

Dispersion Report

Workspace: 72341-3InvioGN

Study: Invio GN a metanodotto

Equipment Item: 10R Bracci scarico GN

72341-3InvioGN\Invio GN a metanodotto\10R Bracci scarico GN

Material	GAS NATURALE	
East	0	m
North	0	m

Scenario (User defined source) : 300mm-Q99,2

72341-3InvioGN\Invio GN a metanodotto\10R Bracci scarico GN\300mm-Q99,2

Material to track	GAS NATURALE
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Weather: Category 2/F

Wind speed [m/s]	2
Pasquill stability	F stable - night with moderate clouds and light/moderate wind
Atmospheric temperature [degC]	25
Relative humidity [fraction]	0,75
Solar radiation flux [kW/m2]	0,5
Mixing layer height [m]	100

Observer Release Data and Observer Mass Data

Observer number	Release type	Start time [s]	Start downwind distance [m]	Unit	Masses or mass rates		
					Release	Rainout	Final
1	Continuous	0	0	kg/s	99,2	0	99,2
2	Continuous	3600	0	kg/s	99,2	0	99,2

Time-varying Observer Dispersion Data (before along-wind-diffusion effects)

Dispersion data correspond to an averaging time of: 18,75 s

Observer number	Time [s]	Down wind distance [m]	C/Li ne heig ht [m]	C/Lin e conc [ppm]	Effect ive width [m]	Effect ive depth [m]	C/Line vapour tempera ture [degC]	C/Li ne liqui d fracti on	Centr oid veloci ty [m/s]	C/Lin e cloud densi ty [kg/m3]
1	0	0	10	999.99 9,41	0,6536 64	0,3270 17	-5,13686	0	300	0,7734 57
1	0,01	2,13781	10,00 02	677.95 8,67	1,0805 5	0,5404 3	3,34448	0	167,29 4	0,9153 33
1	0,02	3,59971	10,00 05	559.85 6,51	1,3588 4	0,6795 18	7,28888	0	129,96 5	0,9625 15
1	0,03	4,79263	10,00 1	491.08 1,47	1,5811	0,7905 81	9,42718	0	110,30 3	0,9898 46
1	0,04	5,82865	10,00 16	444.07 3,95	1,7717 7	0,8858 55	10,8249	0	97,639 6	1,0084 7
1	0,05	6,7587	10,00 23	409.08 1,17	1,9415 9	0,9707 01	11,8331	0	88,592	1,0223 2
1	0,06	7,6118	10,00 3	381.57 5,10	2,0965	1,0481	12,6068	0	81,695 1	1,0331 8
1	0,07	8,40432	10,00 38	359.17 6,90	2,2398 3	1,1197	13,225	0	76,213 2	1,0420 2
1	0,08	9,14615	10,00 47	340.48 9,71	2,3735 4	1,1865	13,7327	0	71,728 6	1,0493 8
1	0,09	9,84621	10,00 57	324.56 3,36	2,4994 1	1,2493 7	14,1598	0	67,968 9	1,0556 6
1	0,1	10,51	10,00 67	310.78 2,17	2,6185 2	1,3088 7	14,5253	0	64,760 8	1,0610 8
1	0,11	11,1428	10,00 77	298.69 3,48	2,7318 5	1,3654 9	14,8428	0	61,980 6	1,0658 4
1	0,12	11,7486	10,00 88	287.96 3,81	2,8402 5	1,4196 4	15,1222	0	59,539	1,0700 6
1	0,13	12,3323	10,01	278.32 5,29	2,9448 2	1,4718 8	15,4236	0	57,366 3	1,0736 8

