

Comune di Bondeno
Provincia di Ferrara (FE)

Società Agricola Biopig Italia s.s. di Cascone Luigi e C.
sede : Via Marzabotto 01 - Località Nogara (VR)

**Progetto per l'ampliamento di un insediamento zootecnico
esistente, autorizzato con P.D.C. 168/2017/PC,
e realizzazione di un impianto per l'abbattimento dell'Azoto,
il tutto su terreni di proprietà
siti nel Comune di Bondeno (FE), località Zerbinete,
Via Argine Vela 471 .**

Allegato

Marzo 2021

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oggetto **RELAZIONE GEOLOGICO-SISMICA
E GEOTECNICA**

Il Progettista

Dott. Geol. Vincenzi Stefano

Il Richiedente

Società Agricola BIOPIG ITALIA s.s.
di Cascone Luigi & C.

I Collaboratori

Dott. Ghetti Elena
Dott. Bertelli Alice
Dott. Geol. Tamburini Silvia
Dott. Davide Ganzerla



**Società Agricola
BIOPIG ITALIA**
di Cascone Luigi & C. s.s.

I Relatori

Negrini geom. Stefano - Martini geom. Isacco - Franzini geom. Andrea
dott. agr. Gino Benincà - dott. agr. Pierluigi Martorana -
dott. p.a. Giacomo De Franceschi

Con la collaborazione di:

Studio Gaia ,Studio Perissinotto ,
Peroni geom. Moreno .



STUDIO TECNICO NEGRINI
di
Negrini Geom. Stefano
Via Fellini n° 3 - 37054 - Nogara - (Vr)
Tel : 0442-50530 — E-Mail : ftkne.negrini@gmail.com
C.F. : NGR SFN 62E15 F918 1 — P.Iva : 0180219 023 9



STUDIO BENINCA' - Associazione tra Professionisti
Via Serena, 1 - 37036 San Martino Buon Albergo (VR)
Tel : 0458 799229 - Fax : 045878 0829
pec: tecnico@pe.c.studiobeninca.it email: info@studiobeninca.it

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1 PREMESSA

Su incarico della Soc. Agr. Biopig Italia di Cascone Luigi e c. s.s. è stata redatta la presente relazione geologico-tecnica e sismica al fine di caratterizzare i terreni di fondazione nell'ambito del progetto di ampliamento di un complesso zootecnico nel comune di Bondeno, località Zerbinato.

Lo studio prevede la creazione di un modello geologico-geotecnico del terreno sede dell'intervento, i relativi calcoli per le verifiche di stabilità e le valutazioni del margine di sicurezza nei riguardi delle situazioni limite; queste ultime si possono manifestare sia nelle fasi transitorie di costruzione sia nella fase definitiva per l'insieme manufatto-terreno. Infine verranno determinati i principali parametri di classificazione sismica, richiesti dalla normativa vigente.

2 RIFERIMENTI NORMATIVI

Legge n. 109 del 11 febbraio 1994, art.16 comma 3 e 4, e ss.mm. ii.

A.G.I. "Raccomandazioni sulla programmazione ed esecuzione delle indagini" (Giugno 1977)

UNI EN 1991 (Eurocodice 1): "Basi di calcolo e azioni sulle strutture"

UNI EN 1997 (Eurocodice 7): "Progettazione geotecnica"

UNI EN 1998 (Eurocodice 8): "Progettazione delle strutture per la resistenza sismica"

OPCM 3274/2003 e OPCM 3519/2006

D.M. del 17.01.2018 Aggiornamento delle "Norme Tecniche per le Costruzioni"

Circolare Ministero delle Infrastrutture e dei Trasporti n°7 del 21.01.19: Istruzioni per l'applicazione delle "Norme Tecniche per le Costruzioni" di cui al D.M. 17.01.18" (Circolare applicativa NTC 2018)

D. Reg. 112/07 "Indirizzi per gli studi di microzonazione sismica in Emilia-Romagna per la pianificazione territoriale e urbanistica", aggiornata con DGR 2193/2015, aggiornata a sua volta con DGR 630/2019.

Linee Guida NTC08 redatto da Gruppo Interregionale Ordine dei Geologi, Luglio 2010

Ordinanza del Commissario delegato per la ricostruzione n°70 del 13.11.2012 "Mappe delle Microzone Omogenee in Prospettiva Sismica dei 17 Comuni con IMCS ≥ 6 "

3 INQUADRAMENTO GEOLOGICO

L'area interessata dall'intervento in progetto è situata nel comune di Bondeno (FE), località Zerbinate, in Via Argine Vela. L'area di intervento è censita al catasto del comune di Bondeno al Foglio 5, mappali 41, 105 e 106, 117 e 118. In **Figura 3.1** si riportano due estratti fotografici satellitari, a diverso grado di dettaglio, che individuano l'area di indagine e i fabbricati attualmente esistenti.

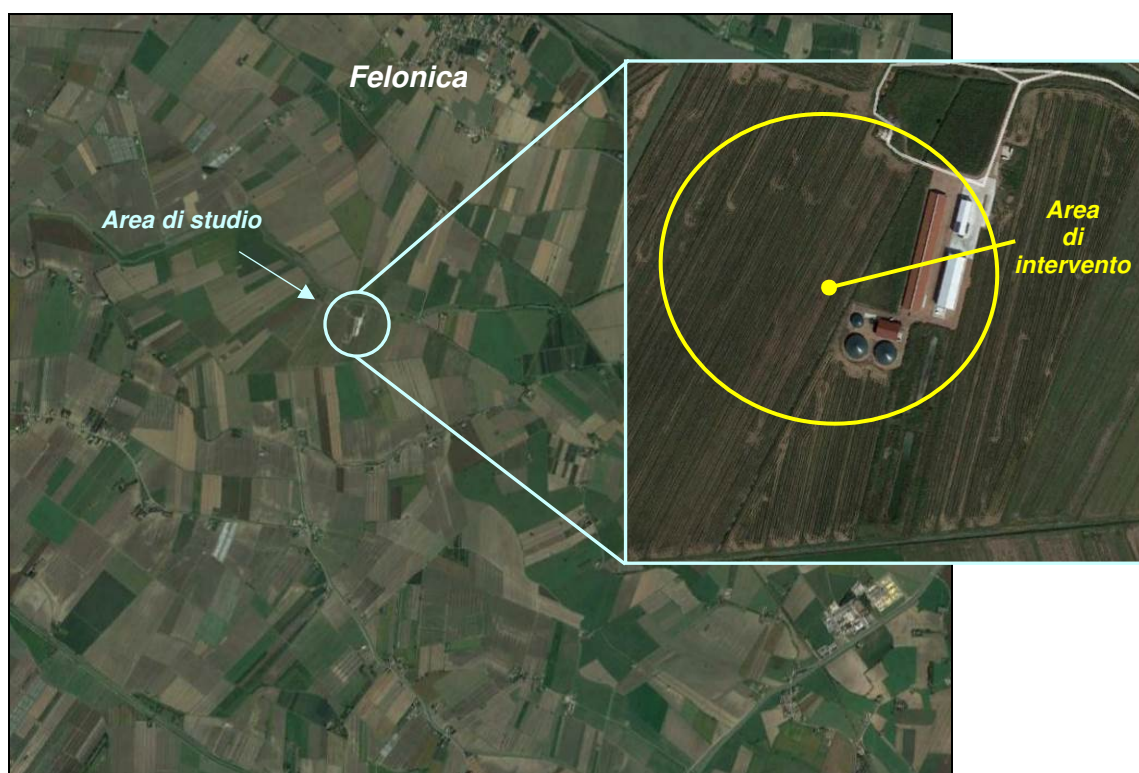


Figura 3.1. Immagine satellitare della zona di studio, a diverso dettaglio (fonte: Google Earth)

L'intervento, come accennato, consiste nell'ampliamento di un complesso zootecnico con realizzazione delle seguenti strutture: stalle, vasche di stoccaggio liquami, impianto nitro-denitro. Per i dettagli tecnici e strutturali si rimanda alla consultazione degli elaborati progettuali.

4 INQUADRAMENTO GEOLOGICO

Il contesto geologico in cui si inserisce l'area in esame è stato definito mediante consultazione di cartografica esistente. Tale operazione ha avuto l'intento di ricostruire, a livello generale, la disposizione delle formazioni geologiche quaternarie presenti nell'area di intervento, per disporre di preliminari informazioni sulla probabile natura tessiturale dei terreni di alterazione superficiali.

In generale l'assetto geologico dell'Emilia-Romagna è il risultato dei movimenti crostali che, a partire dal Terziario, hanno coinvolto due placche continentali: il blocco sardo-corso da una parte e la microplacca Padano-Adriatica dall'altra. Questo movimento ha condotto all'orogenesi dell'Appennino Settentrionale, avvenuta nel Terziario, e alla successiva formazione dell'avanfossa padana, chiusa a nord dalla catena alpina meridionale (Sudalpino), già sollevatasi a partire dall'era Mesozoica.

Il progressivo riempimento del bacino marino, fino alle condizioni di continentalità, avviene attraverso eventi tettonico-sedimentari separati nel tempo da periodi di forte subsidenza bacinale. Queste alternanze di eventi è testimoniato da numerose superfici di discontinuità stratigrafica che "marcano" le diverse fasi ed affiorano sul margine appenninico.

La fase deposizionale di riferimento è rappresentata dal **Supersistema Emiliano – Romagnolo**, o Allogruppo Emiliano-Romagnolo, che viene descritta come *"Depositi alluvionali, deltizi, litorali e marini organizzati in successioni cicliche di vario ordine gerarchico. Comprende due alloformazioni (Alloformazione Emiliano-Romagnola Inferiore e Alloformazione Emiliano-Romagnola Superiore). Spessore massimo: ~ 700 m. Età: ~ 700.000 a – Attuale.*

La sua componente più recente (**Alloformazione Emiliano-Romagnola Superiore**) è caratterizzata da *"Depositi alluvionali, deltizi, litorali e marini organizzati in successioni cicliche di alcune decine di metri di spessore. Limite superiore coincidente col piano topografico". Spessore massimo: ~ 300 m. Età: ~ 400.000 a – Attuale*

La parte sommitale dell'Alloformazione Emiliano-Romagnola Superiore è denominata **Allomembro (o Subsistema) di Ravenna (AES8)** e comprende *"Unità costituita da ghiaie sabbiose, sabbie e limi ricoperte da una coltre limoso argillosa discontinua, in contesti di conoide alluvionale, canale fluviale e piana alluvionale intravalliva; da limi, limi sabbiosi e limi argillosi, in contesti di piana inondabile; da alternanze di sabbie, limi ed argille, in contesti di piana deltizia; da sabbie prevalenti passanti ad argille e limi e localmente a sabbie ghiaiose, in contesti di piana litorale. Al tetto l'unità presenta spesso un suolo parzialmente*

decarbonatato non molto sviluppato di colore giallo-bruno". Spessore massimo: ~ 30 m. Età: ~ 9.000 a – Attuale

La porzione sommitale dell'Allomembro di Ravenna è denominata **Unità di Modena (AES8a)**, così definita: *"Unità costituita da ghiaie e ghiaie sabbiose o da sabbie con livelli e lenti di ghiaie ricoperte da una coltre limoso argillosa discontinua, in contesti di conoide alluvionale, canale fluviale e piana alluvionale intravalliva; da argille e limi, in contesti di piana inondabile; da alternanze di sabbie, limi ed argille, in contesti di piana deltizia; da sabbie prevalenti passanti ad argille e limi e localmente a sabbie ghiaiose, in contesti di piana litorale. Al tetto l'unità presenta localmente un suolo calcareo poco sviluppato di colore grigio-giallastro". Spessore massimo: ~ 5,5 m. Età: Post-Romana (IV- VI sec. d.C. – Attuale).*

Il territorio ferrarese ricade nel settore sud-orientale dell'ampio bacino sedimentario padano, caratterizzato da una complessa struttura geologica definita "Dorsale Ferrarese", dove si ha una serie di depressioni strutturali comprese all'interno delle pieghe ferraresi (alti strutturali sepolti). La documentazione cartografica consultata nello specifico è la Carta Geologica di Pianura della Regione Emilia-Romagna, scala 1:250.000, di cui si riporta uno stralcio in **Figura 4.1.**

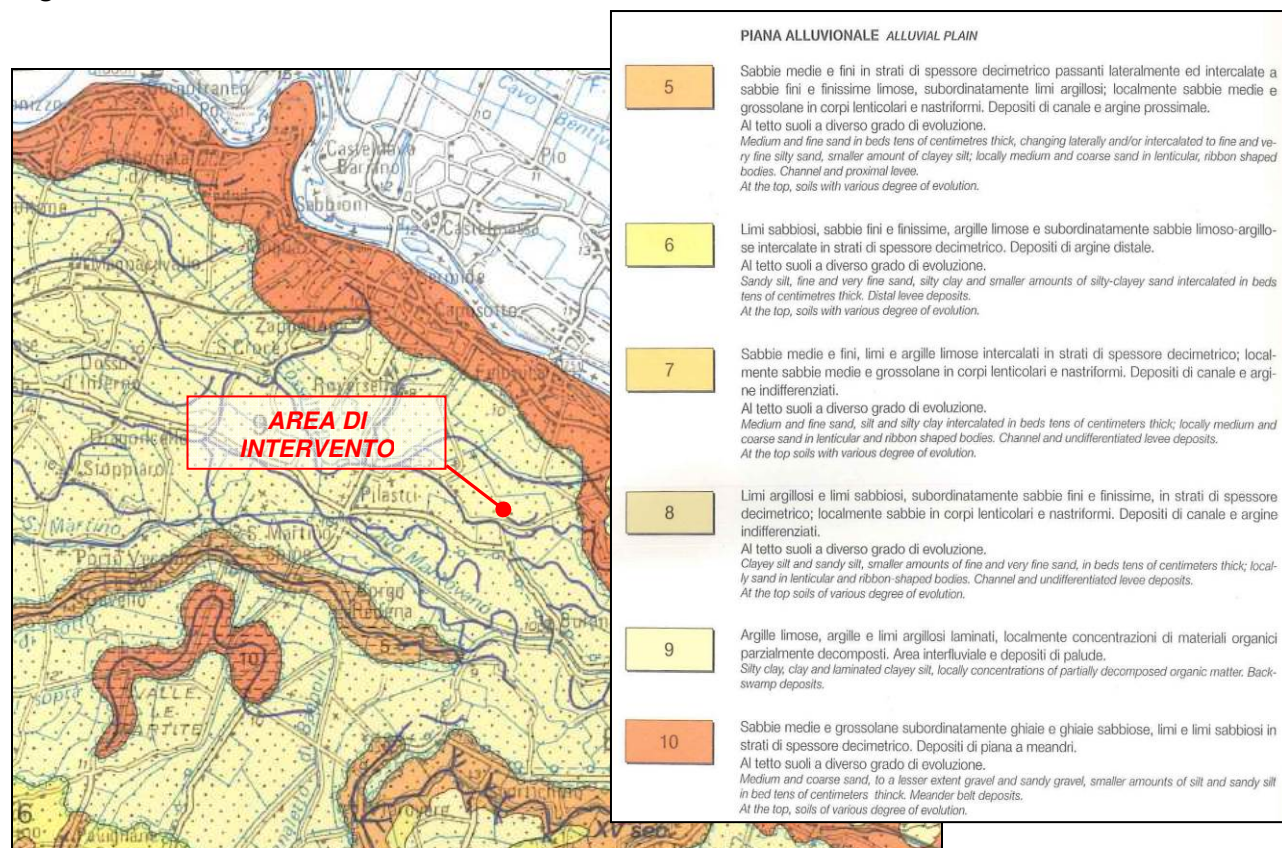


Figura 4.1. Estratto di carta Geologica di Pianura dell'Emilia Romagna indicante le formazioni presenti in corrispondenza e prossimità dell'area di intervento (immagine fuori scala)

Come mostrato il lotto oggetto di caratterizzazione si colloca in corrispondenza di depositi di area interfluviale e di palude (litotipo 9, probabilmente associabile all'unità di Modena AES8a, nei suoi termini coesivi), caratterizzati da *“Argille limose, argille e limi argillosi laminati, localmente concentrazioni di materiali organici parzialmente decomposti”*. Si osserva inoltre nella zona la presenza di numerose tracce (linee blu) meandriformi di canali estinti.

4.1 INQUADRAMENTO LITOLOGICO

Per quanto riguarda la litologia di superficie si è fatto riferimento alla Carta delle litologie di superficie (Tavola B2.2) del Quadro Conoscitivo del PSC elaborato in forma associata, di cui si riporta un estratto in **Figura 4.2**. In particolare l'area di intervento può essere associata, nei termini superficiali (intervallo compreso tra -0,1 e -0,8 m da p.c.) ad argille sabbiose ed argille limo-sabbiose.

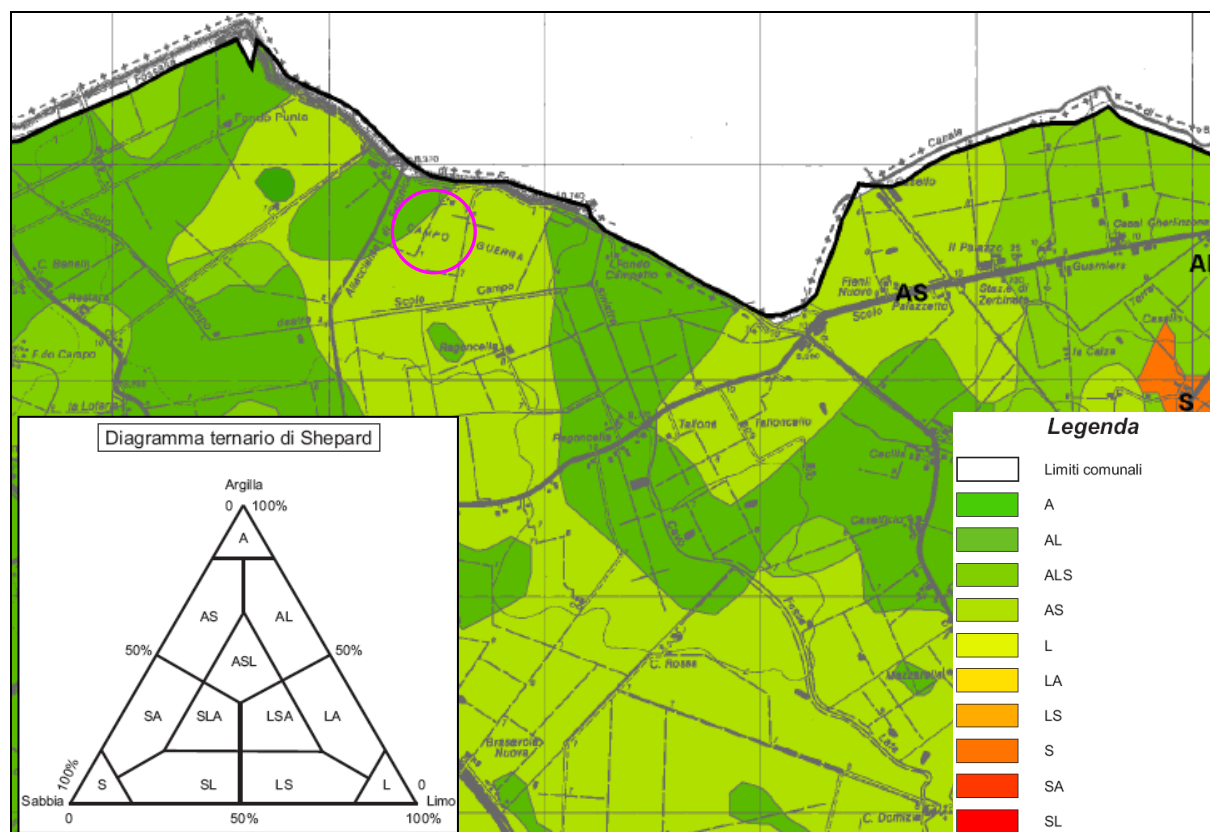


Figura 4.2. Estratto di Carta della litologia di superficie (Tavola B2.2) del Q.C. del PSC.
Nel cerchio magenta l'area di interesse

4.2 INQUADRAMENTO GEOLOGICO-STRUTTURALE

Il contesto geologico-strutturale in cui si inserisce l'area in esame è stato definito mediante consultazione dei seguenti elaborati: note illustrative allegate alla Carta Sismotettonica della Regione Emilia Romagna (scala 1:250.000), unitamente alla Carta Geologica Regionale (scala 1:50.000) .

Dal punto di vista geologico-strutturale la pianura padana presenta, al di sotto della potente coltre sedimentaria quaternaria (riempimento di avanfossa delle catene appenninica e alpina), un complesso sistema di elementi tettonici, indice dei movimenti compressivi in direzione NNE, che a partire dal Terziario (65 Ma) hanno condotto alla formazione della catena appenninica.

Il territorio dell'Emilia-Romagna è costituito dal versante padano dell'Appennino settentrionale e dalla Pianura Padana a sud del Po. Pur essendo due ambienti geomorfologici ben distinguibili, l'Appennino e la Pianura Padana sono strettamente correlati. Il fronte della catena appenninica non coincide con il limite morfologico catena-pianura (margine appenninico-padano) ma è individuabile negli archi esterni delle Pieghe Emiliane e Ferraresi sepolte dai sedimenti quaternari padani. Quindi, il vero fronte appenninico, circa all'altezza del Po, sovrascorre verso nord sulla piattaforma padano-veneta. L'analisi della sismotettonica dell'Emilia-Romagna (**Figura 4.3**) ha messo in evidenza come parte delle strutture individuate da profili sismici che interessano il riempimento sedimentario Plio-Pleistocenico siano caratterizzate da attività molto recente ad attuale. In particolare, risultano attivi i sovrascorrimenti sepolti che danno luogo agli archi di Piacenza-Parma, Reggio Emilia e di Ferrara. A tali strutture possono essere associati i fenomeni di fagliazione superficiale osservati in diverse aree della Pianura Padana. L'analisi morfostrutturale del margine pede-appenninico (effettuata per la realizzazione della Carta Sismotettonica della Regione Emilia-Romagna) evidenzia la distinzione di due settori con caratteristiche morfostrutturali molto diverse a SE e NW della valle del T. Idice, poco ad est di Bologna. Il settore a NW (nel quale è collocata l'area di studio) risulta caratterizzato dall'emersione in più punti del thrust pede-appenninico, evidenziato da morfostrutture tipiche delle strutture attive e dallo sviluppo di ben visibili anticlinali di thrust, come ad esempio le strutture di Salsomaggiore, Viano e Castelvetro di Modena.

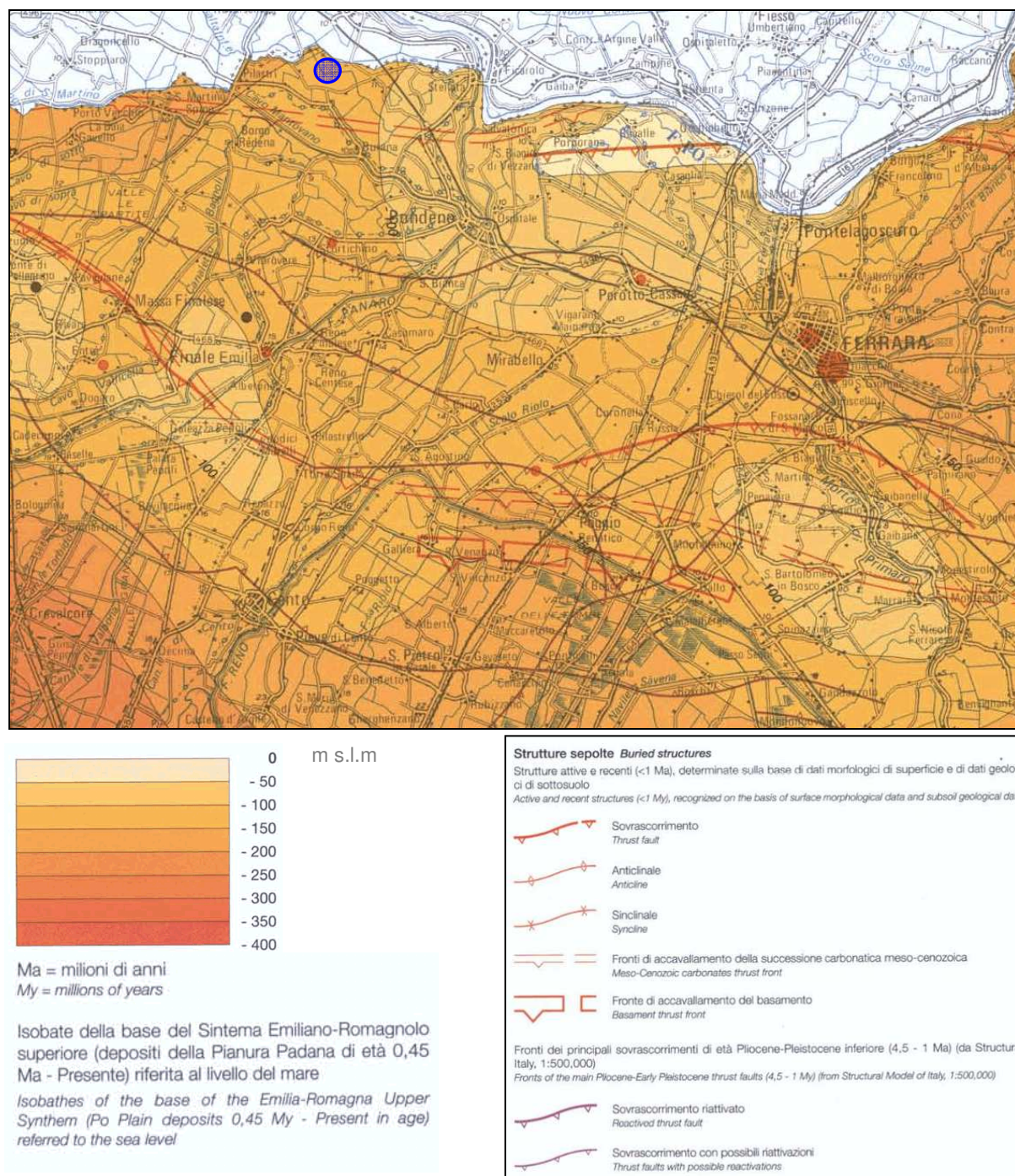


Figura 4.3. Estratto di Carta Sismotettonica della Regione Emilia Romagna indicante i principali elementi strutturali. In blu l'area di intervento (Immagine fuori scala)

Il territorio dell'alto ferrarese si sviluppa piuttosto distante dalle aree in sollevamento, rappresentate dalla catena appenninica (margine pedeappenninico), collocandosi piuttosto in una zona in subsidenza, quella della Pianura Padana. Al di sotto della coltre sedimentaria è possibile dedurre la presenza di elementi tettonici tuttora in attività, quali i sovrascorimenti

5 INQUADRAMENTO GEOMORFOLOGICO

Il contesto geomorfologico in cui si inserisce l'area di intervento è stato definito dalla consultazione di cartografica esistente per ricostruire a livello generale la disposizione degli elementi geomorfologici maggiormente rilevanti e ricavando preliminari informazioni sulle caratteristiche tessiturali dei terreni. Per l'inquadramento geomorfologico generale è stata consultata la Carta Geomorfologica della Pianura Padana scala 1:250.000 (AA. VV.), di cui si riporta uno stralcio comprendente l'area di studio in **Figura 5.1**.

