	1158.0
1280.402	1083.8	13.6	-191100.0	136711.0	450646.0	-59.0
1280.403	823.4	130.7	-118400.0	71473.0	673829.0	1368.0
1280.404	941.2	148.2	-163900.0	37837.0	823223.1	225.0
1280.405	578.0	60.8	-22657.8	-404952.0	-1001000.0	-1251.0
1280.406	694.8	67.9	-65374.7	-431473.0	-858933.0	-2335.0
1280.407	436.8	-116.6	377.7	-137021.0	-605344.0	-2377.0
1280.408	551.3	-103.6	-42113.9	-161535.0	-462685.0	-3468.0
1280.409	968.0	47.7	-147700.0	107889.0	281278.0	1035.0
1280.410	1085.8	35.7	-192600.0	96486.0	426446.0	-145.0

1280.411	813.3	54.5	-116700.0	147204.0	704237.0	1537.0
1280.412	932.2	88.5	-162400.0	99376.0	853086.1	352.0
1280.413	573.7	46.4	-23733.1	-401087.0	-1013000.0	-1187.0
1280.414	691.0	53.3	-66419.0	-425150.0	-871230.0	-2268.0
1280.415	444.4	-104.4	1126.8	-144899.0	-591637.0	-2410.0
1280.416	559.2	-103.6	-41428.3	-151541.0	-448795.0	-3489.0
1280.417	900.7	-12.5	-14522.0	118356.0	389582.0	1340.0
1280.418	1023.5	45.5	-60300.7	64086.0	533451.0	64.0
1280.419	752.7	51.8	13050.3	46839.0	770381.0	1439.0
1280.420	873.6	128.3	-33129.0	-22268.0	917622.0	196.0
1280.421	622.0	69.6	-145400.0	-339311.0	-1088000.0	-1344.0
1280.422	738.3	40.4	-188100.0	-341205.0	-947046.0	-2409.0
1280.423	473.7	-53.8	-122500.0	-86559.0	-681743.0	-2233.0
1280.424	586.7	-66.7	-164900.0	-100292.0	-539821.0	-3356.0
1280.425	906.0	49.1	-17226.4	48834.0	370110.0	1180.0
1280.426	1028.9	105.5	-63033.5	-1601.0	513661.0	-83.0
1280.427	742.6	-24.7	14773.7	126640.0	803507.0	1583.0
1280.428	863.5	44.7	-31356.4	65697.0	950826.0	364.0
1280.429	618.4	86.5	-146800.0	-348114.0	-1100000.0	-1293.0
1280.430	734.2	56.0	-189500.0	-343173.0	-958494.1	-2363.0
1280.431	479.6	-66.9	-121400.0	-81850.0	-667771.0	-2225.0
1280.432	592.8	-100.4	-163800.0	-75283.0	-526053.0	-3308.0
1280.433	903.6	-154.7	-116700.0	126216.0	-468331.0	554.0
1280.434	1023.2	-150.4	-161500.0	96705.0	-329810.0	-572.0
1280.435	456.7	217.6	-45982.4	-119787.0	821674.0	411.0
1280.436	579.4	265.5	-91654.7	-158710.0	959421.0	-852.0
1280.437	809.0	117.3	-80241.8	-397386.0	-860807.0	-64.0
1280.438	922.5	97.5	-123700.0	-410283.0	-715041.0	-1189.0
1280.439	380.7	-325.6	-8774.5	402130.0	374234.0	-2244.0
1280.440	494.7	-293.6	-51988.8	373678.0	519646.0	-3254.0
1280.441	890.1	-73.4	-78479.5	66015.0	-437174.0	549.0
1280.442	1008.8	-66.0	-123400.0	35716.0	-294027.0	-572.0
1280.443	434.8	146.3	-6933.2	-82456.0	854525.0	458.0
1280.444	559.0	207.6	-52937.8	-129248.0	990767.0	-813.0
1280.445	820.2	33.0	-117000.0	-334574.0	-888234.0	-77.0
1280.446	932.8	14.1	-160300.0	-346055.0	-743064.0	-1194.0
1280.447	393.6	-243.6	-46002.4	355888.0	346988.0	-2312.0
1280.448	506.6	-225.1	-89069.6	333480.0	492370.0	-3311.0
1280.449	911.9	33.5	-122900.0	-56795.0	-556047.0	284.0
1280.450	1031.0	67.1	-167400.0	-109474.0	-418827.0	-882.0
1280.451	422.0	-164.3	-30877.8	277031.0	898576.0	733.0
1280.452	544.2	-145.6	-75899.3	260649.0	1036000.0	-475.0
1280.453	800.9	167.7	-84440.4	-409532.0	-911582.0	-15.0
1280.454	914.3	187.4	-127600.0	-443561.0	-766909.0	-1206.0
1280.455	386.5	-363.9	-5325.0	457407.0	420394.0	-2529.0
1280.456	501.5	-379.9	-48990.7	472135.0	565526.0	-3503.0
1280.457	897.8	53.0	-84267.7	-88807.0	-531266.0	297.0
1280.458	1016.7	93.0	-128900.0	-144711.0	-391554.0	-871.0
1280.459	401.3	-241.5	6399.5	342573.0	932546.0	797.0
1280.460	523.7	-231.7	-38593.5	341414.0	1070000.0	-380.0
1280.461	814.2	160.9	-121500.0	-368650.0	-939284.0	-74.0
1280.462	927.9	175.6	-164700.0	-401952.0	-796403.0	-1262.0
1280.463	403.1	-361.0	-42224.8	465371.0	390240.0	-2505.0
1280.464	517.0	-395.2	-85740.4	491527.0	535334.0	-3461.0
1280.529	612.5	-44.6	-36470.2	87505.0	-179326.0	1869.0
1280.530	1008.5	-31.7	-185200.0	20031.0	291165.0	-1982.0
1280.531	472.1	73.0	-12182.2	-2141.0	206329.0	1852.0
1280.532	869.4	245.5	-165100.0	-190961.0	696303.0	-1761.0
1280.533	502.9	61.4	-511.0	-184846.0	-574440.0	1162.0
1280.534	893.0	72.7	-145000.0	-270046.0	-97183.0	-2672.0
1280.535	374.8	-159.9	21225.8	139227.0	-192790.0	-326.0
1280.536	751.9	-182.8	-122000.0	175464.0	286099.0	-3511.0

1280.537	615.3	-0.5	-38322.1	39090.0	-204996.0	1793.0
1280.538	1010.6	25.0	-186700.0	-34118.0	262330.0	-2059.0
1280.539	458.9	-18.0	-8475.3	83709.0	238021.0	2067.0
1280.540	857.4	68.5	-161000.0	-18538.0	722692.0	-1499.0
1280.541	501.6	46.1	-1782.7	-179492.0	-589160.0	1216.0
1280.542	894.0	88.4	-145600.0	-270198.0	-117149.0	-2630.0
1280.543	382.9	-142.3	22291.4	126752.0	-180347.0	-387.0
1280.544	758.6	-176.8	-121700.0	161660.0	300262.0	-3666.0
1280.545	595.6	-28.6	2352.1	59584.0	-149353.0	1889.0
1280.546	996.1	60.7	-147700.0	-44854.0	322325.0	-2017.0
1280.547	449.9	27.7	27314.3	2376.0	237387.0	1905.0
1280.548	849.7	219.0	-126900.0	-180242.0	726997.0	-1752.0
1280.549	518.1	45.1	-37256.8	-156851.0	-602887.0	1141.0
1280.550	904.1	-25.3	-181500.0	-195392.0	-123952.0	-2667.0
1280.551	385.9	-115.5	-15740.1	141479.0	-213677.0	-289.0
1280.552	762.5	-123.4	-158900.0	143888.0	260593.0	-3521.0
1280.553	598.7	12.2	439.5	13801.0	-175154.0	1817.0
1280.554	997.1	99.3	-149000.0	-89134.0	296300.0	-2081.0
1280.555	436.9	-48.7	31197.3	77650.0	268705.0	2054.0
1280.556	838.2	76.8	-122200.0	-42990.0	753166.0	-1560.0
1280.557	516.2	70.0	-38864.5	-167484.0	-615738.0	1177.0
1280.558	906.0	95.4	-182300.0	-234058.0	-142789.0	-2661.0
1280.559	393.8	-118.4	-14625.7	138461.0	-201645.0	-355.0
1280.560	767.6	-205.6	-158100.0	210964.0	275647.0	-3586.0
1281.1	3380.6	-67.2	-134900.0	26735.0	-982616.0	252.0
1281.2	2477.8	-56.8	-97914.0	17747.0	-870537.0	-114.0
1281.3	3457.8	-80.1	-136600.0	26988.0	-1400000.0	23.0
1281.4	2554.7	-37.7	-99636.5	14921.0	-1288000.0	-412.0
1281.5	4754.8	-92.4	-192000.0	18345.0	-1340000.0	-2157.0
1281.6	3853.0	-71.6	-155200.0	8017.0	-1228000.0	-2548.0
1281.7	10318.9	73.8	-430800.0	94039.0	-2765000.0	10411.0
1281.8	9417.9	73.6	-393900.0	86298.0	-2653000.0	10067.0
1281.9	8606.1	53.7	-357800.0	75170.0	-2325000.0	7860.0
1281.10	7707.5	49.1	-321000.0	68675.0	-2214000.0	7529.0
1281.11	8691.2	38.4	-359800.0	76618.0	-2744000.0	7617.0
1281.12	7787.0	45.8	-322800.0	67961.0	-2632000.0	7263.0
1281.13	9985.7	51.0	-415100.0	63978.0	-2684000.0	5411.0
1281.14	9084.5	50.5	-378200.0	56287.0	-2572000.0	5068.0
1281.15	4056.8	-80.6	-163700.0	37827.0	-1156000.0	1277.0
1281.16	2705.6	-71.3	-106100.0	18670.0	-809248.0	-730.0
1281.17	3153.8	-60.7	-126700.0	27608.0	-1044000.0	889.0
1281.18	1802.6	-39.6	-69122.9	7863.0	-697410.0	-1141.0
1281.19	4507.3	-83.4	-182900.0	44058.0	-1272000.0	1944.0
1281.20	2255.5	-66.8	-86882.4	12571.0	-693765.0	-1401.0
1281.21	3603.9	-53.3	-145900.0	32587.0	-1160000.0	1533.0
1281.22	1350.6	-30.6	-49848.2	1619.0	-581415.0	-1823.0
1281.23	4134.2	-84.6	-165400.0	37032.0	-1574000.0	1028.0
1281.24	2782.0	-57.0	-107800.0	16445.0	-1227000.0	-1016.0
1281.25	3232.2	-73.7	-128500.0	27655.0	-1462000.0	658.0
1281.26	1878.2	-34.4	-70779.5	6393.0	-1115000.0	-1409.0
1281.27	5429.5	-71.6	-220800.0	24448.0	-1513000.0	-1213.0
1281.28	4079.1	-93.0	-163200.0	9792.0	-1166000.0	-3144.0
1281.29	4538.9	-12.2	-184400.0	9566.0	-1405000.0	-1702.0
1281.30	3176.1	-64.2	-126200.0	-1631.0	-1055000.0	-3553.0
1281.31	10996.1	80.5	-459700.0	101852.0	-2939000.0	11394.0
1281.32	9644.5	59.7	-402000.0	87040.0	-2591000.0	9437.0
1281.33	10092.3	89.2	-422700.0	92864.0	-2827000.0	11037.0
1281.34	8740.1	68.0	-365000.0	78227.0	-2479000.0	9082.0
1281.35	9741.7	52.0	-406200.0	90296.0	-2616000.0	9519.0
1281.36	7478.0	42.4	-309700.0	62308.0	-2034000.0	6221.0
1281.37	8830.4	72.2	-368900.0	79227.0	-2503000.0	9145.0
1281.38	6578.5	39.8	-272800.0	55406.0	-1923000.0	5887.0

1281.39	9283.3	60.5	-386600.0	82959.0	-2499000.0	8843.0
1281.40	7929.2	47.2	-328900.0	67400.0	-2150000.0	6876.0
1281.41	8379.2	67.8	-349600.0	74064.0	-2387000.0	8489.0
1281.42	7030.0	43.3	-292100.0	60730.0	-2039000.0	6545.0
1281.43	9369.3	44.0	-388700.0	84840.0	-2918000.0	8604.0
1281.44	8010.4	40.6	-330800.0	67251.0	-2569000.0	6616.0
1281.45	8465.3	52.1	-351700.0	76132.0	-2806000.0	8249.0
1281.46	7106.4	47.1	-293800.0	58627.0	-2457000.0	6265.0
1281.47	10662.8	57.7	-444000.0	71743.0	-2858000.0	6394.0
1281.48	9311.7	37.1	-386400.0	57057.0	-2510000.0	4437.0
1281.49	9758.9	65.3	-407000.0	62953.0	-2746000.0	6040.0
1281.50	8406.7	44.7	-349300.0	48087.0	-2398000.0	4082.0
1281.51	2904.8	74.0	-122000.0	-36959.0	-833953.0	1556.0
1281.52	1999.9	67.5	-85328.0	-43459.0	-721193.0	1225.0
1281.53	2576.4	120.1	-114000.0	-78038.0	-731405.0	2521.0
1281.54	1670.0	107.5	-77371.3	-83049.0	-616800.0	2212.0
1281.55	2983.8	73.5	-123700.0	-40101.0	-1252000.0	1290.0
1281.56	2078.5	68.3	-87065.4	-47699.0	-1139000.0	955.0
1281.57	4283.4	81.9	-179200.0	-52036.0	-1193000.0	-932.0
1281.58	3379.8	76.4	-142600.0	-59150.0	-1080000.0	-1262.0
1281.59	9848.9	182.9	-418000.0	35785.0	-2621000.0	11769.0
1281.60	8944.1	173.7	-381400.0	28267.0	-2508000.0	11444.0
1281.61	8136.0	155.3	-345000.0	17324.0	-2180000.0	9241.0
1281.62	7231.7	147.2	-308300.0	9830.0	-2068000.0	8915.0
1281.63	7812.3	180.8	-337000.0	-13211.0	-2079000.0	10278.0
1281.64	6907.2	173.2	-300300.0	-21123.0	-1966000.0	9954.0
1281.65	8214.8	153.0	-346800.0	16088.0	-2598000.0	8982.0
1281.66	7311.2	145.4	-310100.0	8396.0	-2486000.0	8657.0
1281.67	9513.6	161.4	-402200.0	5106.0	-2538000.0	6768.0
1281.68	8610.9	153.5	-365600.0	-1727.0	-2427000.0	6447.0
1281.69	3933.3	-256.8	-158300.0	108664.0	-1162000.0	791.0
1281.70	3028.9	-219.8	-121500.0	99394.0	-1050000.0	375.0
1281.71	4299.1	-337.7	-174200.0	158399.0	-1281000.0	1049.0
1281.72	3365.8	-48.6	-135600.0	175751.0	-1165000.0	227.0
1281.73	4009.2	-252.9	-160100.0	111869.0	-1579000.0	540.0
1281.74	3099.3	-224.8	-123100.0	101201.0	-1465000.0	132.0
1281.75	5309.9	-327.2	-215500.0	97660.0	-1519000.0	-1542.0
1281.76	4404.5	-284.8	-178400.0	89268.0	-1407000.0	-1963.0
1281.77	10831.2	-457.9	-452300.0	192950.0	-2924000.0	11638.0
1281.78	9927.2	-350.0	-415400.0	180985.0	-2813000.0	11080.0
1281.79	9132.5	-384.3	-379900.0	169848.0	-2491000.0	8912.0
1281.80	8229.7	-357.6	-343000.0	160157.0	-2379000.0	8511.0
1281.81	9505.0	-503.6	-395600.0	223490.0	-2613000.0	9242.0
1281.82	8602.5	-500.6	-358700.0	211452.0	-2501000.0	8881.0
1281.83	9211.1	-386.5	-381700.0	170158.0	-2909000.0	8666.0
1281.84	8308.0	-359.3	-344700.0	160511.0	-2797000.0	8264.0
1281.85	10502.3	-470.6	-436900.0	161858.0	-2846000.0	6621.0
1281.86	9599.4	-441.5	-399900.0	151491.0	-2734000.0	6215.0
1281.87	4145.2	24.6	-168300.0	7281.0	-1169000.0	1950.0
1281.88	3244.4	18.8	-131700.0	-99.0	-1057000.0	1624.0
1281.89	4396.5	26.6	-179600.0	3666.0	-1229000.0	2571.0
1281.90	3495.3	20.1	-143000.0	-3765.0	-1118000.0	2245.0
1281.91	4225.4	23.3	-170100.0	6998.0	-1587000.0	1696.0
1281.92	3325.7	16.8	-133400.0	754.0	-1475000.0	1372.0
1281.93	5522.0	27.2	-225600.0	-5838.0	-1526000.0	-530.0
1281.94	4621.0	22.4	-189000.0	-13401.0	-1414000.0	-859.0
1281.95	4823.6	33.1	-197100.0	16009.0	-1343000.0	2920.0
1281.96	3468.5	15.9	-139400.0	-221.0	-995101.0	983.0
1281.97	3922.9	28.8	-160500.0	9179.0	-1231000.0	2589.0
1281.98	2568.4	9.6	-102800.0	-6838.0	-882934.9	658.0
1281.99	5274.9	38.5	-216400.0	21173.0	-1459000.0	3566.0
1281.100	3018.1	10.3	-120200.0	-4630.0	-879522.0	337.0

1281.101	4374.4	34.6	-179700.0	14281.0	-1347000.0	3233.0
1281.102	2116.4	3.3	-83577.7	-12798.0	-766807.0	13.0
1281.103	5074.8	36.9	-208400.0	12530.0	-1404000.0	3537.0
1281.104	3719.9	17.4	-150700.0	-3805.0	-1055000.0	1605.0
1281.105	4173.2	30.0	-171800.0	5267.0	-1292000.0	3213.0
1281.106	2819.4	10.8	-114100.0	-10157.0	-944157.0	1281.0
1281.107	4904.0	29.9	-198900.0	15955.0	-1761000.0	2669.0
1281.108	3546.8	13.9	-141300.0	-2313.0	-1413000.0	729.0
1281.109	4003.1	26.5	-162300.0	8420.0	-1649000.0	2338.0
1281.110	2646.5	8.3	-104600.0	-9747.0	-1301000.0	403.0
1281.111	6199.0	35.4	-254500.0	1765.0	-1700000.0	441.0
1281.112	4845.1	18.8	-196700.0	-13397.0	-1352000.0	-1499.0
1281.113	5297.9	31.4	-217800.0	-5945.0	-1588000.0	111.0
1281.114	3944.4	13.3	-160100.0	-20790.0	-1240000.0	-1826.0
1281.115	3666.1	79.2	-156200.0	-45229.0	-1020000.0	3455.0
1281.116	2760.7	73.7	-119500.0	-51748.0	-906897.0	3132.0
1281.117	3340.5	106.0	-148200.0	-72777.0	-917654.0	4497.0
1281.118	2436.1	84.3	-111600.0	-72390.0	-804618.0	4202.0
1281.119	3914.8	79.1	-167300.0	-46973.0	-1081000.0	4084.0
1281.120	3009.6	74.0	-130700.0	-53415.0	-967338.9	3759.0
1281.121	3745.6	77.7	-157900.0	-47829.0	-1438000.0	3193.0
1281.122	2841.4	64.6	-121300.0	-50291.0	-1325000.0	2892.0
1281.123	5042.4	89.2	-213400.0	-63080.0	-1378000.0	957.0
1281.124	4139.7	75.3	-176800.0	-64387.0	-1266000.0	659.0
1281.125	4679.0	-309.6	-190300.0	98029.0	-1343000.0	2795.0
1281.126	3775.8	-279.5	-153300.0	88652.0	-1231000.0	2392.0
1281.127	5046.5	-423.5	-205800.0	147436.0	-1462000.0	3124.0
1281.128	4142.0	-363.2	-168900.0	140679.0	-1350000.0	2661.0
1281.129	4921.2	-320.9	-200700.0	94481.0	-1401000.0	3438.0
1281.130	4018.7	-292.3	-163800.0	85091.0	-1289000.0	3034.0
1281.131	4755.9	-295.2	-192000.0	99941.0	-1760000.0	2522.0
1281.132	3852.7	-277.6	-155000.0	89362.0	-1648000.0	2135.0
1281.133	6049.2	-359.9	-247300.0	87314.0	-1698000.0	427.0
1281.134	5145.9	-316.9	-210300.0	78937.0	-1586000.0	-0.8
1281.135	6882.4	-139.4	-283800.0	90178.0	-1893000.0	4372.0
1281.136	5980.3	-140.9	-246900.0	82302.0	-1781000.0	4030.0
1281.137	8028.7	-156.0	-332500.0	110316.0	-2190000.0	5705.0
1281.138	7126.2	-161.1	-295600.0	102790.0	-2078000.0	5372.0
1281.139	6960.1	-173.9	-285500.0	92541.0	-2310000.0	4188.0
1281.140	6057.8	-147.9	-248600.0	82151.0	-2198000.0	3788.0
1281.141	8251.7	-141.2	-340800.0	78253.0	-2248000.0	1904.0
1281.142	7349.4	-119.9	-303800.0	68146.0	-2136000.0	1518.0
1281.143	7556.5	-146.4	-312500.0	99327.0	-2065000.0	5376.0
1281.144	6208.2	-156.8	-255000.0	83252.0	-1719000.0	3419.0
1281.145	6654.1	-123.8	-275600.0	89283.0	-1954000.0	4984.0
1281.146	5305.8	-130.6	-218100.0	72898.0	-1607000.0	3019.0
1281.147	8005.9	-151.2	-331700.0	105462.0	-2181000.0	6046.0
1281.148	5758.4	-126.0	-235900.0	74986.0	-1604000.0	2694.0
1281.149	7103.6	-128.0	-294800.0	95308.0	-2069000.0	5656.0
1281.150	4856.0	-103.1	-198900.0	64821.0	-1492000.0	2301.0
1281.151	8702.9	-162.8	-361300.0	119426.0	-2363000.0	6712.0
1281.152	7354.5	-177.4	-303800.0	103622.0	-2017000.0	4760.0
1281.153	7800.3	-139.8	-324400.0	109274.0	-2252000.0	6324.0
1281.154	6452.2	-151.4	-266800.0	93239.0	-1905000.0	4360.0
1281.155	7634.2	-151.7	-314300.0	99045.0	-2483000.0	5130.0
1281.156	6285.8	-164.1	-256800.0	83029.0	-2137000.0	3177.0
1281.157	6732.2	-157.7	-277300.0	91761.0	-2371000.0	4798.0
1281.158	5383.0	-114.3	-219800.0	70609.0	-2025000.0	2727.0
1281.159	8926.0	-145.5	-369500.0	87008.0	-2421000.0	2907.0
1281.160	7577.2	-135.7	-312000.0	69268.0	-2075000.0	901.0
1281.161	8023.9	-123.9	-332600.0	76843.0	-2310000.0	2527.0
1281.162	6675.1	-115.7	-275100.0	59424.0	-1963000.0	514.0