1	0,14	12,8957	10,01	269.60	3,0457	1,5223	15,712	0	55,418	1,0768
			12	9,11	7				1	9
1	0,15	13,4423	10,01	261.64	3,1437	1,5712	15,9764	0	53,652	1,0798
			24	9,10	1	2			5	1
1	0,16	13,9723	10,01	254.36	3,2386	1,6186	16,2194	0	52,047	1,0824
			37	0,32	5	5			1	8
1	0,17	14,488	10,01	247.64	3,3310	1,6647	16,4442	0	50,576	1,0849
			5	0,78	2	9			4	3
1	0,18	14,9892	10,01	241.43	3,4207	1,7096	16,6523	0	49,226	1,0871
			64	5,08	9	3			2	9
1	0,19	15,4772	10,01	235.67	3,5082	1,7532	16,846	0	47,980	1,0892
			78	8,11		9			4	9
1	0,2	15,9523	10,01	230.32	3,5933	1,7958	17,0266	0	46,827	1,0912
			92	5,01	1				8	3
1	0,212	16,5067	10,02	224.37	3,6926	1,8454	17,228	0	45,552	1,0933
			1	0,17	4	2			2	8
1	0,226	17,1524	10,02	217.80	3,8083	1,9032	17,4508	0	44,153	1,0957
	4		32	1,85	4	1			1	5
1	0,243	17,9022	10,02	210.62	3,9427	1,9703	17,6951	0	42,633	1,0983
	68		59	5,55	9	7			9	3
1	0,264	18,7676	10,02	202.89	4,0980	2,0479	17,9592	0	41,007	1,1011
	416		93	1,85	5	3			6	1
1	0,289	19,7643	10,03	194.63	4,2770	2,1373	18,2424	0	39,283	1,1040
	299		35	4,72	6	4			7	6
1	0,319	20,908	10,03	185.92	4,4827	2,2400	18,5424	0	37,478	1,1071
	159		88	0,89	1	7			1	6
1	0,354	22,2149	10,04	176.83	4,7181	2,3576	18,8567	0	35,609	1,1103
	991		55	2,69	2	6			9	9
1	0,397	23,7028	10,05	167.46	4,9867	2,4918	19,1822	0	33,699	1,1137
	989		4	1,64	7	6			3	
1	0,449	25,3918	10,06	157.91	5,2921	2,6444	19,5155	0	31,768	1,1170
	587		48	2,48	9	2			7	7
1	0,511	27,2997	10,07	148.31	5,6372	2,8167	19,8519	0	29,845	1,1204
	504		85	8,78	1	7			6	3
1	0,585	29,4427	10,09	138.80	6,0244	3,0102	20,187	0	27,955	1,1237
	805		59	9,88					7	5
1	0,674	31,8442	10,11	129.46	6,4577	3,2267	20,5177	0	26,115	1,1269
	966		83	9,83	8					9

1	0,781 959	34,5236	10,14 71	120.37 7,89	6,9413 8	3,4683	20,8412	0	24,338 2	1,1301 4
1	0,910 351	37,5191	10,18 41	111.56 8,51	7,4816 1	3,7382	21,1561	0	22,630 9	1,1331 8
1	1,064 42	40,8618	10,23 18	103.08 8,68	8,0846 8	4,0395	21,4607	0	21,001 1	1,1360 8
1	1,249 31	44,5872	10,29 34	94.972, 27	8,7580 5	4,3759 4	21,7536	0	19,454 2	1,1388 5
1	1,471 17	48,7306	10,37 29	87.249, 63	9,5099 7	4,7516 5	22,0337	0	17,995 2	1,1414 8
1	1,737 4	53,3332	10,47 56	79.936, 74	10,350 6	5,1716 8	22,3002	0	16,626 5	1,1439 5
1	2,056 88	58,4367	10,60 84	73.045, 54	11,291	5,6416	22,5526	0	15,35	1,1462 6
1	2,440 26	64,0671	10,78 02	66.596, 15	12,340 3	6,1659 7	22,7902	0	14,169 2	1,1484 1
1	2,900 31	70,2956	11,00 23	60.557, 10	13,515 2	6,7531 7	23,0139	0	13,078 4	1,1504
1	3,452 37	77,1956	11,28 9	54.905, 45	14,832 6	7,4115 6	23,2248	0	12,073 5	1,1522 5
1	4,114 84	84,8255	11,65 91	49.631, 08	16,305 7	8,1478 1	23,4231	0	11,153 1	1,1539 6
1	4,909 81	93,3005	12,13 52	44.696, 65	17,955 3	8,9723 3	23,6104	0	10,310 8	1,1555 2
1	5,863 77	102,714	12,74 62	40.086, 75	19,797	9,8929 1	23,7875	0	9,5444 3	1,1569 5
1	7,008 53	113,164	13,52 85	35.800, 43	21,837 5	10,912 9	23,9545	0	8,8540 1	1,1582 4
1	8,382 23	124,824	14,52 53	31.822, 13	24,086 4	12,037 1	24,1123	0	8,2376 3	1,1593 8
1	10,03 07	137,867	15,79 03	28.127, 00	26,561 6	13,274 4	24,2622	0	7,6915 5	1,1603 9
1	12,00 88	152,482	17,38 73	24.686, 75	29,293 7	14,640 2	24,4056	0	7,2119 1	1,1612 4
1	12,52 25	156,129	17,81 37	23.921, 22	29,969 8	14,978 2	24,4381	0	7,1096 8	1,1614 2
1	14,38 26	168,853	19,39 5	21.465, 72	32,342 1	16,164 2	24,5442	0	6,7942 3	1,1619 6