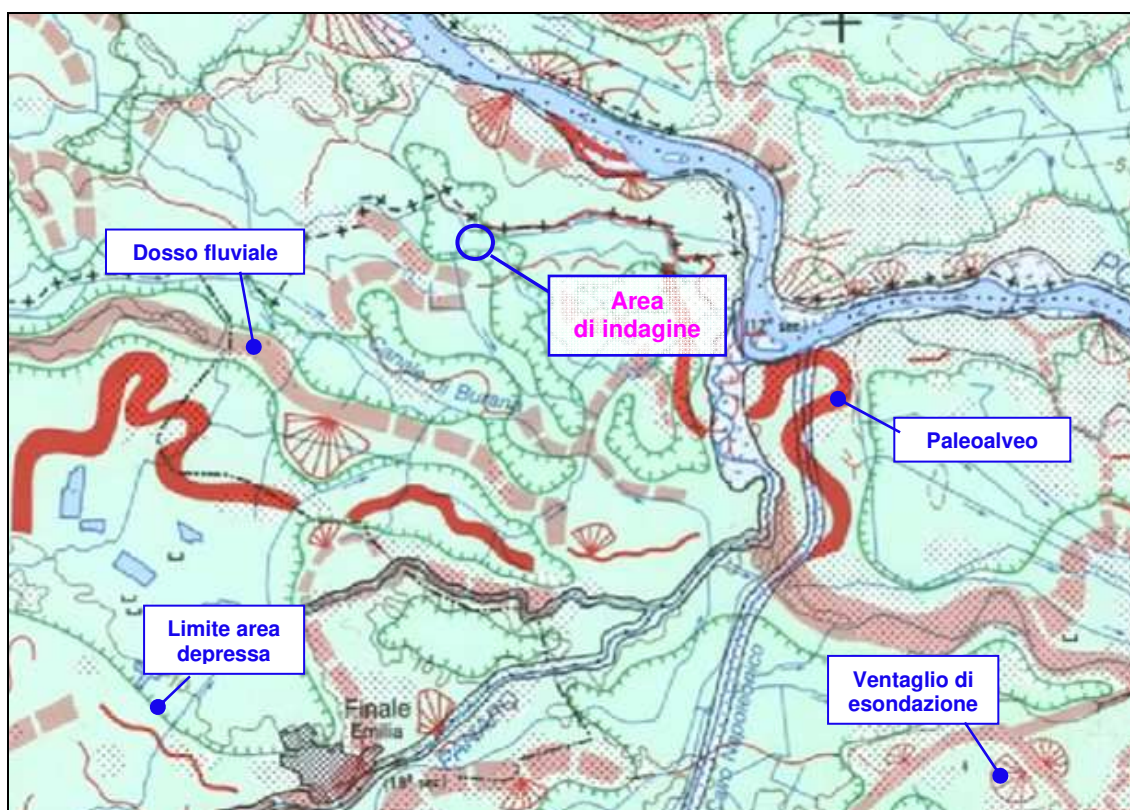


Figura 5.1. Estratto della Carta Geomorfologica della Pianura Padana.
Nel cerchio blu l'area di intervento (Immagine fuori scala)

Come si può notare il settore in cui si colloca l'area di indagine è fortemente caratterizzato dalla presenza di diversi elementi morfologici tipici della pianura alluvionale. In primo luogo i paleoalvei (in rosso) e i dossi fluviali (in rosa), più o meno pronunciati, largamente diffusi a testimoniare la dinamica fluviale storica del Fiume Po (tracciati con direzione prevalente ONO-ESE) e dei suoi affluenti di provenienza appenninica (in particolare del Fiume Panaro), con andamento medio SSO-NNE. Questa porzione di territorio si caratterizza inoltre per la

presenza di diverse aree depresse, più o meno ampie, racchiuse generalmente dai dossi fluviali citati. L'area di interesse si colloca proprio in corrispondenza di una di queste depressioni morfologiche; tali elementi, caratterizzati da bassa energia deposizionale, hanno comportato nel tempo la formazione di sequenze sedimentarie di tessitura argillosa talora organica, che lateralmente, in direzione dei paleoalvei, assume carattere gradualmente limo-sabbioso. Infine è possibile distinguere diversi ventagli di esondazione (con canali distributori generalmente di ridotte dimensioni), formati in occasione di rotte fluviali, associati ai tracciati storici o attuali dei corsi d'acqua citati. La litologia prevalente indicata dalla carta, per la zona di interesse, è di tipo argilloso.

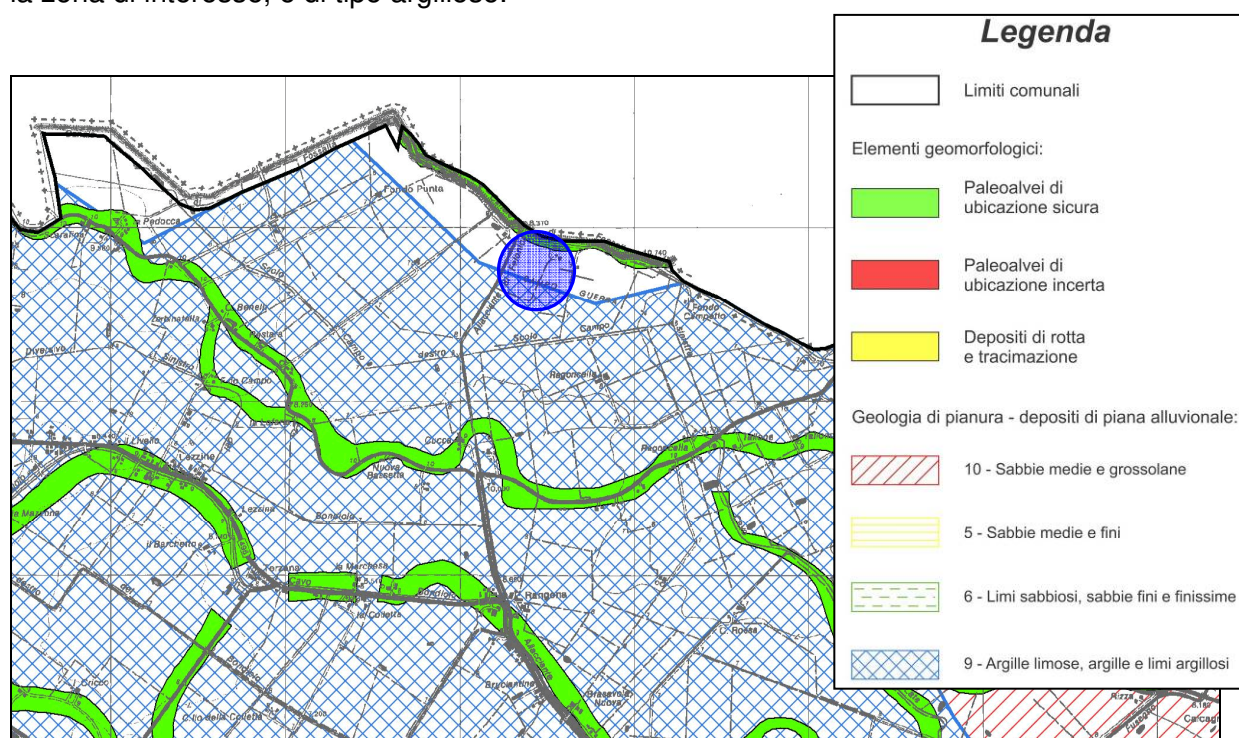


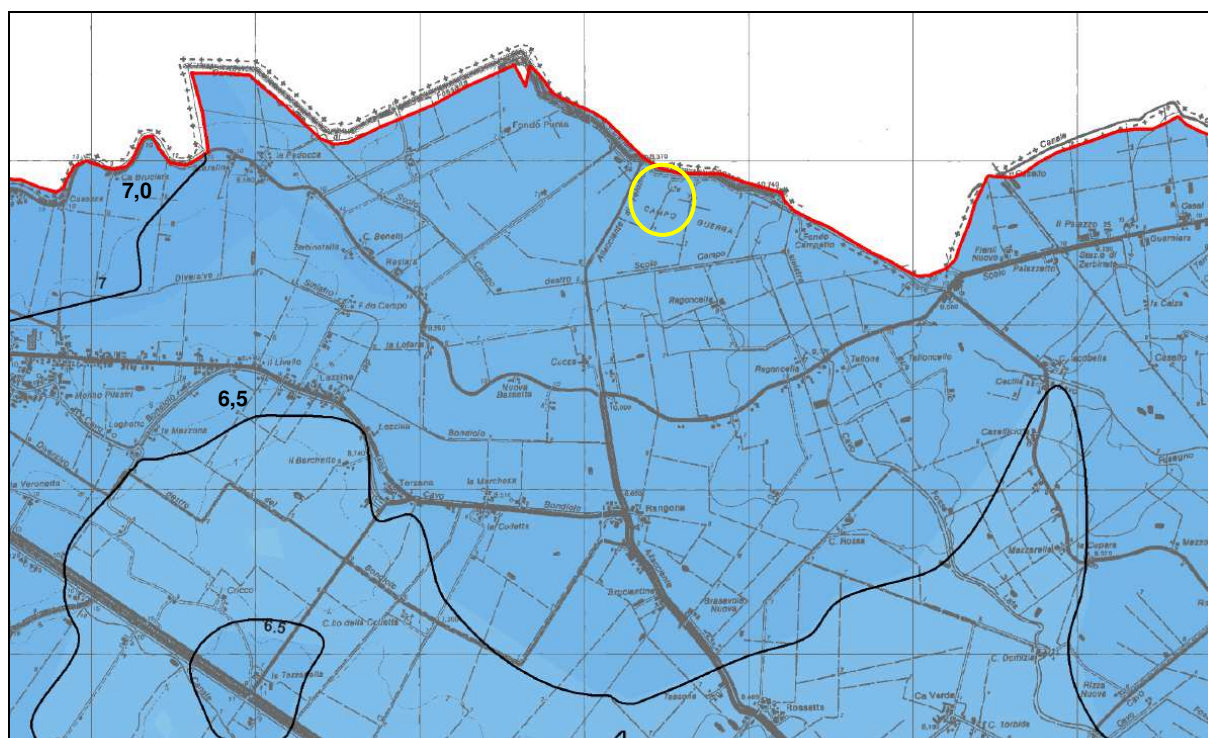
Figura 5.2. Estratto cartografico relativo alla Carta Geomorfologica del Comune di Bondeno; nel cerchio blu è individuata l'area di indagine (Immagine fuori scala)

Nel dettaglio dell'area di intervento si riporta in **Figura 5.2** un estratto di Tavola B2.1 – Carta Geomorfologica (scala 1:40.000, qui riportata fuori scala), riferita al Piano Strutturale Comunale (P.S.C.) del Comune di Bondeno elaborato in forma associata. L'elaborato conferma come l'area di indagine si collochi in corrispondenza di una zona non direttamente interessata da elementi geomorfologici particolari, trovandosi in area interfluviale. La litologia indicata dalla carta è di tipo coesivo (argille limose, argille e limi argillosi).

Si specifica che, nell'ambito dell'intervento in esame, saranno comunque le indagini di dettaglio a fornire indicazioni precise sulla natura litologica e sulla sequenza stratigrafica del sottosuolo.

6 INQUADRAMENTO IDROGEOLOGICO

Per l'inquadramento idrogeologico generale si è fatto riferimento alla cartografia del PSC elaborato in forma associata, ed in particolare alla carta della superficie freatica (Tavola B2.13) del Quadro Conoscitivo, di cui si riporta un estratto in **Figura 6.1**.



*Figura 6.1. Estratto di Carta della superficie freatica (Tavola B2.13) del Q.C. del PSC.
Nel cerchio giallo l'area di interesse*

Come è possibile notare la porzione nord-occidentale del territorio comunale di Bondeno è caratterizzata (nel limite del numero dei punti di misura esistenti e utilizzati per l'elaborazione) da una tavola d'acqua pressoché tabulare, con direzione locale orientativa NO-SE e gradiente massimo dell'ordine di 0,0005. La quota della tavola d'acqua, nell'intorno della zona di studio, si attesta intorno ai 6,5 m s.l.m.m. (misura indicativa, il dettaglio della tavola non consente un'indicazione più precisa).

Per quanto riguarda il terreno tra il livello di falda più superficiale e il piano fondale delle strutture di progetto occorre considerare in particolar modo anche la conducibilità idraulica, funzione della natura tessiturale del terreno medesimo.

La Determinazione di Assemblea Legislativa n°96 del 16/01/07 della Regione Emilia-Romagna indica, all'art.12, i requisiti costruttivi dei contenitori di stoccaggio dei liquami ed

assimilati. In particolare il comma 1 rimanda all'Allegato 3 "Requisiti tecnici e di salvaguardia ambientale dei contenitori per lo stoccaggio e la maturazione dei liquami e dei letami provenienti dagli allevamenti zootecnici", mentre il comma 4 ricorda che le pareti e il fondo dei contenitori devono essere impermeabilizzati mediante materiale naturale o artificiale al fine di evitare percolazioni o dispersioni degli effluenti. Di seguito si riporta, per il citato Allegato 3, il punto 3 del capitolo A.

3) il fondo del contenitore dei liquami dovrà trovarsi al di sopra del tetto del corpo acquifero in condizioni tali da evitare rischi di inquinamento dello stesso;

A tal proposito si è quindi verificata la capacità del terreno superficiale di favorire il percolamento dei reflui zootecnici si è fatta riferimento ai valori di permeabilità ricavati indirettamente dalle CPTU, attraverso la formula di seguito riportata (*Piacentini-Righi, 1988*).

$$k\left(\frac{m}{s}\right) = 10^{-\left(\frac{165}{fr} + \frac{160qc}{fr^{3.5}}\right)}$$

Come dai tabulati allegati (**Allegato 1**) i valori di conducibilità idraulica risultanti sono dell'ordine di $10^{-7} \div 10^{-9}$ m/s), che, come indicato in **Figura 6.2**, risulta comunque associato a terreni con drenaggio piuttosto ridotto, associato a terreni prevalentemente coesivi.

k (m/s)	1	10^{-1}	10^{-2}	10^{-3}	10^{-4}	10^{-5}	10^{-6}	10^{-7}	10^{-8}	10^{-9}	10^{-10}	10^{-11}
<i>Drenaggio</i>	buono					povero				praticamente impermeabile		
	ghiaia pulita	sabbia pulita e miscele di sabbia e ghiaia pulita				sabbia fine, limi organici e inorganici, miscele di sabbia, limo e argilla, depositi di argilla stratificati				terreni impermeabili, argille omogenee sotto la zona alterata dagli agenti atmosferici		

Figura 6.2. Tabella dei valori del coefficiente di permeabilità K per vari terreni (Casagrande e Fadum, 1940).

Pertanto si ritiene che la natura del terreno compreso tra la base delle fondazioni e il massimo livello di falda rappresenti una naturale barriera idrogeologica per la salvaguardia dell'acquifero superficiale, **tuttavia si ritiene necessario, come da progetto impermeabilizzare adeguatamente tutte le porzioni interrate delle strutture in progetto.**

7 INQUADRAMENTO SISMICO

7.1 INQUADRAMENTO SISMICO GENERALE

In **Figura 7.1** si riporta stralcio della zonazione sismogenetica ZS9, realizzata dall'Istituto Nazionale di Geofisica e Vulcanologia -- Gruppo di Lavoro per la redazione della mappa di pericolosità sismica.

Tale cartografia individua, per tutto il territorio nazionale, diversi settori con caratteri comuni in termini di sorgenti sismogenetiche, sismicità storica e strumentale. Il comune di Bondeno, e dunque la zona di interesse, ricade all'interno della zona 912 (denominata "Dorsale Ferrarese"), quasi al confine con la zona grigia non interessata da evidenze sismogenetiche.

In **Figura 7.2** si riporta un dettaglio della distribuzione delle sorgenti sismogenetiche individuali, estratto dal database DISS (Database of Individual Seismogenic Sources), versione 3.2.1; la cartografia tematica proposta evidenzia le sorgenti sismogenetiche individuali e composite e le sorgenti macrosismiche. In particolare si nota come l'area di interesse, si collochi ai margini di una delle principali evidenze sismogenetiche. Si tratta della sorgente sismogenetica ITCS050 Poggio Rusco - Migliarino, che viene di seguito descritta in **Figura 7.3**.

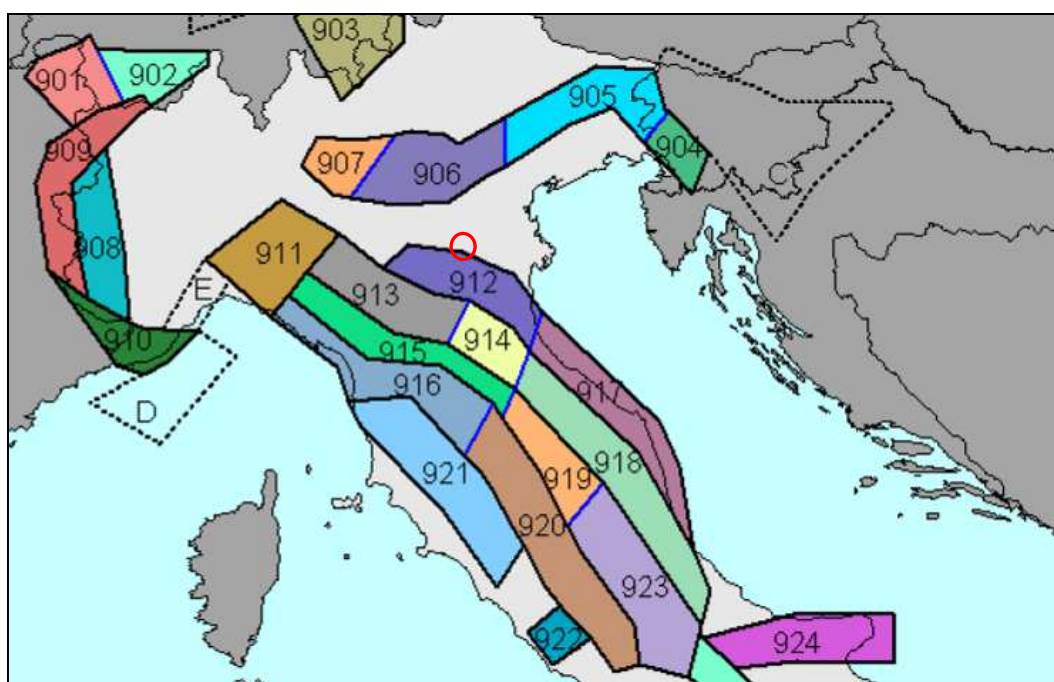


Figura 7.1. Zonazione sismogenetica ZS9 (da INGV). Nel cerchio rosso l'area di indagine

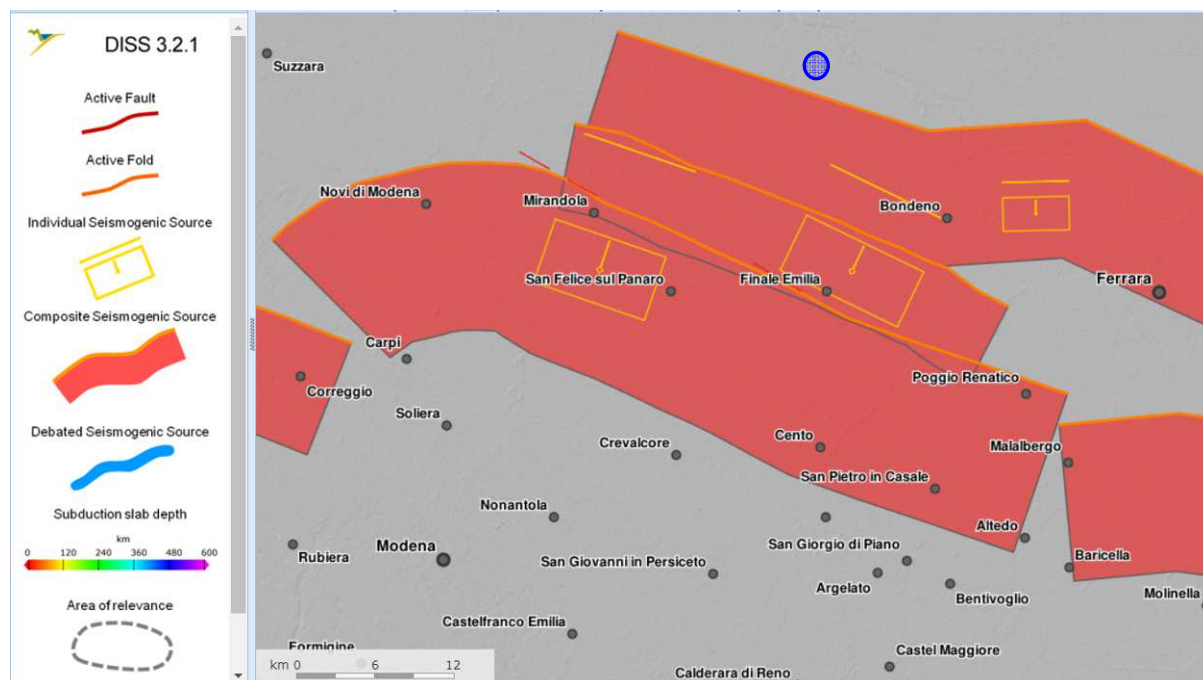




Figura 7.2. Sorgenti sismogenetiche da database DISS versione 3.2.1. Nel cerchio blu l'area di interesse.

GENERAL INFORMATION

DISS-ID	ITCS050
Name	Poggio Rusco-Migliarino
Compiler(s)	Burrato P.(1)
Contributor(s)	Burrato P.(1), D'Ambrogio C.(2), Maesano F.E.(1), Toscani G.(3)
Affiliation(s)	1) Istituto Nazionale di Geofisica e Vulcanologia; Sismologia e Tettonofisica; Via di Vigna Murata, 605, 00143 Roma, Italy 2) Istituto superiore per la protezione e la ricerca ambientale; Servizio Geologico d'Italia; Via Vitaliano Brancati, 48, 00144 Roma, Italy 3) Universit� di Pavia; Dipartimento di Scienze della Terra e dell'Ambiente; Via Ferrara, 1, 27100 Pavia, Italy
Created	08-Jan-2005
Updated	16-Oct-2013
Display map ...	 
Related sources	ITIS090

PARAMETRIC INFORMATION

PARAMETER	QUALITY	EVIDENCE
Min depth [km]	1.0	OD
Max depth [km]	8.0	OD
Strike [deg] min... max	85...115	OD
Dip [deg] min... max	25...55	OD
Rake [deg] min... max	80...100	OD
Slip Rate [mm/y] min... max	0.39...0.45	OD
Max Magnitude [Mw]	5.5	OD

LD=LITERATURE DATA; OD=ORIGINAL DATA; ER=EMPIRICAL RELATIONSHIP; AR=ANALYTICAL RELATIONSHIP; EJ=EXPERT JUDGEMENT;

ACTIVE FAULTS

ACTIVE FOLDS

Figura 7.3. caratteristiche sorgente sismogenetica relativa all'area di intervento.

Per quanto riguarda la tipologia prevalente di fagliazione, nella zona 912 è individuabile un meccanismo di tipo inverso (quindi compressivo).

In **Figura 7.4** si riporta uno stralcio cartografico che mostra la distribuzione delle sorgenti sismogenetiche presenti nel database DISS 2.0 (*Database of Potential Sources for Earthquake larger than M 5,5 in Italy*, Valensise e Pantosti, 2001).

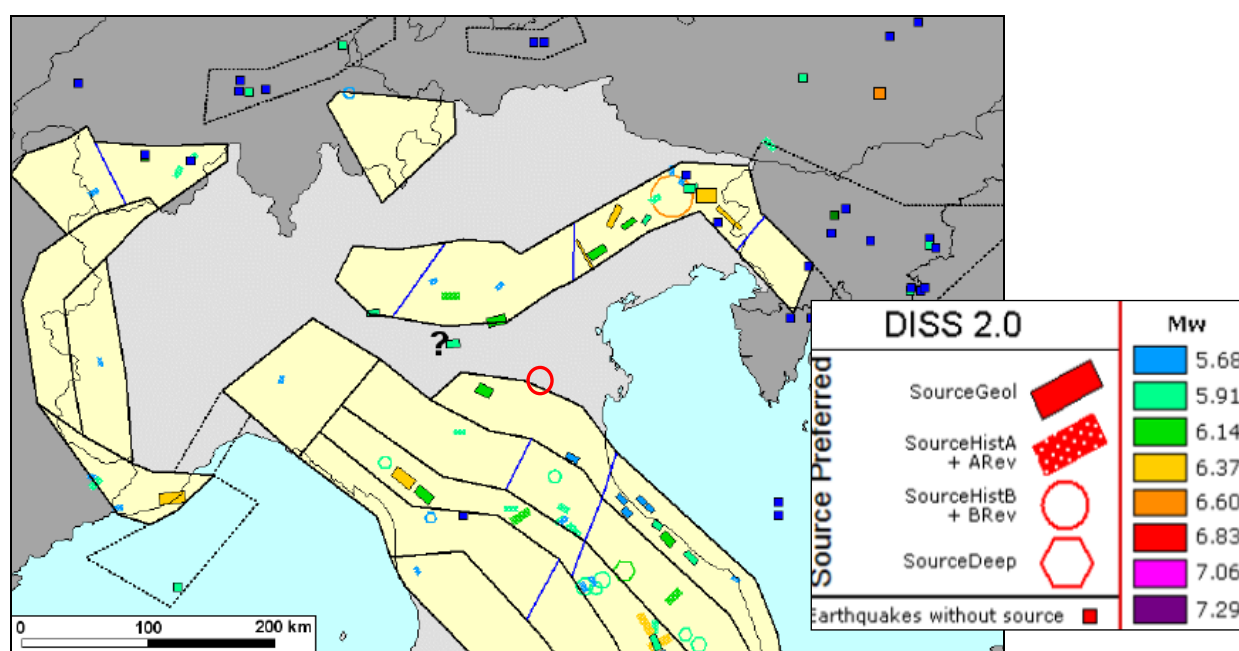


Figura 7.4. Zonazione sismogenetica ZS9 in relazione alla distribuzione delle sorgenti sismogenetiche contenute nel database DISS 2.0. nel cerchio rosso la zona indagata.