1281.163	6418.3	133.1	-269800.0	15926.0	-1750000.0	5397.0
1281.164	5513.8	125.7	-233100.0	7883.0	-1638000.0	5074.0
1281.165	6094.3	166.0	-261900.0	-21301.0	-1650000.0	6406.0
1281.166	5188.7	159.8	-225200.0	-28834.0	-1537000.0	6074.0
1281.167	7567.3	152.8	-318100.0	32960.0	-2049000.0	6660.0
1281.168	6662.9	145.3	-281500.0	25041.0	-1937000.0	6332.0
1281.169	6496.7	131.5	-271500.0	13531.0	-2168000.0	5131.0
1281.170	5593.4	125.0	-234900.0	5472.0	-2056000.0	4808.0
1281.171	7792.8	141.6	-327000.0	220.0	-2107000.0	2910.0
1281.172	6889.1	133.5	-290400.0	-7278.0	-1995000.0	2585.0
1281.173	7445.7	-361.4	-307600.0	166599.0	-2073000.0	4975.0
1281.174	6541.1	-326.6	-270600.0	156886.0	-1961000.0	4558.0
1281.175	7810.3	-452.8	-323000.0	218479.0	-2193000.0	5259.0
1281.176	6904.5	-408.0	-286000.0	210354.0	-2081000.0	4826.0
1281.177	8593.9	-386.3	-356400.0	186694.0	-2371000.0	6331.0
1281.178	7690.2	-353.2	-319400.0	176842.0	-2259000.0	5917.0
1281.179	7523.1	-359.9	-309300.0	167782.0	-2491000.0	4724.0
1281.180	6617.7	-305.1	-272300.0	159831.0	-2379000.0	4275.0
1281.181	8816.2	-390.3	-364600.0	157541.0	-2429000.0	2572.0
1281.182	7913.2	-386.9	-327600.0	146974.0	-2317000.0	2212.0
1281.183	3425.0	-32.7	-139400.0	24384.0	-1109000.0	314.0
1281.184	2522.9	-18.5	-102400.0	14647.0	-997492.0	-52.0
1281.185	3502.1	-29.4	-141100.0	23023.0	-1526000.0	40.0
1281.186	2599.8	-13.9	-104100.0	12836.0	-1415000.0	-330.0
1281.187	3453.2	-24.6	-142300.0	22526.0	-1194000.0	406.0
1281.188	2547.5	-8.0	-105200.0	12317.0	-1083000.0	15.0
1281.189	4798.9	-48.0	-196600.0	12804.0	-1466000.0	-2098.0
1281.190	3897.8	-28.4	-159700.0	1475.0	-1355000.0	-2481.0
1281.191	10367.9	79.7	-435400.0	93299.0	-2894000.0	10575.0
1281.192	9463.3	91.0	-398400.0	84169.0	-2782000.0	10206.0
1281.193	8658.3	54.1	-362500.0	75865.0	-2454000.0	8042.0
1281.194	7752.8	63.5	-325400.0	66739.0	-2342000.0	7677.0
1281.195	8736.4	50.9	-364300.0	75039.0	-2872000.0	7778.0
1281.196	7829.1	69.0	-327100.0	64446.0	-2760000.0	7397.0
1281.197	8680.6	80.9	-365300.0	70437.0	-2539000.0	8100.0
1281.198	7776.3	83.2	-328500.0	61907.0	-2427000.0	7744.0
1281.199	10026.4	78.0	-419500.0	58731.0	-2811000.0	5539.0
1281.200	9124.4	81.7	-382700.0	50090.0	-2700000.0	5183.0
1281.201	4188.5	24.3	-173000.0	6096.0	-1298000.0	2085.0
1281.202	3282.9	17.6	-136200.0	-2408.0	-1186000.0	1744.0
1281.203	4436.4	24.2	-184200.0	812.0	-1358000.0	2694.0
1281.204	3532.6	19.2	-147400.0	-6558.0	-1247000.0	2356.0
1281.205	4265.7	19.6	-174800.0	2778.0	-1715000.0	1824.0
1281.206	3361.9	16.9	-138000.0	-3779.0	-1604000.0	1477.0
1281.207	4211.0	17.7	-175900.0	2970.0	-1382000.0	2185.0
1281.208	3306.2	16.6	-139100.0	-5575.0	-1270000.0	1833.0
1281.209	5565.9	25.2	-230400.0	-8138.0	-1656000.0	-366.0
1281.210	4662.6	23.4	-193600.0	-14088.0	-1544000.0	-715.0
1281.211	6925.0	-109.7	-288200.0	87498.0	-2018000.0	4491.0
1281.212	6023.6	-43.3	-251300.0	74423.0	-1908000.0	4020.0
1281.213	8071.4	-122.4	-337000.0	107150.0	-2317000.0	5829.0
1281.214	7169.5	-101.9	-300000.0	97337.0	-2205000.0	5451.0
1281.215	7002.8	-94.9	-290000.0	85538.0	-2436000.0	4192.0
1281.216	6101.6	-30.9	-253100.0	73056.0	-2326000.0	3726.0
1281.217	6956.4	-41.8	-291300.0	82907.0	-2104000.0	4485.0
1281.218	6054.1	-20.2	-254400.0	72782.0	-1993000.0	4102.0
1281.219	8295.9	-128.9	-345200.0	76373.0	-2374000.0	2073.0
1281.220	7394.2	-90.5	-308300.0	64584.0	-2264000.0	1657.0
1281.221	3330.5	-64.3	-130100.0	25072.0	-870013.9	193.0
1281.222	2427.8	-46.4	-93131.6	15378.0	-757972.0	-190.0
1281.223	3407.6	-77.2	-131800.0	25264.0	-1287000.0	-37.0
1281.224	2504.4	-35.4	-94839.1	13275.0	-1175000.0	-472.0

1281.225	3297.3	-62.5	-126900.0	23988.0	-794643.0	152.0
1281.226	2394.5	-44.7	-89945.0	14314.0	-682559.0	-231.0
1281.227	4703.9	-81.6	-187200.0	15653.0	-1227000.0	-2234.0
1281.228	3801.9	-47.6	-150300.0	3841.0	-1116000.0	-2653.0
1281.229	10267.7	71.3	-426000.0	93683.0	-2650000.0	10298.0
1281.230	9364.0	79.7	-389000.0	84807.0	-2537000.0	9938.0
1281.231	8555.1	53.5	-352900.0	74218.0	-2210000.0	7771.0
1281.232	7656.8	48.1	-316100.0	67947.0	-2099000.0	7434.0
1281.233	8640.4	38.6	-355000.0	75502.0	-2630000.0	7537.0
1281.234	7730.5	59.4	-317700.0	64541.0	-2516000.0	7157.0
1281.235	8522.0	54.4	-349800.0	73286.0	-2135000.0	7733.0
1281.236	7617.7	60.3	-312700.0	64606.0	-2022000.0	7376.0
1281.237	9931.2	55.3	-410200.0	62190.0	-2568000.0	5296.0
1281.238	9027.8	63.0	-373200.0	53297.0	-2456000.0	4935.0
1281.239	4094.6	24.9	-163500.0	5898.0	-1056000.0	1896.0
1281.240	3194.1	18.9	-126900.0	-1425.0	-943580.9	1570.0
1281.241	4346.4	26.8	-174800.0	2357.0	-1116000.0	2518.0
1281.242	3446.2	20.4	-138100.0	-4939.0	-1004000.0	2193.0
1281.243	4174.5	23.7	-165300.0	5604.0	-1474000.0	1642.0
1281.244	3272.7	17.3	-128700.0	-3675.0	-1362000.0	1315.0
1281.245	4060.7	25.1	-160300.0	4974.0	-980154.0	1858.0
1281.246	3160.2	19.0	-123700.0	-2339.0	-868021.0	1533.0
1281.247	5471.5	27.6	-220800.0	-7265.0	-1413000.0	-584.0
1281.248	4570.9	22.7	-184200.0	-14630.0	-1301000.0	-913.0
1281.249	6831.8	-136.0	-279000.0	88566.0	-1780000.0	4310.0
1281.250	5930.5	-113.8	-242100.0	78505.0	-1668000.0	3918.0
1281.251	7978.3	-152.6	-327700.0	108744.0	-2077000.0	5642.0
1281.252	7076.5	-130.0	-290800.0	98710.0	-1966000.0	5250.0
1281.253	6910.3	-141.5	-280800.0	88174.0	-2198000.0	4065.0
1281.254	6008.1	-144.4	-243800.0	80462.0	-2086000.0	3726.0
1281.255	6798.8	-133.7	-275800.0	87549.0	-1705000.0	4268.0
1281.256	5896.7	-111.4	-238900.0	77444.0	-1593000.0	3875.0
1281.257	8202.2	-138.1	-336000.0	76641.0	-2135000.0	1841.0
1281.258	7299.8	-117.8	-299100.0	66730.0	-2023000.0	1453.0
1281.401	-1719.5	-224.4	55781.7	314881.0	884709.9	3279.0
1281.402	-542.3	-154.0	4441.6	410317.0	587002.0	5546.0
1281.403	-3110.3	-110.4	111300.0	147693.0	1219000.0	2039.0
1281.404	-1940.1	-40.9	60200.7	243262.0	924234.0	4158.0
1281.405	6466.1	-296.4	-274800.0	-161953.0	-1348000.0	-2215.0
1281.406	7601.0	-299.8	-324400.0	-49755.0	-1630000.0	148.0
1281.407	4989.4	340.2	-212700.0	-247749.0	-1046000.0	-3482.0
1281.408	6111.5	442.1	-261600.0	-120909.0	-1329000.0	-1363.0
1281.409	-1791.0	-221.3	58292.2	308873.0	875451.9	3261.0
1281.410	-607.9	-150.4	6718.3	404267.0	575613.0	5562.0
1281.411	-3047.9	-113.4	109200.0	154448.0	1232000.0	2098.0
1281.412	-1878.5	-43.7	58142.3	249996.0	937257.0	4210.0
1281.413	6355.0	94.3	-268500.0	-124245.0	-1354000.0	-2864.0
1281.414	7481.1	176.3	-317600.0	-486.0	-1635000.0	-643.0
1281.415	5073.4	191.2	-216700.0	-262377.0	-1039000.0	-3195.0
1281.416	6192.9	324.7	-265300.0	-132025.0	-1321000.0	-1123.0
1281.417	-3124.0	-448.3	106900.0	623775.0	1086000.0	3468.0
1281.418	-1951.2	-385.0	55739.3	724163.0	789943.0	5700.0
1281.419	-4545.6	-337.3	163800.0	462129.0	1430000.0	2246.0
1281.420	-3377.3	-273.2	112800.0	561930.0	1136000.0	4369.0
1281.421	8025.5	-379.3	-341800.0	-477160.0	-1659000.0	-1803.0
1281.422	9166.5	-361.0	-391700.0	-360830.0	-1942000.0	543.0
1281.423	6562.3	627.2	-278100.0	-526958.0	-1365000.0	-3562.0
1281.424	7698.5	681.9	-327800.0	-404075.0	-1651000.0	-1358.0
1281.425	-3180.4	-445.6	108800.0	621385.0	1069000.0	3470.0
1281.426	-2008.0	-379.5	57648.9	720121.0	773269.0	5693.0
1281.427	-4487.5	-338.3	161800.0	463481.0	1443000.0	2289.0
1281.428	-3319.5	-273.5	110800.0	562780.0	1150000.0	4410.0

1281.429	7962.4	-6.0	-336500.0	-445546.0	-1680000.0	-2433.0
1281.430	9110.6	-24.8	-386900.0	-331949.0	-1963000.0	-7.8
1281.431	6663.9	-138.3	-284600.0	-618236.0	-1352000.0	-2364.0
1281.432	7805.7	-159.9	-334700.0	-504448.0	-1637000.0	-34.0
1281.433	2743.3	-340.4	-115000.0	326759.0	-286238.0	3492.0
1281.434	3900.1	-299.3	-165600.0	422685.0	-576018.0	5958.0
1281.435	-1919.4	176.4	74831.9	-249328.0	828833.0	-1080.0
1281.436	-749.9	226.3	24035.1	-140354.0	534475.0	1077.0
1281.437	5386.8	-638.6	-230300.0	183648.0	-977943.0	1547.0
1281.438	6547.1	-613.0	-281100.0	296022.0	-1266000.0	4177.0
1281.439	451.6	484.2	-18824.7	-293438.0	114346.0	-2708.0
1281.440	1598.7	552.3	-68966.1	-180013.0	-178836.0	-575.0
1281.441	2402.1	-286.1	-101600.0	387604.0	-224786.0	3950.0
1281.442	3575.1	-224.7	-152800.0	478030.0	-519994.0	6304.0
1281.443	-2384.6	96.2	91788.3	-149340.0	904043.0	-1039.0
1281.444	-1224.2	143.5	41056.3	-42215.0	613198.0	1110.0
1281.445	5735.0	-629.8	-245200.0	99440.0	-1047000.0	884.0
1281.446	6895.3	-605.7	-296000.0	212151.0	-1334000.0	3510.0
1281.447	940.6	571.7	-39245.1	-368534.0	12828.0	-2675.0
1281.448	2088.1	631.8	-89421.0	-254160.0	-280307.0	-527.0
1281.449	2503.5	-180.1	-105400.0	262185.0	-311669.0	3426.0
1281.450	3667.9	-95.7	-156300.0	348812.0	-604587.0	5784.0
1281.451	-1784.0	150.9	70362.7	-237317.0	888515.1	-871.0
1281.452	-630.0	201.4	19763.8	-136111.0	594152.0	1261.0
1281.453	5047.4	-98.1	-206100.0	149525.0	-998849.0	717.0
1281.454	6214.7	-34.6	-257300.0	268686.0	-1288000.0	3315.0
1281.455	668.6	25.8	-29769.7	-323552.0	156612.0	-1798.0
1281.456	1809.4	37.6	-79608.4	-217594.0	-134323.0	416.0
1281.457	2138.0	-228.3	-92367.3	349118.0	-251077.0	3869.0
1281.458	3302.2	-146.1	-143000.0	437701.0	-547769.0	6110.0
1281.459	-2232.0	92.4	86610.8	-146439.0	963974.0	-874.0
1281.460	-1080.2	145.4	36145.8	-46097.0	676351.0	1249.0
1281.461	5398.9	-91.2	-219800.0	50619.0	-1069000.0	15.0
1281.462	6549.8	-38.0	-270400.0	168386.0	-1355000.0	2571.0
1281.463	1133.1	11.1	-49764.9	-415065.0	66466.0	-1653.0
1281.464	2271.0	27.8	-99486.5	-304790.0	-223760.0	563.0
1281.529	-303.2	-181.5	14862.6	8158.0	461542.0	-1331.0
1281.530	3612.4	40.6	-156200.0	324260.0	-526157.0	6404.0
1281.531	-1672.0	-56.6	69729.3	-161990.0	785541.0	-2427.0
1281.532	2211.6	132.7	-99945.6	179575.0	-192045.0	4653.0
1281.533	2231.8	-313.2	-90775.6	-139243.0	-226590.0	-3488.0
1281.534	6049.8	-249.0	-257800.0	227728.0	-1170000.0	4963.0
1281.535	764.6	125.8	-27545.8	-275761.0	90731.0	-4122.0
1281.536	4547.0	360.2	-192800.0	118683.0	-860801.0	3044.0
1281.537	-370.2	-176.4	17056.6	1078.0	450230.0	-1325.0
1281.538	3542.0	68.5	-153700.0	313204.0	-536666.0	6350.0
1281.539	-1627.8	-58.6	68270.4	-158573.0	804577.0	-2376.0
1281.540	2263.1	133.1	-101800.0	178535.0	-175215.0	4705.0
1281.541	2124.0	-120.0	-82803.5	-147192.0	-232923.0	-3849.0
1281.542	5957.1	69.0	-250900.0	239312.0	-1180000.0	4517.0
1281.543	853.2	-87.5	-32048.6	-296369.0	98017.0	-3738.0
1281.544	4629.7	-20.4	-197300.0	78208.0	-851515.1	3692.0
1281.545	-702.7	-242.9	29331.8	97333.0	513220.0	-1281.0
1281.546	3215.5	-8.9	-141400.0	416147.0	-468308.0	6505.0
1281.547	-2121.5	-124.8	86163.0	-68158.0	855051.9	-2408.0
1281.548	1771.6	53.4	-83746.0	282661.0	-124275.0	4742.0
1281.549	2656.0	-302.0	-109100.0	-229575.0	-312485.0	-3602.0
1281.550	6503.0	-272.4	-277200.0	144862.0	-1254000.0	4746.0
1281.551	1251.4	188.5	-47934.1	-361370.0	-11028.0	-4085.0
1281.552	5043.5	456.0	-213500.0	45121.0	-963595.0	3061.0
1281.553	-761.6	-235.7	31320.3	92200.0	500295.0	-1280.0
1281.554	3159.2	0.5	-139500.0	410484.0	-482167.0	6509.0

1281.555	-2063.0	-127.7	84165.9	-65672.0	868693.0	-2344.0
1281.556	1826.0	55.4	-85639.8	281946.0	-109540.0	4772.0
1281.557	2584.0	-120.9	-102700.0	-235518.0	-327947.0	-3927.0
1281.558	6421.0	-3.2	-270500.0	151120.0	-1269000.0	4258.0
1281.559	1318.6	-98.7	-52051.1	-390623.0	4049.0	-3604.0
1281.560	5116.2	-76.5	-218100.0	-16653.0	-946679.0	3918.0
1282.1	-1378.6	73.6	-50043.6	31362.0	-582011.0	301.0
1282.2	-1002.4	44.6	-35703.1	20652.0	-579012.0	529.0
1282.3	-1423.8	54.9	-50425.0	26774.0	-992768.0	494.0
1282.4	-1046.7	31.6	-36047.7	14892.0	-989059.0	712.0
1282.5	-1912.6	5.4	-72123.2	70783.0	-784736.0	3533.0
1282.6	-1536.7	2.9	-57844.9	57087.0	-781450.0	3718.0
1282.7	-4087.5	12.4	-164500.0	180103.0	-1573000.0	-8766.0
1282.8	-3712.5	31.0	-150200.0	161090.0	-1570000.0	-8613.0
1282.9	-3418.7	22.7	-136200.0	143373.0	-1329000.0	-6518.0
1282.10	-3042.5	24.5	-121900.0	127611.0	-1325000.0	-6339.0
1282.11	-3461.4	36.2	-136500.0	132778.0	-1737000.0	-6373.0
1282.12	-3087.4	33.5	-122300.0	120120.0	-1735000.0	-6201.0
1282.13	-3951.4	10.8	-158300.0	174825.0	-1529000.0	-3368.0
1282.14	-3576.6	28.7	-144000.0	156029.0	-1526000.0	-3215.0
1282.15	-1640.9	8.4	-61030.1	52827.0	-678837.0	-499.0
1282.16	-1113.4	43.3	-38741.3	20177.0	-485764.0	1249.0
1282.17	-1265.3	6.2	-46765.9	39362.0	-675504.0	-313.0
1282.18	-736.6	18.2	-24384.7	8469.0	-482286.0	1473.0
1282.19	-1816.9	4.6	-68478.7	62794.0	-743085.0	-1095.0
1282.20	-936.4	25.2	-31211.7	12132.0	-421412.0	1878.0
1282.21	-1441.2	9.0	-54201.6	48006.0	-739628.0	-917.0
1282.22	-560.1	0.4	-17042.7	-1243.0	-417918.0	2107.0
1282.23	-1686.5	10.9	-61479.4	46325.0	-1089000.0	-341.0
1282.24	-1158.0	31.8	-39107.2	14146.0	-895828.0	1436.0
1282.25	-1310.9	6.5	-47215.7	32942.0	-1086000.0	-155.0
1282.26	-781.8	5.9	-24828.5	1403.0	-892695.0	1661.0
1282.27	-2176.3	16.9	-83262.0	82691.0	-880576.0	2619.0
1282.28	-1648.7	1.8	-60966.0	57908.0	-688629.0	4436.0
1282.29	-1793.3	17.2	-68633.4	64678.0	-873370.0	2819.0
1282.30	-1273.1	8.6	-46689.9	42766.0	-685249.0	4607.0
1282.31	-4350.6	13.6	-175600.0	192878.0	-1669000.0	-9664.0
1282.32	-3823.5	31.2	-153300.0	161659.0	-1476000.0	-7886.0
1282.33	-3976.4	12.4	-161400.0	179305.0	-1666000.0	-9492.0
1282.34	-3449.6	30.3	-139100.0	148575.0	-1474000.0	-7715.0
1282.35	-3855.2	48.9	-154600.0	157910.0	-1486000.0	-8039.0
1282.36	-2979.9	18.9	-117600.0	122282.0	-1169000.0	-5017.0
1282.37	-3483.3	24.3	-140500.0	151248.0	-1486000.0	-7845.0
1282.38	-2604.0	20.2	-103300.0	106856.0	-1165000.0	-4838.0
1282.39	-3682.0	25.0	-147300.0	155863.0	-1424000.0	-7419.0
1282.40	-3155.4	20.4	-125000.0	130728.0	-1233000.0	-5617.0
1282.41	-3307.8	22.7	-133100.0	142803.0	-1422000.0	-7245.0
1282.42	-2779.4	21.9	-110700.0	115178.0	-1229000.0	-5438.0
1282.43	-3724.0	27.0	-147600.0	147721.0	-1833000.0	-7258.0
1282.44	-3199.6	31.8	-125400.0	122066.0	-1642000.0	-5477.0
1282.45	-3349.9	22.9	-133400.0	135002.0	-1830000.0	-7083.0
1282.46	-2825.5	28.0	-111200.0	109459.0	-1640000.0	-5302.0
1282.47	-4214.6	14.3	-169400.0	187291.0	-1625000.0	-4270.0
1282.48	-3687.4	28.8	-147100.0	156375.0	-1433000.0	-2488.0
1282.49	-3840.4	8.8	-155200.0	174378.0	-1622000.0	-4092.0
1282.50	-3314.0	41.1	-132900.0	141408.0	-1430000.0	-2338.0
1282.51	-1328.4	-74.9	-51629.5	46060.0	-611376.0	-2225.0
1282.52	-956.3	-77.4	-37624.0	35232.0	-609429.0	-2043.0
1282.53	-1307.1	-129.4	-53576.7	58141.0	-634824.0	-4001.0
1282.54	-935.5	-127.1	-39627.6	46212.0	-631830.0	-3816.0
1282.55	-1372.4	-76.7	-51988.6	39388.0	-1021000.0	-2044.0
1282.56	-1000.2	-79.7	-37977.3	27052.0	-1019000.0	-1856.0

1282.57	-1860.1	-83.2	-73567.3	78056.0	-811463.0	935.0
1282.58	-1487.1	-85.8	-59502.3	67300.0	-808508.0	1123.0
1282.59	-4034.0	-151.0	-165200.0	195267.0	-1602000.0	-11231.0
1282.60	-3662.4	-126.7	-151300.0	178451.0	-1600000.0	-11081.0
1282.61	-3366.9	-123.4	-137200.0	157093.0	-1358000.0	-9027.0
1282.62	-2994.5	-118.4	-123200.0	144726.0	-1356000.0	-8851.0
1282.63	-3343.4	-166.7	-139100.0	167088.0	-1380000.0	-10796.0
1282.64	-2972.0	-145.3	-125200.0	151705.0	-1378000.0	-10642.0
1282.65	-3411.3	-123.2	-137600.0	152024.0	-1768000.0	-8853.0
1282.66	-3038.7	-118.4	-123600.0	139573.0	-1766000.0	-8678.0
1282.67	-3899.0	-129.5	-159200.0	185771.0	-1558000.0	-5858.0
1282.68	-3525.5	-145.4	-145100.0	177403.0	-1556000.0	-5655.0
1282.69	-1429.4	156.6	-51380.8	27924.0	-559130.0	419.0
1282.70	-1052.5	122.7	-37074.7	17268.0	-557146.0	706.0
1282.71	-1459.9	190.5	-52223.8	26083.0	-545787.0	682.0
1282.72	-1084.4	132.3	-38242.5	18399.0	-544358.0	999.0
1282.73	-1475.9	145.1	-51879.0	22918.0	-970421.0	577.0
1282.74	-1100.2	95.5	-37688.4	10391.0	-968965.1	901.0
1282.75	-1969.5	221.1	-73791.1	53540.0	-763001.0	3393.0
1282.76	-1592.7	195.7	-59483.1	43117.0	-760950.0	3664.0
1282.77	-4183.7	492.0	-167800.0	140424.0	-1568000.0	-9431.0
1282.78	-3803.6	467.8	-153300.0	129677.0	-1564000.0	-9158.0
1282.79	-3502.3	406.6	-139000.0	113685.0	-1318000.0	-6998.0
1282.80	-3125.1	379.4	-124600.0	103759.0	-1317000.0	-6730.0
1282.81	-3532.3	453.5	-139800.0	115979.0	-1306000.0	-6787.0
1282.82	-3155.3	417.6	-125500.0	106649.0	-1304000.0	-6502.0
1282.83	-3547.4	386.2	-139400.0	110841.0	-1729000.0	-6830.0
1282.84	-3170.3	359.9	-125100.0	100818.0	-1727000.0	-6563.0
1282.85	-4045.8	477.6	-161500.0	135841.0	-1523000.0	-4026.0
1282.86	-3668.4	451.4	-147200.0	125831.0	-1522000.0	-3758.0
1282.87	-1726.9	17.0	-64835.6	68013.0	-712011.0	-1401.0
1282.88	-1353.0	10.0	-50675.0	55629.0	-710533.0	-1228.0
1282.89	-1843.8	14.1	-69868.0	78685.0	-756379.0	-1998.0
1282.90	-1470.5	11.8	-55787.5	66131.0	-754635.0	-1836.0
1282.91	-1771.7	22.0	-65241.1	60660.0	-1122000.0	-1260.0
1282.92	-1397.3	20.5	-51095.9	47289.0	-1120000.0	-1091.0
1282.93	-2261.0	21.6	-87003.0	96796.0	-913366.0	1717.0
1282.94	-1887.1	17.0	-72825.8	83977.0	-911778.0	1888.0
1282.95	-1989.0	13.6	-75911.8	81385.0	-807392.0	-2293.0
1282.96	-1463.8	12.6	-53720.1	55614.0	-616366.0	-497.0
1282.97	-1614.9	18.0	-61714.2	66258.0	-805451.0	-2132.0
1282.98	-1089.9	13.9	-39608.2	42086.0	-614671.0	-336.0
1282.99	-2164.3	14.6	-83319.5	89776.0	-871197.0	-2892.0
1282.100	-1288.2	15.2	-46325.6	46232.0	-552299.0	98.0
1282.101	-1790.2	22.1	-69116.4	74125.0	-869169.1	-2736.0
1282.102	-915.2	15.4	-32267.0	33923.0	-551052.0	257.0
1282.103	-2105.9	13.6	-80929.5	91330.0	-851592.0	-2894.0
1282.104	-1580.9	12.5	-58790.8	66197.0	-660793.0	-1100.0
1282.105	-1732.5	5.7	-66783.7	79044.0	-850047.0	-2722.0
1282.106	-1207.4	17.4	-44730.9	52533.0	-658817.0	-947.0
1282.107	-2033.6	20.5	-76303.5	73310.0	-1218000.0	-2152.0
1282.108	-1510.1	23.5	-54256.0	48807.0	-1027000.0	-371.0
1282.109	-1659.7	16.3	-62119.8	60550.0	-1216000.0	-1982.0
1282.110	-1136.0	19.0	-40115.6	36223.0	-1026000.0	-200.0
1282.111	-2524.0	24.9	-98117.2	109282.0	-1009000.0	816.0
1282.112	-1998.0	18.8	-75889.7	84211.0	-817604.0	2618.0
1282.113	-2150.2	21.4	-83938.8	96243.0	-1007000.0	984.0
1282.114	-1623.9	10.5	-61717.5	71979.0	-816023.0	2795.0
1282.115	-1684.9	-77.9	-67043.4	83708.0	-743025.0	-3948.0
1282.116	-1312.9	-73.8	-53058.8	71772.0	-740872.0	-3765.0
1282.117	-1663.5	-116.0	-69037.7	92759.0	-766140.0	-5730.0
1282.118	-1292.1	-109.2	-55110.1	79550.0	-764363.0	-5559.0