1	17,23 11	187,364	21,88 47	18.459, 25	35,767 2	17,876 5	24,6787	0	6,4384 4	1,1625 2
1	20,64 93	208,643	24,92 61	15.692, 33	39,602 7	19,794	24,8084	0	6,1488 4	1,1629 1
1	24,75 12	233,162	28,60 62	13.155, 82	43,948 9	21,966 9	24,9341	0	5,9244 3	1,1631 1
1	29,67 34	261,659	33,00 09	10.864, 32	48,889 7	24,437 1	25,0556	0	5,7675 6	1,1631 2
1	35,58 01	295,125	38,17 66	8.835,1 0	54,503 6	27,243 9	25,1725	0	5,6802 5	1,1629
1	42,66 81	334,842	44,19 02	7.077,4 8	60,873 8	30,428 8	25,2847	0	5,6628	1,1624 7
1	51,17 37	382,622	51,07 19	5.590,1 4	68,094 8	34,039 1	25,3922	0	5,7130 7	1,1618
1	53,53 48	396,007	52,91 25	5.261,7 2	70,031 2	35,007 3	25,4182	0	5,7354 5	1,1616
2	3600	0	10	999.99 9,41	0,6536 64	0,3270 17	-5,13686	0	300	0,7734 57
2	3600, 01	2,13781	10,00 02	677.95 8,67	1,0805 5	0,5404 3	3,34448	0	167,29 4	0,9153 33
2	3600, 02	3,59971	10,00 05	559.85 6,51	1,3588 4	0,6795 18	7,28888	0	129,96 5	0,9625 15
2	3600, 03	4,79263	10,00 1	491.08 1,47	1,5811	0,7905 81	9,42718	0	110,30 3	0,9898 46
2	3600, 04	5,82865	10,00 16	444.07 3,95	1,7717 7	0,8858 55	10,8249	0	97,639 6	1,0084 7
2	3600, 05	6,7587	10,00 23	409.08 1,17	1,9415 9	0,9707 01	11,8331	0	88,592	1,0223 2
2	3600, 06	7,6118	10,00 3	381.57 5,10	2,0965	1,0481	12,6068	0	81,695 1	1,0331 8
2	3600, 07	8,40432	10,00 38	359.17 6,90	2,2398 3	1,1197	13,225	0	76,213 2	1,0420 2
2	3600, 08	9,14615	10,00 47	340.48 9,71	2,3735 4	1,1865	13,7327	0	71,728 6	1,0493 8
2	3600, 09	9,84621	10,00 57	324.56 3,36	2,4994 1	1,2493 7	14,1598	0	67,968 9	1,0556 6
2	3600, 10,51	10,51	10,00	310.78	2,6185	1,3088	14,5253	0	64,760	1,0610