L'aspetto più interessante ai fini progettuali dedotto da tale cartografia è la magnitudo momento (Mw) di riferimento, che viene indicata nella tabella seguente, per la zona sismogenetica e per la sorgente sismogenetica che includono il territorio comunale di Bondeno. Tale parametro troverà applicazione in particolare nell'ambito della verifica a liquefazione.

MAGNITUDO DI RIFERIMENTO	
Zona/sorgente sismogenetica	Mw
Zona 912	6,14
Sorgente ITCS050	5,50

In vi cautelativa verrà utilizzato il valore Mw = 6,14.

7.2 INQUADRAMENTO SISMICO DI DETTAGLIO

A seguito degli eventi sismici che hanno interessato la Pianura Padana il 20 ed il 29 maggio 2012 è stata emessa un'Ordinanza del Commissario delegato per la ricostruzione n° 70 del 13/11/2012, nella quale sono pubblicate le "Mappe delle Microzone Omogenee in Prospettiva Sismica dei 17 Comuni con IMCS ≥ 6 ".

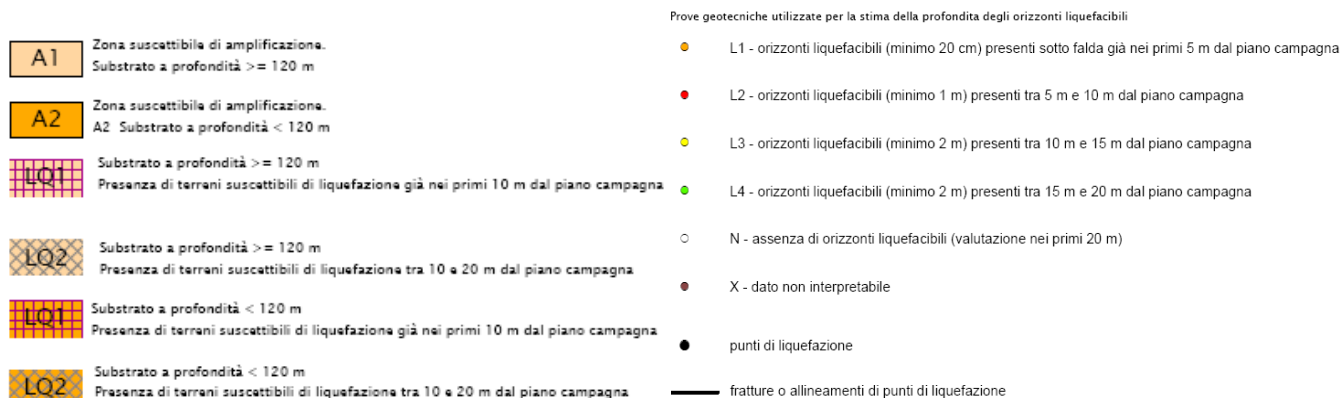
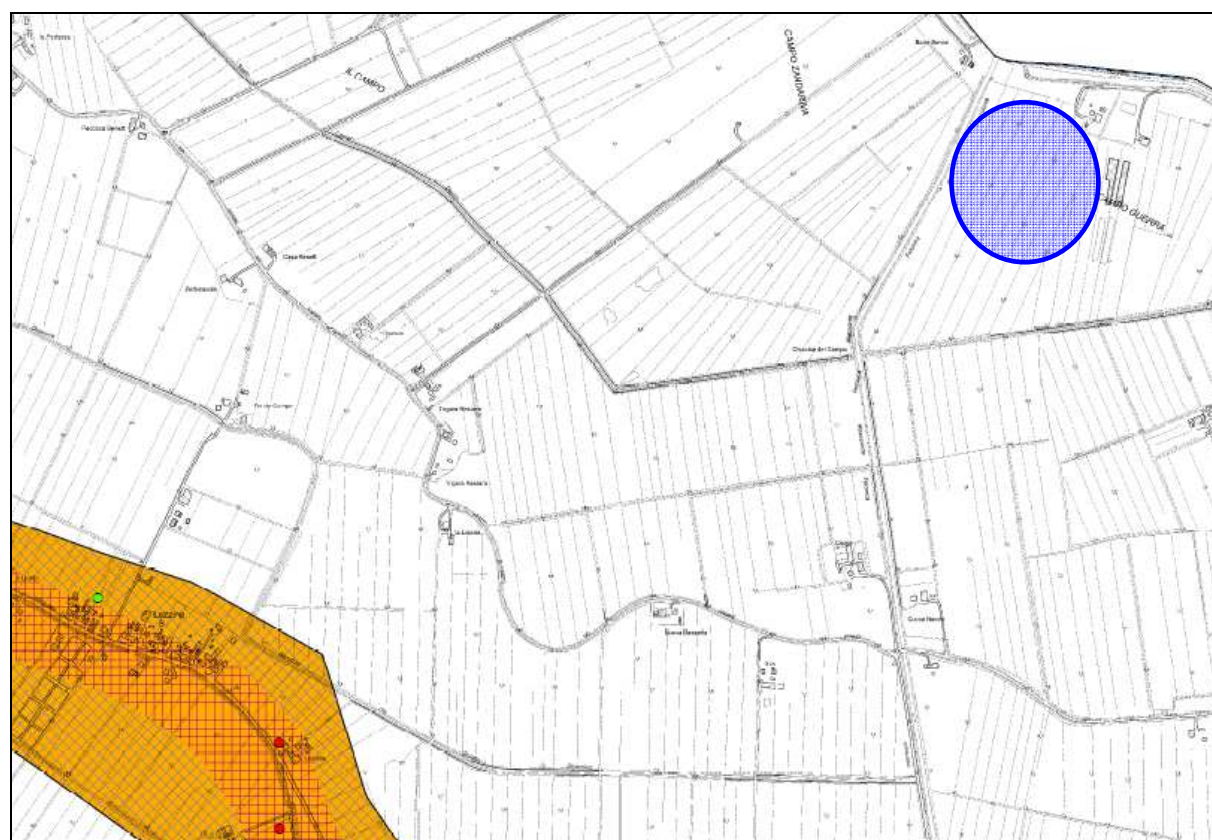


Figura 7.4. Estratto cartografico relativo alle Mappe delle Microzone Omogenee in Prospettiva Sismica dei 17 Comuni con IMCS ≥ 6 , con individuazione, in blu, dell'area di indagine

In queste mappe sono individuate le aree suscettibili di amplificazione e quelle in cui si ritiene necessario verificare la presenza di condizioni predisponenti la liquefazione e costituiscono la base per la programmazione delle indagini di approfondimento.

Nelle mappe proposte (aggiornamento del 14.10.13) si riportano riporta alcune informazioni aggiuntive rispetto alla precedente versione, tra cui la profondità del substrato sismico e, per le sole zone di classe L, la profondità indicativa (suddivisa in classi) degli strati potenzialmente liquefacibili; inoltre sono classificate le prove penetrometriche del database geognostico regionale e sono ubicate le zone dove è stato osservato il fenomeno della liquefazione durante gli eventi sismici del maggio 2012; la nuova cartografia inoltre oscura le informazioni nelle aree esterne ai centri abitati principali. Ai fini della progettazione (NTC08) nelle aree in cui è confermata la presenza di condizioni predisponenti la liquefazione (ex categoria di sottosuolo S2) non è ammessa la definizione dell'azione sismica tramite l'approccio semplificato (punto 3.2.2 NTC08).

In **Figura 7.4** si riporta l'estratto della mappa (BONDENO 1) al cui interno ricade l'area di intervento. Si osserva come l'area di studio possa essere associata, pur non essendo direttamente mappata, alle aree potenzialmente suscettibili di liquefazione, indicate con "LQ1" e "LQ2", ad indicare, rispettivamente, presenza di terreni liquefacibili già nei primi 10 m da p.c.. e tra 10 m e 20 m da p.c.. Un'ulteriore informazione dedotta è la profondità del substrato sismico, che viene indicata a profondità inferiori ai 120 m.

Pertanto, per testare la potenziale criticità dei depositi intercettati è stata effettuata una preventiva verifica a liquefazione (utilizzando cautelativamente la massima magnitudo regionale e un livello di falda pari a 1 m da p.c.), così come illustrato nel dettaglio al capitolo 19; dal momento che, nelle citate condizioni di calcolo, il rischio a liquefazione risulta basso, si ritiene di poter procedere ad una caratterizzazione sismica di 2° livello di approfondimento.

8 PIANO DELLE INDAGINI IN SITO EFFETTUATE

Per la caratterizzazione della zona di studio è stato predisposto e realizzato il seguente piano di indagini:

- ☑ n°3 prove penetrometriche statiche con punta elettrica e piezocono, nominate CPTU 1, CPTU 2 e CPTU 5, spinte alla profondità di 15,0 m da p.c.
- ☑ n°2 prove penetrometriche statiche con punta elettrica e piezocono, nominate CPTU 3 e CPTU 4, spinte alla profondità di 30,0 m da p.c.
- ☑ n°2 prove sismiche attive di tipo MASW
- ☑ n°2 prove sismiche passive di tipo HVSR

In **Figura 8.1** si riporta estratto di planimetria di progetto con ubicazione delle prove eseguite.

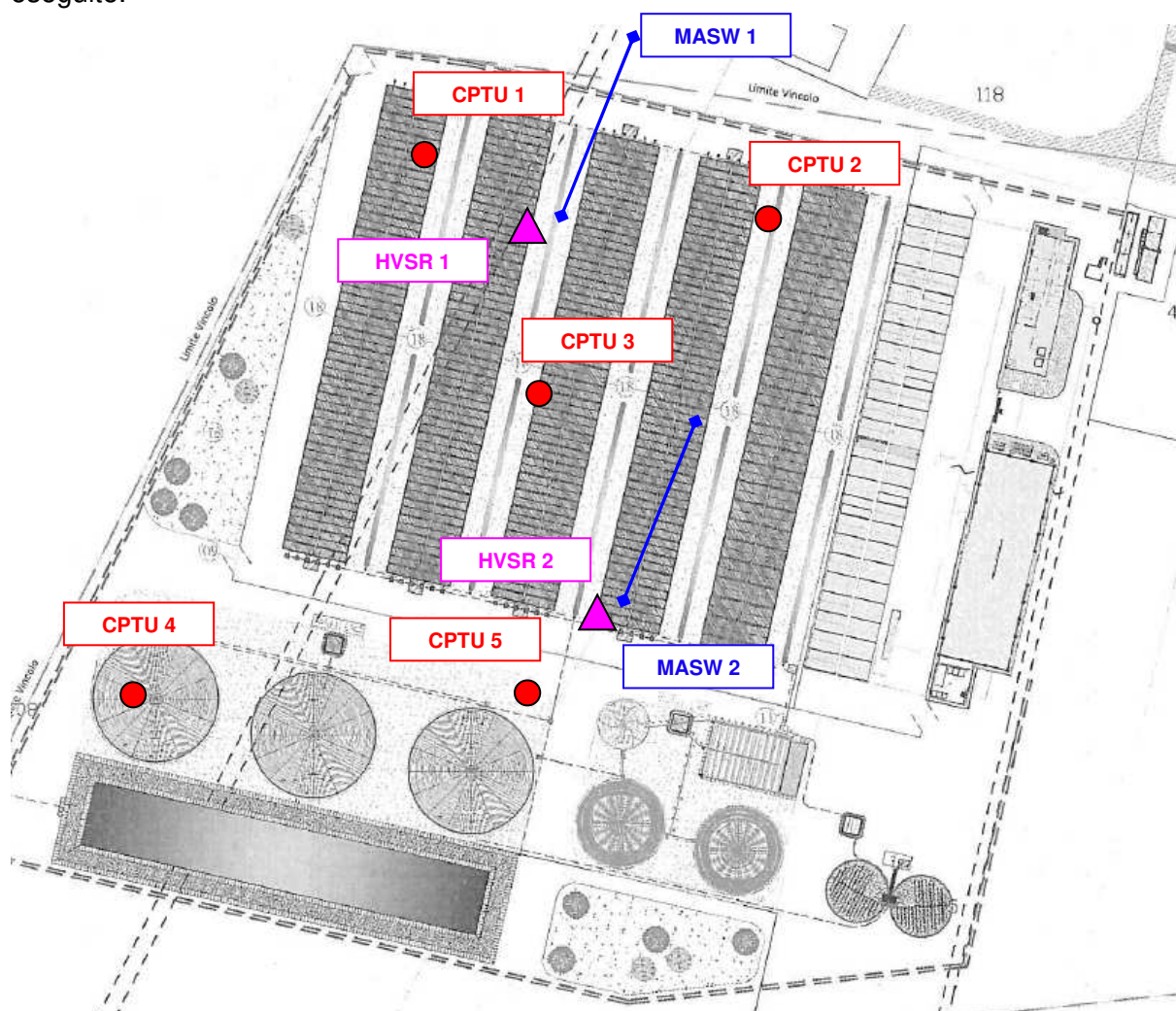


Figura 8.1. Ubicazione indagini geognostiche eseguite

Di seguito, in **Figura 8.2**, **Figura 8.3**, **Figura 8.4** e **Figura 8.5** si riporta documentazione fotografica relativa all'esecuzione delle indagini geognostiche eseguite.



*Figura 8.2. Da sinistra a destra e dall'alto in basso.
Esecuzione prova CPTU 1, CPTU 2, CPTU 3 e CPTU 4*



Figura 8.3. Esecuzione prova CPTU 5, CPTU 3 e prove sismiche MASW e HVSR



Figura 8.4. Esecuzione prove sismiche: MASW 1 (sinistra) e HVSR 1 (destra)



*Figura 8.5. Esecuzione prove sismiche:
MASW 2 (sinistra) e HVSR 2 (destra)*

Le prove eseguite, ubicate come in **Figura 8.1**, risultano essere sufficientemente profonde per l'indagine di un volume significativo di sottosuolo interessato dalle fondazioni di progetto.

9 PROCEDURE DI RIFERIMENTO SUI DATI ACQUISITI

Le prove penetrometriche statiche sono state eseguite mediante penetrometro meccanico Pagani TG63-200 (con attrezzatura di spinta ancorata da 20 ton), con punta elettrica e piezocono Pagani Mkj608 e sistema di acquisizione dati TGAS08,. I vari parametri di prova sono stati acquisiti direttamente dai sensori della punta, ogni 1 cm di avanzamento.

La prova pentrometrica statica in generale trova applicazione per:

- rilevare l'andamento stratigrafico lungo la verticale
- individuare i tipi di terreno attraversati
- interpolare l'andamento degli strati fra verticali di sondaggio
- misurare la pressione interstiziale (solo CPTU)

I parametri desunti possono essere utilizzati con affidabilità per valutare:

- l'angolo di attrito e la compressibilità drenata dei terreni granulari
- la resistenza al taglio non drenata dei terreni coesivi.

Meno attendibile risulta la valutazione dei parametri di compressibilità drenata e non dei terreni coesivi. Da notare che la procedura di riferimento indica l'espressione di q_c e f_s in Pa, kPa o MPa; per una migliore comprensione dei dati si è preferito esprimere i parametri anche in kg/cm^2 .

10 ELABORAZIONE DEI DATI

Nelle tabelle e diagrammi allegati sono riportati tutti i parametri geotecnici elaborati dai dati ottenuti dalle prove CPTU effettuate (**Allegato 1**). In particolare, nei diagrammi sono graficati i valori di resistenza alla punta R_p e resistenza laterale locale R_f , rilevati ad ogni 1 cm. Questi valori sono stati ricavati direttamente dalla punta elettrica.

La diretta correlazione tra il rapporto $F = R_p/R_f$ e la granulometria dei terreni attraversati (secondo Begemann, 1965 e secondo Schmertmann; Raccomandazioni A.G.I. 1977), rende possibile caratterizzare la natura dei terreni differenziandoli a seconda della tessitura.

Negli allegati vengono riportati, tra gli altri, i seguenti parametri:

- valutazione litologica secondo Robertson (1983) ottenuta in base all'analisi dei valori di R_p e del rapporto R_f/R_p %.
- il peso per unità di volume γ' (t/m^3), ottenuta dalla relazione esistente tra la densità del terreno e la sua resistenza ad essere attraversato dalla punta;
- la tensione verticale geostatica efficace σ'_{vo} , espressa come

$$\sigma'_{vo} = 1,85 \times z_1 + 0,20 \times \sum \gamma' i$$

dove z_1 è uguale alla profondità media della falda;

- la coesione non drenata C_u (Kg/cm^2) (per i terreni di natura coesiva) ottenuto dal rapporto " $C_u = R_p/a$ " (da Sanglerat, 1972) dove " a " è un coefficiente dipendente dalla natura del terreno, e quindi da R_p ;
- l'angolo di attrito interno efficace F (per i terreni di natura granulare), anch'esso correlato alla R_p (De Beer);
- il coefficiente di compressibilità di volume M_v

Il coefficiente di compressibilità M_v viene definito come:

$$M_v = 1/R_p \times a$$

dove il coefficiente “a” è direttamente dipendente da R_p .

11 MODELLO STRATIGRAFICO E GEOTECNICO DEL SITO

Di seguito verranno illustrate le caratteristiche geologiche e geotecniche dei vari settori oggetto di intervento, vale a dire “Area stalle”, “Area impianto nitro-denitro” e “Area Vasche”. Le indicazioni tessiturali di dettaglio e parametri geotecnici e dei singoli livelli individuati nelle singole prove vengono riportati in **Allegato 1**.

MODELLO GEOLOGICO E GEOTECNICO DELL'AREA VASCHE LIQUAME					
Profondità (m-m)	Litologia	γ (t/mc)	γ_{sat} (t/mc)	c_u media (kPa)	ϕ (°)
0,0-1,8	Argille	1,80	1,88	36	-
1,8-4,1	Limi e limi sabbiosi	1,80	2,10	74	24
4,1-6,0	Limi argilloso-sabbiosi	1,70	1,78	23	20
	passanti a Sabbie	1,90	2,20	-	33
6,0-22,8	Sabbie	1,90	2,20	-	31
22,8-30,0	Limi e limi sabbiosi	1,93	2,01	92	20

MODELLO GEOLOGICO E GEOTECNICO DELL'AREA IMPIANTO NITRO-DENITRO					
Profondità (m-m)	Litologia	γ (t/mc)	γ_{sat} (t/mc)	c_u media (kPa)	ϕ (°)
0,0-4,2	Argille	1,82	1,90	37	-
4,2-5,8	Limi argillosi e limi sabbiosi	1,87	1,95	66	25
5,8-9,9	Sabbie	1,90	2,20	-	31
9,9-20,0	Sabbie	1,90	2,20	-	32

MODELLO GEOLOGICO E GEOTECNICO DELL'AREA STALLE					
Profondità (m-m)	Litologia	γ (t/mc)	γ_{sat} (t/mc)	c_u media (kPa)	ϕ (°)
0,0-2,0	Argille, localmente organiche	1,74	1,82	25	-
2,0-4,4	Limi argillosi e limi sabbiosi	1,83	1,91	44	25
4,4-21,9	Sabbie	1,90	2,20	-	31
21,9-30,0	Limi e limi sabbiosi	1,92	2,00	92	19

Il **modello stratigrafico generico**, ricostruito con l'elaborazione delle indagini geognostiche eseguite, segnala quindi la presenza di depositi prevalentemente limo-argillosi superficialmente, entro i primi 5-6 m da p.c.. Oltre tale profondità vengono intercettati depositi prevalentemente sabbiosi fino alla massima profondità media di 22 m da p.c.. Oltre tale profondità si intercettano depositi limosi e limo-sabbiosi fino alla massima profondità indagata.

Il livello statico della falda freatica rilevato al termine delle prove nei fori di indagine è risultato pari al **valore medio di 1,87 m da p.c. locale**. Occorre specificare che sono comunque possibili variazioni stagionali del livello della falda e conseguentemente della frangia capillare ad esso associata, come già trattato nelle considerazioni idrogeologiche di dettaglio.

Dal punto di vista **geotecnico** dall'analisi condotta emerge un terreno composto nel complesso da depositi a comportamento geomeccanico coesivo o misto (attritivo/coesivo) superficialmente, entro i primi 5-6 m da p.c., per poi passare in maniera piuttosto netta a depositi a comportamento meccanico attritivo fino a circa 22 m da p.c. Oltre tale profondità si intercettano depositi a comportamento misto, nettamente meno addensati rispetto al banco sabbioso sovrastante. I depositi coesivi presentano grado di consistenza medio-bassa, con valori di c_u variabili da 23 kPa a oltre 50 kPa. Il grado di addensamento dei depositi prevalentemente incoerenti risulta medio-basso, con valori variabili dal 8% al 67% (espresso in termini di densità relativa). Si precisa infine che in questa fase vengono forniti i parametri medi, mentre in fase di calcolo verranno utilizzati i parametri caratteristici degli strati interessati dal cuneo di rottura potenziale.

12 SCELTA E DIMENSIONAMENTO DELLE OPERE FONDALI

Il terreno indagato può risultare idoneo alla realizzazione di fondazioni superficiali, quali platee e travi continue di progetto (**Figura 12.1**), purché le pressioni trasmesse risultino compatibili con la capacità portante dell'insieme manufatto-terreno e che le deformazioni attese risultino comprese nel range dell'ammissibilità per le singole strutture.

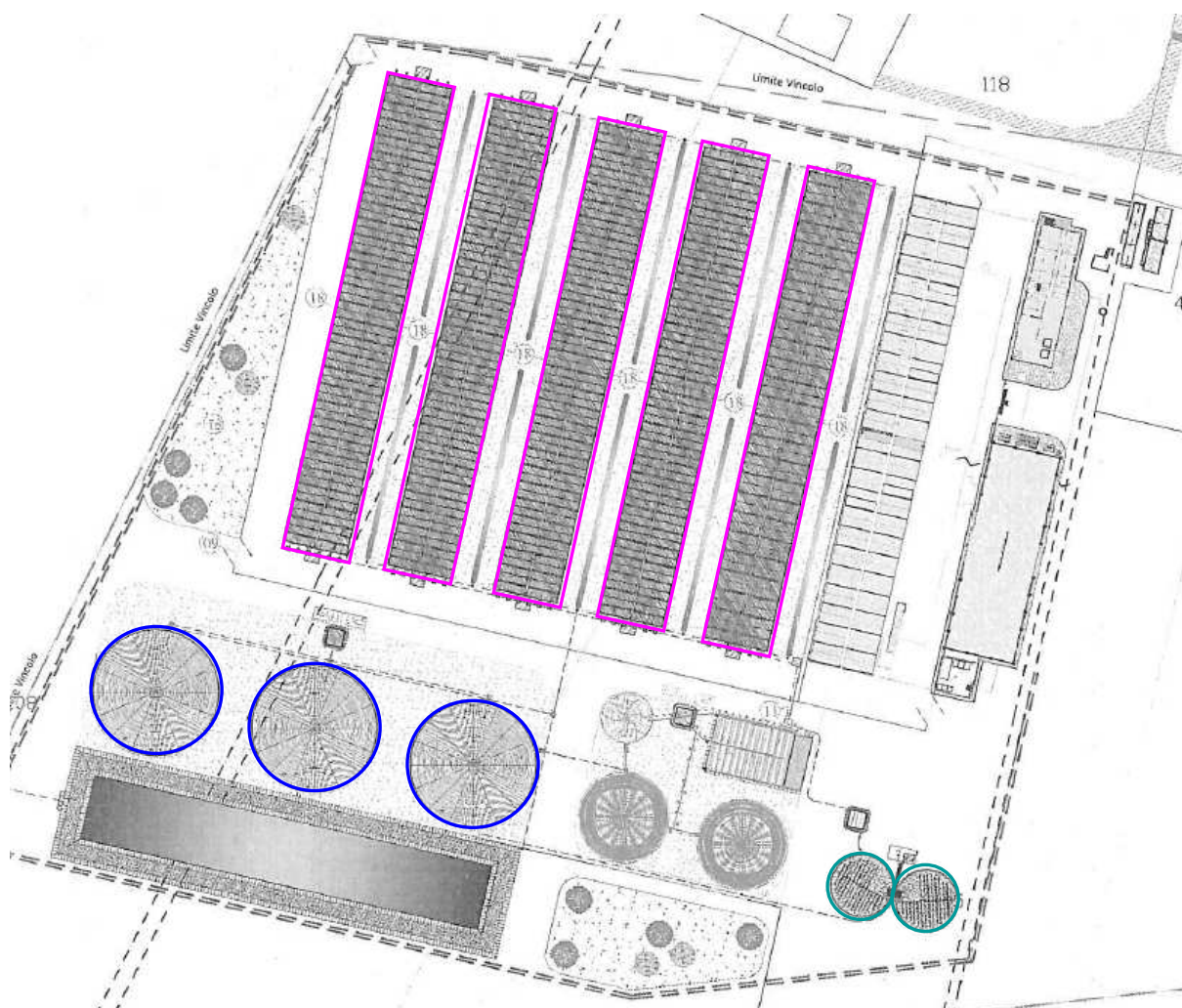


Figura 12.1. Pianta progettuale con indicazione delle strutture principali dell'impianto

Verranno pertanto considerate fondazioni con il seguente dimensionamento, relative agli elementi più rilevanti dell'impianto:

GEOMETRIA APPARATO FONDALE					
ELEMENTO IMPIANTO	FONDAZIONE	DIAMETRO (m)	B o B' (m)	L o L' (m)	D (m da p.c.)
VASCA LIQUAME	Platea	36,35	32,2	32,2	1,3
VASCA NITRO-DENITRO	Platea	19,20	17,0	17,0	2,3
STALLA	Trave continua	-	1,5	∞ (convenzione)	0,8

Per le platee circolari delle vasche B' e L' rappresentano rispettivamente la larghezza e la lunghezza equivalente, ovvero il dimensionamento di una platea quadrata di area pari a quella circolare.

Tali parametri vengono usualmente impiegati in fase di calcolo della capacità portante per valutare innanzitutto l'intervallo stratigrafico di imposta del cuneo di rottura ed in secondo luogo i fattori di forma e profondità delle fondazioni. Inoltre la geometria di fondazione risulta vincolante nell'analisi di deformabilità del sistema, poiché da essa dipende la profondità di influenza dei bulbi di tensione e di conseguenza l'attenuazione delle pressioni nel sottosuolo.