1282.119	-1801.9	-76.0	-72118.8	94518.0	-786241.0	-4511.0
1282.120	-1429.3	-80.9	-58069.3	84631.0	-783831.0	-4313.0
1282.121	-1728.9	-78.4	-67397.8	78266.0	-1152000.0	-3772.0
1282.122	-1356.6	-73.9	-53403.1	65438.0	-1150000.0	-3585.0
1282.123	-2217.8	-73.4	-89103.1	111933.0	-943494.1	-803.0
1282.124	-1844.8	-70.2	-75069.7	98676.0	-940625.0	-616.0
1282.125	-1796.0	264.0	-67061.1	53683.0	-700394.0	-1521.0
1282.126	-1418.8	239.1	-52741.2	43541.0	-698164.0	-1256.0
1282.127	-1826.9	317.5	-67920.1	52850.0	-687190.0	-1297.0
1282.128	-1449.7	291.9	-53594.7	42384.0	-685394.0	-1039.0
1282.129	-1916.7	310.9	-72217.0	60025.0	-746514.0	-2172.0
1282.130	-1539.4	282.6	-57891.5	50158.0	-744448.0	-1907.0
1282.131	-1841.6	257.1	-67513.6	49130.0	-1111000.0	-1372.0
1282.132	-1464.7	228.0	-53208.5	39301.0	-1109000.0	-1103.0
1282.133	-2337.3	328.1	-89521.3	76677.0	-904412.0	1468.0
1282.134	-1960.1	310.8	-75188.6	65681.0	-902244.1	1719.0
1282.135	-2703.9	165.4	-105900.0	79621.0	-1069000.0	-3137.0
1282.136	-2328.1	138.6	-91594.5	68948.0	-1066000.0	-2914.0
1282.137	-3137.4	191.5	-124200.0	95213.0	-1228000.0	-4254.0
1282.138	-2761.5	154.4	-109800.0	85226.0	-1225000.0	-4013.0
1282.139	-2749.9	148.9	-106300.0	75586.0	-1480000.0	-2947.0
1282.140	-2373.2	124.6	-91975.9	64506.0	-1477000.0	-2728.0
1282.141	-3241.7	200.0	-128400.0	106393.0	-1271000.0	-53.0
1282.142	-2865.2	176.8	-114000.0	95273.0	-1267000.0	164.0
1282.143	-2969.5	189.7	-117200.0	90680.0	-1166000.0	-4072.0
1282.144	-2438.7	123.9	-94561.4	69674.0	-972855.9	-2174.0
1282.145	-2592.8	162.9	-102900.0	79782.0	-1162000.0	-3847.0
1282.146	-2061.8	96.3	-80180.9	58919.0	-969392.0	-1948.0
1282.147	-3146.5	204.1	-124700.0	98257.0	-1230000.0	-4692.0
1282.148	-2260.3	100.5	-86920.2	62499.0	-907795.0	-1536.0
1282.149	-2769.8	177.7	-110400.0	87287.0	-1227000.0	-4468.0
1282.150	-1883.8	79.5	-72584.6	51119.0	-904388.9	-1320.0
1282.151	-3403.0	215.3	-135500.0	106345.0	-1325000.0	-5188.0
1282.152	-2872.6	156.5	-112900.0	84892.0	-1132000.0	-3301.0
1282.153	-3026.5	188.3	-121100.0	95484.0	-1321000.0	-4962.0
1282.154	-2495.8	132.0	-98499.8	73811.0	-1129000.0	-3081.0
1282.155	-3014.2	171.7	-117600.0	86485.0	-1576000.0	-3879.0
1282.156	-2484.0	118.8	-94988.1	64521.0	-1383000.0	-2001.0
1282.157	-2638.7	146.3	-103300.0	75895.0	-1573000.0	-3661.0
1282.158	-2106.3	90.9	-80558.9	53461.0	-1379000.0	-1774.0
1282.159	-3507.1	221.8	-139700.0	117734.0	-1367000.0	-985.0
1282.160	-2976.3	178.2	-117100.0	95110.0	-1174000.0	881.0
1282.161	-3130.8	197.5	-125300.0	106644.0	-1364000.0	-769.0
1282.162	-2599.8	154.4	-102700.0	83995.0	-1171000.0	1098.0
1282.163	-2633.7	-128.0	-105800.0	107021.0	-1091000.0	-5422.0
1282.164	-2261.9	-120.2	-91819.9	94330.0	-1089000.0	-5259.0
1282.165	-2611.9	-160.5	-107800.0	114840.0	-1114000.0	-7239.0
1282.166	-2240.2	-154.3	-93815.3	102540.0	-1113000.0	-7071.0
1282.167	-3061.6	-139.1	-123600.0	124019.0	-1248000.0	-6466.0
1282.168	-2689.7	-131.9	-109600.0	111432.0	-1246000.0	-6305.0
1282.169	-2678.6	-115.8	-106200.0	98199.0	-1501000.0	-5267.0
1282.170	-2306.0	-119.8	-92185.3	89451.0	-1499000.0	-5091.0
1282.171	-3167.2	-127.8	-127900.0	134292.0	-1292000.0	-2263.0
1282.172	-2794.8	-121.9	-113900.0	121694.0	-1289000.0	-2097.0
1282.173	-2752.8	234.4	-107000.0	76909.0	-1041000.0	-3105.0
1282.174	-2375.9	212.7	-92718.4	66143.0	-1039000.0	-2838.0
1282.175	-2784.1	299.1	-107900.0	74966.0	-1028000.0	-2888.0
1282.176	-2407.4	268.8	-93595.2	64001.0	-1026000.0	-2610.0
1282.177	-3186.4	266.0	-125300.0	92206.0	-1200000.0	-4241.0
1282.178	-2809.3	234.7	-111000.0	82138.0	-1197000.0	-3987.0
1282.179	-2798.9	234.2	-107500.0	72001.0	-1452000.0	-2966.0
1282.180	-2421.6	210.9	-93172.2	61557.0	-1450000.0	-2698.0

1282.181	-3293.9	310.8	-129500.0	98967.0	-1245000.0	-135.0
1282.182	-2917.4	284.5	-115200.0	89346.0	-1243000.0	134.0
1282.183	-1706.4	61.7	-49506.6	37882.0	-753051.0	345.0
1282.184	-1329.8	24.1	-35114.0	28396.0	-749834.0	589.0
1282.185	-1751.2	53.4	-49891.4	32735.0	-1163000.0	522.0
1282.186	-1375.1	32.3	-35579.8	21289.0	-1160000.0	740.0
1282.187	-1926.2	63.9	-49245.3	41788.0	-867201.9	396.0
1282.188	-1548.9	36.2	-34820.9	31936.0	-864393.0	712.0
1282.189	-2241.3	18.9	-71656.3	73982.0	-955267.0	3542.0
1282.190	-1865.4	25.9	-57369.8	58886.0	-951436.1	3717.0
1282.191	-4415.2	26.7	-163900.0	179785.0	-1742000.0	-8723.0
1282.192	-4040.8	24.7	-149700.0	166788.0	-1739000.0	-8542.0
1282.193	-3745.3	21.5	-135600.0	145851.0	-1497000.0	-6462.0
1282.194	-3371.7	31.9	-121400.0	131334.0	-1495000.0	-6299.0
1282.195	-3790.5	33.8	-136000.0	138473.0	-1908000.0	-6317.0
1282.196	-3417.3	27.6	-121900.0	127703.0	-1906000.0	-6140.0
1282.197	-3968.6	28.6	-135500.0	150874.0	-1613000.0	-6476.0
1282.198	-3593.8	27.7	-121300.0	138132.0	-1611000.0	-6244.0
1282.199	-4282.4	18.7	-157900.0	178661.0	-1700000.0	-3334.0
1282.200	-3907.8	16.7	-143700.0	165264.0	-1697000.0	-3156.0
1282.201	-2056.6	25.5	-64444.3	72972.0	-883644.1	-1313.0
1282.202	-1683.6	21.1	-50332.8	61574.0	-884134.9	-1091.0
1282.203	-2174.8	34.0	-69596.5	83467.0	-928892.0	-1904.0
1282.204	-1801.1	24.6	-55442.6	72066.0	-929041.0	-1684.0
1282.205	-2103.3	36.7	-64991.9	67034.0	-1295000.0	-1186.0
1282.206	-1729.3	33.2	-50837.9	54831.0	-1295000.0	-968.0
1282.207	-2278.2	35.0	-64264.4	78024.0	-1001000.0	-1187.0
1282.208	-1905.0	47.3	-50206.4	64388.0	-1001000.0	-990.0
1282.209	-2591.5	21.4	-86657.7	103159.0	-1085000.0	1792.0
1282.210	-2216.9	21.3	-72441.2	89827.0	-1084000.0	2017.0
1282.211	-3033.0	141.5	-105400.0	86822.0	-1240000.0	-3074.0
1282.212	-2654.2	112.0	-90912.4	75681.0	-1235000.0	-2840.0
1282.213	-3466.7	170.7	-123700.0	102218.0	-1399000.0	-4195.0
1282.214	-3089.8	136.0	-109300.0	92225.0	-1396000.0	-3957.0
1282.215	-3077.0	131.1	-105700.0	82203.0	-1650000.0	-2894.0
1282.216	-2698.3	104.0	-91254.5	70765.0	-1645000.0	-2664.0
1282.217	-3249.6	132.0	-104900.0	90396.0	-1352000.0	-3031.0
1282.218	-2872.9	103.3	-90561.2	79859.0	-1348000.0	-2802.0
1282.219	-3572.0	202.4	-128000.0	111623.0	-1441000.0	-30.0
1282.220	-3194.7	179.6	-113700.0	100180.0	-1438000.0	192.0
1282.221	-1054.4	69.5	-50606.1	28587.0	-430633.0	282.0
1282.222	-678.0	39.7	-36252.6	17418.0	-427556.0	507.0
1282.223	-1099.8	51.8	-51005.6	23329.0	-841365.1	468.0
1282.224	-722.6	25.9	-36619.8	11353.0	-837513.9	689.0
1282.225	-838.2	66.4	-50982.3	26743.0	-329484.0	265.0
1282.226	-461.8	36.3	-36627.5	15357.0	-326163.0	490.0
1282.227	-1588.8	8.5	-72710.4	67131.0	-633525.0	3498.0
1282.228	-1212.4	5.3	-58404.8	53784.0	-629836.0	3679.0
1282.229	-3763.0	9.8	-165000.0	177859.0	-1421000.0	-8803.0
1282.230	-3388.5	6.7	-150800.0	164533.0	-1418000.0	-8629.0
1282.231	-3094.5	20.0	-136700.0	140988.0	-1177000.0	-6551.0
1282.232	-2718.0	20.3	-122400.0	125344.0	-1173000.0	-6373.0
1282.233	-3137.3	33.2	-137000.0	130223.0	-1586000.0	-6408.0
1282.234	-2765.1	13.2	-122900.0	123145.0	-1584000.0	-6228.0
1282.235	-2878.4	16.6	-137100.0	139537.0	-1075000.0	-6573.0
1282.236	-2504.2	14.4	-122900.0	126487.0	-1073000.0	-6404.0
1282.237	-3628.3	6.7	-158900.0	173781.0	-1378000.0	-3407.0
1282.238	-3253.7	3.7	-144700.0	160315.0	-1375000.0	-3236.0
1282.239	-1403.4	12.9	-65441.6	65615.0	-560181.0	-1443.0
1282.240	-1029.4	7.3	-51285.4	53167.0	-558448.0	-1270.0
1282.241	-1520.1	11.1	-70471.4	76246.0	-604457.0	-2040.0
1282.242	-1146.1	9.2	-56345.9	63465.0	-602706.0	-1873.0

1282.243	-1448.2	15.0	-65844.9	58530.0	-970450.0	-1296.0
1282.244	-1075.4	20.0	-51819.5	46036.0	-969276.0	-1145.0
1282.245	-1187.7	10.5	-65841.8	64004.0	-458489.0	-1470.0
1282.246	-813.6	5.5	-51698.1	51557.0	-456743.0	-1299.0
1282.247	-1937.6	19.4	-87607.1	94215.0	-761493.0	1673.0
1282.248	-1563.1	8.3	-73403.8	82212.0	-759666.0	1857.0
1282.249	-2379.1	150.7	-106400.0	77440.0	-917112.0	-3130.0
1282.250	-2002.7	135.1	-92085.8	66154.0	-913978.0	-2930.0
1282.251	-2812.5	175.5	-124600.0	93215.0	-1076000.0	-4244.0
1282.252	-2435.8	150.4	-110300.0	82141.0	-1073000.0	-4025.0
1282.253	-2424.4	145.6	-106800.0	72457.0	-1328000.0	-2965.0
1282.254	-2048.8	120.1	-92526.7	61889.0	-1325000.0	-2749.0
1282.255	-2162.5	139.2	-106700.0	76200.0	-816242.0	-3131.0
1282.256	-1786.2	122.6	-92410.4	64627.0	-812595.0	-2928.0
1282.257	-2917.2	194.7	-128900.0	103828.0	-1119000.0	-72.0
1282.258	-2540.7	170.5	-114600.0	92839.0	-1116000.0	144.0
1282.401	-1479.7	-807.9	-72843.0	770911.0	-256993.0	-4490.0
1282.402	-1927.0	-695.5	-91470.1	892440.1	-408067.0	-6379.0
1282.403	-2103.2	-801.4	-88942.1	543584.0	-92807.0	-6437.0
1282.404	-2552.2	-683.2	-107700.0	665017.0	-245896.0	-8376.0
1282.405	790.9	750.9	17155.1	-592348.0	380674.0	7335.0
1282.406	331.2	864.8	-1042.7	-495982.0	234958.0	5521.0
1282.407	146.1	483.7	-5188.7	-755476.0	540139.0	6151.0
1282.408	-314.2	593.9	-23378.9	-658220.0	394973.0	4308.0
1282.409	-1508.6	-701.0	-74195.5	758786.0	-257814.0	-4487.0
1282.410	-1954.6	-592.6	-92739.9	879625.0	-407483.0	-6387.0
1282.411	-2074.8	-941.8	-87457.6	561502.0	-93950.0	-6293.0
1282.412	-2523.8	-827.3	-106200.0	683419.0	-247314.0	-8226.0
1282.413	769.2	737.1	16893.6	-588557.0	376651.0	7611.0
1282.414	308.9	850.2	-1278.4	-490076.0	230973.0	5787.0
1282.415	167.4	489.3	-4798.6	-757146.0	541663.0	5912.0
1282.416	-293.1	597.6	-23000.1	-659753.0	395555.0	4067.0
1282.417	1201.2	-1288.3	-89045.6	1055000.0	-384465.0	-5868.0
1282.418	754.1	-1203.6	-107600.0	1180000.0	-536485.0	-7711.0
1282.419	576.5	-1435.8	-104500.0	850133.0	-230752.0	-7328.0
1282.420	128.6	-1351.7	-123100.0	975138.9	-383661.0	-9204.0
1282.421	-1912.8	1318.3	32133.7	-838743.0	463290.0	7433.0
1282.422	-2372.7	1464.3	13659.4	-735693.0	319716.0	5500.0
1282.423	-2544.4	1185.9	8544.5	-972755.9	628685.0	6121.0
1282.424	-3005.6	1341.1	-10267.1	-868517.0	486185.0	4111.0
1282.425	1178.5	-1290.6	-89682.7	1050000.0	-385560.0	-5781.0
1282.426	731.4	-1206.0	-108200.0	1175000.0	-537532.0	-7624.0
1282.427	598.3	-1433.7	-103900.0	854903.0	-232836.0	-7394.0
1282.428	150.4	-1349.7	-122500.0	979974.0	-385739.0	-9270.0
1282.429	-1930.9	1503.0	28609.2	-810462.0	469289.0	7157.0
1282.430	-2391.2	1663.1	9835.3	-705896.0	326561.0	5190.0
1282.431	-2525.9	1054.1	10296.7	-1004000.0	623850.0	6286.0
1282.432	-2986.5	1194.5	-8182.3	-903416.0	480667.0	4327.0
1282.433	28.2	-120.5	-15490.2	540849.0	-247884.0	713.0
1282.434	-424.6	-40.1	-34407.1	670538.0	-389375.0	-993.0
1282.435	-2025.9	-244.4	-81126.8	-98553.0	331326.0	-4255.0
1282.436	-2473.4	-79.3	-99169.8	2416.0	179362.0	-6157.0
1282.437	760.6	468.9	21156.9	64343.0	-54199.0	3879.0
1282.438	300.7	557.1	1701.2	185371.0	-200875.0	1982.0
1282.439	-1367.2	-172.1	-52233.4	-505103.0	509867.0	-100.0
1282.440	-1825.9	-11.4	-70799.8	-398849.0	353202.0	-2097.0
1282.441	880.1	-215.6	-17548.2	602344.0	-248685.0	1008.0
1282.442	435.9	-130.9	-35899.5	727878.0	-392624.0	-641.0
1282.443	-1219.9	-585.3	-79889.9	-51889.0	279113.0	-4117.0
1282.444	-1672.2	-432.3	-98185.3	44680.0	123755.0	-6043.0
1282.445	-94.1	539.1	22946.2	13983.0	-39090.0	3230.0
1282.446	-548.6	629.5	3916.0	137006.0	-186753.0	1579.0

1282.447	-2181.3	211.5	-53809.0	-538714.0	558689.0	-535.0
1282.448	-2639.6	367.8	-72382.7	-435341.0	402744.0	-2504.0
1282.449	-67.5	157.7	-19827.1	506937.0	-243128.0	557.0
1282.450	-516.7	275.9	-38663.6	630212.0	-382068.0	-1215.0
1282.451	-1941.1	-682.8	-68068.4	-182670.0	309998.0	-3346.0
1282.452	-2393.1	-594.4	-85811.1	-96395.0	153902.0	-5149.0
1282.453	674.2	728.8	14060.2	72239.0	-27678.0	4086.0
1282.454	211.2	844.3	-4956.6	186214.0	-170782.0	1858.0
1282.455	-1297.8	-300.2	-48794.8	-541124.0	503135.0	9.9
1282.456	-1757.1	-184.7	-66782.6	-444863.0	343597.0	-1869.0
1282.457	778.1	-128.0	-21659.0	595545.0	-244417.0	1085.0
1282.458	330.5	-7.8	-40392.4	718320.0	-384630.0	-702.0
1282.459	-1143.9	-823.9	-74112.2	-112564.0	264662.0	-3639.0
1282.460	-1594.8	-734.0	-91751.9	-26842.0	108190.0	-5408.0
1282.461	-197.3	1043.6	10597.4	13227.0	-9003.0	2600.0
1282.462	-655.4	1180.8	-8254.8	131082.0	-155040.0	859.0
1282.463	-2105.2	-147.9	-43781.6	-607886.0	543551.0	125.0
1282.464	-2565.8	-34.7	-62014.4	-512390.0	383651.0	-1752.0
1282.529	-152.9	-379.0	-10467.6	147511.0	133548.0	1638.0
1282.530	-1640.0	-21.4	-72305.1	557092.0	-350584.0	-4331.0
1282.531	-768.0	-373.7	-29678.6	-54348.0	311430.0	-56.0
1282.532	-2270.3	93.0	-90431.9	320380.0	-205663.0	-6555.0
1282.533	552.4	131.5	19269.7	-269644.0	314560.0	4972.0
1282.534	-987.2	494.9	-42963.4	78861.0	-179701.0	-1342.0
1282.535	-91.1	-127.1	-2988.2	-435587.0	481825.0	3853.0
1282.536	-1620.9	323.6	-64183.2	-93993.0	-1226.0	-2576.0
1282.537	-182.4	-287.6	-11839.0	136010.0	133148.0	1581.0
1282.538	-1667.0	52.4	-73473.9	547505.0	-347115.0	-4331.0
1282.539	-740.1	-515.9	-24525.9	-61457.0	304462.0	193.0
1282.540	-2240.0	-151.5	-87165.6	339400.0	-210205.0	-6193.0
1282.541	532.8	125.6	19136.0	-269124.0	317309.0	5255.0
1282.542	-1007.9	560.9	-43924.0	86913.0	-169657.0	-1390.0
1282.543	-70.3	-120.5	-2566.2	-437986.0	483287.0	3628.0
1282.544	-1600.8	272.0	-63057.4	-108538.0	-7787.0	-2478.0
1282.545	662.5	-494.9	-14805.8	224525.0	109781.0	1314.0
1282.546	-823.1	-205.2	-76241.0	640220.0	-384565.0	-4638.0
1282.547	38.1	-642.7	-30263.1	20129.0	263175.0	-110.0
1282.548	-1459.7	-285.9	-92778.6	411692.0	-249449.0	-6449.0
1282.549	-273.3	256.4	24088.5	-350487.0	333985.0	4814.0
1282.550	-1797.0	707.0	-37947.0	11103.0	-142512.0	-1458.0
1282.551	-899.8	153.5	-907.7	-490319.0	507863.0	3724.0
1282.552	-2426.1	678.7	-63171.2	-137383.0	43355.0	-2783.0
1282.553	640.8	-497.4	-15394.8	220507.0	112336.0	1433.0
1282.554	-847.0	-145.2	-77196.8	629387.0	-380273.0	-4667.0
1282.555	60.0	-640.3	-29648.0	24819.0	261392.0	-168.0
1282.556	-1436.1	-357.3	-91836.9	417897.0	-252561.0	-6380.0
1282.557	-297.3	430.3	18725.1	-328508.0	342171.0	4601.0
1282.558	-1825.7	926.5	-43688.8	35959.0	-128157.0	-1908.0
1282.559	-878.6	18.6	2231.3	-514578.0	503122.0	3863.0
1282.560	-2406.2	479.8	-58989.1	-174483.0	33100.0	-2497.0
1283.1	960.3	-56.4	-38670.9	74719.0	-499506.0	1938.0
1283.2	915.4	-47.1	-35305.2	55716.0	-573318.0	1603.0
1283.3	1465.2	-68.0	-56202.6	72180.0	-1040000.0	1928.0
1283.4	1419.5	-38.4	-52953.8	40307.0	-1113000.0	1520.0
1283.5	1002.1	-66.8	-43331.8	121122.0	-592383.0	5446.0
1283.6	956.8	-53.5	-40061.9	95400.0	-665735.0	5085.0
1283.7	1152.8	-126.0	-69996.3	15542.0	-899319.1	-2759.0
1283.8	1108.4	-134.2	-66641.2	-7813.0	-974347.0	-3070.0
1283.9	1104.6	-95.8	-62308.9	26421.0	-799513.0	-1647.0
1283.10	1058.3	-113.2	-58881.4	239.0	-873957.0	-1945.0
1283.11	1604.6	-136.5	-79789.4	2533.0	-1339000.0	-1673.0
1283.12	1562.0	-121.6	-76465.7	-8880.0	-1414000.0	-1993.0