	1		67	2,17	2	7			8	8
2	3600, 11	11,1428	10,00 77	298.69 3,48	2,7318 5	1,3654 9	14,8428	0	61,980 6	1,0658 4
2	3600, 12	11,7486	10,00 88	287.96 3,81	2,8402 5	1,4196 4	15,1222	0	59,539	1,0700 6
2	3600, 13	12,3323	10,01	278.32 5,29	2,9448 2	1,4718 8	15,4236	0	57,366 3	1,0736 8
2	3600, 14	12,8957	10,01 12	269.60 9,11	3,0457 7	1,5223	15,712	0	55,418 1	1,0768 9
2	3600, 15	13,4423	10,01 24	261.64 9,10	3,1437 1	1,5712 2	15,9764	0	53,652 5	1,0798 1
2	3600, 16	13,9723	10,01 37	254.36 0,32	3,2386 5	1,6186 5	16,2194	0	52,047 1	1,0824 8
2	3600, 17	14,488	10,01 5	247.64 0,78	3,3310 2	1,6647 9	16,4442	0	50,576 4	1,0849 3
2	3600, 18	14,9892	10,01 64	241.43 5,08	3,4207 9	1,7096 3	16,6523	0	49,226 2	1,0871 9
2	3600, 19	15,4772	10,01 78	235.67 8,11	3,5082	1,7532 9	16,846	0	47,980 4	1,0892 9
2	3600, 2	15,9523	10,01 92	230.32 5,01	3,5933 1	1,7958	17,0266	0	46,827 8	1,0912 3
2	3600, 21	16,5067	10,02 1	224.37 0,17	3,6926 4	1,8454 2	17,228	0	45,552 2	1,0933 8
2	3600, 23	17,1524	10,02 32	217.80 1,85	3,8083 4	1,9032 1	17,4508	0	44,153 1	1,0957 5
2	3600, 24	17,9022	10,02 59	210.62 5,55	3,9427 9	1,9703 7	17,6951	0	42,633 9	1,0983 3
2	3600, 26	18,7676	10,02 93	202.89 1,85	4,0980 5	2,0479 3	17,9592	0	41,007 6	1,1011 1
2	3600, 29	19,7643	10,03 35	194.63 4,72	4,2770 6	2,1373 4	18,2424	0	39,283 7	1,1040 6
2	3600, 32	20,908	10,03 88	185.92 0,89	4,4827 1	2,2400 7	18,5424	0	37,478 1	1,1071 6
2	3600, 35	22,2149	10,04 55	176.83 2,69	4,7181 2	2,3576 6	18,8567	0	35,609 9	1,1103 9
2	3600, 4	23,7028	10,05 4	167.46 1,64	4,9867 7	2,4918 6	19,1822	0	33,699 3	1,1137
2	3600, 25,3918		10,06	157.91	5,2921	2,6444	19,5155	0	31,768	1,1170

	45		48	2,48	9	2			7	7
2	3600,51	27,2997	10,0785	148.318,78	5,63721	2,81677	19,8519	0	29,8456	1,12043
2	3600,59	29,4427	10,0959	138.809,88	6,0244	3,0102	20,187	0	27,9557	1,12375
2	3600,67	31,8442	10,1183	129.469,83	6,45778	3,2267	20,5177	0	26,115	1,12699
2	3600,78	34,5236	10,1471	120.377,89	6,94138	3,4683	20,8412	0	24,3382	1,13014
2	3600,91	37,5191	10,1841	111.568,51	7,48161	3,7382	21,1561	0	22,6309	1,13318
2	3601,06	40,8618	10,2318	103.088,68	8,08468	4,0395	21,4607	0	21,0011	1,13608
2	3601,25	44,5872	10,2934	94.972,27	8,75805	4,37594	21,7536	0	19,4542	1,13885
2	3601,47	48,7306	10,3729	87.249,63	9,50997	4,75165	22,0337	0	17,9952	1,14148
2	3601,74	53,3332	10,4756	79.936,74	10,3506	5,17168	22,3002	0	16,6265	1,14395
2	3602,06	58,4367	10,6084	73.045,54	11,291	5,6416	22,5526	0	15,35	1,14626
2	3602,44	64,0671	10,7802	66.596,15	12,3403	6,16597	22,7902	0	14,1692	1,14841
2	3602,9	70,2956	11,0023	60.557,10	13,5152	6,75317	23,0139	0	13,0784	1,1504
2	3603,45	77,1956	11,289	54.905,45	14,8326	7,41156	23,2248	0	12,0735	1,15225
2	3604,11	84,8255	11,6591	49.631,08	16,3057	8,14781	23,4231	0	11,1531	1,15396
2	3604,91	93,3005	12,1352	44.696,65	17,9553	8,97233	23,6104	0	10,3108	1,15552
2	3605,86	102,714	12,7462	40.086,75	19,797	9,89291	23,7875	0	9,54443	1,15695
2	3607,01	113,164	13,5285	35.800,43	21,8375	10,9129	23,9545	0	8,85401	1,15824
2	3608,38	124,824	14,5253	31.822,13	24,0864	12,0371	24,1123	0	8,23763	1,15938
2	3610,	137,867	15,79	28.127,	26,561	13,274	24,2622	0	7,6915	1,1603