13 PRINCIPI DELLE NTC 18

Le disposizioni formulate nell'Eurocodice 7 (UNI EN 1997-1:2005 e UNI EN 1997-2:2007) costituiscono le basi concettuali per la formulazione delle NTC 2008 e per il loro recente aggiornamento (NTC2018), nella sezione dedicata alla progettazione geotecnica (Capitolo 6 delle NTC). In particolare vengono definiti gli stati limite di un sistema geotecnico (Stato Limite Ultimo **SLU** e Stato Limite di Esercizio **SLE**) e le verifiche di sicurezza e delle prestazioni nei confronti di questi. Le verifiche vengono effettuate secondo un metodo semiprobabilistico basato essenzialmente su:

- ☑ Scelta idonea del valore di ciascuna variabile in gioco nel modello geotecnico proposto (valore caratteristico);
- ☑ Applicazione del metodo dei coefficienti parziali, i quali devono essere ripartiti con criterio e consapevolezza sulla base dell'esperienza e dell'osservazione del contesto reale di inserimento del progetto.

Traducendo il tutto in termini matematici il metodo semiprobabilistico si basa sulla seguente disequazione fondamentale:

$$E_d \leq R_d$$

dove:

E_d: valore di progetto dell'azione o dell'effetto dell'azione;

R_d: resistenza del sistema geotecnico.

Sostanzialmente la sicurezza è garantita solo quando la resistenza del sistema è maggiore della sommatoria delle azioni che agiscono su questo. Ne deriva che ad influenzare in maniera inequivocabile la stabilità del sistema sono:

- ☑ Entità delle azioni (permanenti, variabili, accidentali e sismiche)
- ☑ Parametri geotecnici del terreno
- ☑ Resistenza a rottura del sistema

Si ricorda inoltre che:

$$E_d = E [\gamma_F F_K ; X_K / \gamma_M ; a_d]$$

$$R_d = R / \gamma_R [\gamma_F F_K ; X_K / \gamma_M ; a_d]$$

Ovvero l'effetto delle azioni e le resistenze sono espresse in funzione delle azioni di progetto $\gamma_F F_k$, dei parametri di progetto X_k/γ_M e della geometria di progetto a_d .

Per quanto riguarda la scelta dei parametri rappresentativi del sistema occorre fare riferimento al valore caratteristico, cioè una “*stima cautelativa del parametro che influenza l'insorgere dello stato limite*”. A seconda della variabilità dello stesso parametro, sarà possibile inserire o la media dell'insieme di valori del parametro calcolati (se la stima è molto precisa) o il valore per il quale, nella distribuzione gaussiana dei valori determinati, vi è una probabilità del 5% di ottenere un valore “peggiore” (se la stima è imprecisa).

I valori caratteristici così determinati subiscono una correzione attraverso i coefficienti parziali, da combinare a seconda dell'approccio analitico che si intende utilizzare.

I coefficienti parziali da utilizzare nelle verifiche allo stato limite ultimo vengono riportati nelle Tabelle inserite nelle NTC e di seguito riproposte.

Tabella 6.2.I. NTC18: Coefficienti parziali per le azioni o per gli effetti delle azioni

CARICHI	EFFETTO	COEFF. PARZIALE γ_F (o γ_E)	EQU	(A1)	(A2)
Permanenti	Favorevole	γ_{G1}	0,9	1,0	1,0
	Sfavorevole		1,1	1,3	1,0
Permanenti non strutturali	Favorevole	γ_{G2}	0,8	0,8	0,8
	Sfavorevole		1,5	1,5	1,3
Variabili	Favorevole	γ_{Qi}	0,0	0,0	0,0
	Sfavorevole		1,5	1,5	1,3

Nota: le azioni variabili secondarie vanno inoltre corrette tramite fattore ψ di durata.

Tabella 6.2.II. NTC18: Coefficienti parziali per i parametri geotecnici del terreno

PARAMETRO	GRANDEZZA A CUI APPLICARE IL COEFF. PARZIALE	COEFF. PARZIALE γ_M	(M1)	(M2)
tg all'angolo di resist. al taglio	$\tan \varphi'_k$	$\gamma_{\varphi'}$	1,0	1,25
Coesione efficace	c'_k	$\gamma_{c'}$	1,0	1,25
Resistenza non drenata	c_{uk}	γ_{cu}	1,0	1,4
Peso unità di volume	γ	γ_Y	1,0	1,0

Tabella 6.4.I. NTC18: Coefficienti parziali per le verifiche agli SLU di fondazioni superficiali

VERIFICA	COEFF. PARZIALE (R3)
Capacità portante	$\gamma_R = 2,3$
Scorrimento	$\gamma_R = 1,1$

UNI ISO 9001:2015
UNI ISO 45001:2018
CERT.INT. N.18647-A/I

Le verifiche SLU di tipo geotecnico (GEO) relative alle fondazioni superficiali devono essere effettuate nei confronti sei seguenti meccanismi di rottura:

- ☒ Collasso per carico limite dell'insieme fondazione terreno
- ☒ Collasso per scorrimento su piano di posa
- ☒ Stabilità globale (nel caso di fondazione su pendio)

I diversi gruppi di coefficienti di sicurezza parziali sono scelti nell'ambito di due approcci progettuali distinti e alternativi (qui indicati per tutte le verifiche geotecniche):

- ☑ *Approccio 1 – Combinazione 1: A1+M1+R1*
– Combinazione 2: A2+M2+R2
- ☑ *Approccio 2 – Combinazione 1: A1+M1+R3*

Nel caso delle fondazioni superficiali la verifica di Stabilità globale va eseguita secondo l'Approccio 1 Combinazione 2 (A2+M2+R2), mentre le rimanenti verifiche vanno eseguite secondo l'Approccio 2 combinazione 1 (A1+M1+R3).

Per le verifiche allo SLU si utilizza la combinazione di fattori espressa di seguito:

Combinazione fondamentale, generalmente impiegata per gli stati limite ultimi (SLU):

$$E_d = \gamma_{G1} G_1 + \gamma_{G2} G_2 + \gamma_P P + \gamma_{Q1} Q_{K1} + \gamma_{Q2} \psi_{02} Q_{K2} + \gamma_{Q3} \psi_{23} Q_{K3} + \dots$$

14 CAPACITÀ PORTANTE IN CONDIZIONI STATICHE

14.1 TEORIA SULLA RESISTENZA DEL SISTEMA GEOTECNICO RD

La resistenza del sistema geotecnico dell'area indagata viene calcolata a partire dalla teoria della capacità portante secondo Brinch-Hansen (1970) con l'applicazione della formula:

$$q_{lim} = \frac{1}{2} \cdot \gamma' \cdot B \cdot N_{\gamma} \cdot [s_{\gamma} \cdot i_{\gamma} \cdot b_{\gamma} \cdot g_{\gamma}] + c \cdot N_c \cdot [s_c \cdot d_c \cdot i_c \cdot b_c \cdot g_c] + q \cdot N_q \cdot [s_q \cdot d_q \cdot i_q \cdot b_q \cdot g_q]$$

dove

q_{lim} è il carico limite, corrispondente a **R_d** (a seguito delle opportune correzioni);

B è la larghezza della fondazione;

c è la coesione;

q = γ' D;

γ' è il peso di volume. Per il terzo fattore della formula (dal momento che **q = γ' D**) è riferito al terreno compreso tra il piano campagna e il piano di posa della fondazione, per il primo fattore della formula è riferito al terreno compreso tra il piano di posa della fondazione e la profondità alla quale può spingersi il cuneo di rottura;

D è la profondità del piano di posa della fondazione;

N_c, N_q, N_γ sono i fattori di capacità portante, dipendenti dall'angolo di attrito φ;

s_γ, s_c, s_q sono fattori di forma della fondazione;

i_γ, i_c, i_q sono fattori correttivi dipendenti dall'inclinazione del carico;

b_γ, b_c, b_q sono fattori correttivi dipendenti dall'inclinazione della base della fondazione;

g_γ, g_c, g_q sono fattori correttivi dipendenti dall'inclinazione del piano campagna;

d_γ, d_c, d_q sono fattori correttivi dipendenti dalla profondità del piano di posa;

(Per l'illustrazione di tali fattori si rimanda a specifica letteratura)

Si è calcolata la capacità portante con i parametri del terreno in termini di tensioni totali: questo metodo, nel caso di terreni coesivi, pone il sistema nelle condizioni più gravose, ipotizzando un'applicazione istantanea dei carichi, con conseguente notevole incremento delle pressioni interstiziali, che non possono essere dissipate per drenaggio.

Nello specifico si individua dapprima la profondità alla quale il terreno può andare incontro a rottura; le Raccomandazioni A.G.I. (1977) prescrivono di spingersi fino a profondità

compresa tra B e 2B a partire dal piano di posa. Successivamente si calcolano i parametri del terreno considerando tutti quelli intercettati fino alla profondità dell'eventuale cuneo di rottura, valore da inserire nella determinazione della R_d . In ottemperanza alle nuove norme tecniche (D.M. 17.01.18) tali parametri vanno trattati statisticamente per ottenere i corrispondenti valori caratteristici, così come definiti nell'introduzione del **capitolo 13**. Nel caso specifico, effettuato i calcoli in termini di tensioni totali, la formula del carico limite si riduce notevolmente e diventa indipendente dalle caratteristiche della fondazione (anche se la geometria della fondazione è necessaria per calcolare i fattori di forma e di profondità), con le motivazioni che seguono:

Nel caso di terreni coesivi l'angolo di attrito $\varphi = 0^\circ$

Da cui deriva $N_\gamma = 0$; $N_q = 1$ e $N_c = 5,14$;

La formula del carico limite si semplifica notevolmente e diventa:

$$q_{lim} = 5,14 c_{uk} s_c^0 d_c^0 i_c^0 b_c^0 g_c^0 + \gamma D$$

e la q_{lim} netta, cioè la capacità portante del terreno al di sotto della fondazione, senza considerare il contributo del peso del terreno ai lati di questa:

$$q_{lim \text{ netta}} = 5,14 c_{uk} s_c^0 d_c^0 i_c^0 b_c^0 g_c^0$$

Dove c_{uk} è la coesione caratteristica non drenata, calcolata per ogni 20 cm di profondità in base alla formula $c_u = R_p/b$ (Sanglerat 1972) e ridotta secondo i metodi statistici e i fattori s_c^0 , d_c^0 , i_c^0 , b_c^0 e g_c^0 sono dipendenti dalle caratteristiche del sistema, quali la geometria e la profondità di posa della fondazione, l'inclinazione del piano campagna e dei carichi trasmessi.

A questo punto la formula viene parzialmente corretta secondo le disposizioni attualmente in vigore, ovvero attraverso il metodo dei coefficienti parziali, riducendo il fattore c_{uk} a c_{uk}/γ_{cu} e dividendo inoltre la R_d risultante per il coefficiente γ_R , come indicato di seguito:

$$R_d = 5,14 * c_{uk}/\gamma_{cu} s_c^0 d_c^0 i_c^0 b_c^0 g_c^0$$

$$R_d \text{ capacità portante} = R_d / \gamma_R$$

14.2 CALCOLO DELLA RESISTENZA DEL SISTEMA GEOTECNICO

Per la determinazione della resistenza del sistema geotecnico sono stati esaminati e trattati statisticamente tutti i valori di c_u , da cui calcolare i valori caratteristici, relativi ai livelli argillosi

superficiali più scadenti interessati dall'instaurarsi del cuneo di rottura potenziale, nel caso delle fondazioni indicate.

Trattando il caso di fondazioni a platea ci si trova in condizioni di compensazione strutturale, pertanto nella trattazione statistica dei dati è possibile calcolare il valore di c_{uk} come il 5 percentile della distribuzione della media del campione.

Trattando il caso di fondazioni a travi continue, supposte in reticolo non rigido, ci si trova in condizioni di non compensazione strutturale, pertanto nella trattazione statistica dei dati occorre calcolare il valore di c_{uk} come il 5 percentile della distribuzione dell'intero campione.

Sulla base delle caratteristiche dimensionali e geotecniche del sistema esaminato si riporta il risultato dei calcoli eseguiti:

CAPACITA' PORTANTE SLU – condizioni statiche					
Approccio	Elemento impianto	$c_{uk} = c_{uD}$ (kPa)	s_c (-)	d_c (-)	R_d (kPa)
Approccio 2 (A1+M1+R3)	VASCA LIQUAME	33	1,20	1,02	100
	VASCA NITRO-DENITRO	35	1,20	1,05	116
	STALLA	24	1,00	1,19	69

Si precisa quanto segue:

- con c_{uk} è stato indicato il valore caratteristico, mentre con c_{uD} il valore di progetto, derivante dalla divisione del valore caratteristico per il relativo coefficiente parziale, che nel caso dell'Approccio 2 è pari a 1, portando i due valori a coincidere.
- La R_d indicata è una R_d calcolata includendo il contributo del terreno ai lati della fondazione.

15 CARATTERIZZAZIONE SISMICA

Le onde sismiche legate ad un evento tellurico subiscono riflessioni e rifrazioni durante la loro propagazione, a causa delle eterogeneità crostali.

Negli strati più superficiali, dal punto di vista geotecnico, questo può causare variazioni della capacità portante, oppure dar luogo a incrementi della spinta sulle opere di sostegno, o ancora causare veri e propri fenomeni di instabilità, particolarmente nei terreni potenzialmente liquefacibili.

Le onde meccaniche generate da un terremoto inducono effetti diversi in relazione al tipo di terreno, a seconda che questo abbia un comportamento stabile o instabile sotto l'effetto del moto vibratorio legato al sisma. Il terreno ha un comportamento stabile quando le sollecitazioni del sisma sono inferiori alla resistenza al taglio del terreno, quando i terreni sono costituiti da ghiaie, sabbie addensate e argille consistenti.

Il terreno ha un comportamento instabile quando le sollecitazioni del sisma superano la resistenza al taglio del terreno e questo si verifica in terreni caratterizzati dalla presenza di argille molli e in terreni saturi, con effetto di degradazione legati alla pressione interstiziale.

15.1 PROVE SISMICHE IN SITO

La prospezione sismica MASW (Multichannel Analysis Surface Waves) è una tecnica non invasiva di indagine del sottosuolo, che consente la determinazione di alcune caratteristiche del terreno, prima tra tutte la velocità delle onde di taglio verticali (V_s) dei singoli sismostrati, in funzione della misura delle onde di superficie (principalmente onde di Rayleigh).

L'interazione congiunta di onde P e onde S che incidono la superficie libera comportano, oltre ad una parziale riflessione delle stesse, anche il generarsi di un'ulteriore onda (di superficie), formata dalla composizione vettoriale delle due: l'onda di Rayleigh. In un mezzo solido e isotropo le particelle di superficie attraversate da questa tipologia di onde si muovono secondo elissi con piano perpendicolare alla superficie e parallelo alla direzione di propagazione. In superficie e a profondità ridotte tale moto è retrogrado (**Figura 15.1**).

Quando le onde di Rayleigh attraversano un corpo la cui densità varia con la profondità diventano dispersive (per contro in un mezzo ideale, omogeneo e isotropo non presentano dispersione). Questo significa che onde con diverse frequenze viaggiano con diversa velocità di fase; in particolare onde ad alta frequenza si propagano nei livelli più superficiali,

mentre onde a bassa frequenza (cioè elevata lunghezza d'onda) si propagano negli orizzonti profondi.

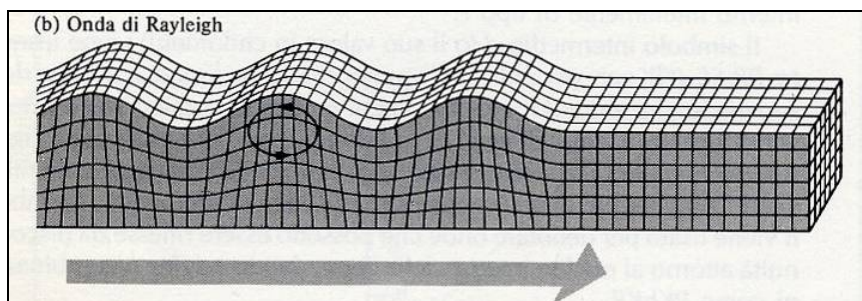


Figura 15.1. Moto e modalità di propagazione delle onde di Rayleigh

Per ottenere le velocità di propagazione delle onde nella sequenza stratigrafica del sottosuolo (primi 30 m, per determinazione Vs30) è necessario produrre un'energizzazione in superficie, attraverso massa battente, registrando i segnali prodotti ed elaborandoli opportunamente, attraverso software dedicato, al fine di ottenere la curva di dispersione e procedere poi all'individuazione del profilo delle velocità, in maniera iterativa, intervenendo di volta in volta sui parametri velocità onde di taglio (V_s), il coefficiente di Poisson (ν), densità di massa (ρ) e spessore (h).

15.1.1 Strumentazione utilizzata e modalità di acquisizione dati

L'indagine sismica condotta ha visto l'utilizzo di tromografo digitale Tromino Engy (prodotto da Micromed), dapprima per l'acquisizione del rumore ambientale (microtremore sismico HVSR), per passare, successivamente all'acquisizione della risposta del sito a diversi stimoli (provocati per mezzo di energizzazione apposita – indagine MASW).

L'indagine sismica di tipo HVSR (Horizontal to Vertical Spectral Ratio) è una metodologia non invasiva che sfrutta l'analisi spettrale del microtremore sismico per caratterizzare il sottosuolo, in termini di fenomeni di amplificazione, frequenze di risonanza e contrasti di competenza della sequenza stratigrafica e la velocità di propagazione al suo interno.

Anche in questo caso vengono sfruttate le onde di superficie, ed in particolare l'ellitticità delle onde di Rayleigh, che determinerebbe i picchi nella funzione H/V.

L'attività di acquisizione è consistita nella registrazione di rumore ambientale mediante Tromino Engy, per 20 minuti e con campionamento a 128 Hz.

Per quanto riguarda la prova MASW le diverse energizzazioni del substrato sono state effettuate a livello di un geofono mobile (acquisizione a 512 Hz), connesso allo strumento,

posizionato in modo progressivo a diversi step, ad interdistanza di 5,0 metri l'uno dall'altro, per una lunghezza complessiva di 50 metri di distanza dallo strumento (per un totale di 10 acquisizioni). I dati raccolti per le diverse prove sono stati elaborati mediante uso del Software Grilla® ver. 6.4.2, regolarmente licenziato.

15.1.2 Risultati indagini HVSr 1 e HVSr 2

Di seguito in **Figura 15.2** si riporta, per entrambe le acquisizioni, lo spettro di stazionarietà dei rapporti H/V, ottenuto dopo aver eliminato le acquisizioni anomale (per effetto di disturbi), rappresentate in figura dalle bande nere.

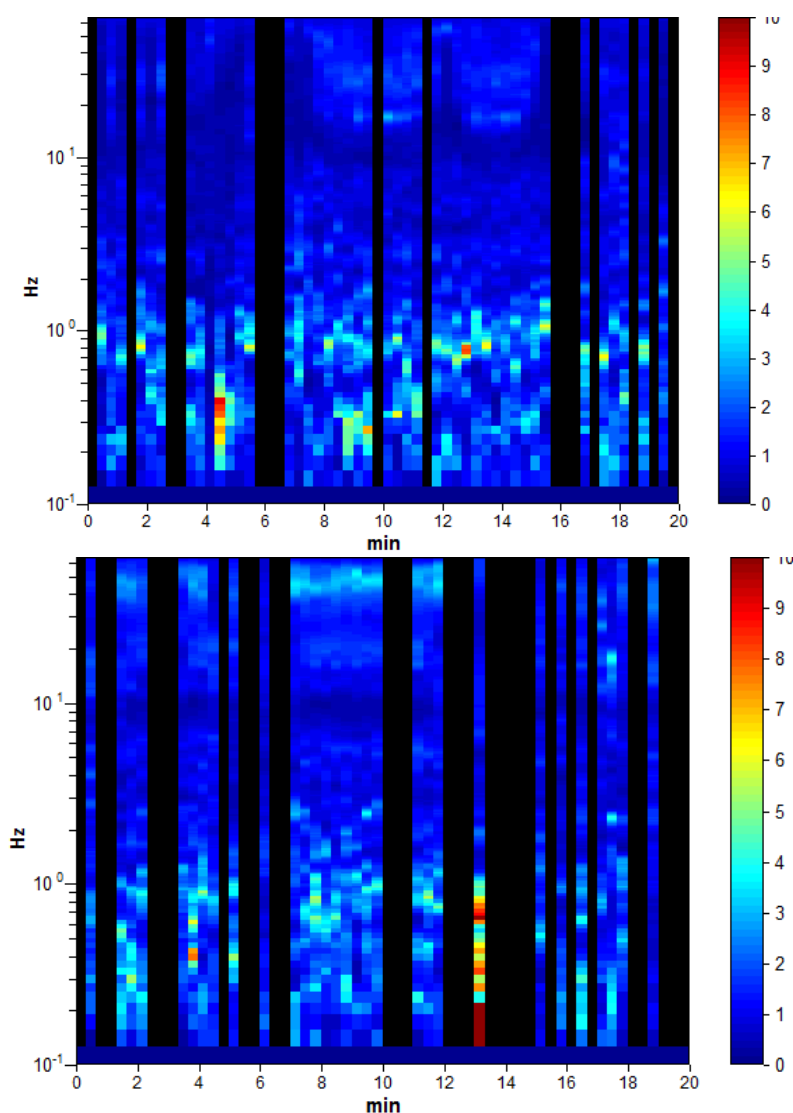


Figura 15.2. Spettro di stazionarietà dei rapporti H/V, previa eliminazione dei disturbi HVSr 1 (in alto) HVSr 2 (in basso).

A questo punto è stato possibile ottenere il grafico del trend delle componenti NS, EW e Z, in funzione della frequenza (**Figura 15.3 e Figura 15.5**), da cui deriva, sempre in funzione della frequenza, l'andamento del rapporto H/V, riportato in **Figura 15.4 e Figura 15.6**.

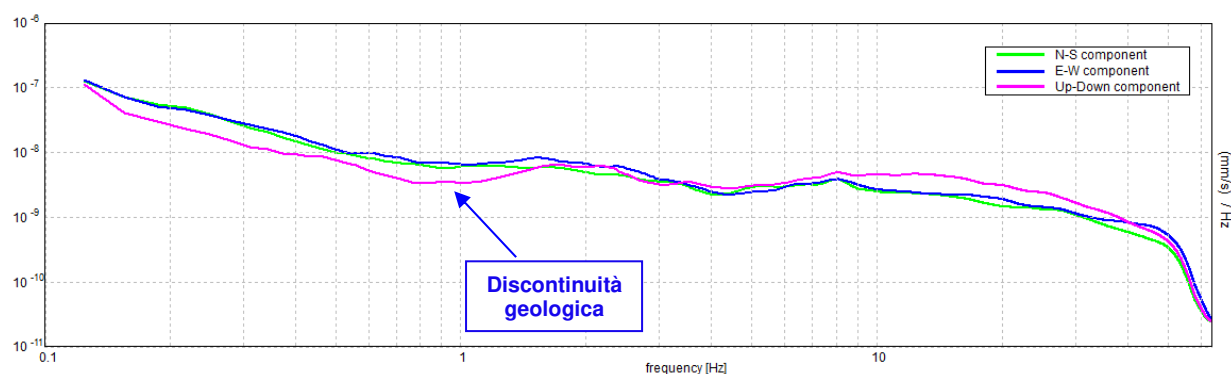


Figura 15.3. Velocità del moto del suolo secondo le componenti N-S, E-W e Z HVSR 1.

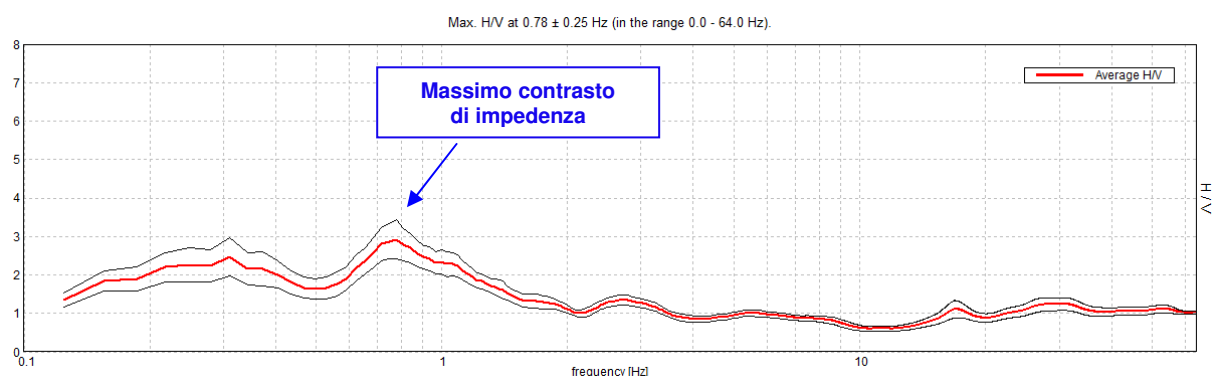


Figura 15.4. H/V sperimentale HVSR 1

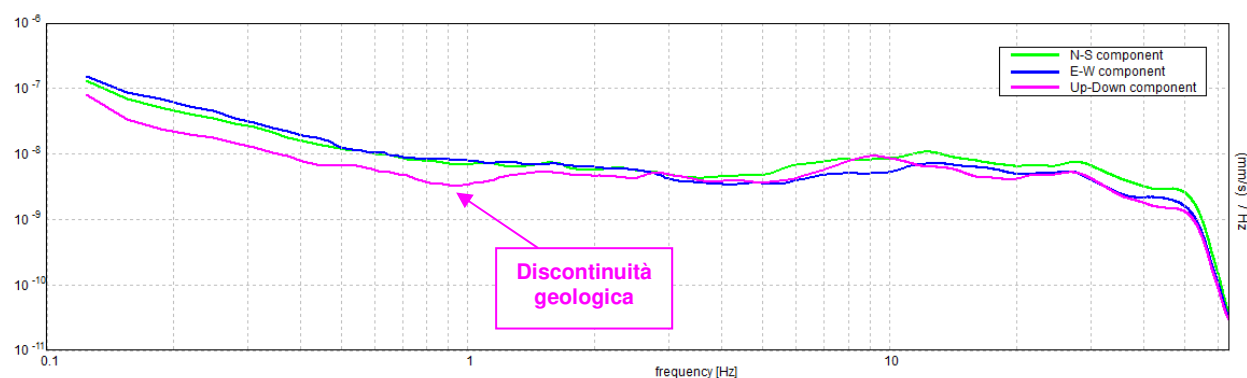


Figura 15.5. Velocità del moto del suolo secondo le componenti N-S, E-W e Z HVSR 2.