1283.13	1143.7	-114.3	-67047.2	44357.0	-892344.1	1817.0
1283.14	1099.6	-121.5	-63695.0	22039.0	-967359.9	1507.0
1283.15	985.4	-69.0	-41865.5	90766.0	-539948.0	1557.0
1283.16	934.6	-52.3	-35395.8	69359.0	-459301.0	2365.0
1283.17	940.4	-54.6	-38538.9	66788.0	-613556.0	1198.0
1283.18	889.1	-30.4	-32103.4	41220.0	-532578.0	1983.0
1283.19	1002.4	-74.9	-44030.3	97187.0	-566860.0	1285.0
1283.20	917.3	-45.6	-33239.8	62296.0	-432320.0	2632.0
1283.21	957.2	-54.1	-40742.5	68822.0	-640238.0	903.0
1283.22	872.0	-21.7	-29973.2	31907.0	-505809.0	2239.0
1283.23	1490.3	-75.4	-59438.6	84024.0	-1080000.0	1525.0
1283.24	1438.9	-47.2	-53025.8	55513.0	-999512.0	2294.0
1283.25	1445.1	-69.0	-56067.7	61784.0	-1154000.0	1185.0
1283.26	1394.0	-30.5	-49713.5	31348.0	-1073000.0	1931.0
1283.27	1027.1	-59.8	-46682.4	119747.0	-632298.0	4979.0
1283.28	977.1	-57.9	-40072.7	116313.0	-552150.0	5867.0
1283.29	973.0	-57.9	-43395.7	47399.0	-702542.0	4516.0
1283.30	932.1	-38.2	-36786.3	88203.0	-625548.0	5487.0
1283.31	1177.8	-134.2	-73294.7	15149.0	-939895.0	-3185.0
1283.32	1125.7	-139.3	-66644.4	4936.0	-858559.0	-2324.0
1283.33	1134.8	-120.9	-69977.3	1128.0	-1015000.0	-3510.0
1283.34	1083.2	-124.5	-63336.3	-7337.0	-933866.0	-2647.0
1283.35	1143.0	-145.0	-67737.6	8661.0	-866403.0	-2337.0
1283.36	1062.6	-83.9	-56809.5	25919.0	-731882.0	-937.0
1283.37	1103.9	-95.5	-64498.4	13350.0	-942261.1	-2679.0
1283.38	1017.0	-97.1	-53402.7	1145.0	-806442.0	-1238.0
1283.39	1130.1	-103.0	-65624.8	26663.0	-840068.0	-2073.0
1283.40	1079.3	-88.6	-59006.6	25858.0	-758916.0	-1222.0
1283.41	1087.1	-90.7	-62296.7	13041.0	-915168.0	-2395.0
1283.42	1033.6	-103.5	-55596.5	942.0	-833494.1	-1520.0
1283.43	1629.3	-145.6	-83076.5	2643.0	-1379000.0	-2095.0
1283.44	1581.6	-108.8	-76548.9	10199.0	-1298000.0	-1263.0
1283.45	1586.4	-130.7	-79749.9	-9307.0	-1454000.0	-2417.0
1283.46	1538.9	-95.5	-73219.4	-1590.0	-1374000.0	-1582.0
1283.47	1168.6	-122.5	-70338.7	43855.0	-932869.1	1390.0
1283.48	1117.1	-126.8	-63715.4	34361.0	-851513.9	2252.0
1283.49	1125.9	-109.1	-67026.7	30946.0	-1008000.0	1068.0
1283.50	1075.0	-112.5	-60409.5	22001.0	-926844.1	1930.0
1283.51	883.8	-53.2	-36872.9	-93852.0	-545125.0	1479.0
1283.52	845.6	-37.7	-34028.3	-91305.0	-620250.0	1182.0
1283.53	851.7	-20.8	-37059.9	-139958.0	-580128.0	1275.0
1283.54	814.5	-10.9	-34254.4	-135335.0	-656246.0	998.0
1283.55	1387.5	-55.6	-54432.1	-102498.0	-1085000.0	1432.0
1283.56	1349.3	-38.0	-51596.0	-100343.0	-1160000.0	1129.0
1283.57	921.5	-58.5	-41582.2	-77664.0	-637964.0	4905.0
1283.58	883.7	-44.9	-38728.8	-78085.0	-713660.0	4610.0
1283.59	1071.9	-156.3	-68057.7	-148793.0	-948323.1	-3155.0
1283.60	1031.5	-148.2	-65095.0	-151183.0	-1024000.0	-3448.0
1283.61	1025.1	-131.2	-60358.8	-135599.0	-848859.9	-2020.0
1283.62	984.0	-121.4	-57369.1	-137317.0	-923988.0	-2314.0
1283.63	983.0	-160.6	-59879.7	-205293.0	-884199.0	-2154.0
1283.64	944.1	-147.5	-56993.4	-205068.0	-959598.1	-2446.0
1283.65	1528.2	-137.7	-77886.7	-144210.0	-1389000.0	-2062.0
1283.66	1487.6	-126.8	-74911.9	-145652.0	-1464000.0	-2354.0
1283.67	1064.9	-142.6	-65130.4	-119951.0	-942122.0	1420.0
1283.68	1023.7	-132.4	-62127.8	-120894.0	-1017000.0	1133.0
1283.69	1046.2	-208.8	-48224.3	191122.0	-456771.0	981.0
1283.70	1003.2	-184.9	-45300.1	161556.0	-530446.0	592.0
1283.71	1106.5	-283.2	-55428.6	248097.0	-427848.0	236.0
1283.72	1069.1	-131.9	-52586.2	140704.0	-501412.0	-580.0
1283.73	1552.6	-212.8	-65981.4	183639.0	-997845.0	945.0
1283.74	1511.4	-193.8	-63104.1	156218.0	-1073000.0	565.0

1283.75	1089.3	-240.1	-52669.1	255274.0	-550582.0	4574.0
1283.76	1046.1	-213.4	-49489.8	224698.0	-624313.0	4181.0
1283.77	1280.6	-376.1	-78857.6	354935.0	-873538.0	-2991.0
1283.78	1233.3	-316.0	-75857.4	293615.0	-945605.0	-3527.0
1283.79	1220.6	-322.0	-71348.8	302828.0	-769847.0	-2065.0
1283.80	1176.2	-303.6	-68100.6	277019.0	-843458.0	-2435.0
1283.81	1278.6	-420.1	-77849.7	376166.0	-740387.0	-2729.0
1283.82	1234.4	-411.9	-74527.3	359477.0	-814292.0	-3058.0
1283.83	1725.2	-327.0	-88914.9	296871.0	-1310000.0	-2093.0
1283.84	1680.7	-308.5	-85663.6	270870.0	-1384000.0	-2465.0
1283.85	1268.5	-361.5	-75872.2	376647.0	-865276.9	1569.0
1283.86	1223.6	-341.7	-72622.0	349334.0	-938871.0	1193.0
1283.87	997.4	-58.1	-50492.0	-11468.0	-675717.0	-305.0
1283.88	956.0	-52.5	-47428.0	-18388.0	-750683.0	-599.0
1283.89	1014.2	-68.6	-54686.2	-21829.0	-735129.0	-972.0
1283.90	973.5	-63.5	-51661.2	-28736.0	-810677.0	-1265.0
1283.91	1502.1	-69.1	-68051.3	-23781.0	-1216000.0	-342.0
1283.92	1459.2	-69.9	-64895.4	-34340.0	-1291000.0	-633.0
1283.93	1038.2	-61.9	-55356.0	12259.0	-768125.0	3128.0
1283.94	996.5	-56.2	-52286.4	4398.0	-843251.9	2832.0
1283.95	1020.7	-70.1	-53691.8	-15722.0	-715322.0	-744.0
1283.96	973.5	-51.7	-47222.7	-10442.0	-635793.0	137.0
1283.97	978.1	-71.1	-50551.3	-28887.0	-790357.0	-1043.0
1283.98	931.6	-50.6	-44112.1	-20021.0	-710577.0	-156.0
1283.99	1036.5	-74.8	-55866.1	-16277.0	-741935.0	-1037.0
1283.100	957.6	-51.9	-45017.2	-13120.0	-609300.0	430.0
1283.101	994.3	-76.4	-52730.6	-30418.0	-816975.0	-1338.0
1283.102	916.1	-42.5	-41974.9	-16694.0	-684036.0	138.0
1283.103	1037.5	-81.1	-57886.6	-27916.0	-774896.0	-1415.0
1283.104	990.2	-62.3	-51409.9	-20503.0	-695039.0	-529.0
1283.105	997.0	-75.3	-54879.2	-33760.0	-850538.9	-1707.0
1283.106	949.0	-62.4	-48339.6	-30549.0	-770542.0	-821.0
1283.107	1524.7	-84.9	-71213.6	-29390.0	-1256000.0	-778.0
1283.108	1479.5	-52.7	-64900.3	-15671.0	-1176000.0	100.0
1283.109	1483.2	-77.3	-68153.9	-36794.0	-1331000.0	-1076.0
1283.110	1437.1	-47.4	-61792.4	-22955.0	-1251000.0	-194.0
1283.111	1062.4	-68.4	-58634.7	11755.0	-808154.0	2690.0
1283.112	1014.4	-55.5	-52091.5	12937.0	-728225.0	3569.0
1283.113	1020.9	-62.6	-55572.9	3110.0	-883508.0	2393.0
1283.114	972.4	-49.8	-49008.9	5883.0	-803231.0	3274.0
1283.115	931.4	-91.2	-49604.6	-127329.0	-728262.0	-554.0
1283.116	892.6	-78.1	-46716.8	-127530.0	-803633.0	-845.0
1283.117	897.1	-107.2	-49514.2	-184226.0	-763656.0	-682.0
1283.118	859.5	-115.0	-46625.8	-181577.0	-838769.1	-942.0
1283.119	946.8	-107.4	-53757.1	-138942.0	-788374.0	-1213.0
1283.120	907.5	-94.1	-50847.4	-139243.0	-863488.9	-1505.0
1283.121	1434.7	-95.0	-67142.7	-135731.0	-1268000.0	-598.0
1283.122	1395.9	-96.9	-64198.3	-138099.0	-1344000.0	-866.0
1283.123	969.8	-88.1	-54391.7	-108619.0	-821284.9	2861.0
1283.124	930.8	-95.6	-51409.9	-113835.0	-896925.0	2596.0
1283.125	1109.4	-249.7	-59580.6	202878.0	-644038.0	-935.0
1283.126	1065.1	-229.7	-56332.5	175995.0	-717471.0	-1309.0
1283.127	1167.7	-341.9	-66087.8	272847.0	-615238.0	-1604.0
1283.128	1124.2	-305.8	-63042.7	236447.0	-688166.0	-2040.0
1283.129	1130.6	-260.0	-63345.3	204218.0	-705567.0	-1577.0
1283.130	1086.5	-240.7	-60101.3	177950.0	-778732.0	-1950.0
1283.131	1614.3	-247.7	-77200.1	190484.0	-1185000.0	-992.0
1283.132	1570.2	-233.1	-73916.5	168339.0	-1258000.0	-1348.0
1283.133	1154.2	-269.7	-64183.7	259961.0	-738795.0	2620.0
1283.134	1109.9	-244.6	-60981.2	227488.0	-811945.0	2220.0
1283.135	1044.8	-119.0	-46369.5	162828.0	-567846.0	1879.0
1283.136	1000.2	-117.7	-42966.4	148244.0	-641891.0	1569.0

1283.137	1072.6	-134.9	-48932.8	188908.0	-590208.0	1844.0
1283.138	1028.1	-135.7	-45512.4	175998.0	-664426.0	1544.0
1283.139	1550.1	-145.2	-63820.2	168373.0	-1109000.0	1915.0
1283.140	1504.5	-126.2	-60505.2	142938.0	-1182000.0	1545.0
1283.141	1088.8	-114.1	-51179.5	198760.0	-661335.0	5329.0
1283.142	1043.5	-98.8	-47847.3	174609.0	-735003.0	4973.0
1283.143	1070.9	-130.5	-49607.7	172445.0	-608479.0	1475.0
1283.144	1019.6	-122.9	-43057.4	163083.0	-527910.0	2336.0
1283.145	1025.6	-113.6	-46287.2	148567.0	-681964.0	1114.0
1283.146	974.1	-103.8	-39748.4	137671.0	-601252.0	1966.0
1283.147	1088.3	-138.0	-51766.5	179093.0	-635606.0	1207.0
1283.148	1001.3	-99.1	-40993.7	146075.0	-500296.0	2548.0
1283.149	1043.2	-121.0	-48447.4	154739.0	-709166.0	847.0
1283.150	955.9	-82.4	-37670.1	121571.0	-573696.0	2184.0
1283.151	1098.9	-146.2	-52172.4	198555.0	-630956.0	1443.0
1283.152	1047.4	-141.5	-45599.7	190545.0	-550355.0	2310.0
1283.153	1053.9	-129.1	-48853.4	174383.0	-704601.0	1084.0
1283.154	1001.9	-122.6	-42291.0	165101.0	-623696.0	1939.0
1283.155	1575.4	-137.4	-67169.1	166888.0	-1149000.0	1447.0
1283.156	1524.0	-131.7	-60601.6	157654.0	-1068000.0	2312.0
1283.157	1530.7	-139.4	-63736.0	153900.0	-1223000.0	1148.0
1283.158	1477.9	-97.5	-57375.1	123079.0	-1141000.0	1890.0
1283.159	1115.0	-123.8	-54429.0	207285.0	-702088.0	4924.0
1283.160	1062.5	-104.2	-47930.1	189223.0	-620727.0	5734.0
1283.161	1070.3	-108.1	-51103.5	183064.0	-775909.0	4574.0
1283.162	1017.2	-89.1	-44598.6	166178.0	-694222.0	5378.0
1283.163	954.2	-85.0	-43348.4	-99754.0	-610192.0	1136.0
1283.164	914.6	-71.2	-40436.4	-99252.0	-685717.0	845.0
1283.165	917.6	-83.8	-43209.7	-156820.0	-645492.0	974.0
1283.166	878.1	-68.6	-40312.5	-155788.0	-720668.0	674.0
1283.167	977.1	-95.1	-45473.9	-101917.0	-631932.0	1029.0
1283.168	937.7	-81.4	-42565.7	-101395.0	-707041.0	733.0
1283.169	1457.8	-89.9	-60907.0	-108883.0	-1150000.0	1088.0
1283.170	1417.8	-74.4	-57973.6	-107716.0	-1226000.0	797.0
1283.171	995.0	-80.7	-48269.7	-76663.0	-704485.0	4567.0
1283.172	955.0	-70.6	-45312.1	-78225.0	-779461.0	4273.0
1283.173	1125.2	-284.2	-55584.2	290221.0	-524152.0	988.0
1283.174	1081.5	-261.9	-52385.9	261009.0	-597841.0	601.0
1283.175	1184.9	-366.8	-62231.0	351699.0	-495783.0	273.0
1283.176	1142.0	-338.9	-59212.8	320153.0	-569475.0	-132.0
1283.177	1152.1	-304.4	-58068.9	319760.0	-546479.0	976.0
1283.178	1107.7	-282.6	-54838.1	291328.0	-619931.0	591.0
1283.179	1630.2	-288.5	-73159.8	282664.0	-1065000.0	954.0
1283.180	1586.6	-256.5	-70027.5	246517.0	-1138000.0	532.0
1283.181	1170.5	-294.6	-60278.9	339150.0	-618578.0	4506.0
1283.182	1126.5	-287.5	-56949.0	322627.0	-692461.0	4179.0
1283.183	866.8	-38.9	-39000.7	57403.0	-605379.0	2013.0
1283.184	822.5	-26.1	-35674.2	37541.0	-679631.0	1678.0
1283.185	1370.5	-39.1	-56581.5	49114.0	-1145000.0	1956.0
1283.186	1326.3	-26.1	-53263.4	27841.0	-1220000.0	1617.0
1283.187	808.9	-35.9	-39282.3	51065.0	-678452.0	2116.0
1283.188	765.6	-23.2	-36034.0	28239.0	-752316.0	1758.0
1283.189	910.0	-40.4	-43784.3	99937.0	-699287.0	5515.0
1283.190	865.4	-28.8	-40540.4	72859.0	-773368.0	5162.0
1283.191	1063.1	-144.6	-70377.7	-5966.0	-1010000.0	-2581.0
1283.192	1020.1	-129.5	-67069.2	-20984.0	-1085000.0	-2918.0
1283.193	1012.6	-123.9	-62605.4	2931.0	-909079.0	-1451.0
1283.194	970.2	-109.4	-59296.0	-10862.0	-984300.0	-1784.0
1283.195	1514.5	-132.1	-80097.4	-6099.0	-1448000.0	-1496.0
1283.196	1474.1	-99.0	-76868.8	-13124.0	-1524000.0	-1846.0
1283.197	957.1	-79.4	-63032.4	12190.0	-982958.0	-1384.0
1283.198	914.2	-72.2	-59912.3	-1572.0	-1057000.0	-1707.0

1283.199	1056.8	-82.4	-67506.7	43099.0	-1003000.0	1958.0
1283.200	1013.8	-74.9	-64378.2	28442.0	-1077000.0	1634.0
1283.201	909.0	-56.2	-51120.9	-11761.0	-784127.0	-152.0
1283.202	868.3	-48.6	-48132.7	-17637.0	-858993.0	-460.0
1283.203	926.1	-63.7	-55385.0	-19692.0	-843751.9	-830.0
1283.204	886.0	-58.5	-52389.3	-27820.0	-918712.0	-1136.0
1283.205	1414.0	-52.5	-68802.9	-12023.0	-1324000.0	-195.0
1283.206	1372.3	-52.4	-65714.6	-25584.0	-1399000.0	-509.0
1283.207	852.7	-49.1	-51722.9	-4122.0	-857001.0	-39.0
1283.208	811.7	-43.1	-48689.3	-16090.0	-931665.1	-360.0
1283.209	949.8	-55.1	-56015.4	16590.0	-877445.0	3308.0
1283.210	908.0	-58.1	-52905.8	347.0	-952292.0	2992.0
1283.211	956.5	-100.3	-46788.0	150653.0	-676782.0	2009.0
1283.212	910.4	-59.2	-43641.6	107301.0	-749910.0	1563.0
1283.213	985.2	-113.9	-49374.6	175049.0	-699566.0	1977.0
1283.214	940.3	-98.2	-46059.8	152244.0	-773717.0	1629.0
1283.215	1459.6	-94.8	-64407.6	136872.0	-1216000.0	1926.0
1283.216	1413.3	-56.9	-61247.3	93426.0	-1289000.0	1486.0
1283.217	896.8	-64.6	-47284.3	118869.0	-749177.0	2006.0
1283.218	851.2	-50.4	-43946.6	93537.0	-823279.0	1652.0
1283.219	1001.6	-109.4	-51551.7	190375.0	-771572.0	5510.0
1283.220	956.3	-82.6	-48308.2	159860.0	-845322.0	5122.0
1283.221	1030.7	-54.4	-37794.3	72870.0	-408122.0	1865.0
1283.222	985.7	-40.4	-34462.1	50857.0	-481741.0	1512.0
1283.223	1536.0	-66.1	-55344.3	70244.0	-948988.9	1853.0
1283.224	1490.4	-36.7	-52102.0	38660.0	-1022000.0	1446.0
1283.225	1077.8	-53.2	-37220.7	71700.0	-347309.0	1815.0
1283.226	1032.8	-39.2	-33890.4	49799.0	-420952.0	1462.0
1283.227	1073.0	-57.3	-42504.8	117971.0	-501132.0	5354.0
1283.228	1027.3	-34.7	-39226.1	87426.0	-574162.0	4963.0
1283.229	1219.4	-126.3	-69051.2	17139.0	-805065.0	-2881.0
1283.230	1176.3	-113.0	-65737.3	3360.0	-880122.0	-3209.0
1283.231	1172.8	-95.1	-61393.1	26523.0	-706675.0	-1747.0
1283.232	1126.2	-112.5	-57971.9	1115.0	-780877.0	-2051.0
1283.233	1674.0	-135.2	-78906.9	2706.0	-1247000.0	-1764.0
1283.234	1634.1	-88.1	-75660.5	4917.0	-1322000.0	-2111.0
1283.235	1220.0	-93.9	-60830.1	26212.0	-646200.0	-1794.0
1283.236	1176.9	-81.9	-57498.3	13611.0	-721128.0	-2119.0
1283.237	1213.0	-98.1	-66169.5	52718.0	-799097.0	1692.0
1283.238	1169.6	-86.1	-62845.6	38397.0	-873859.0	1363.0
1283.239	1070.3	-56.7	-49713.4	-11324.0	-585341.0	-373.0
1283.240	1028.0	-51.0	-46614.7	-17965.0	-660204.0	-666.0
1283.241	1086.1	-67.0	-53863.9	-21342.0	-644534.0	-1039.0
1283.242	1043.8	-61.5	-50764.6	-27747.0	-719543.0	-1331.0
1283.243	1574.7	-67.5	-67267.4	-23570.0	-1126000.0	-410.0
1283.244	1533.7	-51.9	-64278.4	-23486.0	-1201000.0	-704.0
1283.245	1117.9	-55.7	-49160.2	-11184.0	-524919.0	-419.0
1283.246	1075.7	-50.0	-46061.9	-17752.0	-599825.0	-712.0
1283.247	1111.1	-60.5	-54578.9	12303.0	-677800.0	3061.0
1283.248	1068.4	-54.4	-51467.7	5094.0	-752839.0	2765.0
1283.249	1115.0	-116.5	-45499.6	161042.0	-476658.0	1803.0
1283.250	1070.1	-100.1	-42193.9	137005.0	-550009.0	1441.0
1283.251	1142.7	-132.3	-48063.5	187201.0	-498977.0	1768.0
1283.252	1097.9	-115.6	-44759.4	163208.0	-572394.0	1404.0
1283.253	1619.6	-123.9	-63054.1	155177.0	-1017000.0	1776.0
1283.254	1574.9	-123.7	-59637.8	140983.0	-1091000.0	1469.0
1283.255	1162.3	-114.8	-44937.6	159951.0	-415877.0	1752.0
1283.256	1116.8	-98.3	-41615.5	135846.0	-489361.0	1389.0
1283.257	1158.7	-112.2	-50302.7	196727.0	-569854.0	5253.0
1283.258	1113.2	-97.0	-46958.2	173460.0	-643264.0	4895.0
1283.401	-1136.8	-149.6	39661.1	300532.0	-56057.0	3860.0