	03		03	00	6	4			5	9
2	3612, 01	152,482	17,38 73	24.686, 75	29,293 7	14,640 2	24,4056	0	7,2119 1	1,1612 4
2	3612, 52	156,129	17,81 37	23.921, 22	29,969 8	14,978 2	24,4381	0	7,1096 8	1,1614 2
2	3614, 38	168,853	19,39 5	21.465, 72	32,342 1	16,164 2	24,5442	0	6,7942 3	1,1619 6
2	3617, 23	187,364	21,88 47	18.459, 25	35,767 2	17,876 5	24,6787	0	6,4384 4	1,1625 2
2	3620, 65	208,643	24,92 61	15.692, 33	39,602 7	19,794	24,8084	0	6,1488 4	1,1629 1
2	3624, 75	233,162	28,60 62	13.155, 82	43,948 9	21,966 9	24,9341	0	5,9244 3	1,1631 1
2	3629, 67	261,659	33,00 09	10.864, 32	48,889 7	24,437 1	25,0556	0	5,7675 6	1,1631 2
2	3635, 58	295,125	38,17 66	8.835,1 0	54,503 6	27,243 9	25,1725	0	5,6802 5	1,1629
2	3642, 67	334,842	44,19 02	7.077,4 8	60,873 8	30,428 8	25,2847	0	5,6628	1,1624 7
2	3651, 17	382,622	51,07 19	5.590,1 4	68,094 8	34,039 1	25,3922	0	5,7130 7	1,1618
2	3653, 53	396,007	52,91 25	5.261,7 2	70,031 2	35,007 3	25,4182	0	5,7354 5	1,1616

Weather: Category 5/D

Wind speed [m/s]	5
Pasquill stability	D neutral - little sun and high wind or overcast/windy night
Atmospheric temperature [degC]	25
Relative humidity [fraction]	0,75
Solar radiation flux [kW/m2]	0,5
Mixing layer height [m]	800

Observer Release Data and Observer Mass Data

Observer number	Release type	Start time [s]	Start downwind distance [m]	Unit	Masses or mass rates		
					Release	Rainout	Final
1	Continuous	0	0	kg/s	99,2	0	99,2
2	Continuous	3600	0	kg/s	99,2	0	99,2

Time-varying Observer Dispersion Data (before along-wind-diffusion effects)

Dispersion data correspond to an averaging time of: 18,75 s

Observer number	Time [s]	Down wind distance [m]	C/Li ne height [m]	C/Li ne conc [ppm]	Effect ive width [m]	Effect ive depth [m]	C/Li ne vapour temperature [degC]	C/Li ne liquid fraction	Centr oid velocity [m/s]	C/Li ne cloud density [kg/m3]
1	0	0	10	999.99 9,41	0,6538 49	0,3269 24	-5,13686	0	300	0,7734 57
1	0,01	2,14451	10,00 02	676.83 1,42	1,0783 7	0,5391 86	3,24509	0	168,24	0,9163 11
1	0,02	3,61687	10,00 05	557.76 2,94	1,3554 7	0,6777 33	7,12165	0	131,05	0,9642 25

1	0,03	4,82061	10,00	488.32	1,5769	0,7884	9,25553	0	111,44	0,9919
			1	9,24	6	8			9	21
1	0,04	5,86791	10,00	440.78	1,7672	0,8836	10,6535	0	98,809	1,0108
			16	4,04	9	46				3
1	0,05	6,80642	10,00	405.46	1,9364	0,9682	11,66	0	89,800	1,0248
			23	5,17	2	11			5	5
1	0,06	7,66607	10,00	377.73	2,0904	1,0452	12,4317	0	82,943	1,0358
			3	5,58	7	4			1	3
1	0,07	8,46536	10,00	355.12	2,2331	1,1165	13,0492	0	77,486	1,0447
			38	4,64	4	7				8
1	0,08	9,21605	10,00	336.18	2,3667	1,1833	13,5583	0	73,005	1,0522
			47	7,99	6	8			6	7
1	0,09	9,92593	10,00	320.01	2,4928	1,2464	13,9875	0	69,242	1,0586
			56	4,80	4	2			2	6
1	0,1	10,6003	10,00	305.99	2,6124	1,3062	14,3555	0	66,025	1,0642
			66	4,82	2	1			9	
1	0,11	11,2444	10,00	293.67	2,7265	1,3632	14,6802	0	63,233	1,0690
			77	2,97	3	7			7	5
1	0,12	11,8631	10,00	282.70	2,8363	1,4181	15,0365	0	60,775	1,0731
			88	5,86	5	8			2	3
1	0,13	12,4584	10,00	272.87	2,9419	1,471	15,3574	0	58,591	1,0767
			99	1,24	9				7	8
1	0,14	13,0336	10,01	263.96	3,0440	1,5220	15,6493	0	56,632	1,0800
			11	8,32	7	4				7
1	0,15	13,5903	10,01	255.86	3,1428	1,5714	15,916	0	54,862	1,0830
			23	4,16	7	4				6
1	0,16	14,1304	10,01	248.43	3,2387	1,6193	16,1612	0	53,252	1,0857
			35	9,93	4	7				8
1	0,17	14,6552	10,01	241.60	3,3319	1,6659	16,3877	0	51,779	1,0882
			48	4,83	4	7			3	9
1	0,18	15,166	10,01	235.28	3,4227	1,7113	16,5978	0	50,425	1,0905
			62	3,36		5			4	9
1	0,19	15,6639	10,01	229.41	3,5112	1,7556	16,7935	0	49,175	1,0927
			75	2,75	2	1				3
1	0,2	16,15	10,01	223.93	3,5976	1,7988	16,9765	0	48,015	1,0947
			89	9,80	9	5			3	2
1	0,212	16,7188	10,02	217.83	3,6989	1,8494	17,181	0	46,728	1,0969
			06	6,48	5	8			6	4