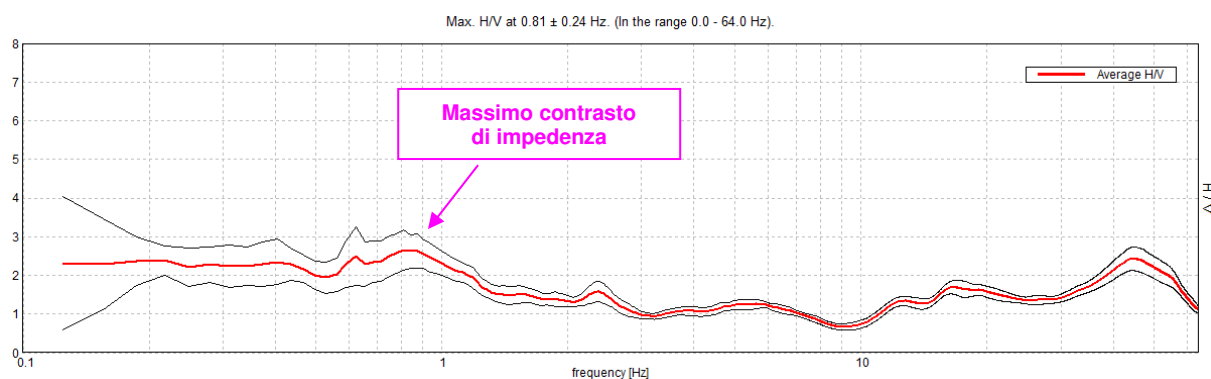


Figura 15.6. H/V sperimentale HVSR 2

Dall'elaborazione dei dati risulta che il picco di H/V, quindi la frequenza fondamentale del sito, si ha per una frequenza media pari a circa 0,8 Hz (media di 0,78 Hz e 0,81 Hz), corrispondente ad un contrasto di impedenza a profondità intorno ai 100 m da p.c..

15.1.3 Risultati indagini sismica MASW 1 e MASW 2

Di seguito (**Figure 15.7**, **Figura 15.8** e **Figura 15.9**) si riportano le immagini più rappresentative derivanti dall'elaborazione della prova sismica.

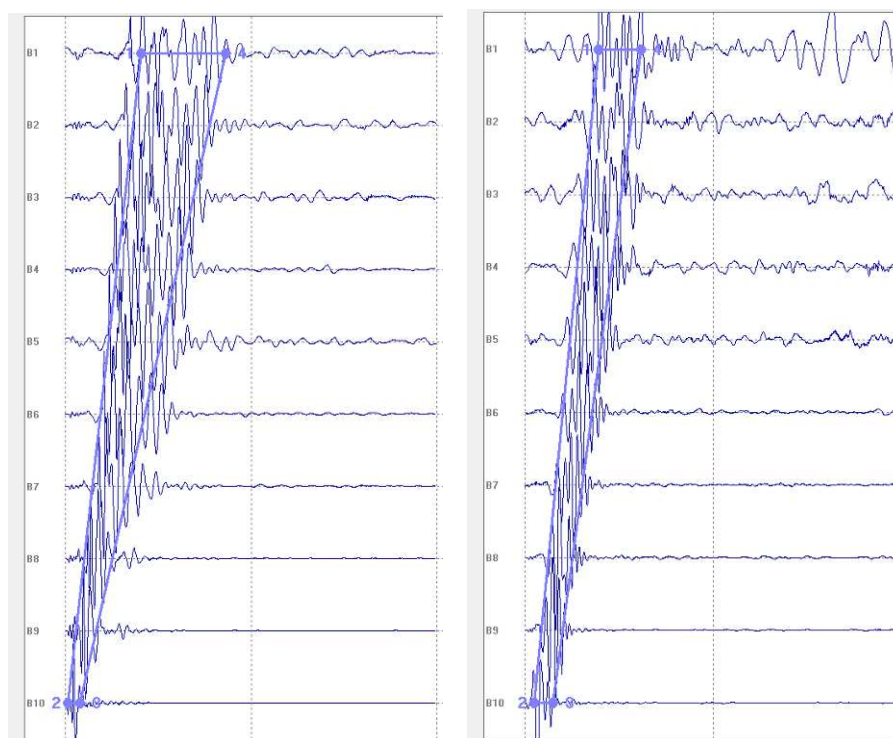


Figura 15.7. Segnali elaborati, con indicazione della finestra utilizzata per la determinazione della curva di dispersione (eliminazione disturbo) in MASW 1 (sinistra) e MASW 2 (destra)

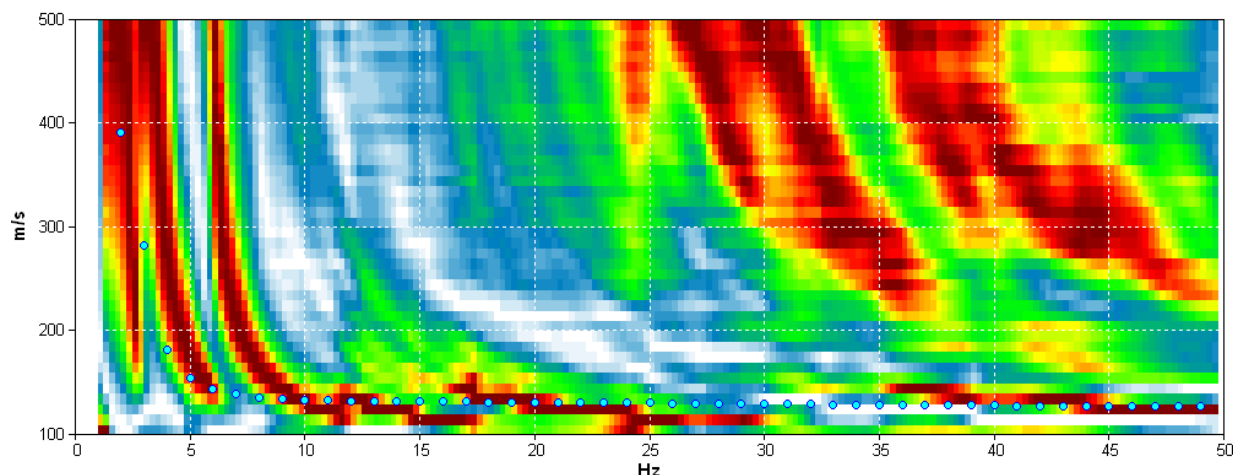


Figura 15.8. Curva di dispersione sperimentale e numerica MASW 1

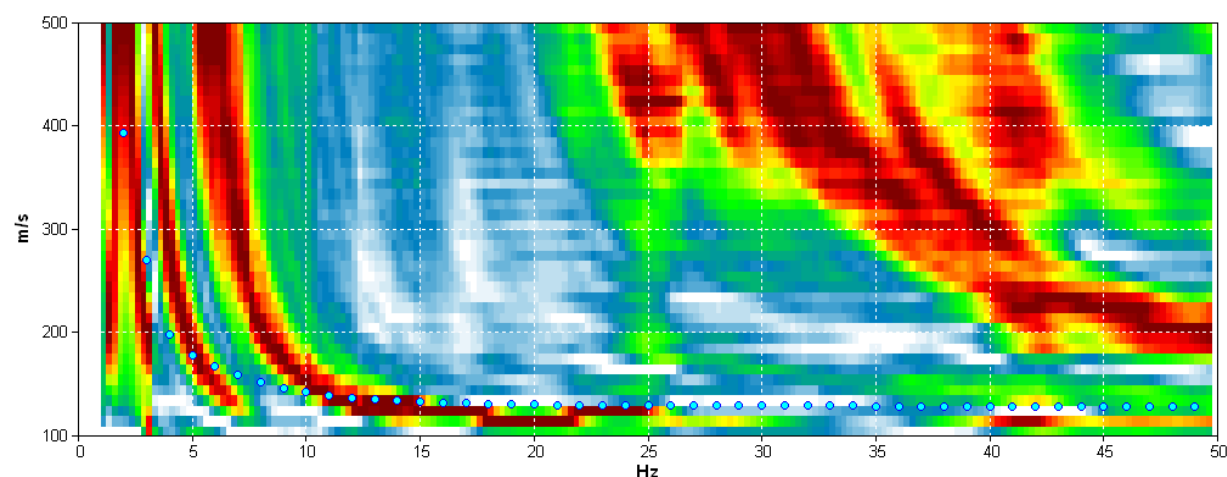


Figura 15.9. Curva di dispersione sperimentale e numerica MASW 2

L'indagine sismica eseguita (prova tipo Masw, attiva), considerando la sismostratigrafia fino alla profondità di oltre 30 metri da p.c., ha consentito la determinazione della velocità delle onde di taglio V_s (**Figura 15.10**). Si rammenta che la velocità equivalente nel D.M. 17/01/18 (NTC18) sostituisce il concetto di V_{s30} indicato nel D.M. 14/01/08 (NTC08), pur mantenendone la valenza in contesti con substrato a profondità maggiori di 30 m (come nel caso specifico), e che viene definita formula riproposta di seguito:

$$V_{S,eq} = \frac{H}{\sum_{i=1}^N \frac{h_i}{V_{S,i}}}$$

Dove H rappresenta lo spessore dei sedimenti al di sopra del substrato (se il substrato si trova a profondità superiori ai 30 m allora $H = 30$), h_i e $V_{S,i}$ rappresentano rispettivamente lo spessore e la velocità di propagazione delle onde di taglio attraverso lo strato i -esimo.

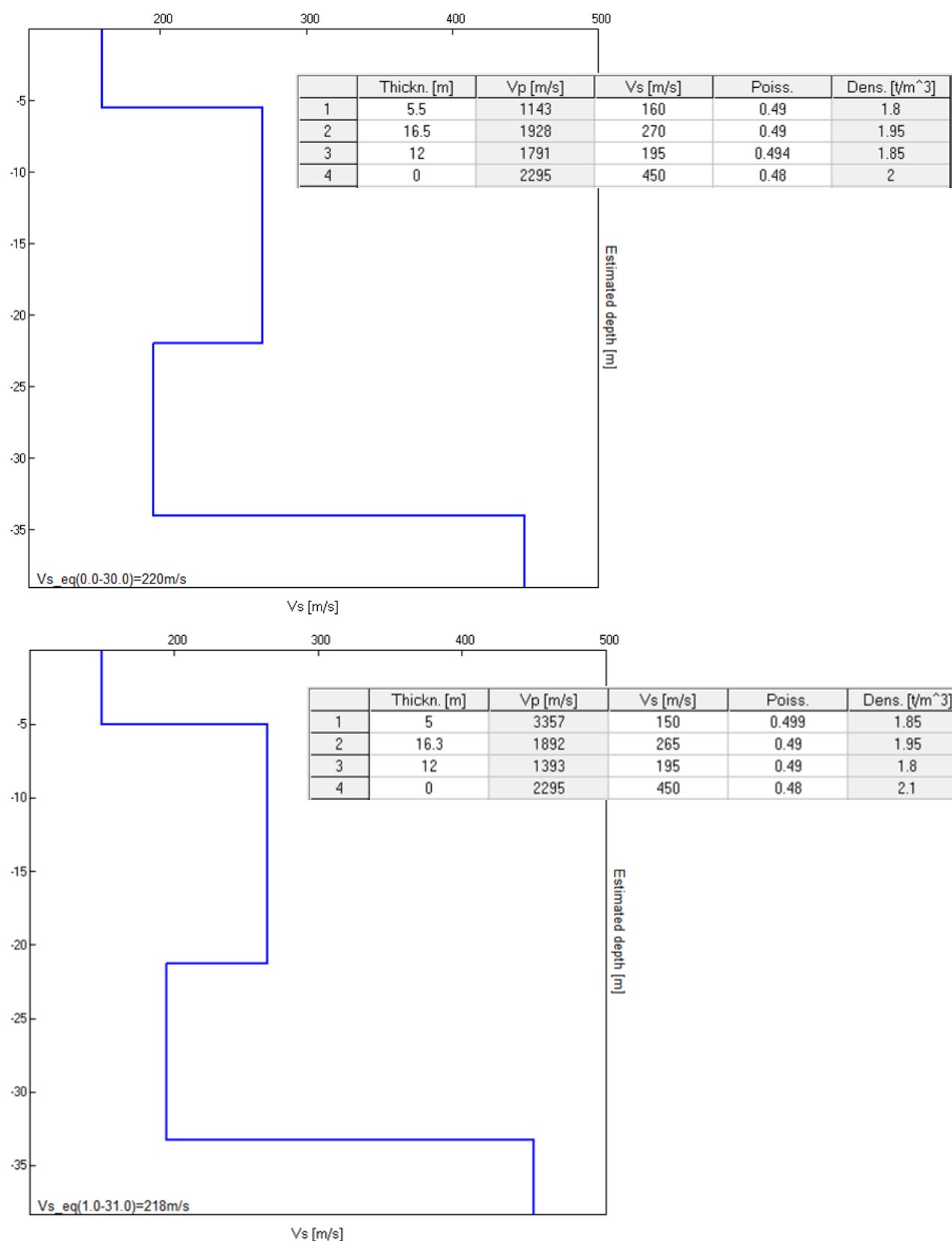


Figura 15.10. Profilo delle Vs, caratteristiche sismostrati e determinazione Vs30 in MASW 1 (in alto) e MASW 2 (in basso)

Nel caso specifico si ottiene:

$$V_{s,eq} = 220 \text{ m/s in MASW 1}$$

$$V_{s,eq} = 218 \text{ m/s in MASW 2}$$

Tali valori associano pertanto i terreni di fondazione ad un suolo di **categoria C**, ovvero, come definito nelle NTC 2018 in tabella 3.2.II:

“Depositi di terreni a grana grossa mediamente addensati, o terreni a grana fina mediamente consistenti, con profondità del substrato superiori a 30 metri, caratterizzati da un miglioramento delle proprietà meccaniche con la profondità e da valori di velocità equivalente compresi tra 180 m/s e 360 m/s”.

15.2 PARAMETRI SISMICI E SPETTRI DI RISPOSTA ELASTICI AI SENSI DELLE NTC 18

Il comune di Bondeno (FE) ricade in Zona 3 ai sensi del OPCM 3519/2006, con accelerazione massima orizzontale (di base) pari a $a_{refg} = 0,111 \text{ g}$ (da NTC18), per $T_r=475$ anni. Secondo quanto riportato nelle prescrizioni della normativa vigente la sollecitazione sismica si traduce in un'accelerazione nelle tre direzioni (due orizzontali e una verticale), funzione delle caratteristiche del sito e della risposta delle componenti costitutive delle diverse strutture. La rappresentazione di riferimento per tali componenti è lo spettro di risposta elastico in accelerazione per uno smorzamento convenzionale del 5%. L'approccio alla quantificazione dell'azione sismica attraverso l'analisi spettrale prevede la definizione di uno spettro orizzontale e uno verticale e ha origine dalla determinazione dei seguenti parametri:

- ☒ Categoria di suolo e categoria topografica
- ☒ T_c^0 : periodo corrispondente all'inizio del tratto a velocità costante
- ☒ a_g : accelerazione orizzontale massima del sito
- ☒ F_0 : massimo valore di amplificazione dello spettro in accelerazione orizzontale

da cui dedurre i coefficienti sismici orizzontale k_h e verticale k_v , rispettivamente pari a:

$$k_h = \beta_s * a_{max}/g$$

$$k_v = 0,5 k_h$$

La caratterizzazione sismica procede pertanto con la definizione dei parametri sismici relativi al sito di riferimento. Il sito di interesse viene dapprima localizzato all'interno del reticolo di riferimento proposto nell'Allegato B delle NTC (**Figura 15.11**), compreso nei quattro nodi evidenziati.



Figura 15.11. Ubicazione dei nodi del reticolo di riferimento

Le coordinate geografiche dell'area di intervento, espresse nel sistema di riferimento ED50, vengono riportate nella tabella seguente.

COORDINATE SITO (ED50)	
Latitudine	44,954732
Longitudine	11,340447

Di seguito vengono invece riportati i parametri identificativi dei quattro nodi del reticolo che includono il sito in esame.

PARAMETRI DEI NODI DEL RETICOLO ($T_r = 475$ anni)					
Nodo	ID	a_g (m/s^2)	F_0 (-)	T_c^0 (sec)	Distanza dal sito (m)
1	14732	1,051	2,58	0,29	3289
2	14733	1,024	2,58	0,29	2769
3	14955	1,233	2,60	0,27	5019
4	14954	1,269	2,60	0,27	5325

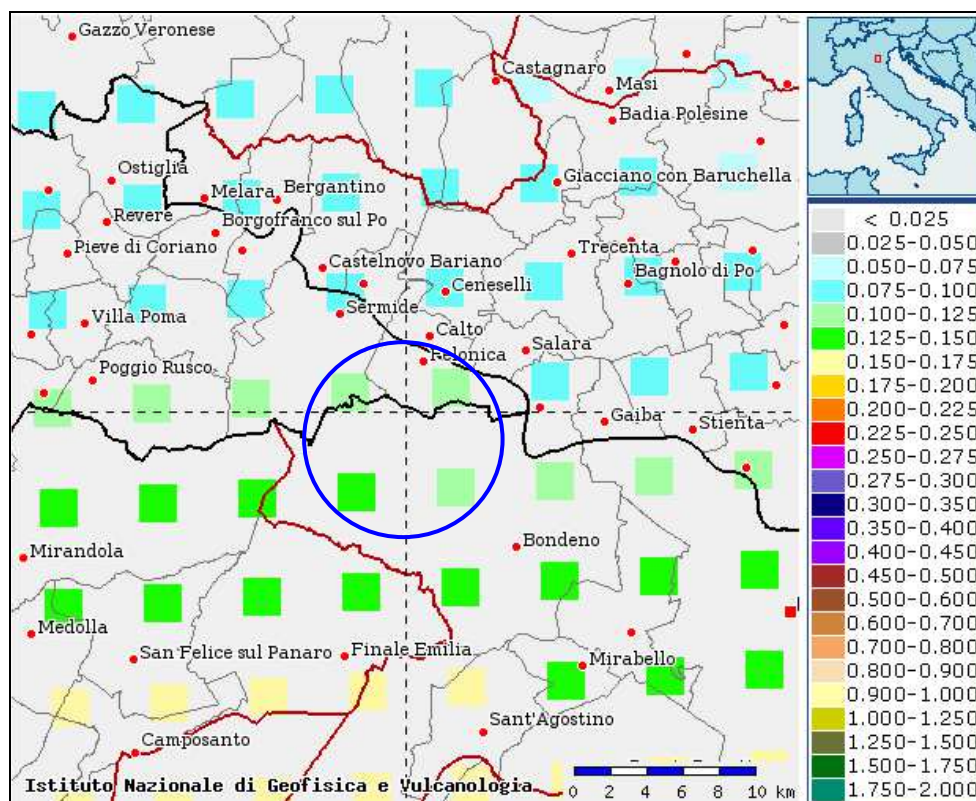


Figura 16.9. Estratto di mappa interattiva della pericolosità sismica (prob.: 10% in 50 anni, 50° percentile)
Nel cerchio blu i nodi del reticolo che includono il sito di intervento, individuato dal crocino.

In **Figura 15.12** si riporta un'ulteriore ubicazione dei quattro nodi del reticolo cui viene assegnato una diversa evidenza cromatica in funzione dell'intervallo di variazione dell'accelerazione attesa al sito per una probabilità di accadimento del 10% in 50 anni, al 50° percentile (da *Mappa interattiva della pericolosità sismica*, INGV).

A questo punto, sulla base dei dati di input introdotti nel software di calcolo GeoStru PS della Geostru®, e di seguito riportati:

PARAMETRO	VALORE
Vita nominale	50
Classe d'uso	2
Categoria di suolo	C
Categoria topografica	T1

Si riportano in forma tabellare i parametri e coefficienti sismici riferiti ai diversi stati limite da considerare.

PARAMETRI SISMICI					
STATO LIMITE	PROB. SUPERAM. (%)	Tr (anni)	a _g (g)	F ₀ (-)	T _c ⁰ (sec)
OPERATIVITA' (SLO)	81	30	0,034	2,567	0,237
DANNO (SLD)	63	50	0,041	2,572	0,272
SALVAGUARDIA VITA (SLV)	10	475	0,111	2,585	0,286
PREVENZIONE COLLASSO (SLC)	5	975	0,147	2,579	0,288

COEFFICIENTI SISMICI							
STATO LIMITE	Ss (-)	Cc (-)	St (-)	Kh (-)	Kv (-)	Amax (m/s ²)	Beta (-)
(SLO)	1,50	1,69	1,00	0,010	0,005	0,505	0,200
(SLD)	1,50	1,61	1,00	0,012	0,006	0,606	0,200
(SLV)	1,50	1,59	1,00	0,040	0,020	1,640	0,240
(SLC)	1,47	1,58	1,00	0,052	0,026	2,120	0,240

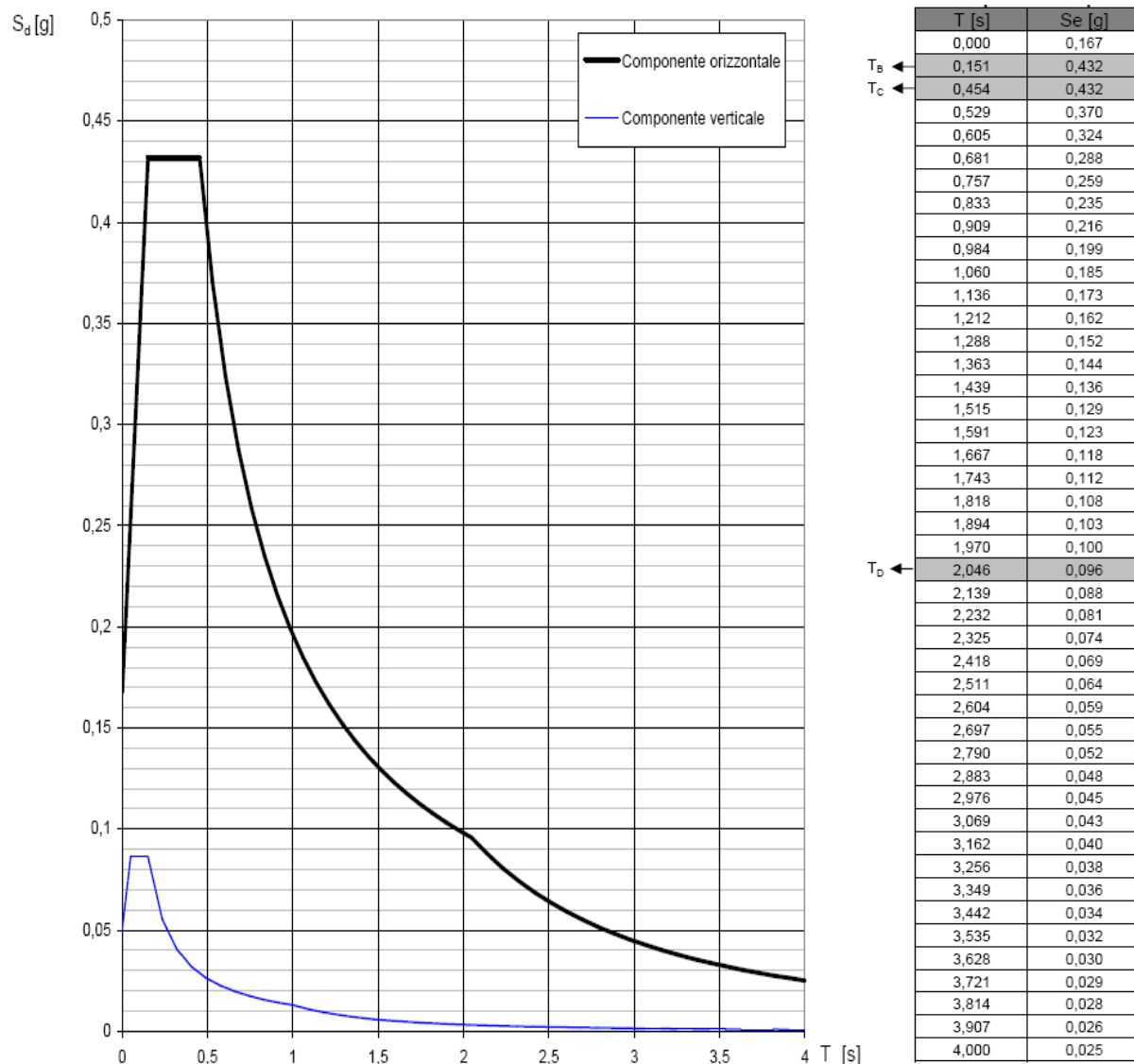
VALORI DI RIFERIMENTO DA NTC08	
PARAMETRO	VALORE
a _{refg}	0,111 g
F.A. di P.G.A.	1,50
F.A. topografico	1,00
Acc max di picco al suolo	0,167 g

Ss, Cc e St e Beta ($=\beta_s$) sono coefficienti rispettivamente di amplificazione stratigrafica, di categoria di suolo, di amplificazione topografica e di riduzione dell'accelerazione massima attesa. Chiaramente tali parametri sono suscettibili di variazioni qualora vengano modificati i dati di input definiti.

Ora è possibile calcolare lo spettro di risposta elastico, così come illustrato in **Figura 15.13** (componente orizzontale e verticale).

L'elaborazione è stata effettuata attraverso il software Spettri NTC ver. 1.0.3 messo a disposizione dal Consiglio Superiore dei Lavori Pubblici. Si specifica come la componente verticale sia in realtà uno spettro di progetto (fattore di struttura pari a $q=1,5$).

Noto il fattore di struttura orizzontale sarà possibile determinare lo spettro di progetto e da questo, in funzione del periodo T₁, l'intercetta sullo spettro, ricavando il k_h per il calcolo del taglio sismico nell'ambito della verifica a scorrimento, mentre sull'intercetta dello spettro verticale sarà possibile determinare il k_v per la stima della combinazione sismica.