1283.402	-1264.9	-81.9	32801.2	387631.0	56388.0	2503.0
1283.403	90.2	-318.5	-7595.9	83824.0	31604.0	2099.0
1283.404	-42.1	-249.8	-14371.9	171199.0	150440.0	605.0
1283.405	473.8	-81.1	-39292.6	-57280.0	333560.0	1150.0
1283.406	368.3	-53.0	-46527.7	74965.0	435734.0	-102.0
1283.407	1727.7	60.2	-84586.7	-366440.0	424273.0	-665.0
1283.408	1625.4	140.5	-92004.6	-265126.0	526881.0	-2163.0
1283.409	-1072.6	-152.5	36759.9	290339.0	-58955.0	3968.0
1283.410	-1199.4	-84.5	29881.3	377687.0	51336.0	2644.0
1283.411	28.3	-316.0	-4750.1	94235.0	35856.0	2028.0
1283.412	-104.5	-246.9	-11516.7	181726.0	155052.0	527.0
1283.413	543.7	115.3	-41032.5	-180482.0	331366.0	613.0
1283.414	439.8	185.7	-48401.3	-73052.0	433537.0	-790.0
1283.415	1663.0	-12.4	-82278.5	-318381.0	426867.0	-504.0
1283.416	1561.0	83.9	-89651.4	-226649.0	529793.0	-2052.0
1283.417	-1366.4	-324.6	49601.8	660199.0	345544.0	5022.0
1283.418	-1497.4	-270.1	42856.3	746534.0	460044.0	3634.0
1283.419	-136.6	-499.8	2301.5	444787.0	442642.0	3279.0
1283.420	-270.7	-442.1	-4394.3	531696.0	561586.0	1790.0
1283.421	773.9	-53.1	-61561.6	-295700.0	-137213.0	665.0
1283.422	666.4	-14.4	-68764.8	-168657.0	-33161.0	-609.0
1283.423	2010.5	278.0	-104700.0	-717228.0	-39276.0	-1670.0
1283.424	1904.4	334.4	-112100.0	-600544.0	65617.0	-3079.0
1283.425	-1303.1	-329.7	46782.9	652460.0	340743.0	5155.0
1283.426	-1434.2	-269.8	40017.5	739426.0	455180.0	3759.0
1283.427	-197.1	-492.3	5068.0	452228.0	447968.0	3191.0
1283.428	-331.3	-433.0	-1633.2	539318.0	566827.0	1699.0
1283.429	817.3	138.4	-61237.7	-413960.0	-128728.0	158.0
1283.430	708.5	157.9	-68573.0	-274675.0	-24050.0	-1036.0
1283.431	1951.4	-104.8	-103400.0	-489545.0	-46346.0	-552.0
1283.432	1845.2	-86.9	-110800.0	-350156.0	57985.0	-1831.0
1283.433	-1964.8	91.2	74137.8	405163.0	-91728.0	5606.0
1283.434	-2082.3	167.9	67522.2	526346.0	17175.0	4440.0
1283.435	1973.7	-317.0	-73846.9	-323112.0	309444.0	-637.0
1283.436	1855.0	-288.8	-81075.5	-239457.0	420987.0	-2099.0
1283.437	-1510.7	-71.2	43319.6	365567.0	35419.0	4510.0
1283.438	-1612.5	-23.6	36486.6	492493.0	137863.0	3501.0
1283.439	2525.0	-88.4	-97501.2	-432091.0	407359.0	-1413.0
1283.440	2420.8	-23.9	-105300.0	-329163.0	511624.0	-2898.0
1283.441	-2075.0	139.8	80113.9	474516.0	32222.0	6288.0
1283.442	-2197.6	234.1	73357.0	587270.0	140796.0	5016.0
1283.443	1928.3	-397.7	-71907.8	-221643.0	427069.0	-310.0
1283.444	1811.8	-373.9	-79243.6	-141972.0	541755.0	-1783.0
1283.445	-1413.1	-41.7	36403.8	283851.0	-81316.0	3625.0
1283.446	-1514.1	4.9	29458.6	411725.0	20799.0	2613.0
1283.447	2590.7	-24.5	-102600.0	-530910.0	274901.0	-1663.0
1283.448	2486.8	34.3	-110400.0	-425172.0	379157.0	-3131.0
1283.449	-1731.7	229.9	64976.9	330960.0	-115300.0	5927.0
1283.450	-1854.5	323.6	58276.5	420708.0	-3812.0	4648.0
1283.451	1821.1	-316.8	-66932.7	-292765.0	303979.0	-866.0
1283.452	1714.3	-265.2	-74898.4	-198324.0	410999.0	-2351.0
1283.453	-1289.7	224.7	44069.1	140879.0	11454.0	4116.0
1283.454	-1389.6	288.9	36984.0	256796.0	112588.0	3067.0
1283.455	2346.2	-314.8	-91742.9	-272697.0	403367.0	-916.0
1283.456	2245.2	-277.9	-99467.0	-153081.0	505775.0	-2314.0
1283.457	-1836.6	204.4	69320.0	445950.0	8195.0	6621.0
1283.458	-1959.2	297.8	62551.6	537796.0	117839.0	5240.0
1283.459	1750.3	-372.0	-63822.1	-197369.0	437045.0	-589.0
1283.460	1637.1	-322.8	-71443.3	-107843.0	549755.0	-2089.0
1283.461	-1201.4	253.9	38869.5	46296.0	-105412.0	3197.0
1283.462	-1298.4	312.7	31597.9	164653.0	-3403.0	2113.0
1283.463	2431.8	-303.0	-98195.8	-346232.0	261854.0	-1052.0

1283.464	2332.7	-263.8	-106000.0	-224427.0	363716.0	-2448.0
1283.529	-474.1	-87.2	33444.4	27445.0	-50639.0	4438.0
1283.530	-889.6	143.2	10029.1	331657.0	312843.0	83.0
1283.531	722.1	-235.1	-12354.3	-182628.0	46395.0	2830.0
1283.532	302.9	-90.7	-35661.0	95385.0	440125.0	-2142.0
1283.533	-24.8	-141.3	7106.4	-63231.0	82988.0	3160.0
1283.534	-364.8	0.1	-16126.5	353080.0	424694.0	-506.0
1283.535	1213.9	-88.8	-35226.4	-325465.0	174794.0	1965.0
1283.536	866.4	128.8	-60447.8	30025.0	517494.0	-2920.0
1283.537	-403.7	-87.8	30262.3	16880.0	-58454.0	4568.0
1283.538	-822.4	155.1	6977.6	308533.0	306262.0	153.0
1283.539	673.8	-231.7	-10134.2	-175708.0	47417.0	2748.0
1283.540	248.2	-56.2	-33273.8	121990.0	443269.0	-2222.0
1283.541	38.4	-35.1	7687.6	-140017.0	78810.0	2935.0
1283.542	-300.6	166.3	-16090.7	241977.0	418148.0	-838.0
1283.543	1148.4	-194.4	-33127.2	-257395.0	176833.0	2231.0
1283.544	808.6	-60.7	-58594.4	148255.0	516495.0	-2379.0
1283.545	-552.5	-128.0	36824.3	137667.0	70314.0	4783.0
1283.546	-972.9	100.7	13772.1	434254.0	432916.0	470.0
1283.547	668.8	-290.7	-10067.3	-76154.0	167145.0	3138.0
1283.548	237.1	-167.8	-32773.2	202684.0	561290.0	-1761.0
1283.549	75.4	-114.3	216.6	-148032.0	-54761.0	2784.0
1283.550	-293.4	4.0	-22801.0	285614.0	297007.0	-971.0
1283.551	1290.7	-35.6	-41030.8	-422862.0	38187.0	1724.0
1283.552	935.1	196.0	-65868.2	-71594.0	385654.0	-3181.0
1283.553	-487.8	-124.6	33878.2	130887.0	62798.0	4912.0
1283.554	-907.7	100.1	10870.4	421926.0	425546.0	600.0
1283.555	608.7	-287.3	-7288.7	-69276.0	172226.0	3070.0
1283.556	178.0	-148.2	-30114.6	215625.0	567192.0	-1862.0
1283.557	119.8	-14.5	1471.8	-218213.0	-50884.0	2599.0
1283.558	-246.2	146.6	-21878.8	188994.0	298465.0	-1327.0
1283.559	1239.6	-179.4	-39888.5	-333893.0	33631.0	2087.0
1283.560	886.3	-69.6	-64554.9	88738.0	378900.0	-2424.0
1284.1	-1107.4	51.9	-40179.1	50960.0	-477585.0	-840.0
1284.2	-827.0	32.1	-29288.0	32215.0	-511318.0	-877.0
1284.3	-1200.4	39.9	-42214.7	40851.0	-906618.0	-930.0
1284.4	-920.7	22.4	-31346.2	23884.0	-940993.0	-976.0
1284.5	-1476.4	30.9	-57048.0	51038.0	-609796.0	-3844.0
1284.6	-1195.7	24.5	-46131.6	40339.0	-643866.0	-3925.0
1284.7	-3009.1	82.6	-128700.0	128218.0	-1144000.0	8612.0
1284.8	-2727.8	85.8	-117800.0	121949.0	-1179000.0	8500.0
1284.9	-2540.3	71.8	-106900.0	107839.0	-980192.0	6291.0
1284.10	-2260.2	68.0	-95975.0	96615.0	-1014000.0	6206.0
1284.11	-2635.9	76.4	-108900.0	104807.0	-1411000.0	6153.0
1284.12	-2353.6	70.0	-97969.5	95116.0	-1445000.0	6061.0
1284.13	-2910.8	79.8	-123800.0	122853.0	-1114000.0	3205.0
1284.14	-2629.3	82.7	-112800.0	116533.0	-1149000.0	3093.0
1284.15	-1294.1	24.7	-48826.4	40982.0	-542988.0	159.0
1284.16	-923.4	30.8	-31631.3	31472.0	-412084.0	-1693.0
1284.17	-1013.2	18.5	-37912.0	30600.0	-576882.0	82.0
1284.18	-643.5	12.6	-20771.6	13738.0	-446173.0	-1733.0
1284.19	-1417.5	26.7	-54545.0	46471.0	-586791.0	764.0
1284.20	-800.9	17.7	-25953.8	18896.0	-368558.0	-2264.0
1284.21	-1136.6	23.5	-43615.5	37906.0	-620801.0	678.0
1284.22	-520.8	0.2	-15286.2	-988.0	-402334.0	-2298.0
1284.23	-1386.8	23.5	-50853.6	37684.0	-972180.0	36.0
1284.24	-1016.8	21.8	-33699.8	23431.0	-841576.0	-1789.0
1284.25	-1106.0	16.5	-39938.3	26357.0	-1006000.0	-43.0
1284.26	-736.4	3.0	-22884.3	4440.0	-875298.1	-1828.0
1284.27	-1661.5	41.6	-65590.3	64080.0	-675938.0	-2959.0
1284.28	-1291.3	23.6	-48484.7	40669.0	-543908.0	-4742.0
1284.29	-1387.7	36.8	-54838.7	50285.0	-714064.0	-3023.0

1284.30	-1010.3	21.5	-37538.8	32771.0	-578061.0	-4835.0
1284.31	-3195.0	88.6	-137300.0	137480.0	-1211000.0	9513.0
1284.32	-2823.9	85.8	-120100.0	122355.0	-1079000.0	7692.0
1284.33	-2913.0	82.7	-126400.0	127702.0	-1244000.0	9421.0
1284.34	-2541.6	80.2	-109200.0	113062.0	-1112000.0	7598.0
1284.35	-2852.5	93.8	-121200.0	126967.0	-1093000.0	7769.0
1284.36	-2230.6	60.9	-92582.9	91717.0	-869492.0	4792.0
1284.37	-2567.9	76.3	-110200.0	113926.0	-1124000.0	7700.0
1284.38	-1950.3	56.8	-81668.2	80646.0	-903700.0	4707.0
1284.39	-2726.2	78.2	-115500.0	117408.0	-1047000.0	7190.0
1284.40	-2354.5	65.3	-98303.3	98169.0	-913754.0	5392.0
1284.41	-2444.0	72.0	-104500.0	107479.0	-1080000.0	7100.0
1284.42	-2074.2	61.3	-87390.9	87045.0	-947969.1	5307.0
1284.43	-2822.5	77.9	-117600.0	111328.0	-1478000.0	7069.0
1284.44	-2448.6	68.7	-100300.0	96353.0	-1344000.0	5250.0
1284.45	-2540.4	70.7	-106600.0	101074.0	-1511000.0	6979.0
1284.46	-2166.4	61.7	-89361.8	86182.0	-1377000.0	5160.0
1284.47	-3096.7	87.0	-132400.0	132827.0	-1181000.0	4103.0
1284.48	-2725.8	82.5	-115200.0	116766.0	-1049000.0	2285.0
1284.49	-2814.6	78.9	-121400.0	121830.0	-1214000.0	4017.0
1284.50	-2442.7	83.2	-104100.0	111304.0	-1082000.0	2170.0
1284.51	-1101.4	-40.8	-39767.9	19100.0	-443255.0	-1142.0
1284.52	-816.9	-45.5	-28834.7	9837.0	-473732.0	-1227.0
1284.53	-1085.1	-74.9	-39365.9	13971.0	-411868.0	-1440.0
1284.54	-800.1	-77.4	-28474.7	5777.0	-442704.0	-1522.0
1284.55	-1195.5	-45.7	-41846.0	15133.0	-872480.9	-1243.0
1284.56	-911.2	-52.9	-30931.8	6018.0	-903012.0	-1322.0
1284.57	-1472.5	-29.1	-56554.0	34688.0	-578730.0	-4217.0
1284.58	-1189.2	-33.7	-45635.3	25324.0	-610094.0	-4295.0
1284.59	-3005.6	-12.6	-127800.0	86797.0	-1114000.0	8379.0
1284.60	-2720.8	-7.6	-116900.0	85802.0	-1145000.0	8266.0
1284.61	-2535.8	-15.7	-106100.0	72872.0	-949247.0	6015.0
1284.62	-2251.6	-17.7	-95150.8	66028.0	-980333.0	5926.0
1284.63	-2521.5	-43.9	-105700.0	70216.0	-919622.0	5727.0
1284.64	-2236.5	-38.8	-94851.7	68164.0	-950107.0	5616.0
1284.65	-2629.5	-17.4	-108100.0	69492.0	-1378000.0	5907.0
1284.66	-2345.6	-19.7	-97207.6	62731.0	-1410000.0	5818.0
1284.67	-2906.5	-6.2	-122900.0	88794.0	-1084000.0	2947.0
1284.68	-2623.4	-16.6	-111900.0	75557.0	-1116000.0	2887.0
1284.69	-1116.7	127.5	-43395.6	55541.0	-507687.0	1521.0
1284.70	-837.3	107.8	-32739.2	32452.0	-543161.0	1538.0
1284.71	-1127.0	171.4	-46129.2	46045.0	-532611.0	3265.0
1284.72	-845.2	140.0	-35870.7	15219.0	-566200.0	3314.0
1284.73	-1208.4	120.7	-45426.9	46561.0	-936703.0	1397.0
1284.74	-927.7	100.4	-34924.7	8967.0	-971212.0	1452.0
1284.75	-1480.3	167.4	-59724.0	102264.0	-639777.0	-1738.0
1284.76	-1201.0	150.2	-49029.4	84531.0	-675396.0	-1736.0
1284.77	-2975.8	347.6	-129600.0	271216.0	-1161000.0	10205.0
1284.78	-2699.3	329.2	-118900.0	255180.0	-1199000.0	10209.0
1284.79	-2519.3	290.1	-108400.0	219440.0	-1001000.0	8067.0
1284.80	-2240.6	271.5	-97644.2	201876.0	-1038000.0	8067.0
1284.81	-2531.3	332.5	-110900.0	226432.0	-1027000.0	9762.0
1284.82	-2252.6	310.7	-100300.0	204920.0	-1063000.0	9777.0
1284.83	-2612.6	278.5	-110400.0	209269.0	-1431000.0	7953.0
1284.84	-2333.9	260.4	-99711.1	191981.0	-1467000.0	7952.0
1284.85	-2879.2	338.1	-124600.0	261403.0	-1131000.0	4804.0
1284.86	-2600.7	320.1	-113900.0	244138.0	-1167000.0	4804.0
1284.87	-2029.8	49.9	-80792.9	43425.0	-793720.0	2542.0
1284.88	-1747.7	41.3	-69829.7	32077.0	-827055.0	2450.0
1284.89	-2329.5	57.1	-94006.7	46101.0	-896501.9	3608.0
1284.90	-2046.8	51.0	-83069.0	36408.0	-929357.0	3505.0
1284.91	-2123.6	49.7	-82803.2	40514.0	-1224000.0	2400.0

1284.92	-1842.1	44.0	-71890.5	30452.0	-1257000.0	2303.0
1284.93	-2398.8	64.9	-97588.8	63776.0	-927896.0	-576.0
1284.94	-2116.5	57.5	-86601.5	53079.0	-961065.1	-671.0
1284.95	-2216.9	54.1	-89412.0	50913.0	-860653.0	3451.0
1284.96	-1843.9	42.3	-72214.5	33136.0	-727053.0	1645.0
1284.97	-1934.8	50.6	-78409.4	42228.0	-894259.0	3346.0
1284.98	-1562.0	37.8	-61289.4	24181.0	-760667.0	1541.0
1284.99	-2340.9	58.2	-95140.0	57102.0	-905049.0	4053.0
1284.100	-1720.4	39.8	-66524.5	27612.0	-683055.0	1041.0
1284.101	-2058.9	56.2	-84122.7	49214.0	-938674.0	3942.0
1284.102	-1437.4	35.1	-55582.9	19155.0	-716025.0	934.0
1284.103	-2516.5	62.6	-102600.0	54264.0	-963479.0	4513.0
1284.104	-2143.5	50.9	-85452.9	36816.0	-829859.9	2706.0
1284.105	-2233.7	53.4	-91619.3	42812.0	-996268.0	4420.0
1284.106	-1861.1	48.5	-74527.4	29065.0	-862945.0	2593.0
1284.107	-2310.9	54.9	-91425.2	48163.0	-1291000.0	3309.0
1284.108	-1936.2	45.2	-74233.7	33094.0	-1156000.0	1489.0
1284.109	-2028.6	47.6	-80435.2	37760.0	-1324000.0	3213.0
1284.110	-1654.3	37.9	-63307.8	22643.0	-1190000.0	1395.0
1284.111	-2584.8	72.0	-106200.0	73659.0	-994399.0	323.0
1284.112	-2212.8	58.1	-89004.4	53978.0	-861396.0	-1475.0
1284.113	-2302.5	65.1	-95177.7	63248.0	-1028000.0	225.0
1284.114	-1930.7	48.8	-78045.6	42254.0	-894599.0	-1565.0
1284.115	-2015.6	-9.9	-80347.0	29721.0	-754033.0	2232.0
1284.116	-1731.1	-11.8	-69455.6	22619.0	-784805.0	2149.0
1284.117	-1999.7	-36.2	-80002.3	28905.0	-722944.0	1928.0
1284.118	-1714.8	-36.6	-69092.3	21504.0	-753307.0	1833.0
1284.119	-2314.6	0.4	-93655.3	34021.0	-855734.0	3337.0
1284.120	-2030.5	-4.8	-82756.5	24218.0	-886638.9	3270.0
1284.121	-2109.8	-12.7	-82409.8	26414.0	-1183000.0	2126.0
1284.122	-1825.7	-15.0	-71529.5	19022.0	-1214000.0	2047.0
1284.123	-2385.5	5.1	-97171.1	49561.0	-889018.0	-856.0
1284.124	-2102.1	2.1	-86284.1	41289.0	-920184.0	-936.0
1284.125	-2025.2	202.0	-83314.2	110597.0	-823701.9	4662.0
1284.126	-1746.3	184.6	-72595.6	93731.0	-859609.0	4656.0
1284.127	-2035.8	251.6	-85926.9	113884.0	-848832.0	6367.0
1284.128	-1756.7	232.9	-75193.7	97288.0	-884619.1	6355.0
1284.129	-2321.7	233.0	-96346.5	130795.0	-926993.0	5675.0
1284.130	-2043.1	213.8	-85626.8	112976.0	-962704.0	5669.0
1284.131	-2117.8	196.5	-85334.8	104886.0	-1254000.0	4529.0
1284.132	-1838.8	177.9	-74623.4	85939.0	-1289000.0	4528.0
1284.133	-2387.0	245.7	-99691.4	151146.0	-955269.1	1418.0
1284.134	-2108.1	231.4	-88942.7	137350.0	-991341.0	1399.0
1284.135	-1347.2	109.1	-53536.4	129552.0	-571817.0	832.0
1284.136	-1066.6	90.8	-42636.0	111496.0	-605536.0	790.0
1284.137	-1426.0	125.4	-57919.0	153804.0	-602945.0	1387.0
1284.138	-1145.5	101.8	-47015.3	132206.0	-636506.0	1363.0
1284.139	-1439.7	99.0	-55558.3	120225.0	-1001000.0	739.0
1284.140	-1159.7	81.5	-44671.2	103158.0	-1035000.0	693.0
1284.141	-1712.4	139.0	-70330.5	160612.0	-704007.0	-2320.0
1284.142	-1432.3	122.2	-59439.0	143844.0	-738311.0	-2368.0
1284.143	-1530.8	127.0	-62090.3	146573.0	-637010.0	1697.0
1284.144	-1163.4	82.6	-44967.8	106416.0	-506308.0	-6.4
1284.145	-1250.8	108.2	-51202.7	128652.0	-671095.0	1657.0
1284.146	-883.6	63.5	-34081.4	88305.0	-540474.0	-45.0
1284.147	-1653.2	137.9	-67790.6	157349.0	-680472.0	2277.0
1284.148	-1041.9	66.5	-39281.2	92782.0	-463495.0	-569.0
1284.149	-1373.2	119.4	-56901.8	139565.0	-714620.0	2236.0
1284.150	-761.8	50.8	-28398.9	76662.0	-497544.0	-618.0
1284.151	-1609.6	143.0	-66470.5	170675.0	-668147.0	2254.0
1284.152	-1241.9	102.3	-49352.1	132830.0	-537289.0	540.0
1284.153	-1329.6	124.2	-55582.1	152712.0	-702247.0	2215.0

1284.154	-962.0	84.8	-38467.5	115698.0	-571462.0	495.0
1284.155	-1624.2	115.5	-64124.3	136967.0	-1066000.0	1607.0
1284.156	-1256.3	77.9	-47009.7	100983.0	-935632.0	-116.0
1284.157	-1343.4	98.1	-53216.5	119425.0	-1100000.0	1561.0
1284.158	-977.1	58.3	-36137.5	82817.0	-970184.9	-153.0
1284.159	-1896.2	155.5	-78876.8	176875.0	-769427.0	-1452.0
1284.160	-1528.6	122.4	-61784.1	144314.0	-638691.0	-3187.0
1284.161	-1616.0	138.2	-67977.2	159755.0	-803770.0	-1501.0
1284.162	-1248.5	105.3	-50892.2	127341.0	-672881.0	-3235.0
1284.163	-1361.2	-51.7	-53186.6	46109.0	-549641.0	767.0
1284.164	-1076.6	-52.6	-42276.6	40456.0	-580670.0	666.0
1284.165	-1345.9	-77.2	-52823.2	48103.0	-519916.0	430.0
1284.166	-1061.0	-78.1	-41911.6	41403.0	-550513.0	332.0
1284.167	-1445.8	-54.5	-57624.1	56713.0	-584264.0	1396.0
1284.168	-1161.1	-55.9	-46706.0	50999.0	-614912.0	1291.0
1284.169	-1454.7	-49.9	-55279.5	46214.0	-979051.9	641.0
1284.170	-1170.7	-54.1	-44327.5	37279.0	-1010000.0	551.0
1284.171	-1730.5	-41.4	-70026.3	65311.0	-684704.0	-2306.0
1284.172	-1446.4	-43.1	-59115.0	58774.0	-715579.0	-2407.0
1284.173	-1357.4	171.9	-56396.5	134114.0	-599574.0	3126.0
1284.174	-1078.2	156.4	-45694.4	117805.0	-635270.0	3123.0
1284.175	-1367.3	226.4	-59011.5	141662.0	-624625.0	4823.0
1284.176	-1087.8	207.8	-48331.0	120451.0	-660064.0	4831.0
1284.177	-1436.1	189.8	-60684.4	161429.0	-630337.0	3667.0
1284.178	-1156.8	169.7	-49961.3	141643.0	-665269.0	3653.0
1284.179	-1449.7	169.5	-58384.4	131137.0	-1029000.0	2982.0
1284.180	-1170.7	152.6	-47692.2	115013.0	-1065000.0	2981.0
1284.181	-1719.4	219.7	-72729.8	180749.0	-731435.0	-139.0
1284.182	-1440.0	202.2	-62014.5	163360.0	-766753.0	-139.0
1284.183	-1418.0	47.3	-39221.2	50063.0	-664375.0	-793.0
1284.184	-1138.1	23.4	-28337.2	28864.0	-698003.0	-814.0
1284.185	-1511.2	40.6	-41273.9	43652.0	-1094000.0	-897.0
1284.186	-1230.9	25.0	-30395.6	27420.0	-1127000.0	-944.0
1284.187	-1624.4	50.1	-38638.5	52555.0	-788414.0	-741.0
1284.188	-1345.2	31.8	-27902.8	34556.0	-823121.0	-691.0
1284.189	-1786.2	38.7	-56053.1	57688.0	-796952.0	-3832.0
1284.190	-1505.5	37.3	-45117.8	49547.0	-831032.0	-3922.0
1284.191	-3320.6	90.7	-127800.0	131926.0	-1331000.0	8659.0
1284.192	-3038.5	84.5	-116900.0	122154.0	-1365000.0	8576.0
1284.193	-2853.0	73.3	-106000.0	106831.0	-1167000.0	6352.0
1284.194	-2570.1	73.3	-95035.7	100807.0	-1200000.0	6251.0
1284.195	-2945.7	77.2	-108000.0	106605.0	-1596000.0	6215.0
1284.196	-2662.5	68.9	-97059.5	97328.0	-1629000.0	6128.0
1284.197	-3055.4	77.1	-105300.0	113647.0	-1290000.0	6340.0
1284.198	-2773.7	72.1	-94402.9	104131.0	-1323000.0	6308.0
1284.199	-3218.6	83.9	-122800.0	128652.0	-1299000.0	3243.0
1284.200	-2936.7	77.8	-111800.0	118483.0	-1333000.0	3157.0
1284.201	-2338.9	56.5	-79902.3	48657.0	-979262.0	2637.0
1284.202	-2056.0	49.9	-69038.1	38736.0	-1013000.0	2592.0
1284.203	-2637.3	69.9	-93171.7	55395.0	-1082000.0	3711.0
1284.204	-2355.3	60.6	-82312.4	43605.0	-1117000.0	3664.0
1284.205	-2430.6	59.9	-81905.4	49322.0	-1408000.0	2481.0
1284.206	-2148.8	53.7	-71064.5	39018.0	-1443000.0	2433.0
1284.207	-2543.4	63.7	-79427.7	54572.0	-1104000.0	2764.0
1284.208	-2260.9	65.5	-68607.6	49381.0	-1139000.0	2694.0
1284.209	-2706.9	67.0	-96662.1	66874.0	-1112000.0	-494.0
1284.210	-2425.7	62.4	-85797.3	57043.0	-1147000.0	-536.0
1284.211	-1657.0	98.0	-52571.8	124685.0	-758935.0	898.0
1284.212	-1378.8	77.2	-41713.2	106092.0	-794006.0	866.0
1284.213	-1735.7	115.9	-56953.3	149967.0	-789965.0	1449.0
1284.214	-1456.0	93.3	-46062.3	129657.0	-823955.9	1422.0
1284.215	-1750.9	90.4	-54621.7	117827.0	-1189000.0	795.0