1	0,226 4	17,382	10,02 27	211.09 8,39	3,8171 4	1,9085 7	17,4076	0	45,316 4	1,0993 8
1	0,243 68	18,1526	10,02 54	203.73 7,26	3,9546 5	1,9773 3	17,6559	0	43,783 3	1,1020 3
1	0,264 416	19,044	10,02 86	195.78 9,88	4,1139 9	2,057	17,925	0	42,139 4	1,1048 9
1	0,289 299	20,0713	10,03 27	187.30 6,53	4,2980 2	2,1490 1	18,2133	0	40,397 5	1,1079 3
1	0,319 159	21,2503	10,03 78	178.35 7,92	4,5098 3	2,2549 1	18,5188	0	38,574 2	1,1111 3
1	0,354 991	22,5981	10,04 43	169.02 9,09	4,7528	2,3764	18,8386	0	36,688 8	1,1144 5
1	0,397 989	24,1336	10,05 23	159.41 1,21	5,0308 5	2,5154 3	19,1699	0	34,761 2	1,1178 6
1	0,449 587	25,8774	10,06 25	149.60 3,17	5,3483 1	2,6741 6	19,5093	0	32,812 4	1,1213 2
1	0,511 504	27,8494	10,07 55	139.71 5,67	5,7096 9	2,8548 5	19,8531	0	30,864 8	1,1247 9
1	0,585 805	30,0711	10,09 19	129.85 2,67	6,1201 6	3,0600 8	20,1977	0	28,939	1,1282 5
1	0,674 966	32,5653	10,11 27	120.11 1,19	6,5855 8	3,2927 9	20,5396	0	27,053 4	1,1316 4
1	0,781 959	35,3592	10,13 92	110.56 9,96	7,1131 6	3,5565 9	20,8761	0	25,222 6	1,1349 5
1	0,910 351	38,4841	10,17 3	101.29 4,10	7,7117 2	3,8558 6	21,2048	0	23,458	1,1381 5
1	1,064 42	41,962	10,21 6	92.360, 25	8,3901 6	4,1950 9	21,5226	0	21,773	1,1412 3
1	1,249 31	45,8169	10,27 07	83.823, 30	9,1597 1	4,5798 6	21,8276	0	20,177	1,1441 5
1	1,471 17	50,102	10,34 02	75.690, 53	10,038	5,019	22,1192	0	18,670 3	1,1469 2
1	1,737 4	54,8585	10,42 84	67.989, 33	11,044 1	5,5220 8	22,3962	0	17,257 4	1,1495 4
1	2,056 88	60,1237	10,54 01	60.744, 15	12,200 3	6,1001 9	22,6576	0	15,942 3	1,1519 9
1	2,440 26	65,9649	10,68 1	53.952, 37	13,536 7	6,7683 7	22,9032	0	14,724 1	1,1542 7