Parametri indipendenti

STATO LIMITE	SLV
a_g	0,111 g
F_o	2,585
T_C	0,286 s
S_S	1,500
C_C	1,587
S_T	1,000
q	1,000

Parametri dipendenti

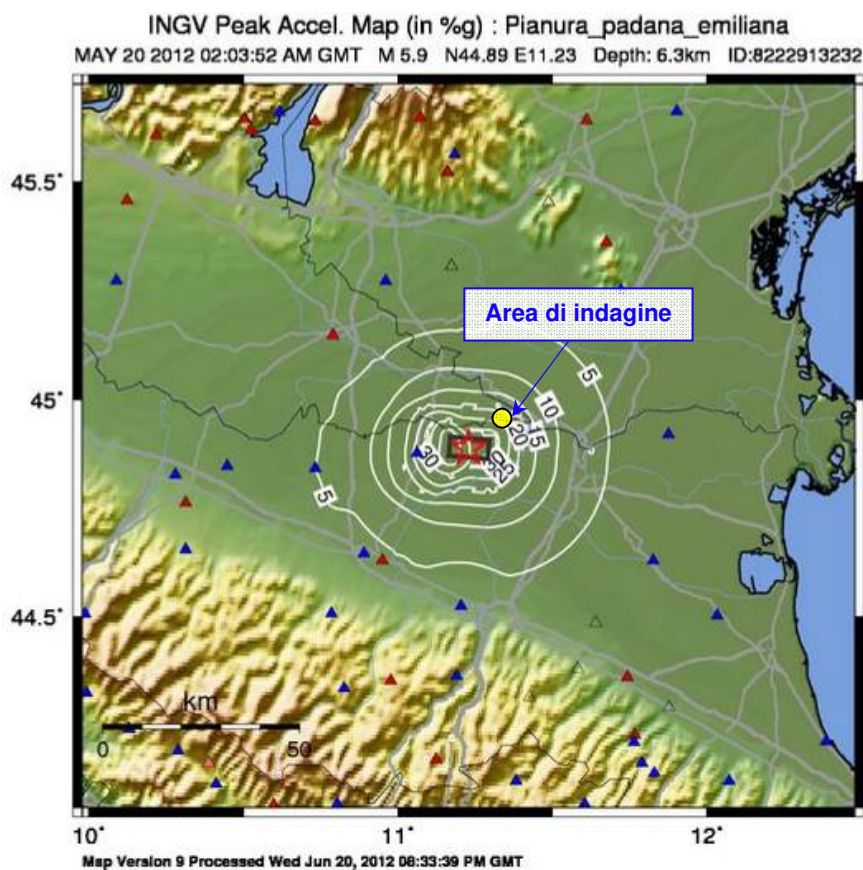
S	1,500
η	1,000
T_B	0,151 s
T_C	0,454 s
T_D	2,046 s

Figura 15.13. Spettro di risposta elastico SLV in accelerazione – comp. orizzontale e verticale e parametri e coordinate componente orizzontale

16 EVENTI SISMICI DEL 20 E 29 MAGGIO 2012

Dall'analisi dei dati disponibili sul sito dell'Istituto Nazionale di Geofisica e Vulcanologia (www.ingv.it) relativi agli eventi sismici del 20 e 29 maggio 2012 avvenuti in Pianura Padana, l'area di intervento risulta distante 12 km circa rispetto all'epicentro del sisma del 20 maggio, e in posizione meno prossima all'epicentro (circa 24 km) nel sisma del 29 maggio. Di seguito (**Figura 16.1** e **Figura 16.2**) si riportano le mappe delle linee di uguale accelerazione e la tabella con i dati registrati all'epicentro nei due eventi sismici.

SISMA DEL 20 MAGGIO

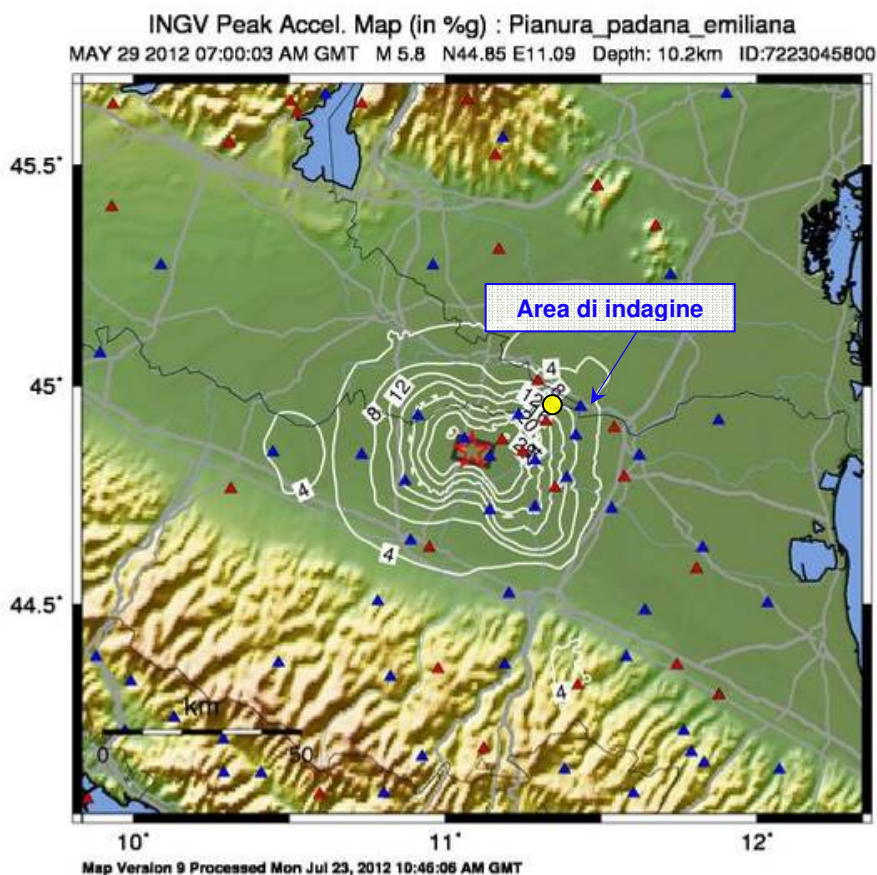


Earthquake

Event ID	Magnitude	Date	Time	Lat	Lon	Depth
8222913232	5.900000	5/20/2012	02:03:52 PST	N44.8890	E11.2280	6.300 km
Magnitude Bias:	MMI	PGA	PGV	PSA 0.3	PSA 1.0	PSA 3.0
	-0.49	-0.47	-0.22	-0.44	-0.03	-0.18

Figura 16.1. Mappa delle linee di uguale accelerazione in occasione del sisma del 20 maggio 2012. Nella Tabella i dati relativi all'epicentro.

SISMA DEL 29 MAGGIO



Earthquake

Event ID	Magnitude	Date	Time	Lat	Lon	Depth
7223045800	5.800000	5/29/2012	07:00:03 PST	N44.8510	E11.0860	10.200 km
Magnitude Bias:	<u>MMI</u>	<u>PGA</u>	<u>PGV</u>	<u>PSA 0.3</u>	<u>PSA 1.0</u>	<u>PSA 3.0</u>
	-0.56	-0.53	-0.29	-0.33	-0.12	-0.08

Figura 16.2. Mappa delle linee di uguale accelerazione in occasione del sisma del 29 maggio 2012. Nel cerchio giallo l'area di intervento.

Pertanto, sulla base delle linee di uguale accelerazione ricavate a partire dai dati registrati nelle stazioni sismiche esistenti è possibile sostenere che l'area indagata è stata interessata da un'accelerazione di circa 0,20g nell'evento sismico del 20 maggio e di circa 0,10g nel caso del sisma del 29 maggio.

16.1 ATTENUAZIONE DELL'ACCELERAZIONE

Allo stato attuale esistono diverse leggi di attenuazione dell'accelerazione con la distanza, prima fra tutte quella di Sabetta e Pugliese, in formula generica come di seguito esposto:

$$\text{Log}(A) = a + b * M + c * \log_{10} (R^2 + h^2)^{1/2} + e_1 * S_1 + e_2 * S_2 \pm \sigma$$

In cui:

A è l'accelerazione a distanza R dall'epicentro

M la Magnitudo

R la distanza del sito dall'epicentro

h, e₁, e₂, S₁, S₂ sono fattori dipendenti dalle caratteristiche del sito

σ è la deviazione standard

Per diverse magnitudo si ottengono curve che relazionano la distanza all'accelerazione, così come indicato in **Figura 16.3**. Nel caso in esame è possibile sostenere che per entrambi gli eventi sismici l'attenuazione dell'accelerazione con la distanza segue in sostanza la relazione di Sabetta e Pugliese (considerando come linea di riferimento quella per M=6, valore più prossimo alle Magnitudo registrate in entrambi gli eventi sismici, rispettivamente M=5,9 e M=5,8).

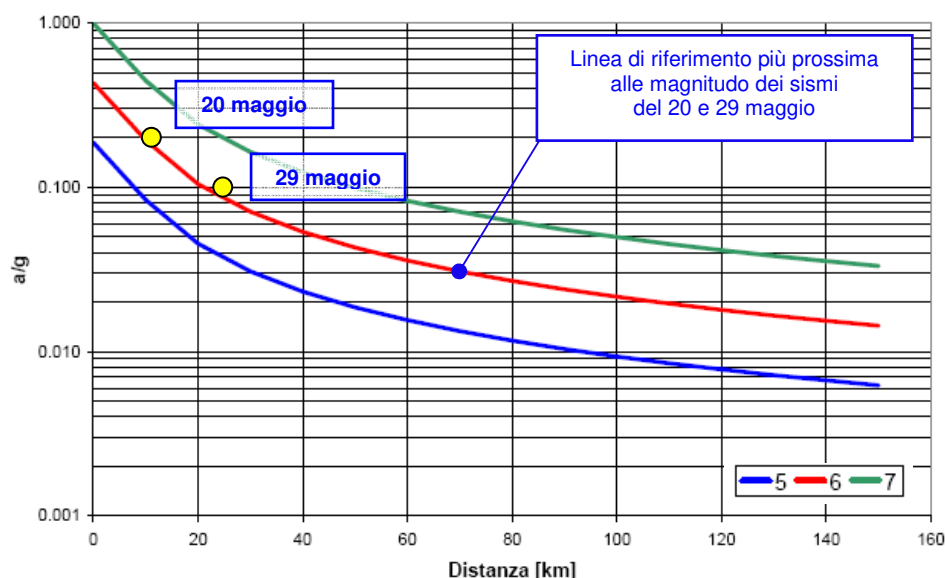


Figura 16.3. Leggi di attenuazione di Sabetta e Pugliese per Magnitudo 5, 6 e 7.
In giallo le accelerazioni attenuate registrate nella zona di intervento nei due eventi sismici principali.

Si nota infine, dall'andamento delle curve, come l'attenuazione sia molto più rilevante entro i primi 10-20 km.

17 CAPACITA' PORTANTE IN CONDIZIONI PSEUDO-STATICHE

Le conoscenze oggi disponibili non consentono di formulare criteri generali e affidabili circa le previsioni delle variazioni della capacità portante e della deformabilità del terreno durante il moto sismico. Tuttavia è possibile fare alcune considerazioni.

I terreni coesivi manifestano alterazioni costitutive che determinano una diminuzione della resistenza; i cedimenti causati dall'incremento della deformabilità sono comunque molto modesti.

I terreni non coesivi sono senza dubbio i più suscettibili a subire alterazioni di rilievo, soprattutto se sono poco addensati, possono venire compattati dalle azioni cicliche di un terremoto, dando luogo a cedimenti spesso importanti.

L'azione sismica dunque genera una riduzione delle proprietà resistenti del terreno. Come riportato al punto C7.11.5.3.1 della Circ. 617/09 “...l'effetto inerziale produce variazioni di tutti i coefficienti di capacità portante del carico limite in funzione del coefficiente sismico k_{hi} e viene portato in conto impiegando le formule comunemente adottate per calcolare i coefficienti correttivi del carico limite in funzione dell'inclinazione, rispetto alla verticale, del carico agente sul piano di posa. L'effetto cinematico modifica il solo coefficiente N_{γ} in funzione del coefficiente sismico k_{hk} ; il fattore N_{γ} viene quindi moltiplicato sia per il coefficiente correttivo dell'effetto inerziale, sia per il coefficiente correttivo per l'effetto cinematico.”

Pertanto i coefficienti di inclinazione del carico della formula trinomia della portanza vengono corretti in funzione di k_{hi} (e anche k_{hk} per il solo termine N_{γ}).

Per quanto riguarda invece la combinazioni delle azioni in condizioni pseudo-statiche, questa viene così sintetizzata dalle NTC 08:

Combinazione sismica, per gli stati limite ultimo (SLU) e di esercizio (SLE) connessi all'azione sismica E :

$$E_d = E + G_1 + G_2 + P + \psi_{21} Q_{K1} + \psi_{22} Q_{K2} + \psi_{23} Q_{K3} + \dots$$

Dove l'azione sismica E , funzione dei carichi di progetto e del coefficiente sismico k_v , è pari a:

$$E = (G_1 + G_2 + \psi_{2J} Q_{KJ}) * k_v$$

A questo proposito è possibile calcolare la portanza in condizioni pseudo-statiche, partendo però da alcune precisazioni di carattere generale:

- ☑ La massima combinazione dei carichi da utilizzare per la verifica dovrà essere la combinazione sismica SLV
- ☑ Il fattore di struttura per la componente verticale, viene assunto, generalmente, pari a 1,5.
- ☑ La combinazione sismica delle azioni deve essere verificata con la R_d ridotta secondo normativa (cioè riducendo i coefficienti della formula trinomia). In particolare si è proceduto alla riduzione attraverso l'introduzione dei fattori correttivi z (*Paolucci & Pecker, 1997*), di seguito proposti:

$$z\gamma = zq = (1 - kh/tg\phi)^{0,35}$$

$$z_c = 1 - 0,32 kh$$

nel caso in esame, avendo effettuato le verifiche in termini di tensioni totali si prenderà in esame il solo termine z_c .

- ☑ Per la verifica della portanza in condizioni pseudo-statiche il k_v fa riferimento, come da normativa, allo spettro di progetto nello stato limite SLV.

Alla luce di quanto esposto si riporta il risultato del calcolo effettuato:

CAPACITA' PORTANTE SLV - condizioni pseudo-statiche						
Approccio	Elemento impanto	$c_{uk} = c_{uD}$ (kPa)	s_c (-)	d_c (-)	z_c (-)	R_d netta (kPa)
Approccio 2 (A1+M1+R3)	VASCA LIQUAME	33	1,20	1,02	0,99	99
	VASCA NITRO- DENITRO	35	1,20	1,05	0,99	115
	STALLA	24	1,00	1,19	0,99	68

Anche in questo caso si tratta di una capacità portante calcolata includendo il contributo del terreno ai lati della fondazione.

18 STATO LIMITE SLE E CEDIMENTI IN CONDIZIONI PSEUDO-STATICHE

Per il calcolo dei cedimenti verticali complessivi dovuti alla realizzazione dell'intervento di progetto è stato adottato il metodo edometrico, proposto da Terzaghi per i terreni fini, con la seguente formula:

$$w_{ed} = \sum_{i=1}^n \frac{\Delta\sigma_{v,i}}{E_{ed,i}} \cdot \Delta z_i$$

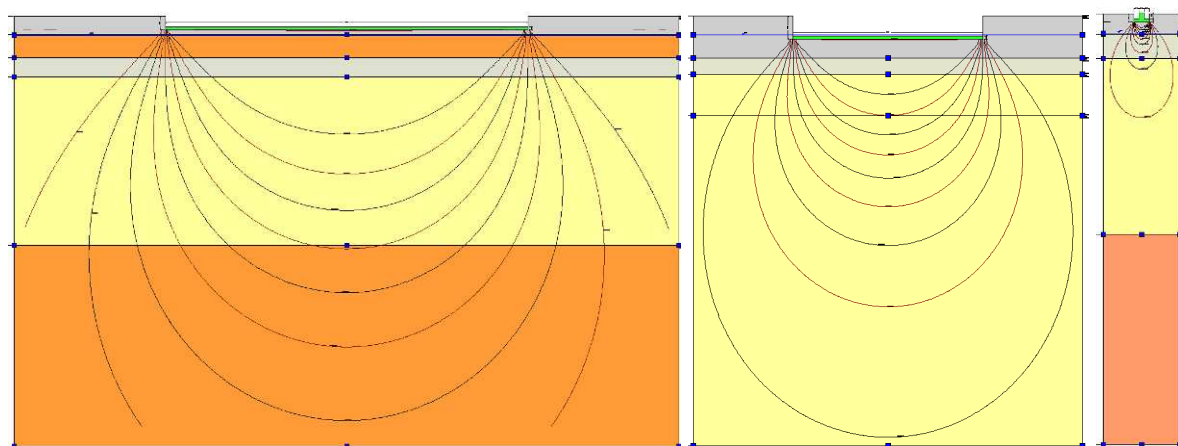
dove:

Δz_i è la potenza metrica dello strato i-esimo

$\Delta\sigma_{v,i}$ è l'incremento di pressione verticale, calcolato a metà dello strato coesivo i-esimo (derivante dall'abaco di Boussinesq), dovuta al carico della struttura,

$E_{ed,i}$ è infine il modulo edometrico dello strato i-esimo, calcolato come il reciproco del coefficiente di compressibilità m_v .

Lo spessore significativo di terreno che verrà interessato dal cedimento, analizzando la sequenza dei bulbi di tensione riportata in **Figura 18.1** (estratta dalla modellazione effettuata con il software LoadCap della Geostru software, regolarmente licenziato), si spinge fino a oltre 40 m da p.c. nel caso delle Vasche stoccaggio liquami, circa 40 m da p.c. nel caso della Vasche dell'impianto nitro-denitro e circa 10 m da p.c. nel caso della trave continua delle stalle.



*Figura 18.1. Andamento dei bulbi di tensione nel sottosuolo per fondazione a platea della Vasche liquami (sinistra), Vasche nitro-denitro (centro) e Trave continua delle Stalle (destra).
Elaborazione LoadCap della Geostru Software*

Si specifica che non sono stati trattati i cedimenti dei livelli sabbiosi, i quali generalmente tendono ad esaurirsi durante le fasi costruttive.

Come espresso nelle NTC18 le verifiche agli stati limite di esercizio hanno origine dalla formula:

$$E_d \leq C_d$$

In cui E_d rappresenta l'effetto delle azioni, mentre C_d rappresenta il massimo effetto (cedimento) tollerato dalla struttura. I calcoli dei cedimenti vengono effettuati considerando i moduli edometrici medi (da *Vannucchi G, 2009*) degli strati interessati dai bulbi di pressione, con applicazione di coefficienti parziali unitari.

Le deformazioni vengono calcolate considerando i carichi agenti sulla fondazione, impiegati con coefficienti parziali unitari e con i coefficienti ψ associati secondo le combinazioni imposte dalle NTC 18 e di seguito riportate:

Combinazione Caratteristica (rara) per stato limite di esercizio irreversibile:

$$E_d = G_1 + G_2 + P + Q_{K1} + \psi_{02} Q_{K2} + \psi_{03} Q_{K3} + \dots$$

Combinazione Frequente per stato limite di esercizio reversibile:

$$E_d = G_1 + G_2 + P + \psi_{11} Q_{K1} + \psi_{22} Q_{K2} + \psi_{23} Q_{K3} + \dots$$

Combinazione Quasi Permanente per stato limite esercizio effetti a lungo termine:

$$E_d = G_1 + G_2 + P + \psi_{21} Q_{K1} + \psi_{22} Q_{K2} + \psi_{23} Q_{K3} + \dots$$

Combinazione sismica, per gli stati limite ultimo (SLU) e di esercizio (SLE) connessi all'azione sismica E:

$$E_d = E + G_1 + G_2 + P + \psi_{21} Q_{K1} + \psi_{22} Q_{K2} + \psi_{23} Q_{K3} + \dots$$

Dove i fattori ψ sono indice della durata o simultaneità di una o più azioni variabili Q_{K2} , Q_{K3} ...ecc, le quali possono agire contemporaneamente all'azione variabile dominante Q_{K1}

Si premette che, nel caso in esame, si procederà alla stima delle deformazioni ipotizzando differenti valori di carico allo SLV sismico; in particolare verranno ipotizzati carichi variabili, a seconda delle condizioni, da 20 kPa a 80 kPa. Tutti i carichi si intendono comprensivi del contributo dell'apparato fondale. Sulla base di quanto premesso si riporta, nelle tabelle che seguono, la sintesi dei calcoli effettuati.

CEDIMENTI IN CONDIZIONI PSEUDO-STATICHE - VASCHE LIQUAMI			
IPOTESI CARICO SLV (kPa)	CEDIMENTO (cm)		
	Fondazione flessibile		Fondazione rigida
	centro	bordo	
30	0,69	0,57	0,63
40	2,23	1,84	2,04
50	3,81	3,16	3,48
60	6,34	5,41	5,87
70	9,00	7,81	8,40
80	11,67	10,22	10,95

CEDIMENTI IN CONDIZIONI PSEUDO-STATICHE - VASCHE NITRO-DENITRO			
IPOTESI CARICO SLV (kPa)	CEDIMENTO (cm)		
	Fondazione flessibile		Fondazione rigida
	centro	bordo	
20	C.L.T.	C.L.T.	C.L.T.
30	C.L.T.	C.L.T.	C.L.T.
40	C.L.T.	C.L.T.	C.L.T.
50	0,91	0,58	0,75
60	2,01	1,31	1,66
70	3,12	2,02	2,57
80	4,26	2,77	3,51
C.L.T. = compensazione litostatica totale (assenza di cedimenti)			

CEDIMENTI IN CONDIZIONI PSEUDO-STATICHE - STALLE			
IPOTESI CARICO SLV (kPa)	CEDIMENTO (cm)		
	Fondazione flessibile		Fondazione rigida
	centro	bordo	
30	0,63	0,32	0,47
40	1,07	0,53	0,80
50	1,51	0,75	1,13
60	1,95	0,97	1,46
70	2,39	1,19	1,79

Si precisa che il calcolo dei cedimenti ha tenuto conto della compensazione litostatica del terreno asportato per posare in opera il complesso opera-fondazione, portando ad una pressione effettiva ridotta rispetto a quanto indicato per il calcolo.

Inoltre la stima del cedimento uniforme per fondazione rigida è stato determinato secondo la seguente formula (Poulos e Davis, 1974), per fondazioni circolari e nastriformi:

$$S_{\text{fond. rigida}} = 1/2 (S_{\text{centro}} + S_{\text{bordo}})_{\text{fond. flessibile}}$$

Inoltre si specifica che, relativamente ai terreni coesivi, il cedimento calcolato è totale (S_t), ovvero composto dal contributo del cedimento immediato (S_i) e del cedimento di consolidazione (S_c), secondo la formula $S_t = S_i + S_c$, dove $S_i = 0,1 S_c$.

18.1 CONSIDERAZIONI SU IMPIANTO NITRO-DENITRO E LAGONI ESISTENTI

L'impianto per l'abbattimento dell'azoto risulta posizionato, da planimetria progettuale, in corrispondenza della porzione nord di due lagoni esistenti (come da **Figura 18.2**).



Estratto di immagine satellitare con indicazione, nel cerchio giallo, del settore che verrà occupato dall'impianto nitro-denitro.

Pertanto il piano di posa delle future vasche dell'impianto potrebbe essere caratterizzato da terreno parzialmente rimaneggiato derivante dalle operazioni di scavo sul sito e debitamente compattato con mezzi meccanici.

Quindi, in previsione della realizzazione della sovrastruttura, occorrerà prestare molta attenzione alla qualità geotecnica dei terreni sottostante il piano di posa, valutando, se presente, la possibile alterazione derivante dalle attività pregresse (realizzazione lagoni), dalle condizioni attuali (riempimento lagoni) e dalle condizioni future (attività di ripristino del livello piano campagna con terreno derivante dagli scavi sul sito di intervento).

I livelli superficiali sono infatti i più critici per quel che riguarda i cedimenti poiché interessati dalle pressioni maggiori. A tal proposito si propongono alcuni interventi volti a garantire l'uniformità e compattezza del piano di posa delle vasche dell'impianto e a scongiurare l'occorrenza di deformazioni verticali complessive e/o differenziali eccessive, che comporterebbero problemi di stabilità alla struttura.

- Valutare preventivamente, alla quota di posa delle fondazioni, il valore M_d del sottofondo attraverso prove di carico su piastra statiche, in modo da verificare che il sottofondo raggiunga i valori minimi richiesti ($M_d \geq 150 \text{ Kg/cm}^2$) per poter ospitare una sovrastruttura
- Qualora il materiale sia non uniforme arealmente oppure uniforme ma non adeguatamente compattato si consiglia di procedere secondo le seguenti possibilità, da valutare nelle fasi progettuali successive:
 - a) Rimozione degli spessori critici di terreno e rimpiazzo con materiale inerte idoneo, in modo da creare un piano di posa uniforme e a scarsa deformabilità. In alternativa valutare la possibilità di utilizzare il terreno in sito previo trattamento a calce o calce/cemento.
 - b) Valutare la possibilità di posare le platee su micropali, che, visto il tetto delle sabbie piuttosto superficiale, avrebbero profondità abbastanza ridotta. In questo modo verrebbero sostanzialmente azzerate le deformazioni verticali del terreno dovute al peso della struttura.

Ad ogni modo, qualsiasi considerazione specifica è rimandata alle successive fasi progettuali, valutando le caratteristiche strutturali dell'opera (pressioni minime e massime trasmesse al terreno, deformabilità ammissibile, ecc...) in relazione alle condizioni locali del terreno e determinando di conseguenza l'approccio più idoneo all'ottenimento delle garanzie prestazionali attese.

19 ANALISI DEL RISCHIO ALLA LIQUEFAZIONE

La verifica di liquefazione dei suoli è stata eseguita sui livelli potenzialmente liquefacibili, secondo il metodo di Boulanger e Idriss (2014), come prescritto dalla DGR 630/2019. E' noto che nei sedimenti granulari la presenza di percentuali di argilla riduce in maniera rilevante la suscettibilità alla liquefazione dei depositi. Anche la presenza di strati superficiali non liquefacibili con spessore maggiore di 3 metri può ulteriormente contrastare la liquefazione degli strati sottostanti.

Con le indagini geognostiche eseguite sono state evidenziate le disomogeneità stratigrafiche verticali. Il calcolo del coefficiente di sicurezza F_s individua con $F_s < 1,0$ la possibilità che avvenga la liquefazione, mentre $F_s > 1,0$ esclude la possibilità del fenomeno.

Nel caso specifico la verifica alla liquefazione è stata effettuata sui livelli totalmente o parzialmente incoerenti intercettati nelle 2 prove profonde eseguite (CPTU 3 e CPTU 4), considerando cautelativamente un livello di falda pari a 1 m da p.c.