1284.216	-1472.6	70.9	-43764.4	99884.0	-1224000.0	760.0
1284.217	-1866.0	93.2	-51974.4	123541.0	-884630.9	941.0
1284.218	-1586.1	73.7	-41095.6	105011.0	-918546.0	905.0
1284.219	-2021.5	142.0	-69376.5	163949.0	-891108.0	-2293.0
1284.220	-1742.1	125.1	-58505.8	147375.0	-925459.0	-2336.0
1284.221	-796.3	48.7	-41092.6	48033.0	-315250.0	-863.0
1284.222	-516.1	28.2	-30204.3	28852.0	-349202.0	-903.0
1284.223	-889.2	36.8	-43132.0	37951.0	-744395.0	-960.0
1284.224	-609.5	17.8	-32264.5	19951.0	-778887.0	-1004.0
1284.225	-589.0	46.3	-41698.0	45960.0	-207345.0	-884.0
1284.226	-308.8	25.5	-30812.9	26544.0	-241358.0	-924.0
1284.227	-1164.9	30.9	-57940.0	50532.0	-447609.0	-3884.0
1284.228	-884.7	24.2	-47031.1	39869.0	-482075.0	-3967.0
1284.229	-2697.8	80.5	-129600.0	126174.0	-981543.0	8573.0
1284.230	-2415.9	73.6	-118700.0	115792.0	-1015000.0	8482.0
1284.231	-2228.9	69.5	-107800.0	105658.0	-817342.0	6256.0
1284.232	-1949.1	64.9	-96893.2	93969.0	-852104.0	6170.0
1284.233	-2324.6	73.9	-109800.0	102480.0	-1249000.0	6116.0
1284.234	-2040.2	59.1	-98873.3	90819.0	-1281000.0	6032.0
1284.235	-2021.5	67.2	-108400.0	103727.0	-709518.0	6232.0
1284.236	-1739.2	60.9	-97447.5	93816.0	-742879.0	6137.0
1284.237	-2598.1	76.6	-124700.0	121620.0	-951055.9	3163.0
1284.238	-2316.3	69.8	-113700.0	111185.0	-984632.0	3071.0
1284.239	-1718.1	46.7	-81693.1	40828.0	-631266.0	2496.0
1284.240	-1436.1	38.8	-70747.0	29998.0	-664570.0	2403.0
1284.241	-2018.0	54.4	-94923.8	43926.0	-733952.0	3562.0
1284.242	-1736.0	48.5	-83998.3	34266.0	-767293.0	3463.0
1284.243	-1812.0	45.1	-83721.1	37021.0	-1061000.0	2360.0
1284.244	-1528.6	42.6	-72780.6	30492.0	-1094000.0	2246.0
1284.245	-1510.3	44.8	-82294.5	39197.0	-523017.0	2465.0
1284.246	-1228.2	37.3	-71357.9	28629.0	-556206.0	2371.0
1284.247	-2087.1	62.7	-98483.6	61835.0	-765277.0	-625.0
1284.248	-1805.4	52.0	-87534.5	49182.0	-798871.0	-707.0
1284.249	-1036.5	100.3	-54462.4	122969.0	-409587.0	836.0
1284.250	-756.5	87.7	-43560.7	109015.0	-444118.0	771.0
1284.251	-1115.4	116.0	-58844.2	146831.0	-440753.0	1395.0
1284.252	-835.7	98.2	-47948.2	129421.0	-475212.0	1349.0
1284.253	-1129.6	95.7	-56482.5	117696.0	-839230.9	718.0
1284.254	-848.8	78.2	-45579.2	100153.0	-873017.0	670.0
1284.255	-829.6	93.7	-55063.3	118102.0	-302017.0	833.0
1284.256	-549.4	80.3	-44175.1	103610.0	-336400.0	771.0
1284.257	-1401.6	135.2	-71240.3	157311.0	-541874.0	-2342.0
1284.258	-1121.4	118.0	-60345.4	140294.0	-576128.0	-2391.0
1284.401	520.1	-663.1	2928.4	640455.0	628284.0	-4502.0
1284.402	185.8	-542.2	-10546.4	749059.0	543056.0	-3088.0
1284.403	183.8	-791.0	-3564.3	528507.0	778424.0	-7075.0
1284.404	-148.1	-667.1	-16994.6	639302.0	695002.0	-5712.0
1284.405	-1154.8	857.5	-56696.1	-687621.0	-396739.0	5306.0
1284.406	-1470.9	975.7	-69098.4	-600044.0	-463903.0	6811.0
1284.407	-1469.5	562.3	-70142.5	-827863.0	-140217.0	3572.0
1284.408	-1783.7	673.0	-82467.1	-736083.0	-206182.0	5047.0
1284.409	512.1	-610.1	2228.1	674004.0	616281.0	-4634.0
1284.410	176.1	-491.6	-11157.1	780703.0	530571.0	-3233.0
1284.411	192.8	-859.9	-3131.2	485976.0	791454.0	-6795.0
1284.412	-138.9	-737.9	-16563.2	595714.0	708100.0	-5427.0
1284.413	-1168.9	836.1	-57192.4	-677057.0	-410864.0	5446.0
1284.414	-1483.6	952.8	-69527.9	-586644.0	-478008.0	6940.0
1284.415	-1454.4	569.4	-69659.5	-831213.9	-123933.0	3467.0
1284.416	-1768.5	678.1	-81978.1	-739205.0	-189736.0	4941.0
1284.417	389.7	-1113.8	4728.7	894188.9	664005.0	-7870.0
1284.418	55.6	-1006.6	-8778.8	994297.0	577288.0	-6412.0
1284.419	57.1	-1316.8	-2421.5	738569.0	820418.0	-9960.0

1284.420	-275.6	-1210.1	-15871.6	838715.1	735467.0	-8534.0
1284.421	-1021.9	1361.1	-56065.7	-877926.9	-485679.0	7334.0
1284.422	-1338.3	1493.8	-68501.9	-768882.0	-553826.0	8721.0
1284.423	-1356.1	1124.1	-70901.9	-925470.0	-239652.0	5478.0
1284.424	-1670.9	1257.0	-83497.6	-807668.0	-306633.0	6791.0
1284.425	375.6	-1118.0	4461.1	891805.9	653452.0	-7918.0
1284.426	41.5	-1011.0	-9047.2	991991.0	566566.0	-6460.0
1284.427	72.1	-1312.6	-2151.2	741059.0	836258.0	-9888.0
1284.428	-260.5	-1205.9	-15602.0	841233.0	751166.0	-8463.0
1284.429	-1049.6	1413.6	-58922.4	-739462.0	-507524.0	6935.0
1284.430	-1366.3	1554.4	-71563.3	-623858.0	-575598.0	8291.0
1284.431	-1336.2	1111.9	-69729.1	-1057000.0	-218939.0	5774.0
1284.432	-1651.5	1240.4	-82090.5	-951795.0	-285724.0	7135.0
1284.433	330.7	48.4	-1485.9	394245.0	-5903.0	838.0
1284.434	5.1	154.5	-14881.5	496606.0	-78142.0	2445.0
1284.435	-813.7	-410.0	-38666.0	36923.0	631598.0	-6076.0
1284.436	-1147.3	-274.8	-51682.5	157453.0	547723.0	-4686.0
1284.437	-208.3	533.7	-8880.4	12245.0	-357632.0	3353.0
1284.438	-529.2	645.5	-21987.7	107844.0	-425145.0	4776.0
1284.439	-1276.6	-250.2	-54062.2	-440106.0	436279.0	-2533.0
1284.440	-1598.8	-105.4	-66746.4	-326165.0	353979.0	-1229.0
1284.441	249.1	-65.4	-494.7	471697.0	20103.0	570.0
1284.442	-86.5	42.0	-13894.4	572755.0	-59151.0	2228.0
1284.443	-840.7	-685.8	-33179.5	30549.0	644325.0	-6566.0
1284.444	-1169.0	-563.3	-46067.0	147234.0	561243.0	-5202.0
1284.445	-117.2	622.2	-9354.4	-53476.0	-366756.0	3290.0
1284.446	-444.1	736.7	-22686.3	43579.0	-439202.0	4956.0
1284.447	-1241.7	51.9	-58697.5	-407114.0	426406.0	-2336.0
1284.448	-1564.3	188.1	-71457.8	-292514.0	344635.0	-1004.0
1284.449	299.4	182.7	-3367.5	482295.0	-61672.0	218.0
1284.450	-29.8	307.6	-16816.5	594304.0	-136328.0	1759.0
1284.451	-752.3	-740.1	-29393.8	-134276.0	692461.0	-4776.0
1284.452	-1079.9	-669.2	-42017.5	-38618.0	611355.0	-3290.0
1284.453	-260.2	656.4	-15455.7	134045.0	-414476.0	3147.0
1284.454	-575.7	774.3	-27334.7	241289.0	-479464.0	4240.0
1284.455	-1220.4	-329.7	-52160.5	-518157.0	489668.0	-2001.0
1284.456	-1540.8	-210.4	-64477.4	-430519.0	409384.0	-584.0
1284.457	228.9	-25.7	-2665.9	506017.0	-27925.0	185.0
1284.458	-102.3	100.2	-16200.1	618547.0	-104685.0	1708.0
1284.459	-784.5	-895.9	-30067.8	-53894.0	707060.0	-5662.0
1284.460	-1112.3	-823.9	-42697.6	41645.0	624936.0	-4142.0
1284.461	-163.5	888.7	-19165.5	142379.0	-425962.0	2268.0
1284.462	-484.9	1022.4	-32002.9	257692.0	-496638.0	3844.0
1284.463	-1178.3	-150.6	-51506.4	-605984.0	477482.0	-1286.0
1284.464	-1497.7	-33.9	-64001.4	-519047.0	398068.0	135.0
1284.529	325.7	-308.7	6605.7	94054.0	348222.0	-2734.0
1284.530	-789.2	87.9	-38628.0	452143.0	68424.0	2309.0
1284.531	-21.7	-425.4	-3685.6	-4498.0	520185.0	-5017.0
1284.532	-1119.1	12.0	-46361.7	376490.0	242900.0	-531.0
1284.533	-199.8	167.7	-8808.9	-292054.0	3911.0	-49.0
1284.534	-1253.3	558.5	-50079.7	16141.0	-221691.0	4694.0
1284.535	-518.1	-114.8	-22394.2	-438880.0	255799.0	-1715.0
1284.536	-1576.4	312.2	-63958.0	-94615.0	16967.0	2903.0
1284.537	317.1	-264.2	6093.9	122338.0	332373.0	-2931.0
1284.538	-799.3	123.7	-39274.4	474912.0	52170.0	2170.0
1284.539	-3.4	-505.8	348.6	-61638.0	534721.0	-4652.0
1284.540	-1107.7	-116.1	-44604.4	298226.0	258078.0	-46.0
1284.541	-218.1	157.2	-9483.2	-287190.0	-11854.0	102.0
1284.542	-1271.5	581.3	-50703.9	61020.0	-241195.0	4521.0
1284.543	-502.4	-105.6	-21868.4	-443907.0	272397.0	-1805.0
1284.544	-1559.8	300.5	-63347.7	-143158.0	35680.0	3125.0
1284.545	278.9	-430.9	7461.7	175299.0	373973.0	-3637.0

1284.546	-840.7	-69.9	-37911.6	512220.0	77798.0	1409.0
1284.547	-53.1	-633.9	315.6	19951.0	532620.0	-5690.0
1284.548	-1159.6	-256.5	-44769.9	374388.0	252772.0	-1031.0
1284.549	-140.0	283.7	-7376.2	-364018.0	-16276.0	370.0
1284.550	-1208.5	722.8	-49750.9	-10558.0	-240432.0	5167.0
1284.551	-487.7	101.0	-24347.4	-439769.0	225769.0	-1253.0
1284.552	-1548.1	556.6	-66804.6	-45637.0	-3029.0	3305.0
1284.553	263.8	-434.9	7101.4	173205.0	359280.0	-3655.0
1284.554	-854.2	-42.3	-38275.0	529164.0	63613.0	1243.0
1284.555	-38.1	-629.5	576.3	22420.0	549170.0	-5609.0
1284.556	-1145.4	-297.0	-44505.8	354171.0	270969.0	-829.0
1284.557	-166.2	365.0	-12245.9	-266373.0	-34880.0	45.0
1284.558	-1228.7	822.0	-54407.5	113345.0	-261372.0	4612.0
1284.559	-465.7	46.1	-21808.5	-530400.0	245267.0	-990.0
1284.560	-1523.6	482.9	-63439.1	-186707.0	20187.0	3708.0

Calcolo resistenze

Bulloni Ala

Resistenza a taglio dei bulloni

$$F_{vb,Rd} = n_{sl} \cdot 0.6 \cdot f_{tb} \cdot A_{res} / \gamma_{M2} = 60222.1 \text{ N}$$

Bull.	$F_{bc,x,Rd} \text{ [N]}$	$F_{ba,x,Rd} \text{ [N]}$	$F_{v,x,Rd} \text{ [N]}$	$F_{bc,y,Rd} \text{ [N]}$	$F_{ba,y,Rd} \text{ [N]}$	$F_{v,y,Rd} \text{ [N]}$
1	78880.0	65280.0	60222.1	69578.5	83695.8	60222.1
2	78880.0	65280.0	60222.1	69578.5	83695.8	60222.1
3	65280.0	163200.0	60222.1	83695.9	126048.0	60222.1
4	65280.0	163200.0	60222.1	83695.9	126048.0	60222.1

Bulloni Anima

Resistenza a taglio dei bulloni

$$F_{vb,Rd} = n_{sn} \cdot 0.6 \cdot f_{tb} \cdot A_{res} / \gamma_{M2} = 120444.1 \text{ N}$$

Bull.	$F_{bc,x,Rd} \text{ [N]}$	$F_{ba,x,Rd} \text{ [N]}$	$F_{v,x,Rd} \text{ [N]}$	$F_{bc,y,Rd} \text{ [N]}$	$F_{ba,y,Rd} \text{ [N]}$	$F_{v,y,Rd} \text{ [N]}$
1	83802.1	42432.0	42432.0	57655.3	70437.1	57655.3
2	69666.8	23422.5	23422.5	69666.8	34044.6	34044.6
3	83802.1	42432.0	42432.0	57655.3	70437.1	57655.3
4	69353.5	106080.0	69353.5	69353.5	106080.0	69353.5
5	57655.3	58556.2	57655.3	83802.1	51272.0	51272.0
6	69353.5	106080.0	69353.5	69353.5	106080.0	69353.5

Legenda

$F_{bc,x,Rd} = k \cdot \alpha \cdot f_{tk} \cdot \varnothing \cdot t_c / \gamma_{M2}$ resistenza a rifollamento coprigiunto in direzione x

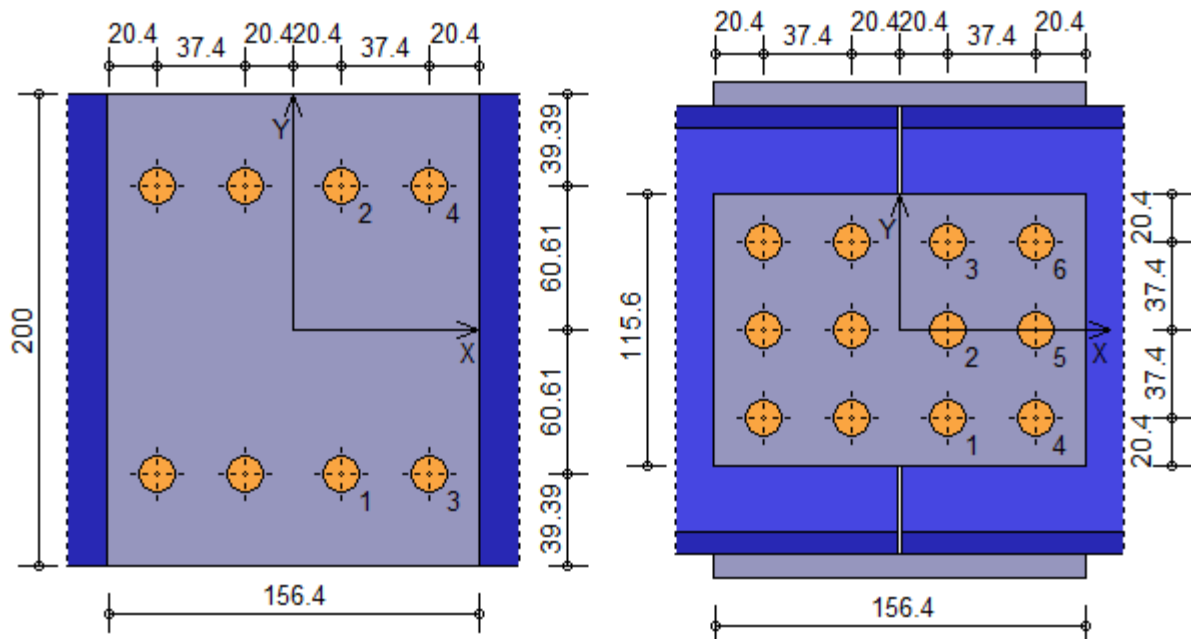
$F_{ba,x,Rd} = k \cdot \alpha \cdot f_{tk} \cdot \varnothing \cdot t_a / \gamma_{M2}$ resistenza a rifollamento ala/anima elemento in direzione x

$F_{v,x,Rd} = \min [F_{vb,Rd} , F_{bc,x,Rd} , F_{ba,x,Rd}]$ resistenza a taglio di progetto in direzione x

$F_{bc,y,Rd} = k \cdot \alpha \cdot f_{tk} \cdot \varnothing \cdot t_c / \gamma_{M2}$ resistenza a rifollamento coprigiunto in direzione y

$F_{ba,y,Rd} = k \cdot \alpha \cdot f_{tk} \cdot \varnothing \cdot t_a / \gamma_{M2}$ resistenza a rifollamento ala/anima elemento in direzione y

$F_{v,y,Rd} = \min [F_{vb,Rd} , F_{bc,y,Rd} , F_{ba,y,Rd}]$ resistenza a taglio di progetto in direzione y



Verifiche a taglio sui bulloni

Bulloni Ala (Nodo n. 1281, CMB n. 31)

Bull.	X [mm]	Y [mm]	$F_{v,Ed}$ [N]	$F_{v,Rd}$ [N]	FV	VER
1	20.40	-60.61	51943.2	60222.1	0.862528	Ok
2	20.40	60.61	51547.8	60222.1	0.855961	Ok
3	57.80	-60.61	51943.2	60222.1	0.862528	Ok
4	57.80	60.61	51547.7	60222.1	0.855961	Ok

Bulloni Anima (Nodo n. 1281, CMB n. 31)

Bull.	X [mm]	Y [mm]	$F_{v,Ed}$ [N]	$F_{v,Rd}$ [N]	FV	VER
1	20.40	-37.40	12216.5	42432.0	0.287908	Ok
2	20.40	0.00	12565.7	23422.5	0.536479	Ok
3	20.40	37.40	12915.1	42432.0	0.304372	Ok
4	57.80	-37.40	12163.3	69353.5	0.175381	Ok
5	57.80	0.00	12514.0	57655.3	0.217048	Ok
6	57.80	37.40	12864.8	69353.5	0.185496	Ok

Legenda

$F_{v,Ed}$ forza di taglio agente sul bullone

$F_{v,Rd}$ resistenza a taglio di progetto del bullone

$FV = F_{v,Ed} / F_{v,Rd}$

VER $\rightarrow FV \leq 1$

Verifica a trazione sezione forata (Nodo n. 1281, CMB n. 419)

Resistenza plastica della sezione lorda	$N_{pl,Rd} = A \cdot f_{yk} / \gamma_{M0} =$	1818953.0 N
Resistenza a rottura della sezione al netto dei fori	$N_{u,Rd} = 0,9 \cdot A_{net} \cdot f_{tk} / \gamma_{M2} =$	1604113.0 N
Resistenza di calcolo a trazione	$N_{t,Rd} = \min [N_{u,Rd} , N_{pl,Rd}] =$	1604113.0 N
Azione assiale di calcolo	$N_{Ed} =$	163800.0 N
$N_{Ed} / N_{t,Rd} = 0.102113$ Ok		

Controllo influenza fori sul momento resistente

Resistenza a rottura della piattabanda al netto dei fori	$N_{u,Rd} = 0.9 \cdot A_{f,net} \cdot f_{tk} / \gamma_{M2} =$	609552.0 N
Resistenza plastica della piattabanda lorda	$N_{pl,Rd} = A_f \cdot f_{yk} / \gamma_{M0} =$	676190.5 N
$N_{u,Rd} \geq N_{pl,Rd} \rightarrow 609552.0 < 676190.5$		

E' necessario considerare la presenza dei fori nel calcolo del momento resistente dell'elemento.

Per effettuare la verifica a flessione della sezione forata è necessario eseguire la seguente procedura: nel modello della struttura da cui è stato generato il nodo, selezionare *Dati struttura* \rightarrow *Sezioni*, individuare nell'archivio la sezione corrispondente al profilo utilizzato, selezionare la scheda *Progetto acciaio*, assegnare le proprietà di massa riportate di seguito e riprogettare la struttura.