1	2,900 31	72,4216	10,85 81	47.629, 68	15,083 6	7,5418 1	23,1321	0	13,605 6	1,1563 9
1	3,452 37	79,6379	11,07 91	41.748, 58	16,887	8,4435 2	23,3452	0	12,581 4	1,1583 5
1	4,114 84	87,6838	11,35 37	36.320, 74	18,988	9,4940 6	23,5417	0	11,653 6	1,1601 4
1	4,751 18	94,9042	11,62 58	32.459, 65	20,830 6	10,415 3	23,6812	0	11,004 5	1,1614 1
1	4,751 18	94,9042	11,62 58	32.459, 65	20,830 5	10,415 3	23,6812	0	11,004 6	1,1614 1
1	4,909 81	96,638	11,69 5	31.681, 14	21,245 1	10,622 6	23,7092	0	10,874 7	1,1616 6
1	5,863 77	106,701	12,12 43	28.099, 97	23,368 4	11,684 3	23,8378	0	10,282 9	1,1628 2
1	7,008 53	118,163	12,67 12	25.068, 28	25,493 7	12,746 9	23,9454	0	9,7933 1	1,1637 8
1	7,541 25	123,324	12,93 7	23.921, 22	26,391 6	13,195 9	23,9856	0	9,6119 2	1,1641 3
1	8,382 23	131,29	13,36 99	22.340, 11	27,727 6	13,863 9	24,0405	0	9,3661 2	1,1646 2
1	10,03 07	146,386	14,25 96	19.810, 39	30,143 4	15,071 8	24,1266	0	8,9848 6	1,1653 7
1	12,00 88	163,782	15,38 7	17.431, 78	32,806 2	16,403 2	24,2048	0	8,6427 6	1,1660 6
1	14,38 26	183,867	16,80 47	15.180, 80	35,794 2	17,897 2	24,2755	0	8,3369 6	1,1666 8
1	15,15 11	190,222	17,27 51	14.553, 92	36,73	18,365 1	24,2944	0	8,2553 8	1,1668 4
2	3600	0	10	999.99 9,41	0,6538 49	0,3269 24	-5,13686	0	300	0,7734 57
2	3600, 01	2,14451	10,00 02	676.83 1,42	1,0783 7	0,5391 86	3,24509	0	168,24	0,9163 11
2	3600, 02	3,61687	10,00 05	557.76 2,94	1,3554 7	0,6777 33	7,12165	0	131,05	0,9642 25
2	3600, 03	4,82061	10,00 1	488.32 9,24	1,5769 6	0,7884 8	9,25553	0	111,44 9	0,9919 21
2	3600,	5,86791	10,00	440.78	1,7672	0,8836	10,6535	0	98,809	1,0108

	04		16	4,04	9	46				3
2	3600,05	6,80642	10,0023	405.465,17	1,93642	0,968211	11,66	0	89,8005	1,02485
2	3600,06	7,66607	10,003	377.735,58	2,09047	1,04524	12,4317	0	82,9431	1,03583
2	3600,07	8,46536	10,0038	355.124,64	2,23314	1,11657	13,0492	0	77,486	1,04478
2	3600,08	9,21605	10,0047	336.187,99	2,36676	1,18338	13,5583	0	73,0056	1,05227
2	3600,09	9,92593	10,0056	320.014,80	2,49284	1,24642	13,9875	0	69,2422	1,05866
2	3600,1	10,6003	10,0066	305.994,82	2,61242	1,30621	14,3555	0	66,0259	1,06429
2	3600,11	11,2444	10,0077	293.672,97	2,72653	1,36327	14,6802	0	63,2337	1,06905
2	3600,12	11,8631	10,0088	282.705,86	2,83635	1,41818	15,0365	0	60,7752	1,07313
2	3600,13	12,4584	10,0099	272.871,24	2,94199	1,471	15,3574	0	58,5917	1,07678
2	3600,14	13,0336	10,0111	263.968,32	3,04407	1,52204	15,6493	0	56,6327	1,08007
2	3600,15	13,5903	10,0123	255.864,16	3,14287	1,57144	15,916	0	54,862	1,08306
2	3600,16	14,1304	10,0135	248.439,93	3,23874	1,61937	16,1612	0	53,252	1,08578
2	3600,17	14,6552	10,0148	241.604,83	3,33194	1,66597	16,3877	0	51,7793	1,08829
2	3600,18	15,166	10,0162	235.283,36	3,4227	1,71135	16,5978	0	50,4254	1,09059
2	3600,19	15,6639	10,0175	229.412,75	3,51122	1,75561	16,7935	0	49,175	1,09273
2	3600,2	16,15	10,0189	223.939,80	3,59769	1,79885	16,9765	0	48,0153	1,09472
2	3600,21	16,7188	10,0206	217.836,48	3,69895	1,84948	17,181	0	46,7286	1,09694
2	3600,23	17,382	10,0227	211.098,39	3,81714	1,90857	17,4076	0	45,3164	1,09938
2	3600,	18,1526	10,02	203.73	3,9546	1,9773	17,6559	0	43,783	1,1020