19.1 PROCEDURA DI CALCOLO DEL FATTORE DI SICUREZZA A LIQUEFAZIONE

La verifica è stata articolata secondo le seguenti fasi:

- ☑ Determinazione dei parametri necessari ai calcoli, dall'elaborazione della prova penetrometrica statica; nello specifico si tratta delle resistenze di punta q_c e laterale f_s , della pressione atmosferica P_a , della tensione litostatica totale σ_{v0} e tensione litostatica efficace σ'_{v0} .
- ☑ Definizione del tipo di suolo attraverso l'indice I_c (Robertson, 1990), definito come:

$$I_c = [(3,47 - \log Q_n)^2 + (1,22 + \log F)^2]^{0,5}$$

Con:

$$Q_n = [(q_c - \sigma_{v0}) / P_a] * [(P_a / \sigma'_{v0})^m]$$

$$F = [f_s / (q_c - \sigma_{v0})] * 100\%$$

- ☑ Calcolo della resistenza conica normalizzata Q , con adeguato esponente m .
- ☑ Calcolo della resistenza penetrometrica statica normalizzata q_{c1N}

$$(q_{c1N}) = C_N * (q_c / P_a)$$

Con $C_N = (P_a / \sigma'_{v0})^m \leq 1,7$, in cui $m = 1,338 - 0,249 * (q_{c1Ncs})^{0,264}$

E con $21 \leq q_{c1Ncs} \leq 254$

Dal momento che il termine q_{c1Ncs} compare da entrambe le parti dell'equazione di partenza, viene calcolato in maniera iterativa, fino a far coincidere i due valori.

- ☑ Trasformazione della resistenza penetrometrica statica normalizzata q_{c1N} in resistenza penetrometrica statica normalizzata equivalente a sabbia pulita $(q_{c1N})_{CS}$ attraverso la relazione:

$$q_{c1Ncs} = (q_{c1N}) + \Delta q_{c1N}$$

In cui

$$\Delta q_{c1N} = \left(11.9 + \frac{q_{c1N}}{14.6} \right) \cdot \exp \left[1.63 - \frac{9.7}{FC + 2} - \left(\frac{15.7}{FC + 2} \right)^2 \right]$$

Con FC = contenuto di fini, in %

Dal momento che il termine q_{c1Ncs} compare da entrambe le parti dell'equazione di partenza, viene calcolato in maniera iterativa, fino a far coincidere i due valori.

Il parametro FC può essere determinato secondo la seguente formula, in assenza di prove di laboratorio specifiche.

$$FC = 80 I_c - 137$$

- ☑ Calcolo della capacità del terreno di resistere alla liquefazione, CRR, secondo la:

$$CRR = \exp \left[\frac{q_{c1Ncs}}{113} + \left(\frac{q_{c1Ncs}}{1000} \right)^2 - \left(\frac{q_{c1Ncs}}{140} \right)^3 + \left(\frac{q_{c1Ncs}}{137} \right)^4 - 2.80 \right]$$

- ☑ Calcolo del fattore di correzione della Magnitudo MSF:

$$MSF = 1 + (MSF_{\max} - 1) \left[8.64 \exp \left(\frac{-M}{4} \right) - 1.325 \right]$$

$$\text{Con } MSF_{\max} = 1.09 + \left(\frac{q_{c1Ncs}}{180} \right)^3 \leq 2.2$$

M è la magnitudine di riferimento per l'area di intervento.

Nel caso specifico, per scopi cautelativi, è stata utilizzata la magnitudine massima regionale

M = 6,14 e l'accelerazione $a_g = 0,17$ g ottenuta da analisi sismica semplificata.

- ☒ Calcolo del fattore K_σ (funzione della pressione litostatica efficace).

$$K_\sigma = 1 - C_\sigma \cdot \ln\left(\frac{\sigma'_v}{P_a}\right) \leq 1.1$$

$$C_\sigma = \frac{1}{37.3 - 8.27(q_{clNcs})^{0.264}} \leq 0.3$$

Con

- ☒ Calcolo del fattore di sicurezza a liquefazione come rapporto tra la capacità di resistenza a liquefazione e la domanda richiesta per il sito in esame:

$$F_L = \frac{CRR_{M=7.5; \sigma'_v=1atm}}{CSR_{M; \sigma'_v}} \cdot MSF \cdot K_\sigma$$

In cui:

$$CSR_{M; \sigma'_v} = 0.65 \cdot \frac{a_{max}}{g} \cdot \frac{\sigma_{v0}}{\sigma'_v} \cdot r_d$$

In cui, a sua volta, $a_{max} = a_g \cdot (S_T \cdot S_S)$. In questa formula a_g è l'accelerazione di riferimento; S_T è il coefficiente di amplificazione topografico, S_S è il coefficiente di amplificazione dipendente dalla categoria di suolo.

r_d è un coefficiente di riduzione con la profondità, definibile come segue:

$$r_d = \exp[\alpha(z) + \beta(z) \cdot M]$$

In cui:

$$\alpha(z) = -1.012 - 1.126 \cdot \sin\left(\frac{z}{11.73} + 5.133\right)$$

$$\beta(z) = 0.106 + 0.118 \cdot \sin\left(\frac{z}{11.28} + 5.142\right)$$

19.2 RISULTATI VERIFICA LIQUEFAZIONE

I risultati della verifica a liquefazione vengono riportati in **Allegato 2**; l'elaborazione è stata effettuata attraverso il software Cliq v. 1.7.6.49 della Geologismiki Geotechnical Engineers - Merarhias (Grecia). Si riportano i risultati ricavati per le CPTU esaminate.

Gli F_s , calcolati ogni 3 cm, risultano generalmente sempre superiori all'unità, come mostra il log dell'andamento dell' F_s (**Figura 19.1 e Figura 19.2, grafici Fs Plot**) e con valori di F_s generalmente superiori a $F_s=1,2$. In particolare in **Allegato 2** e in **Figura 19.1 e Figura 19.2** si illustrano, nel grafico "CRR Plot", gli andamenti di CRR (resistenza offerta), in viola, e CSR (domanda di resistenza richiesta), in rosso. È possibile notare in parte delle letture la resistenza offerta risulta inferiore alla domanda di resistenza richiesta, in particolare a all'interno dell'intervallo 2-12 m da p.c.. In questi livelli il rapporto CRR/CSR, che rappresenta l' F_s , risulta inferiore a 1, e il grafico corrispondente si sviluppa nel campo giallo-arancio, con $0,75 < F_s < 1,00$.

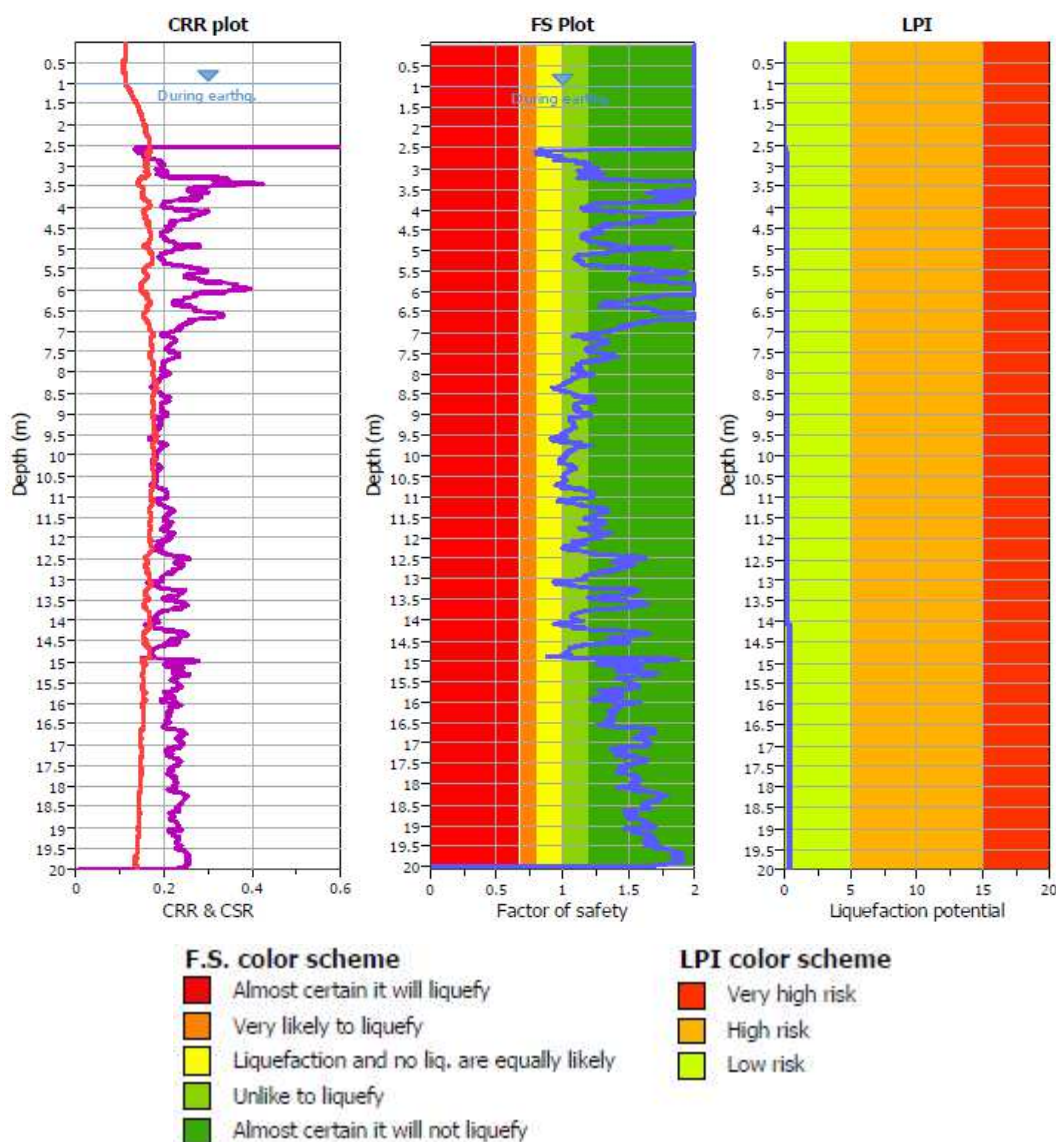


Figura 19.1. Grafici dell'andamento di CRR e CSR (sinistra), di F_s (centro) e di LPI (destra) in CPTU 3

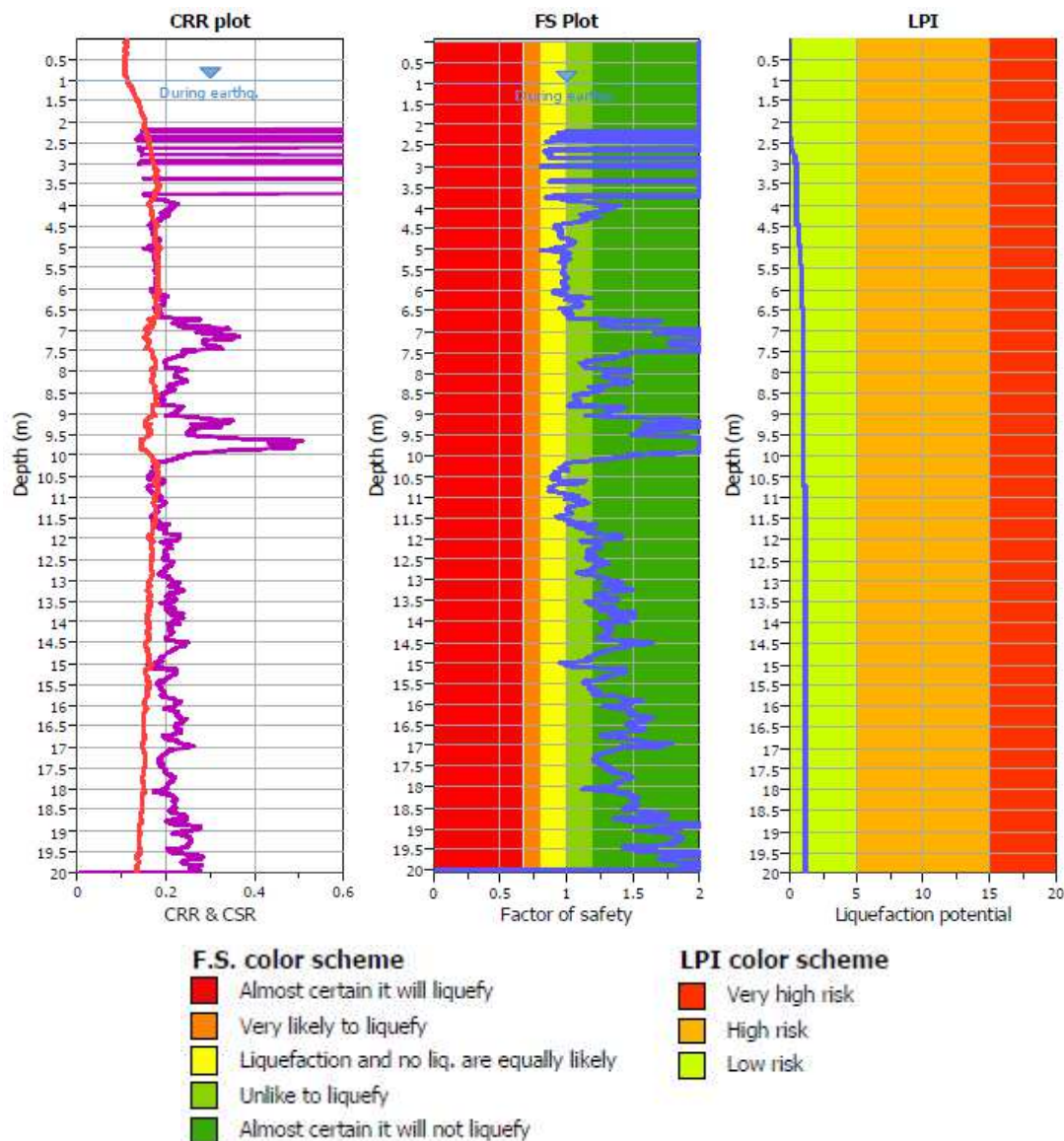


Figura 19.2. Grafici dell'andamento di CRR e CSR (sinistra), di Fs (centro) e di LPI (destra) in CPTU 4

- ☑ Per quanto riguarda la quantificazione del potenziale a liquefazione (I_L o LPI), si ricorda che questo è formulabile come segue:

$$LPI = \int_0^{z_{crit}} F(z) \cdot w(z) \cdot dz$$

In cui:

z_{crit} è la profondità massima alla quale strati liquefatti producono effetti in superficie

$w(z)$ è determinabile attraverso la seguente espressione:

$$w(z) = \frac{200}{z_{crit}} \cdot \left(1 - \frac{z}{z_{crit}} \right)$$

Inoltre:

$$\begin{aligned} F(z) &= 0 && \text{per } F_L \geq 1.2 \\ F(z) &= 2 \cdot 10^6 \cdot \exp(-18.427 \cdot F_L) && \text{per } 1.2 > F_L \geq 0.95 \\ F(z) &= 1 - F_L && \text{per } F_L \leq 0.95 \end{aligned}$$

con F_L (oppure F_s) = fattore di sicurezza a liquefazione)

Dai valori risultanti di L_L si può stimare il rischio a liquefazione così come segue (Sonmez, 2003):

POTENZIALE	RISCHIO LIQUEFAZIONE
$LPI = 0$	Nulla
$0 < LPI \leq 2$	Basso
$2 < LPI \leq 5$	Medio
$5 < LPI \leq 15$	Alto
$LPI > 15$	Molto alto

Le cumulate dei singoli prodotti $F_s \cdot w$ forniscano valori complessivi inferiori a 5, e in particolare inferiori a 2, come mostrato in **Figura 19.1** e **Figura 19.2 (grafici LPI)** e come riportato, unitamente all'indicazione di rischio di liquefazione, nella tabella di sintesi che segue.

POTENZIALE A LIQUEFAZIONE		
PROVA	LPI	LIQUEFACIBILITA'
CPTU 3	0,33	Rischio basso
CPTU 4	1,21	Rischio basso

- ☒ Il grafico "Summary of liquefaction potential" (**Allegato 2**), in cui sono plottate le coppie di punti rapporto d'attrito normalizzato - resistenza conica normalizzata, mostra che, complessivamente, tutti i punti ricadono a cavallo tra la Zona A1, in cui il potenziale a liquefazione dipende dall'entità e dalla durata del carico ciclico (anche se occorrerebbero prove specifiche per la verifica del rammollimento ciclico) e la Zona B, nella quale si ha liquefazione e perdita di resistenza post-sismica improbabile.

20 CONCLUSIONI

Le analisi e valutazioni condotte hanno consentito di caratterizzare dal punto di vista geologico, geotecnico e sismico il sito di intervento. Di seguito i punti salienti emersi:

- ☒ **FONDAZIONI:** Le fondazioni previste in prima analisi per il progetto saranno di tipo superficiale, a platea circolare per le vasche di stoccaggio liquame e per le vasche dell'impianto nitro-denitro, a trave continua per le stalle. Il livello statico della falda freatica è stato intercettato alla profondità media di 1,87 m da p.c. locale.

- ☒ **AZIONI DI PROGETTO
E RESISTENZE:** Per la natura del terreno individuato, per le caratteristiche geometriche delle fondazioni, e a seguito delle opportune correzioni effettuate in ottemperanza alla normativa vigente, la capacità portante, *in condizioni pseudo-statiche*, espressa come resistenza del sistema geotecnico R_d , risulta, nell'Approccio 2, pari a $R_d = 99 \text{ kPa}$ (1,01 kg/cm²) per le **Vasche liquame**, $R_d = 115 \text{ kPa}$ (1,17 kg/cm²) per le **Vasche impianto nitro-denitro** e $R_d = 68 \text{ kPa}$ (0,69 kg/cm²) per la **Stalle**.

- ☒ **CEDIMENTI
E DISTORSIONI:** L'analisi della deformabilità del sistema in condizioni pseudo-statiche ha messo in evidenza che, per valori di carico allo SLV variabili da 20 kPa a 80 kPa, il cedimento atteso risulta variabile, rispettivamente, da **0,63 cm** a **10,95 cm** per **Vasche Liquami**, da **0,75 cm** a **3,51 cm** per **Vasche nitro-denitro** (in questo caso specifico la pressione fino a 40 kPa comporta una compensazione litostatica totale, quindi assenza di cedimenti) e da **0,47 cm** a **1,79 cm** per la **Stalla**. Tali valori si intendono nel caso di fondazione rigida, per i dettagli si rimanda al cap. 18.

☒ CLASSIFICAZIONE

SISMICA:

Per la natura dei terreni individuata, per la collocazione geografica del sito e a seguito dell'elaborazione delle indagini effettuate i principali parametri sismici risultano i seguenti:

A_{ma} di picco al suolo: **0,17g** (da NTC18 per Tr=475 anni)

Categoria suolo: C (con $V_{seq} = V_{s30} = 219$ m/s media)

Frequenza fondamentale del sito: **f₀ = 0,80 Hz** (valore medio)

☒ LIQUEFAZIONE:

Per un sisma con magnitudo $M = 6,14$ e accelerazione $a_g = 0,17g$, e considerando un livello di falda pari a 1 m da p.c., si stima un potenziale a liquefazione massimo pari a **LPI = 1,21**, associando il sito a rischio basso.

Tutti gli elementi acquisiti in corso d'opera permettono di fornire, relativamente ad ogni aspetto delle verifiche effettuate, le informazioni atte a supportare la progettazione e ad esprimere un giudizio di idoneità complessiva del terreno investigato, per l'uso a cui verrà destinato.

Bondeno (FE), marzo 2021



Il tecnico

Dott. Geol. Stefano Vincenzi

TAVOLE

Allegato 1: Tavole dati CPTU

Allegato 2: Report verifica a liquefazione

Allegato 1
Tavole dati CPTU

Committente: Biopig s.s. di Cascione Luigi
Strumento utilizzato: PAGANI 200 kN (CPTU)
Prova eseguita in data: 16/10/2020
Profondità prova: 15,03 mt
Località: Zerbinate di Bondeno (FE)

PROVA CPTU 1

RESISTENZE

Profondità	qc	fs	Resistenza punta (Kg/cm²);	Resistenza laterale (Kg/cm²);
qc	fs	Inclinazione (°)	Temperatura (°)	
Tilt	Temp			
Fr	fs/qcx100 (Schmertmann)			
qcn	qc normalizzata (Kg/cm²);			
fsn	fs normalizzato (Kg/cm²);			
Uo	Pressione neutrale intorno al cono (Kg/cm²);			
U2	Pressione neutrale rilevata (Kg/cm²);			
Fc	Contenuto in materiale fine(%)			

Profondità	qc	fs	U01	Tilt	Temp	qc/fs	Fr	Uo	qcn	fsn	FC%
0.01	0.7	0.14	0.02	1.0	0.0	5.0	20.0	0.0	-0.3	20.9	0
0.02	1.6	0.19	0.01	0.9	0.0	8.421	11.875	0.0	0.6	12.1	207.49
0.03	2.0	0.21	0.00	0.8	0.0	9.524	10.5	0.0	1.0	10.9	175.37
0.04	2.3	0.21	0.01	0.8	0.0	10.952	9.13	0.0	1.3	9.4	157.44
0.05	2.6	0.21	0.00	0.9	0.0	12.381	8.077	0.0	1.6	8.1	140.5
0.06	3.2	0.22	0.00	0.8	0.0	14.545	6.875	0.0	2.2	6.7	122.79
0.07	3.5	0.22	0.00	0.8	0.0	15.909	6.286	0.0	2.5	6.3	116.07
0.08	3.7	0.24	-0.02	0.8	0.0	15.417	6.486	0.0	2.7	6.4	113.61
0.09	3.7	0.25	-0.06	0.8	0.0	14.8	6.757	0.0	2.7	6.7	114.81
0.10	3.7	0.25	0.04	0.8	0.0	14.8	6.757	0.0	2.7	6.8	115.46
0.11	3.8	0.25	-0.09	0.8	0.0	15.2	6.579	0.0	2.8	6.5	112.67
0.12	4.1	0.21	0.00	0.8	0.0	19.524	5.122	0.0	3.1	5.2	103.77
0.13	4.4	0.2	0.00	0.8	0.0	22.0	4.545	0.0	3.4	4.5	97.28
0.14	4.6	0.19	0.00	0.8	0.0	24.211	4.13	0.0	3.6	4.1	93.15
0.15	5.2	0.18	0.00	0.8	0.0	28.889	3.462	0.0	4.2	3.5	85.49
0.16	5.6	0.18	0.08	0.8	0.0	31.111	3.214	0.0	4.6	3.2	80.78
0.17	7.5	0.17	0.12	0.8	0.0	44.118	2.267	0.0	6.5	2.4	65.45
0.18	7.5	0.17	0.12	0.8	0.0	44.118	2.267	0.0	6.5	2.4	65.46
0.19	8.8	0.21	-0.01	0.7	0.0	41.905	2.386	0.0	7.8	2.3	60.33
0.20	8.8	0.21	0.00	0.8	0.0	41.905	2.386	0.0	7.8	2.4	60.65
0.21	7.9	0.22	0.00	0.7	0.0	35.909	2.785	0.0	6.9	2.8	66.66
0.22	7.2	0.23	0.00	0.7	0.0	31.304	3.194	0.0	6.2	3.3	72.32
0.23	7.2	0.25	0.00	0.7	0.0	28.8	3.472	0.0	6.2	3.5	73.73
0.24	7.6	0.27	0.00	0.7	0.0	28.148	3.553	0.0	6.6	3.6	72.42
0.25	6.8	0.29	0.00	0.7	0.0	23.448	4.265	0.0	5.8	4.3	79.65
0.26	5.9	0.3	-0.01	0.7	0.0	19.667	5.085	0.0	4.9	5.2	88.77
0.27	5.4	0.3	-0.01	0.7	0.0	18.0	5.556	0.0	4.4	5.6	93.93
0.28	6.1	0.28	0.01	0.8	0.0	21.786	4.59	0.0	5.1	4.6	84.84
0.29	6.5	0.26	0.01	0.7	0.0	25.0	4.0	0.0	5.5	4.1	80.28
0.30	6.4	0.26	0.01	0.7	0.0	24.615	4.063	0.0	5.4	4.0	80.46
0.31	6.6	0.25	0.01	0.7	0.0	24.4	4.098	0.0	5.1	4.2	83.06
0.32	5.9	0.23	0.00	0.7	0.0	25.652	3.898	0.0	4.9	3.6	82.47
0.33	5.6	0.21	0.00	0.6	0.0	26.667	3.75	0.0	4.6	3.9	84.43
0.34	4.9	0.21	0.00	0.7	0.0	23.333	4.286	0.0	3.9	4.3	91.99
0.35	4.3	0.2	0.00	0.7	0.0	21.5	4.651	0.0	3.3	4.8	99.86
0.36	4.4	0.19	0.00	0.6	0.0	23.158	4.318	0.0	3.4	4.5	97.15
0.37	4.2	0.18	0.00	0.7	0.0	23.933	4.286	0.0	3.2	4.4	98.75
0.38	4.3	0.18	-0.01	0.6	0.0	23.889	4.186	0.0	3.3	4.3	97.53
0.39	4.7	0.18	0.00	0.6	0.0	26.111	3.83	0.0	3.7	3.8	91.19
0.40	4.7	0.18	0.00	0.6	0.0	26.111	3.83	0.0	3.7	3.9	91.2
0.41	5.6	0.16	0.01	0.6	0.0	35.0	2.857	0.0	4.6	2.9	78.55
0.42	6.0	0.16	0.02	0.6	0.0	37.5	2.667	0.0	5.0	2.8	75.44
0.43	7.0	0.17	0.02	0.6	0.0	41.176	2.429	0.0	6.0	2.5	68.77

(Biopig s.s. di Cascione Luigi-Ampilamento impianto zootecnico-Zerbinate di Bondeno FE) 1