• **Profilo HEA 200** **$A_{eff} = 43.69 \text{ cm}^2$** **$J_{r2-2} = 1084.44 \text{ cm}^4$** **$J_{r3-3} = 3108.92 \text{ cm}^4$**

Verifica dei coprigiunti d'ala

Resistenze

Resistenza plastica della sezione lorda	$N_{pl,Rd} = A \cdot f_{yk} / \gamma_{M0} =$	676190.5 N
Resistenza a rottura della sezione al netto dei fori	$N_{u,Rd} = 0.9 \cdot A_{net} \cdot f_{tk} / \gamma_{M2} =$	609552.0 N
Resistenza di calcolo a trazione	$N_{t,Rd} = \min [N_{u,Rd} , N_{pl,Rd}] =$	609552.0 N
Resistenza di calcolo a compressione	$N_{c,Rd} = N_{pl,Rd} =$	676190.5 N
Resistenza di calcolo a taglio	$V_{c,Rd} = A_v \cdot f_{yk} / (3^{1/2} \cdot \gamma_{M0}) =$	390398.8 N
Resistenza di calcolo a flessione retta	$M_{c,Rd} = W_{pl} \cdot f_{yk} / \gamma_{M0} =$	33809520.0 N mm

Verifica per sforzo normale (Nodo n. 1281, CMB n. 31)

Azione assiale di calcolo	$N_{Ed} =$	-206981.8 N
$N_{Ed} / N_{c,Rd} = 0.306100$		Ok

Verifica per taglio (Nodo n. 1272, CMB n. 429)

Azione tagliante di calcolo	$V_{Ed} =$	899.7 N
$V_{Ed} / V_{c,Rd} = 0.002305$		Ok

Verifica per momento (Nodo n. 351, CMB n. 412)

Riduzione per effetto dello sforzo normale:	$N_{Ed} = 35416.5 \text{ N}$	
$M_{N,Rd} = M_{c,Rd} \cdot \min [1 , (1 - N_{Ed} / N_{pl,Rd}) / 0.75] =$	33809520.0 N mm	
Riduzione per effetto del taglio:	$V_{Ed} = -196.8 \text{ N}$	
$V_{Ed} < 0.5 \cdot V_{c,Rd} \rightarrow \rho = 0$		
Momento flettente di calcolo	$M_{Ed} =$	750500.0 N mm
$M_{Ed} / [M_{N,Rd} \cdot (1-\rho)] = 0.022198$		Ok

Verifica dei coprigiunti d'anima

Resistenze

Resistenza plastica della sezione lorda	$N_{pl,Rd} = A \cdot f_{yk} / \gamma_{M0} =$	625341.0 N
Resistenza a rottura della sezione al netto dei fori	$N_{u,Rd} = 0.9 \cdot A_{net} \cdot f_{tk} / \gamma_{M2} =$	379538.0 N
Resistenza di calcolo a trazione	$N_{t,Rd} = \min [N_{u,Rd} , N_{pl,Rd}] =$	379538.0 N
Resistenza di calcolo a compressione	$N_{c,Rd} = N_{pl,Rd} =$	625341.0 N
Resistenza di calcolo a taglio	$V_{c,Rd} = A_v \cdot f_{yk} / (3^{1/2} \cdot \gamma_{M0}) =$	361040.8 N
Resistenza di calcolo a flessione retta	$M_{c,Rd} = W_{pl} \cdot f_{yk} / \gamma_{M0} =$	18072360.0 N mm

Verifica per sforzo normale (Nodo n. 1281, CMB n. 31)

Azione assiale di calcolo	$N_{Ed} =$	-74423.6 N
$N_{Ed} / N_{c,Rd} = 0.119013$		Ok

Verifica per taglio (Nodo n. 93, CMB n. 432)

Azione tagliante di calcolo	$V_{Ed} =$	-11938.4 N
$V_{Ed} / V_{c,Rd} = 0.033067$		Ok

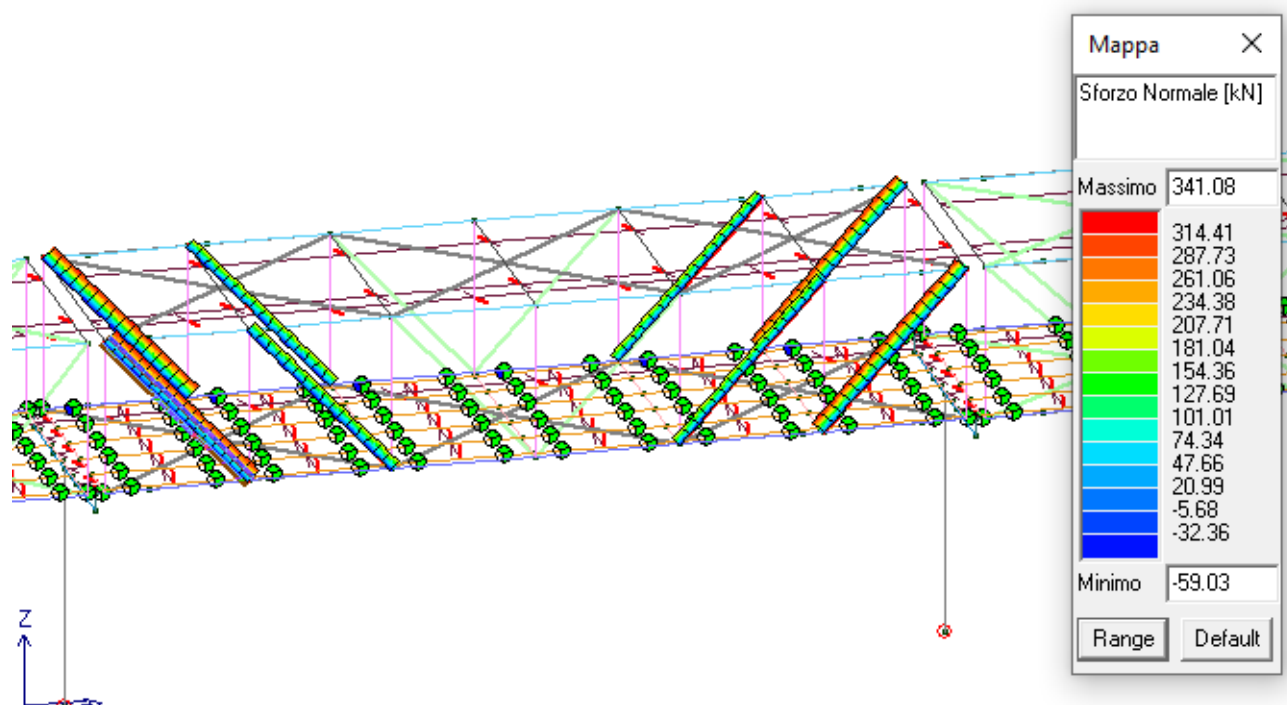
Verifica per momento (Nodo n. 94, CMB n. 28)



Riduzione per effetto dello sforzo normale:	$N_{Ed} = -1135.4 \text{ N}$	
$M_{N,Rd} = M_{c,Rd} \cdot \min [1 , (1 - N_{Ed} / N_{pl,Rd}) / 0.75] =$	18072360.0 N mm	
Riduzione per effetto del taglio:	$V_{Ed} = -665.2 \text{ N}$	
$V_{Ed} < 0.5 \cdot V_{c,Rd} \rightarrow \rho = 0$		
Momento flettente di calcolo	$M_{Ed} =$	2075630.0 N mm
$M_{Ed} / [M_{N,Rd} \cdot (1-\rho)] = 0.114851$		Ok

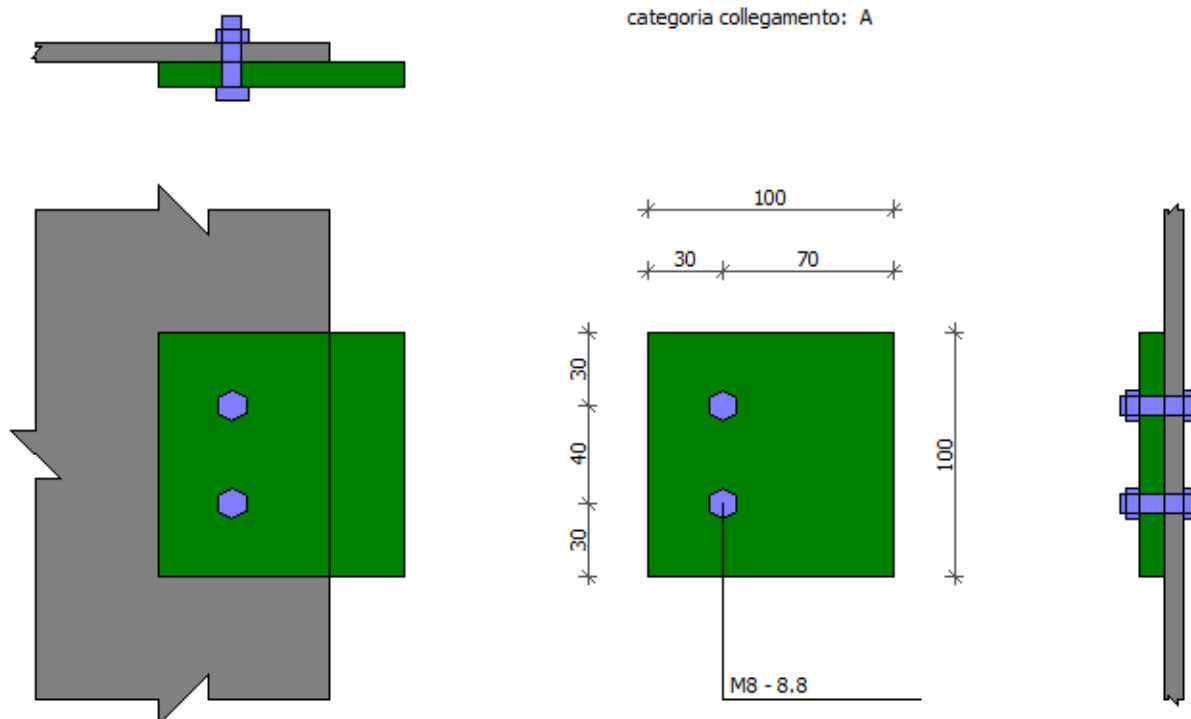
Verifica del momento di progetto del giunto (Nodo n. 94, CMB n. 28)

Momento resistente del giunto	$M_{j,Rd} =$	45768770.0 N mm
Momento di progetto	$M_{j,Ed} =$	17080000.0 N mm
$M_{j,Ed} / M_{j,Rd} = 0.373180$		Ok

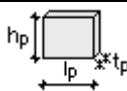
COLLEGAMENTO DIAGONALI CAMPATE LATERALI – VERIFICA BULLONI




	Piastra a piastra	Rapporto: 0.62	
PlateToPlate v. 1.0.0.10	EN 1993-1-8:2006		



Dati

Piastra			
	l_p	h_p	t_p
	150.00[mm]	250.00[mm]	12.00[mm]
Materiale	Grado	f_y	f_u
	S 275	275.00[MPa]	430.00[MPa]

Elemento			
	t_2		
	12.00[mm]		
Materiale	Grado	f_y	f_u
	S 275	275.00[MPa]	430.00[MPa]

Bulloni di collegamento piastra ed elementi

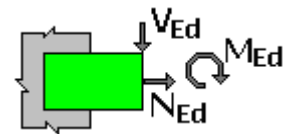
Grado bullone	Grado	8.8
Limite di snervamento	$f_{yb} =$	640.00 [MPa]
Resistenza a tensione	$f_{ub} =$	800.00 [MPa]
Diametro bullone	$d =$	20.00 [mm]
Diametro apertura bullone	$d_0 =$	22.00 [mm]
Area sezione bullone	$A =$	3.14 [cm ²]

Area effettiva sezione bullone	$A_s =$	2.45	[cm ²]
Numero righe	$w =$	3.00	
Numero colonne	$k =$	2.00	
Distanza dal bordo orizzontale	$e_1 =$	45.00	[mm]
Distanza dal bordo verticale	$e_2 =$	50.00	[mm]
Spaziatura verticale	$p_1 =$	80.00	[mm]
Spaziatura orizzontale	$p_2 =$	50.00	[mm]

Forze

Carichi di progetto

Forza assiale	$N_{Ed} =$	350.00	[kN]
Forza di taglio	$V_{Ed} =$	0.00	[kN]
Momento flettente	$M_{Ed} =$	0.00	[kNm]



Risultati

Bulloni di collegamento piastra ed elementi

Area della sezione di taglio del bullone

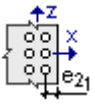
$$A = A_s = 2.45 [\text{cm}^2]$$

Resistenza al taglio del bullone in una superficie

$$F_{v,Rd} = (\alpha_v * m * f_{ub} * A) / \gamma_{M2} = (0.60 * 1 * 800.00 [\text{MPa}] * 2.45 [\text{cm}^2]) / 1.25 = 94.08 [\text{kN}]$$

Bullone di supporto

Bullone di supporto sull'elemento

	$e_{21} = 50.00 [\text{mm}]$
$e_{2min} = \min[e_{21}] = 50.00 [\text{mm}]$	

Direzione X

Coefficiente determinato dalla spaziatura bulloni

$$k_{1x} = \min[1.4 * (p_1/d_0) - 1.7; 2.5] = \min[1.4 * (80.00 [\text{mm}] / 22.00 [\text{mm}]) - 1.7; 2.5] = 2.50$$

$$k_{1x} > 0 \quad 2.50 > 0.00$$



Coefficiente determinato dalla spaziatura bulloni

$$\alpha_{bx} = \min[e_{2min}/(3*d_0); p_2/(3*d_0) - 0.25; f_{ub}/f_u; 1] = \min[50.00 [\text{mm}] / (3*22.00 [\text{mm}]); (50.00 [\text{mm}] / (3*22.00 [\text{mm}])) - 0.25; 800.00 [\text{MPa}] / 430.00 [\text{MPa}]; 1] = 0.51$$

$$\alpha_{bx} > 0 \quad 0.51 > 0.00$$



Resistenza del bullone di supporto

$$F_{b,Rd1x} = (k_{1x} * \alpha_{bx} * f_u * d * \Sigma t_i) / \gamma_{M2} = (2.50 * 0.51 * 430.00 [\text{MPa}] * 20.00 [\text{mm}] * 12.00 [\text{mm}]) / 1.25 = 104.76 [\text{kN}]$$

Direzione Z

Coefficiente determinato dalla spaziatura bulloni

$$k_{1z} = \min[2.8 \cdot (e_{2\min}/d_0) - 1.7; 1.4 \cdot (p_2/d_0) - 1.7; 2.5] = \min[2.8 \cdot (50.00[\text{mm}]/22.00[\text{mm}]) - 1.7; 1.4 \cdot (50.00[\text{mm}]/22.00[\text{mm}]) - 1.7; 2.5] = 1.48$$

$k_{1z} > 0$

$1.48 > 0.00$



Coefficiente determinato dalla spaziatura bulloni

$$\alpha_{bz} = \min[p_1/(3 \cdot d_0) - 0.25; f_{ub}/f_u; 1] = \min[(80.00[\text{mm}]/(3 \cdot 22.00[\text{mm}])) - 0.25; 800.00[\text{MPa}]/430.00[\text{MPa}]; 1] = 0.96$$

$\alpha_{bz} > 0$

$0.96 > 0.00$



Resistenza del bullone di supporto

$$F_{b,Rd1z} = (k_{1z} \cdot \alpha_{bz} \cdot f_u \cdot d \cdot \Sigma t_i) / \gamma_{M2} = (1.48 \cdot 0.96 \cdot 430.00[\text{MPa}] \cdot 20.00[\text{mm}] \cdot 12.00[\text{mm}]) / 1.25 = 117.70[\text{kN}]$$

Bullone di supporto

Bullone di supporto sulla piastra

	$e_{11} = 45.00[\text{mm}]$
	$e_{12} = 45.00[\text{mm}]$
	$e_{21} = 50.00[\text{mm}]$
	$e_{22} = 50.00[\text{mm}]$
$e_{1\min} = \min[e_{11}; e_{12}] = 45.00[\text{mm}]$	
$e_{2\min} = \min[e_{21}; e_{22}] = 50.00[\text{mm}]$	

Direzione X

Coefficiente determinato dalla spaziatura bulloni

$$k_{1x} = \min[2.8 \cdot (e_{1\min}/d_0) - 1.7; 1.4 \cdot (p_1/d_0) - 1.7; 2.5] = \min[2.8 \cdot (45.00[\text{mm}]/22.00[\text{mm}]) - 1.7; 1.4 \cdot (80.00[\text{mm}]/22.00[\text{mm}]) - 1.7; 2.5] = 2.50$$

$k_{1x} > 0$

$2.50 > 0.00$



Coefficiente determinato dalla spaziatura bulloni

$$\alpha_{bx} = \min[e_{2\min}/(3 \cdot d_0); p_2/(3 \cdot d_0) - 0.25; f_{ub}/f_u; 1] = \min[50.00[\text{mm}]/(3 \cdot 22.00[\text{mm}]); (50.00[\text{mm}]/(3 \cdot 22.00[\text{mm}])) - 0.25; 800.00[\text{MPa}]/430.00[\text{MPa}]; 1] = 0.51$$

$\alpha_{bx} > 0$

$0.51 > 0.00$



Resistenza del bullone di supporto

$$F_{b,Rd2x} = (k_{1x} \cdot \alpha_{bx} \cdot f_u \cdot d \cdot \Sigma t_i) / \gamma_{M2} = (2.50 \cdot 0.51 \cdot 430.00[\text{MPa}] \cdot 20.00[\text{mm}] \cdot 12.00[\text{mm}]) / 1.25 = 104.76[\text{kN}]$$

Direzione Z

Coefficiente determinato dalla spaziatura bulloni

$$\alpha_{bz} = \min[e_{1\min}/(3 \cdot d_0); p_1/(3 \cdot d_0) - 0.25; f_{ub}/f_u; 1] = \min[45.00[\text{mm}]/(3 \cdot 22.00[\text{mm}]); (80.00[\text{mm}]/(3 \cdot 22.00[\text{mm}])) - 0.25; 800.00[\text{MPa}]/430.00[\text{MPa}]; 1] = 0.68$$

$\alpha_{bz} > 0$

$0.68 > 0.00$



Resistenza del bullone di supporto

$$F_{b,Rd2z} = (k_{1z} \cdot \alpha_{bz} \cdot f_u \cdot d \cdot \Sigma t_i) / \gamma_{M2} = (1.48 \cdot 0.68 \cdot 430.00[\text{MPa}] \cdot 20.00[\text{mm}] \cdot 12.00[\text{mm}]) / 1.25 = 83.41[\text{kN}]$$

Stato limite ultimo

Forze nei bulloni

Forza assiale

$$N_0 = N_{Ed} = 350.00[kN]$$

Forza di taglio

$$V_0 = V_{Ed} = 0.00[kN]$$

Eccentricità della forza relativa al baricentro dei bulloni

$$e_0 = 75.00[mm]$$

Momento flettente reale

$$M_0 = M_{Ed} + V_0 \cdot e_0 = 0.00[kNm] + 0.00[kN] \cdot 75.00[mm] = 0.00[kNm]$$

Direzione X

Componente di forza nel bullone dovuta all'azione longitudinale

$$F_{N,Ed} = N_0/n_b = 350.00[kN]/6 = 58.33[kN]$$

Forza totale sul bullone nella direzione X

$$F_{x,Ed} = F_{N,Ed} = 58.33[kN]$$

Progetto effettivo di capacità del bullone

$$F_{x,Rd} = \min[F_{b,Rd1x}; F_{b,Rd2x}] = \min[104.76[kN]; 104.76[kN]] = 104.76[kN]$$

$$|F_{x,Ed}| \leq F_{x,Rd}$$

$$|58.33[kN]| < 104.76[kN]$$

0.56



Risultante forza di taglio nel bullone

$$F_{Ed} = F_{x,Ed} = 58.33[kN]$$



$$F_{Ed} \leq F_{v,Rd}$$

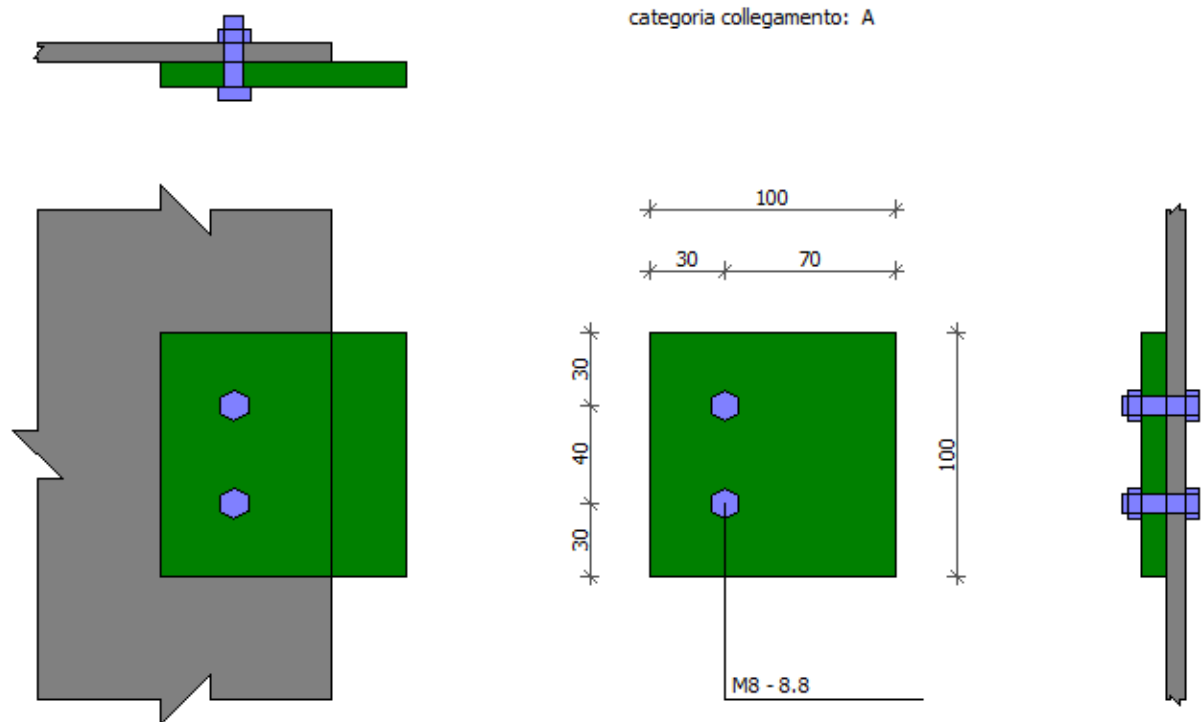
$$58.33[kN] < 94.08[kN]$$

0.62

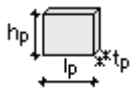



COLLEGAMENTO DIAGONALI FI 139.7 – VERIFICA SALDATURE

	Piastra a piastra	Rapporto: 0.82	
PlateToPlate v. 1.0.0.10	EN 1993-1-8:2006		



Dati

Piastra			
	l_p	h_p	t_p
	200.00[mm]	10.00[mm]	12.00[mm]
Materiale	Grado	f_y	f_u
	S 275	275.00[MPa]	430.00[MPa]

Elemento			
	t_2		
	5.90[mm]		
Materiale	Grado	f_y	f_u
	S 235	235.00[MPa]	360.00[MPa]

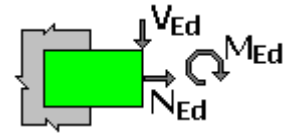
Saldature

Spessore saldatura dell'angolare piastra di collegamento ed elementi $a_w = 5.00 \text{ [mm]}$

Forze

Carichi di progetto

Forza assiale	$N_{Ed} =$	350.00	[kN]
Forza di taglio	$V_{Ed} =$	0.00	[kN]
Momento flettente	$M_{Ed} =$	0.00	[kNm]



Risultati

Saldature dell'angolare che collegano piastra e elemento

Forze nelle saldature

Forza assiale

$$N_0 = N_{Ed} = 350.00[kN]$$

Forza di taglio

$$V_0 = V_{Ed} = 0.00[kN]$$

Eccentricità della forza relativa al baricentro delle saldature

$$e_0 = 102.50[mm]$$

Momento flettente reale

$$M_0 = M_{Ed} + V_0 \cdot e_0 = 0.00[kNm] + 0.00[kN] \cdot 102.50[mm] = 0.00[kNm]$$