	24		54	7,26	5	3			3	3
2	3600, 26	19,044	10,02 86	195.78 9,88	4,1139 9	2,057	17,925	0	42,139 4	1,1048 9
2	3600, 29	20,0713	10,03 27	187.30 6,53	4,2980 2	2,1490 1	18,2133	0	40,397 5	1,1079 3
2	3600, 32	21,2503	10,03 78	178.35 7,92	4,5098 3	2,2549 1	18,5188	0	38,574 2	1,1111 3
2	3600, 35	22,5981	10,04 43	169.02 9,09	4,7528	2,3764	18,8386	0	36,688 8	1,1144 5
2	3600, 4	24,1336	10,05 23	159.41 1,21	5,0308 5	2,5154 3	19,1699	0	34,761 2	1,1178 6
2	3600, 45	25,8774	10,06 25	149.60 3,17	5,3483 1	2,6741 6	19,5093	0	32,812 4	1,1213 2
2	3600, 51	27,8494	10,07 55	139.71 5,67	5,7096 9	2,8548 5	19,8531	0	30,864 8	1,1247 9
2	3600, 59	30,0711	10,09 19	129.85 2,67	6,1201 6	3,0600 8	20,1977	0	28,939	1,1282 5
2	3600, 67	32,5653	10,11 27	120.11 1,19	6,5855 8	3,2927 9	20,5396	0	27,053 4	1,1316 4
2	3600, 78	35,3592	10,13 92	110.56 9,96	7,1131 6	3,5565 9	20,8761	0	25,222 6	1,1349 5
2	3600, 91	38,4841	10,17 3	101.29 4,10	7,7117 2	3,8558 6	21,2048	0	23,458	1,1381 5
2	3601, 06	41,962	10,21 6	92.360, 25	8,3901 6	4,1950 9	21,5226	0	21,773	1,1412 3
2	3601, 25	45,8169	10,27 07	83.823, 30	9,1597 1	4,5798 6	21,8276	0	20,177	1,1441 5
2	3601, 47	50,102	10,34 02	75.690, 53	10,038	5,019	22,1192	0	18,670 3	1,1469 2
2	3601, 74	54,8585	10,42 84	67.989, 33	11,044 1	5,5220 8	22,3962	0	17,257 4	1,1495 4
2	3602, 06	60,1237	10,54 01	60.744, 15	12,200 3	6,1001 9	22,6576	0	15,942 3	1,1519 9
2	3602, 44	65,9649	10,68 1	53.952, 37	13,536 7	6,7683 7	22,9032	0	14,724 1	1,1542 7
2	3602, 9	72,4216	10,85 81	47.629, 68	15,083 6	7,5418 1	23,1321	0	13,605 6	1,1563 9
2	3603,	79,6379	11,07	41.748,	16,887	8,4435	23,3452	0	12,581	1,1583

	45		91	58		2			4	5
2	3604,11	87,6838	11,3537	36.320,74	18,988	9,49406	23,5417	0	11,6536	1,16014
2	3604,75	94,9042	11,6258	32.459,65	20,8306	10,4153	23,6812	0	11,0045	1,16141
2	3604,75	94,9042	11,6258	32.459,65	20,8305	10,4153	23,6812	0	11,0046	1,16141
2	3604,91	96,638	11,695	31.681,14	21,2451	10,6226	23,7092	0	10,8747	1,16166
2	3605,86	106,701	12,1243	28.099,97	23,3684	11,6843	23,8378	0	10,2829	1,16282
2	3607,01	118,163	12,6712	25.068,28	25,4937	12,7469	23,9454	0	9,79331	1,16378
2	3607,54	123,324	12,937	23.921,22	26,3916	13,1959	23,9856	0	9,61192	1,16413
2	3608,38	131,29	13,3699	22.340,11	27,7276	13,8639	24,0405	0	9,36612	1,16462
2	3610,03	146,386	14,2596	19.810,39	30,1434	15,0718	24,1266	0	8,98486	1,16537
2	3612,01	163,782	15,387	17.431,78	32,8062	16,4032	24,2048	0	8,64276	1,16606
2	3614,38	183,867	16,8047	15.180,80	35,7942	17,8972	24,2755	0	8,33696	1,16668
2	3615,15	190,222	17,2751	14.553,92	36,73	18,3651	24,2944	0	8,25538	1,16684