Area delle saldature

$$A_s = 20.50[cm^2]$$

Momento di inerzia delle saldature nella direzione x

$$I_{x0} = 11.71[cm^4]$$

Momento di inerzia delle saldature nella direzione z

$$I_{z0} = 717.93[cm^4]$$

Momento d'inerzia polare per le saldature

$$I_0 = I_{x0} + I_{z0} = 11.71[cm^4] + 717.93[cm^4] = 729.64[cm^4]$$

Componente sollecitazioni dovute all'azione longitudinale

$$\tau_N = N_0 / A_s = 350.00[kN] / 20.50[cm^2] = 170.73[MPa]$$

Sollecitazioni risultanti

$$\tau = \sqrt{\tau_N^2} = \sqrt{(170.73[MPa])^2} = 170.73[MPa]$$

Coefficiente di correlazione

$$\beta_w = 0.80$$

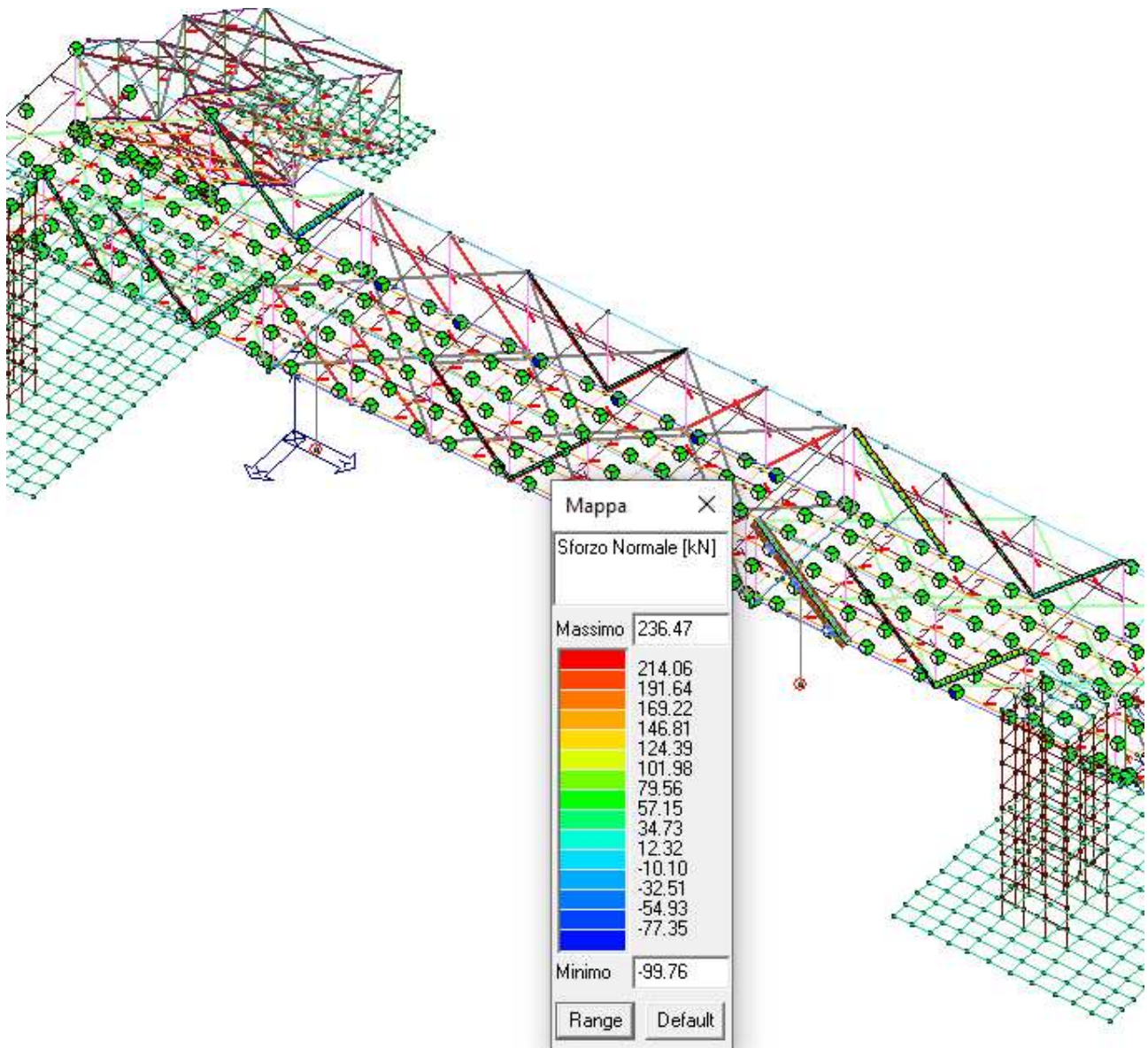
$$\tau \leq f_u / (\sqrt{3} \cdot \beta_w \cdot \gamma_{M2})$$



$$170.73[MPa] < 207.85[MPa]$$

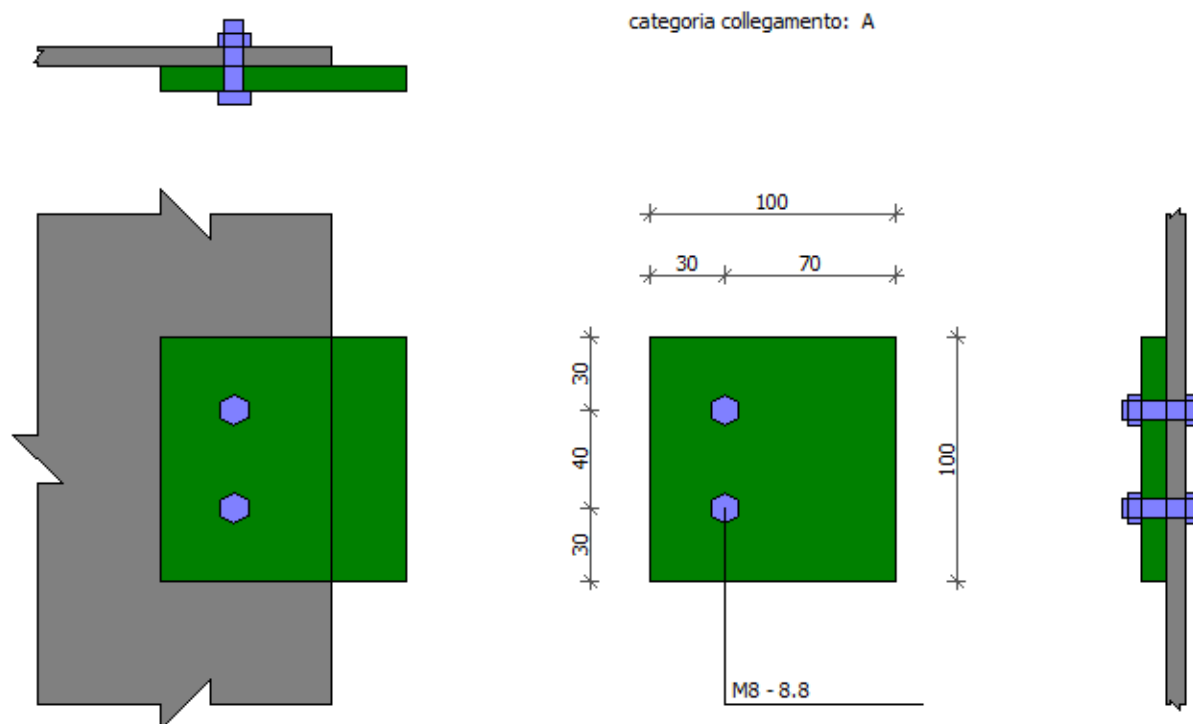
$$0.82$$



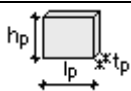
COLLEGAMENTO DIAGONALI FI 114 CAMPATE CENTRALI – VERIFICA BULLONI




	Piastra a piastra	Rapporto: 0.66	
PlateToPlate v. 1.0.0.10	EN 1993-1-8:2006		



Dati

Piastra			
	l_p	h_p	t_p
	150.00[mm]	200.00[mm]	12.00[mm]
Materiale	Grado	f_y	f_u
	S 275	275.00[MPa]	430.00[MPa]

Elemento			
	t_2		
	12.00[mm]		
Materiale	Grado	f_y	f_u
	S 275	275.00[MPa]	430.00[MPa]

Bulloni di collegamento piastra ed elementi

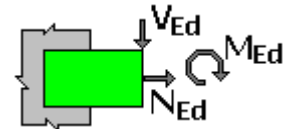
Grado bullone	Grado	8.8
Limite di snervamento	$f_{yb} =$	640.00 [MPa]
Resistenza a tensione	$f_{ub} =$	800.00 [MPa]
Diametro bullone	$d =$	20.00 [mm]
Diametro apertura bullone	$d_0 =$	22.00 [mm]
Area sezione bullone	$A =$	3.14 [cm ²]
Area effettiva sezione bullone	$A_s =$	2.45 [cm ²]

Numero righe	w =	2.00
Numero colonne	k =	2.00
Distanza dal bordo orizzontale	e ₁ =	45.00 [mm]
Distanza dal bordo verticale	e ₂ =	50.00 [mm]
Spaziatura verticale	p ₁ =	110.00 [mm]
Spaziatura orizzontale	p ₂ =	50.00 [mm]

Forze

Carichi di progetto

Forza assiale	N _{Ed} =	250.00	[kN]
Forza di taglio	V _{Ed} =	0.00	[kN]
Momento flettente	M _{Ed} =	0.00	[kNm]



Risultati

Bulloni di collegamento piastra ed elementi

Area della sezione di taglio del bullone

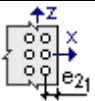
$$A = A_s = 2.45 [cm^2]$$

Resistenza al taglio del bullone in una superficie

$$F_{v,Rd} = (\alpha_v * m * f_{ub} * A) / \gamma_{M2} = (0.60 * 1 * 800.00 [MPa] * 2.45 [cm^2]) / 1.25 = 94.08 [kN]$$

Bullone di supporto

Bullone di supporto sull'elemento

	e ₂₁ = 50.00 [mm]
e _{2min} = min[e ₂₁] = 50.00 [mm]	

Direzione X

Coefficiente determinato dalla spaziatura bulloni

$$k_{1x} = \min[1.4 * (p_1/d_0) - 1.7; 2.5] = \min[1.4 * (110.00 [mm] / 22.00 [mm]) - 1.7; 2.5] = 2.50$$

k _{1x} > 0	2.50 > 0.00	✓
---------------------	-------------	---

Coefficiente determinato dalla spaziatura bulloni

$$\alpha_{bx} = \min[e_{2min}/(3 * d_0); p_2/(3 * d_0) - 0.25; f_{ub}/f_u; 1] = \min[50.00 [mm] / (3 * 22.00 [mm]); (50.00 [mm] / (3 * 22.00 [mm])) - 0.25; 800.00 [MPa] / 430.00 [MPa]; 1] = 0.51$$

α _{bx} > 0	0.51 > 0.00	✓
---------------------	-------------	---

Resistenza del bullone di supporto

$$F_{b,Rd1x} = (k_{1x} * \alpha_{bx} * f_u * d * \Sigma t_i) / \gamma_{M2} = (2.50 * 0.51 * 430.00 [MPa] * 20.00 [mm] * 12.00 [mm]) / 1.25 = 104.76 [kN]$$

Direzione Z

Coefficiente determinato dalla spaziatura bulloni

$$k_{1z} = \min[2.8 \cdot (e_{2\min}/d_0) - 1.7; 1.4 \cdot (p_2/d_0) - 1.7; 2.5] = \min[2.8 \cdot (50.00[mm]/22.00[mm]) - 1.7; 1.4 \cdot (50.00[mm]/22.00[mm]) - 1.7; 2.5] = 1.48$$

$k_{1z} > 0$

$$1.48 > 0.00$$



Coefficiente determinato dalla spaziatura bulloni

$$\alpha_{bz} = \min[p_1/(3 \cdot d_0) - 0.25; f_{ub}/f_u; 1] = \min[(110.00[mm]/(3 \cdot 22.00[mm])) - 0.25; 800.00[MPa]/430.00[MPa]; 1] = 1.00$$

$\alpha_{bz} > 0$

$$1.00 > 0.00$$



Resistenza del bullone di supporto

$$F_{b,Rd1z} = (k_{1z} \cdot \alpha_{bz} \cdot f_u \cdot d \cdot \Sigma t_i) / \gamma_{M2} = (1.48 \cdot 1.00 \cdot 430.00[MPa] \cdot 20.00[mm] \cdot 12.00[mm]) / 1.25 = 122.34[kN]$$

Bullone di supporto

Bullone di supporto sulla piastra

	$e_{11} = 45.00[mm]$
	$e_{12} = 45.00[mm]$
	$e_{21} = 50.00[mm]$
	$e_{22} = 50.00[mm]$
$e_{1\min} = \min[e_{11}; e_{12}] = 45.00[mm]$	
$e_{2\min} = \min[e_{21}; e_{22}] = 50.00[mm]$	

Direzione X

Coefficiente determinato dalla spaziatura bulloni

$$k_{1x} = \min[2.8 \cdot (e_{1\min}/d_0) - 1.7; 1.4 \cdot (p_1/d_0) - 1.7; 2.5] = \min[2.8 \cdot (45.00[mm]/22.00[mm]) - 1.7; 1.4 \cdot (110.00[mm]/22.00[mm]) - 1.7; 2.5] = 2.50$$

$k_{1x} > 0$

$$2.50 > 0.00$$



Coefficiente determinato dalla spaziatura bulloni

$$\alpha_{bx} = \min[e_{2\min}/(3 \cdot d_0); p_2/(3 \cdot d_0) - 0.25; f_{ub}/f_u; 1] = \min[50.00[mm]/(3 \cdot 22.00[mm]); (50.00[mm]/(3 \cdot 22.00[mm])) - 0.25; 800.00[MPa]/430.00[MPa]; 1] = 0.51$$

$\alpha_{bx} > 0$

$$0.51 > 0.00$$



Resistenza del bullone di supporto

$$F_{b,Rd2x} = (k_{1x} \cdot \alpha_{bx} \cdot f_u \cdot d \cdot \Sigma t_i) / \gamma_{M2} = (2.50 \cdot 0.51 \cdot 430.00[MPa] \cdot 20.00[mm] \cdot 12.00[mm]) / 1.25 = 104.76[kN]$$

Direzione Z

Coefficiente determinato dalla spaziatura bulloni

$$k_{1z} = \min[2.8 \cdot (e_{2\min}/d_0) - 1.7; 1.4 \cdot (p_2/d_0) - 1.7; 2.5] = \min[2.8 \cdot (50.00[mm]/22.00[mm]) - 1.7; 1.4 \cdot (50.00[mm]/22.00[mm]) - 1.7; 2.5] = 1.48$$

$k_{1z} > 0$

$$1.48 > 0.00$$



Coefficiente determinato dalla spaziatura bulloni

$$\alpha_{bz} = \min[e_{1\min}/(3 \cdot d_0); p_1/(3 \cdot d_0) - 0.25; f_{ub}/f_u; 1] = \min[45.00[mm]/(3 \cdot 22.00[mm]); (110.00[mm]/(3 \cdot 22.00[mm])) - 0.25; 800.00[MPa]/430.00[MPa]; 1] = 0.68$$

$$\alpha_{bz} > 0$$

$$0.68 > 0.00$$



Resistenza del bullone di supporto

$$F_{b,Rd2z} = (k_{1z} \cdot \alpha_{bz} \cdot f_u \cdot d \cdot \Sigma t_i) / \gamma_{M2} = (1.48 \cdot 0.68 \cdot 430.00 [MPa] \cdot 20.00 [mm] \cdot 12.00 [mm]) / 1.25 = 83.41 [kN]$$

Stato limite ultimo

Forze nei bulloni

Forza assiale

$$N_0 = N_{Ed} = 250.00 [kN]$$

Forza di taglio

$$V_0 = V_{Ed} = 0.00 [kN]$$

Eccentricità della forza relativa al baricentro dei bulloni

$$e_0 = 75.00 [mm]$$

Momento flettente reale

$$M_0 = M_{Ed} + V_0 \cdot e_0 = 0.00 [kNm] + 0.00 [kN] \cdot 75.00 [mm] = 0.00 [kNm]$$

Direzione X

Componente di forza nel bullone dovuta all'azione longitudinale

$$F_{N,Ed} = N_0 / n_b = 250.00 [kN] / 4 = 62.50 [kN]$$

Forza totale sul bullone nella direzione X

$$F_{x,Ed} = F_{N,Ed} = 62.50 [kN]$$

Progetto effettivo di capacità del bullone

$$F_{x,Rd} = \min[F_{b,Rd1x}; F_{b,Rd2x}] = \min[104.76 [kN]; 104.76 [kN]] = 104.76 [kN]$$

$$|F_{x,Ed}| \leq F_{x,Rd}$$

$$|62.50 [kN]| < 104.76 [kN]$$

$$0.60$$



Risultante forza di taglio nel bullone

$$F_{Ed} = F_{x,Ed} = 62.50 [kN]$$

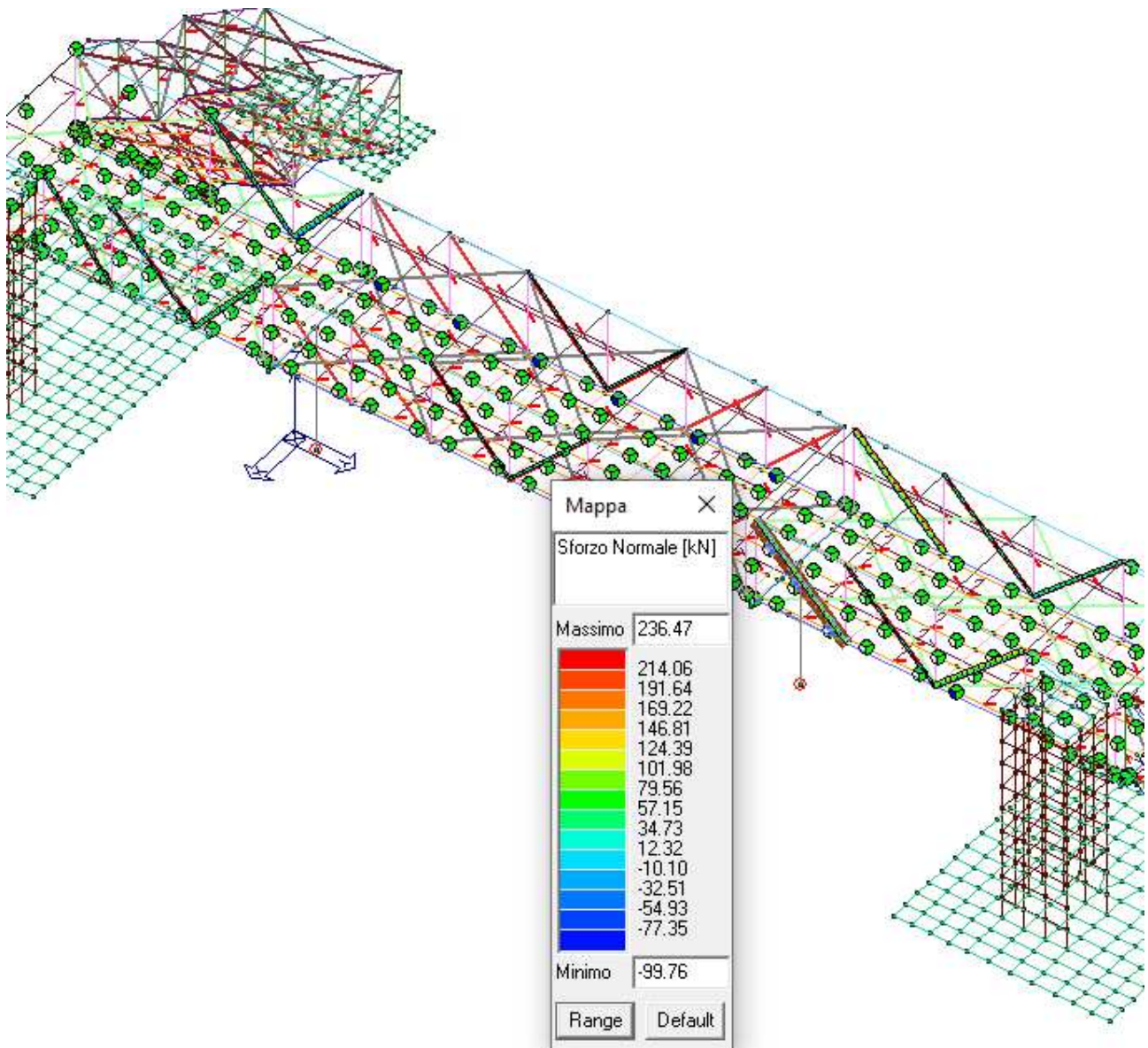
$$F_{Ed} \leq F_{v,Rd}$$



$$62.50 [kN] < 94.08 [kN]$$

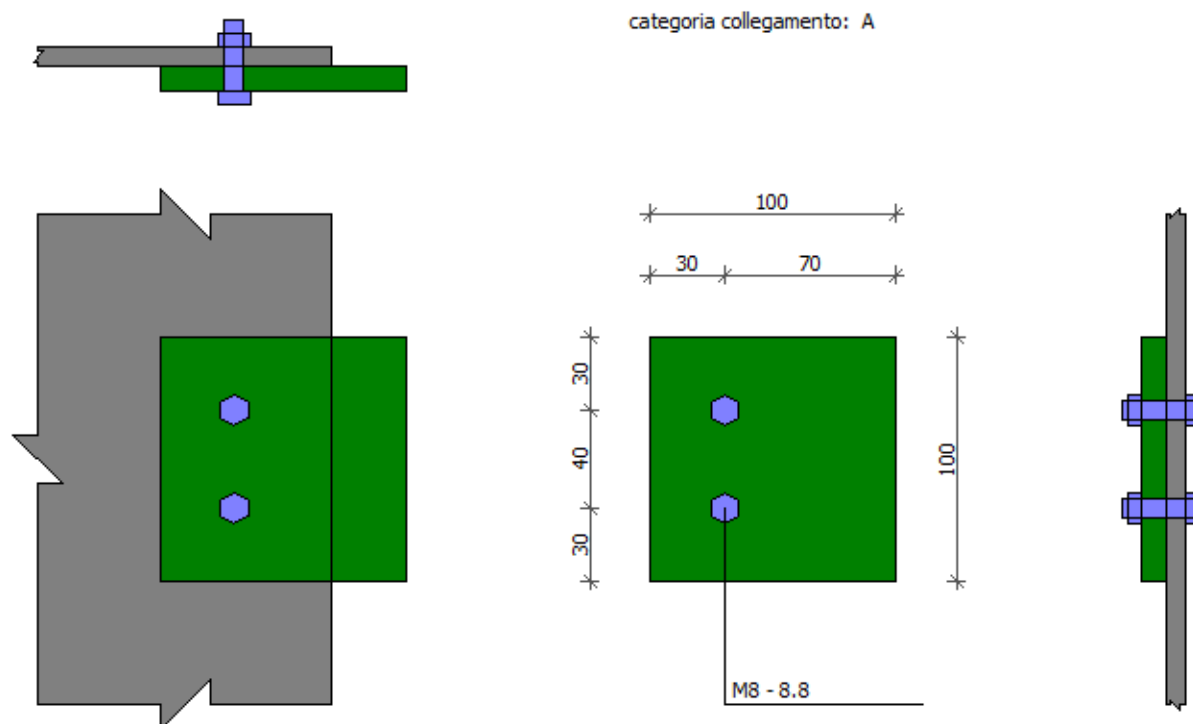
$$0.66$$



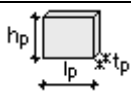
COLLEGAMENTO DIAGONALI FI 114 CAMPATE CENTRALI – VERIFICA SALDATURE




	Piastra a piastra	Rapporto: 0.69	
PlateToPlate v. 1.0.0.10	EN 1993-1-8:2006		



Dati

Piastra			
	l_p	h_p	t_p
	150.00[mm]	10.00[mm]	12.00[mm]
Materiale	Grado	f_y	f_u
	S 275	275.00[MPa]	430.00[MPa]

Elemento			
	t_2		
	12.00[mm]		
Materiale	Grado	f_y	f_u
	S 275	275.00[MPa]	430.00[MPa]

Saldature

Spessore saldatura dell'angolare piastra di collegamento ed elementi $a_w = 5.00$ [mm]

Forze

Carichi di progetto

Forza assiale $N_{Ed} = 250.00$ [kN]  V_{Ed}

Forza di taglio	$V_{Ed} =$	0.00	[kN]
Momento flettente	$M_{Ed} =$	0.00	[kNm]

Risultati

Saldature dell'angolare che collegano piastra e elemento

Forze nelle saldature

Forza assiale

$$N_0 = N_{Ed} = 250.00[kN]$$

Forza di taglio

$$V_0 = V_{Ed} = 0.00[kN]$$

Eccentricità della forza relativa al baricentro delle saldature

$$e_0 = 77.50[mm]$$

Momento flettente reale

$$M_0 = M_{Ed} + V_0 \cdot e_0 = 0.00[kNm] + 0.00[kN] \cdot 77.50[mm] = 0.00[kNm]$$

Area delle saldature

$$A_s = 15.50[cm^2]$$

Momento di inerzia delle saldature nella direzione x

$$I_{x0} = 8.79[cm^4]$$

Momento di inerzia delle saldature nella direzione z

$$I_{z0} = 310.32[cm^4]$$

Momento d'inerzia polare per le saldature

$$I_0 = I_{x0} + I_{z0} = 8.79[cm^4] + 310.32[cm^4] = 319.11[cm^4]$$

Componente sollecitazioni dovute all'azione longitudinale

$$\tau_N = N_0 / A_s = 250.00[kN] / 15.50[cm^2] = 161.29[MPa]$$

Sollecitazioni risultanti

$$\tau = \sqrt{[\tau_N]^2} = \sqrt{[161.29[MPa]]^2} = 161.29[MPa]$$

Coefficiente di correlazione

$$\beta_w = 0.85$$

$$\tau \leq f_u / (\sqrt{3} \cdot \beta_w \cdot \gamma_{M2})$$

$$161.29[MPa] < 233.66[MPa]$$

0.69