0.44	7.6	0.19	0.01	0.6	0.0	40.0
0.45	8.1	0.23	0.01	0.6	0.0	35.217
0.46	8.6	0.24	0.01	0.6	0.0	35.833
0.47	9.6	0.27	0.01	0.6	0.0	35.556
0.48	9.8	0.3	0.01	0.6	0.0	32.667
0.49	10.0	0.33	0.01	0.6	0.0	30.303
0.50	10.3	0.36	0.01	0.6	0.0	28.611
0.51	10.3	0.36	0.01	0.6	0.0	28.611
0.52	11.4	0.47	0.02	0.6	0.0	24.255
0.53	11.4	0.47	0.02	0.6	0.0	24.255
0.54	11.8	0.59	0.12	0.6	0.0	20.0
0.55	11.7	0.63	0.19	0.6	0.0	18.571
0.56	11.6	0.67	0.21	0.6	0.0	17.313
0.57	11.7	0.7	0.29	0.6	0.0	16.714
0.58	11.7	0.76	0.29	0.6	0.0	15.395
0.59	11.6	0.8	0.36	0.6	0.0	14.5
0.60	11.4	0.83	0.34	0.6	0.0	13.793
0.61	11.1	0.9	0.31	0.6	0.0	12.333
0.62	10.9	0.93	0.31	0.6	0.0	11.72
0.63	10.6	0.95	0.29	0.6	0.0	11.158
0.64	10.6	0.95	0.29	0.6	0.0	11.158
0.65	10.1	0.99	0.33	0.5	0.0	10.202
0.66	9.9	0.99	0.30	0.5	0.0	10.0
0.67	9.6	0.99	0.23	0.5	0.0	9.697
0.68	9.3	0.99	0.19	0.5	0.0	9.394
0.69	9.0	0.98	0.16	0.5	0.0	9.184
0.70	8.8	0.98	0.06	0.5	0.0	8.98
0.71	8.4	0.97	-0.05	0.5	0.0	8.697
0.72	8.2	0.95	-0.05	0.5	0.0	8.395
0.73	8.0	0.94	-0.06	0.5	0.0	8.511
0.74	7.9	0.92	-0.17	0.5	0.0	8.587
0.75	7.6	0.9	-0.19	0.5	0.0	8.444
0.76	7.5	0.89	-0.21	0.5	0.0	8.427
0.77	7.2	0.88	-0.22	0.5	0.0	8.182
0.78	6.9	0.85	-0.25	0.5	0.0	8.118
0.79	6.7	0.82	-0.24	0.5	0.0	8.171
0.80	6.3	0.78	-0.24	0.5	0.0	8.077
0.81	6.2	0.76	-0.24	0.5	0.0	8.158
0.82	6.1	0.73	-0.24	0.5	0.0	8.356
0.83	6.0	0.71	-0.23	0.5	0.0	8.451
0.84	6.0	0.64	-0.08	0.5	0.0	9.375
0.85	6.0	0.64	-0.08	0.5	0.0	9.375
0.86	5.4	0.59	-0.10	0.5	0.0	9.153
0.87	5.3	0.56	-0.07	0.5	0.0	9.464
0.88	5.2	0.52	-0.06	0.5	0.0	10.0
0.89	5.2	0.5	-0.05	0.5	0.0	10.4
0.90	5.2	0.48	-0.05	0.5	0.0	10.833
0.91	5.2	0.46	-0.05	0.5	0.0	11.304
0.92	5.4	0.42	-0.03	0.5	0.0	12.857
0.93	5.3	0.41	-0.01	0.6	0.0	12.927
0.94	5.2	0.4	0.00	0.5	0.0	13.0
0.95	5.0	0.39	0.01	0.5	0.0	12.821
0.96	4.9	0.39	0.01	0.5	0.0	12.564
0.97	4.8	0.38	0.01	0.5	0.0	12.632
0.98	4.8	0.38	0.01	0.5	0.0	12.632
0.99	4.4	0.37	0.02	0.5	0.0	11.892
1.00	4.5	0.36	0.02	0.5	0.0	12.5
1.01	4.4	0.36	0.02	0.5	0.0	12.222
1.02	4.3	0.35	0.02	0.5	0.0	12.286
1.03	4.4	0.35	-0.01	0.5	0.0	12.571
1.04	4.4	0.35	-0.01	0.5	0.0	12.571
1.05	4.4	0.35	-0.01	0.5	0.0	12.571
1.06	4.4	0.34	-0.01	0.5	0.0	12.941
1.07	4.4	0.33	0.01	0.5	0.0	13.333
1.08	4.4	0.33	0.01	0.5	0.0	13.333
1.09	4.7	0.33	0.02	0.5	0.0	14.242
1.10	4.8	0.33	0.02	0.5	0.0	14.545
1.11	4.8	0.33	0.02	0.5	0.0	14.545
1.12	4.7	0.33	0.00	0.5	0.0	14.242
1.13	4.6	0.33	0.00	0.5	0.0	13.939

2.54	16.5	0.13	0.01	0.5	0.0	126.923	0.788	0.104	15.2	0.8	32.98
2.55	16.1	0.12	-0.02	0.5	0.0	134.167	0.745	0.105	14.8	0.8	33.31
2.56	15.8	0.12	-0.02	0.5	0.0	131.667	0.759	0.106	14.5	0.8	33.37
2.57	15.3	0.11	-0.02	0.5	0.0	139.091	0.719	0.107	14.0	0.8	33.95
2.58	14.2	0.10	-0.01	0.5	0.0	135.455	0.738	0.130	13.0	0.8	34.73
2.59	14.6	0.12	-0.01	0.5	0.0	121.667	0.822	0.109	13.3	0.8	35.6
2.60	13.6	0.12	-0.01	0.5	0.0	113.333	0.882	0.111	12.3	0.9	37.83
2.61	13.1	0.12	0.00	0.5	0.0	109.167	0.916	0.111	11.8	0.9	39.25
2.62	13.1	0.12	0.00	0.5	0.0	109.167	0.916	0.112	11.8	0.9	39.26
2.63	12.0	0.12	0.00	0.5	0.0	100.0	1.0	0.113	10.6	1.1	42.65
2.64	11.4	0.12	0.00	0.5	0.0	95.0	1.053	0.114	10.1	1.1	44.73
2.65	10.2	0.13	0.01	0.5	0.0	78.462	1.275	0.115	8.9	1.3	49.25
2.66	9.7	0.13	0.03	0.5	0.0	74.615	1.34	0.116	8.4	1.5	51.81
2.67	9.2	0.13	0.05	0.5	0.0	70.769	1.413	0.117	7.9	1.5	54.04
2.68	8.2	0.13	0.09	0.5	0.0	63.077	1.585	0.118	6.9	1.7	58.96
2.69	7.4	0.14	0.12	0.5	0.0	55.714	1.795	0.119	6.5	1.8	61.45
2.70	7.4	0.13	0.19	0.5	0.0	56.923	1.757	0.12	6.0	2.0	64.45
2.71	7.0	0.14	0.29	0.5	0.0	50.0	2.0	0.121	5.6	2.1	67.71
2.72	6.4	0.14	0.53	0.5	0.0	45.714	2.188	0.122	5.0	2.3	72.26
2.73	6.2	0.13	0.56	0.6	0.0	47.692	2.097	0.123	4.8	2.3	73.55
2.74	6.2	0.13	0.57	0.6	0.0	47.692	2.097	0.124	4.8	2.3	73.56
2.75	6.0	0.13	0.41	0.6	0.0	46.154	2.167	0.125	4.6	2.3	74.44
2.76	5.8	0.12	0.39	0.6	0.0	48.333	2.069	0.126	4.4	2.3	75.85
2.77	5.7	0.13	0.52	0.6	0.0	43.846	2.281	0.127	4.3	2.5	77.93
2.78	5.6	0.13	0.55	0.6	0.0	43.077	2.321	0.128	4.2	2.6	79.43
2.79	5.7	0.13	0.55	0.6	0.0	43.846	2.281	0.129	4.3	2.6	78.63
2.80	5.6	0.12	0.58	0.6	0.0	46.667	2.143	0.13	4.2	2.4	78.27
2.81	5.6	0.12	0.56	0.6	0.0	46.667	2.143	0.131	4.2	2.4	77.64
2.82	5.6	0.12	0.62	0.6	0.0	46.667	2.143	0.132	4.2	2.4	77.66
2.83	5.4	0.12	0.62	0.6	0.0	45.0	2.222	0.133	4.0	2.5	80.18
2.84	5.2	0.12	0.59	0.6	0.0	43.333	2.308	0.134	3.8	2.5	81.78
2.85	5.1	0.11	0.57	0.6	0.0	46.364	2.157	0.135	3.7	2.4	82.04
2.86	5.1	0.11	0.58	0.6	0.0	46.364	2.157	0.136	3.7	2.4	82.01
2.87	5.3	0.12	0.58	0.6	0.0	44.167	2.264	0.137	3.9	2.6	81.45
2.88	5.3	0.12	0.58	0.6	0.0	44.167	2.264	0.138	3.9	2.5	80.9
2.89	5.4	0.11	0.59	0.6	0.0	49.091	2.037	0.139	4.0	2.2	78.35
2.90	5.5	0.1	0.64	0.6	0.0	55.0	1.818	0.14	4.1	2.1	76.21
2.91	5.5	0.1	0.75	0.6	0.0	55.0	1.818	0.141	4.1	2.0	75.7
2.92	5.6	0.09	0.80	0.6	0.0	62.222	1.607	0.142	4.2	1.7	72.75
2.93	5.7	0.09	0.80	0.6	0.0	63.333	1.579	0.143	4.3	1.8	72.3
2.94	5.8	0.1	0.80	0.6	0.0	58.0	1.724	0.144	4.4	1.9	72.74
2.95	5.8	0.1	0.80	0.6	0.0	58.0	1.724	0.145	4.4	1.9	73.23
2.96	5.6	0.08	0.79	0.6	0.0	70.0	1.429	0.146	4.2	1.6	71.54
2.97	5.6	0.07	0.79	0.6	0.0	80.0	1.25	0.147	4.2	1.5	70.51
2.98	5.8	0.07	0.79	0.6	0.0	82.857	1.207	0.148	4.4	1.4	68.39
2.99	5.7	0.08	0.77	0.6	0.0	71.25	1.404	0.149	4.3	1.6	70.54
3.00	5.7	0.08	0.71	0.6	0.0	71.25	1.404	0.15	4.3	1.7	71.47
3.01	5.6	0.09	0.70	0.6	0.0	62.222	1.607	0.151	4.2	1.8	73.28
3.02	5.6	0.09	0.67	0.6	0.0	62.222	1.607	0.152	4.2	1.9	73.96
3.03	5.6	0.1	0.67	0.6	0.0	56.0	1.786	0.153	4.2	1.9	74.3
3.04	5.6	0.1	0.67	0.6	0.0	56.0	1.786	0.154	4.2	1.9	74.32
3.05	5.6	0.1	0.67	0.6	0.0	56.0	1.786	0.155	4.2	1.9	74.34
3.06	5.5	0.12	1.17	0.6	0.0	45.833	2.182	0.156	4.1	2.4	79.21
3.07	5.6	0.12	1.02	0.6	0.0	46.667	2.143	0.157	4.2	2.4	78.07
3.08	5.5	0.12	0.83	0.6	0.0	45.833	2.182	0.158	4.1	2.4	79.21
3.09	5.3	0.13	0.67	0.6	0.0	40.769	2.453	0.159	3.9	2.7	82.68
3.10	5.2	0.14	0.72	0.6	0.0	37.133	2.692	0.16	3.8	2.9	85.02
3.11	5.6	0.1	0.67	0.6	0.0	61.143	2.092	0.161	3.8	3.1	86.1
3.12	5.2	0.15	0.80	0.6	0.0	34.667	2.885	0.162	3.8	3.3	87.49
3.13	5.2	0.15	0.82	0.6	0.0	34.667	2.885	0.163	3.8	3.3	87.49
3.14	5.5	0.15	0.85	0.6	0.0	36.667	2.727	0.164	4.1	3.0	83.4
3.15	6.1	0.15	0.87	0.6	0.0	40.667	2.459	0.165	4.7	2.8	77.47
3.16	6.5	0.16	0.87	0.6	0.0	40.625	2.462	0.166	5.0	2.7	74.71
3.17	7.1	0.17	0.86	0.6	0.0	41.765	2.394	0.167	5.6	2.6	70.82
3.18	7.0	0.17	0.85	0.6	0.0	41.176	2.429	0.168	5.5	2.6	71.32
3.19	6.8	0.16	0.83	0.6	0.0	42.5	2.353	0.169	5.3	2.6	72.12
3.20	6.5	0.15	0.82	0.6	0.0	43.333	2.308	0.17	5.0	2.6	73.79
3.21	6.5	0.15	0.82	0.6	0.0	43.333	2.308	0.171	5.0	2.6	73.8
3.22	5.1	0.1	0.79	0.6	0.0	48.182	2.075	0.172	3.9	2.2	80.72
3.23	5.1	0.1	0.80	0.6	0.0	51.0	1.961	0.173	3.7	2.2	81.22

(Biopg s.r.l. di Cascine Luig-Ampilamento impianto zootecnico-Zerbinate di Bondeno FE) - 5

3.24	4.9	0.09	0.86	0.6	0.0	54.444	1.837	0.174	3.5	2.1	82.21
3.25	4.8	0.07	1.11	0.6	0.0	68.571	1.458	0.175	3.4	1.6	78.9
3.26	4.8	0.06	1.16	0.6	0.0	80.0	1.25	0.176	3.4	1.5	77.41
3.27	4.8	0.06	1.17	0.6	0.0	80.0	1.25	0.177	3.4	1.5	77.5
3.28	4.8	0.06	1.16	0.6	0.0	80.0	1.25	0.178	3.4	1.5	77.84
3.29	4.9	0.06	1.23	0.6	0.0	81.667	1.224	0.179	3.5	1.3	74.47
3.30	5.2	0.05	1.31	0.6	0.0	104.0	0.962	0.18	3.8	1.2	70.48
3.31	5.6	0.05	1.41	0.6	0.0	112.0	0.893	0.181	4.1	1.1	66.26
3.32	7.6	0.05	1.52	0.7	0.0	152.0	0.658	0.182	6.2	0.7	51.45
3.33	9.2	0.06	1.55	0.7	0.0	153.333	0.652	0.183	7.8	0.7	45.03
3.34	10.8	0.07	1.53	0.7	0.0	154.286	0.648	0.184	9.3	0.7	40.91
3.35	12.0	0.08	1.06	0.7	0.0	150.0	0.667	0.185	10.5	0.7	38.53
3.36	12.9	0.08	0.45	0.7	0.0	161.25	0.62	0.186	11.5	0.7	36.41
3.37	13.1	0.08	0.28	0.7	0.0	163.75	0.611	0.187	11.7	0.7	36.25
3.38	14.2	0.09	0.27	0.7	0.0	157.778	0.634	0.188	12.8	0.7	34.44
3.39	15.9	0.11	0.37	0.7	0.0	159.0	0.629	0.189	14.4	0.6	32.01
3.40	18.5	0.13	0.39	0.7	0.0	142.308	0.703	0.19	17.1	0.7	30.08
3.41	27.6	0.15	0.45	0.7	0.0	184.0	0.543	0.191	26.1	0.6	21.32
3.42	31.8	0.16	0.38	0.7	0.0	198.75	0.503	0.192	30.3	0.5	18.76
3.43	34.1	0.16	-0.16	0.7	0.0	213.125	0.469	0.193	32.7	0.5	17.38
3.44	36.6	0.17	-0.12	0.7	0.0	215.294	0.464	0.194	35.1	0.5	16.37
3.45	36.8	0.17	0.10	0.7	0.0	216.471	0.462	0.195	35.3	0.5	16.37
3.46	36.7	0.17	-0.09	0.7	0.0	215.882	0.463	0.196	35.2	0.5	16.45
3.47	36.7	0.17	-0.07	0.7	0.0	215.882	0.463	0.197	35.2	0.5	16.41
3.48	36.8	0.17	-0.06	0.7	0.0	216.471	0.462	0.198	35.3	0.5	16.48
3.49	36.9	0.19	-0.03	0.7	0.0	194.211	0.515	0.199	35.4	0.5	17.07
3.50	36.9	0.2	-0.02	0.7	0.0	184.5	0.542	0.2	35.4	0.6	17.43
3.51	36.9	0.21	0.00	0.7	0.0	175.238	0.571	0.201	35.3	0.6	17.72
3.52	36.2	0.22	0.03	0.7	0.0	164.545	0.608	0.202	34.7	0.6	18.41
3.53	35.8	0.23	0.05	0.7	0.0	155.652	0.642	0.203	34.3	0.7	18.76
3.54	35.8	0.23	0.05	0.7	0.0	155.652	0.642	0.204	34.3	0.7	18.76
3.55	34.7	0.23	0.08	0.7	0.0	150.87	0.663	0.205	33.2	0.7	19.48
3.56	33.2	0.25	0.11	0.7	0.0	132.8	0.753	0.206	31.8	0.8	21.05
3.57	32.7	0.27	0.12	0.7	0.0	121.111	0.826	0.207	31.2	0.8	21.82
3.58	32.1	0.27	0.13	0.7	0.0	118.889	0.841	0.208	30.6	0.9	22.46
3.59	31.0	0.29	0.15	0.7	0.0	106.897	0.935	0.209	29.5	0.9	23.61
3.60	30.6	0.29	0.16	0.7	0.0	105.517	0.948	0.21	29.1	1.0	24.02
3.61	30.3	0.29	0.18	0.7	0.0	104.483	0.957	0.211	28.8	1.0	24.32
3.62	30.0	0.29	0.19	0.7	0.0	103.448	0.967	0.212	28.5	1.0	24.57
3.63	29.7	0.29	0.21	0.8	0.0	102.414	0.976	0.213	28.2	1.0	24.79
3.64	29.6	0.29	0.22	0.8	0.0	102.069	0.98	0.214	28.1	1.0	24.84
3.65	29.5	0.29	0.23	0.7	0.0	101.724	0.983	0.215	28.0	1.0	24.9
3.66	29.2	0.29	0.25	0.8	0.0	100.699	0.993	0.216	27.7	1.0	25.11
3.67	29.2	0.29	0.25	0.8	0.0	100.699	0.993	0.217	27.7	1.0	25.11
3.68	29.1	0.28	0.27	0.8	0.0	103.929	0.962	0.218	27.6	1.0	25.05
3.69	29.0	0.28	0.28	0.8	0.0	103.571	0.966	0.219	27.5	1.0	25.09
3.70	28.8	0.28	0.29	0.8	0.0	103.214	0.969	0.22	27.4	1.0	25.02
3.71	28.5	0.27	0.30	0.8	0.0	105.556	0.947	0.221	27.0	1.0	25.13
3.72	28.2	0.27	0.31	0.8	0.0	104.444	0.957	0.222	26.6	1.0	25.31
3.73	28.1	0.26	0.31	0.8	0.0	108.07	0.923	0.223	26.6	1.0	25.31
3.74	28.1	0.26	0.31	0.8	0.0	108.077	0.925	0.224	26.6	1.0	25.31
3.75	27.6	0.26	0.33	0.8	0.0	106.154	0.942	0.225	26.1	1.0	25.66
3.76	27.4	0.26	0.34	0.8	0.0	105.385	0.949	0.226	25.9	1.0	25.8
3.77	27.4	0.26	0.34	0.8	0.0	105.385	0.949	0.227	25.9	1.0	25.72
3.78	27.3	0.26	0.34	0.8	0.0	105.0	0.952	0.228	25.8	1.0	25.78
3.79	26.7	0.25	0.35	0.8	0.0	106.8	0.936	0.229	25.2	1.0	26.27
3.80	25.8	0.25	0.35	0.8	0.0	103.2	0.969	0.23	24.3	1.0	27.12
3.81	24.6	0.26	0.35	0.8	0.0	94.615	1.057	0.231	23.1	1.1	28.48
3.82	23.2	0.26	0.35	0.8	0.0	89.231	1.121	0.232	21.7	1.2	30.36
3.83	21.5	0.29	0.35	0.8	0.0	74.138	1.349	0.233	20.4	1.4	33.61
3.84	22.2	0.3	0.37	0.8	0.0	74.0	1.351	0.234	20.7	1.4	33.19
3.85	23.7	0.32	0.39	0.8	0.0	74.006	1.335	0.235	22.2	1.2	31.68
3.86	27.8	0.34	0.45	0.8	0.0	81.765	1.223	0.236	26.2	1.2	27.9
3.87	29.9	0.35	0.44	0.8	0.0	85.429	1.171	0.237	28.4	1.2	26.45
3.88	33.7	0.37	0.29	0.8	0.0	91.081	1.098	0.238	32.2	1.1	23.87
3.89	38.9	0.36	0.05	0.8	0.0	108.056	0.925	0.239	37.9	0.9	20.33
3.90	41.0	0.31	-0.10	0.8	0.0	149.67	0.66	0.24	49.9	0.7	15.88
3.91	49.0	0.31	-0.06	0.8	0.0	158.065	0.633	0.241	47.5	0.6	14.81
3.92	51.0	0.3	-0.03	0.8	0.0	170.0	0.588	0.242	49.5	0.6	14
3.93	53.0	0.27	0.00	0.8	0.0	196.296	0.509	0.243	51.4	0.5	12.78

5.34	66.4	0.51	0.48	0.9	0.0	130.196	0.768	0.384	64.8	0.8	12.83
5.35	66.1	0.51	0.48	1.0	0.0	129.608	0.772	0.385	64.5	0.8	12.91
5.36	66.1	0.51	0.48	1.0	0.0	129.608	0.772	0.386	64.5	0.8	12.92
5.37	66.2	0.51	0.48	1.0	0.0	129.804	0.777	0.387	64.6	0.8	12.88
5.38	66.3	0.51	0.48	1.0	0.0	132.6	0.754	0.388	64.7	0.8	12.83
5.39	66.7	0.5	0.49	1.0	0.0	133.4	0.75	0.389	65.1	0.8	12.69
5.40	66.9	0.5	0.49	1.0	0.0	133.8	0.747	0.39	65.3	0.8	12.65
5.41	67.1	0.5	0.49	1.0	0.0	134.2	0.745	0.391	65.5	0.8	12.57
5.42	66.9	0.49	0.49	1.0	0.0	136.531	0.732	0.392	65.3	0.8	12.55
5.43	66.8	0.49	0.49	1.0	0.0	134.286	0.745	0.393	64.2	0.8	12.73
5.44	65.2	0.48	0.49	1.0	0.0	135.833	0.736	0.394	63.6	0.6	12.83
5.45	64.5	0.48	0.49	1.0	0.0	134.375	0.744	0.395	62.9	0.8	12.97
5.46	64.4	0.48	0.49	1.0	0.0	134.167	0.745	0.396	62.8	0.8	12.98
5.47	64.7	0.48	0.49	1.0	0.0	134.792	0.742	0.397	63.1	0.8	12.94
5.48	65.4	0.48	0.50	1.0	0.0	136.25	0.734	0.398	63.8	0.8	12.76
5.49	66.3	0.48	0.50	1.0	0.0	138.125	0.724	0.399	64.7	0.7	12.51
5.50	68.7	0.47	0.51	1.0	0.0	145.106	0.689	0.4	66.6	0.7	11.94
5.51	68.9	0.47	0.51	1.0	0.0	146.596	0.682	0.401	67.3	0.7	11.74
5.52	69.2	0.47	0.51	1.0	0.0	147.234	0.679	0.402	67.6	0.7	11.64
5.53	68.6	0.47	0.51	1.0	0.0	145.957	0.685	0.403	67.0	0.7	11.79
5.54	67.9	0.47	0.50	1.0	0.0	144.468	0.692	0.404	66.2	0.7	11.99
5.55	67.2	0.47	0.50	1.0	0.0	142.979	0.699	0.405	65.5	0.7	12.19
5.56	66.3	0.47	0.50	1.0	0.0	141.064	0.709	0.406	64.7	0.7	12.44
5.57	64.7	0.48	0.50	1.0	0.0	134.792	0.742	0.407	63.1	0.8	12.91
5.58	64.0	0.48	0.50	1.0	0.0	133.333	0.75	0.408	62.4	0.8	13.11
5.59	63.4	0.48	0.50	1.0	0.0	132.083	0.757	0.409	61.8	0.8	13.29
5.60	62.4	0.49	0.50	1.0	0.0	127.347	0.785	0.41	60.7	0.8	13.67
5.61	62.2	0.49	0.50	1.0	0.0	126.939	0.788	0.411	60.7	0.8	13.76
5.62	62.3	0.5	0.50	1.0	0.0	124.6	0.803	0.412	60.6	0.8	13.76
5.63	62.6	0.5	0.50	1.0	0.0	125.2	0.799	0.413	60.9	0.8	13.71
5.64	63.8	0.5	0.51	1.0	0.0	127.6	0.784	0.414	62.2	0.8	13.41
5.65	64.7	0.5	0.51	1.0	0.0	129.4	0.773	0.415	63.1	0.8	13.21
5.66	67.0	0.5	0.52	1.0	0.0	134.0	0.746	0.416	65.3	0.8	12.66
5.67	68.3	0.5	0.52	1.0	0.0	136.6	0.732	0.417	66.7	0.8	12.3
5.68	69.5	0.5	0.52	1.0	0.0	139.0	0.719	0.418	67.9	0.7	12
5.69	71.0	0.5	0.53	1.0	0.0	142.0	0.704	0.419	69.4	0.7	11.63
5.70	72.5	0.49	0.53	1.0	0.0	147.959	0.676	0.42	70.8	0.7	11.26
5.71	76.0	0.49	0.54	1.0	0.0	155.102	0.645	0.421	74.4	0.7	10.45
5.72	77.6	0.48	0.54	1.0	0.0	161.667	0.619	0.422	75.9	0.6	10.11
5.73	79.8	0.48	0.55	1.0	0.0	166.25	0.602	0.423	78.2	0.6	9.67
5.74	79.8	0.48	0.55	1.0	0.0	166.25	0.602	0.424	78.2	0.6	9.67
5.75	80.8	0.48	0.54	1.0	0.0	168.333	0.594	0.425	79.2	0.6	9.53
5.76	81.2	0.49	0.54	1.0	0.0	165.714	0.603	0.426	79.6	0.6	9.5
5.77	81.6	0.49	0.54	1.0	0.0	166.531	0.6	0.427	79.9	0.6	9.5
5.78	82.6	0.51	0.54	1.0	0.0	161.961	0.617	0.428	80.9	0.6	9.48
5.79	83.3	0.51	0.54	1.0	0.0	163.333	0.612	0.429	81.6	0.6	9.43
5.80	85.0	0.52	0.54	1.0	0.0	163.462	0.612	0.43	83.4	0.6	9.23
5.81	85.0	0.52	0.54	1.0	0.0	163.462	0.612	0.431	83.4	0.6	9.23
5.82	86.7	0.53	0.55	1.0	0.0	163.585	0.611	0.432	85.0	0.6	9.06
5.83	87.1	0.53	0.55	1.0	0.0	164.34	0.608	0.433	85.4	0.6	9.04
5.84	86.9	0.55	0.54	1.0	0.0	158.703	0.633	0.434	85.2	0.6	9.21
5.85	86.8	0.56	0.54	1.0	0.0	154.286	0.648	0.435	84.8	0.7	9.4
5.86	85.9	0.57	0.54	1.0	0.0	150.702	0.664	0.436	84.7	0.7	9.58
5.87	85.3	0.58	0.54	1.0	0.0	147.069	0.68	0.437	83.7	0.7	9.81
5.88	85.3	0.58	0.54	1.0	0.0	147.069	0.68	0.438	83.7	0.7	9.81
5.89	83.7	0.6	0.54	1.0	0.0	139.5	0.717	0.439	82.1	0.7	10.31
5.90	83.4	0.61	0.54	1.0	0.0	136.721	0.731	0.44	81.8	0.7	10.41
5.91	83.0	0.62	0.54	1.0	0.0	133.871	0.747	0.441	81.3	0.7	10.59
5.92	83.0	0.62	0.54	1.0	0.0	133.871	0.747	0.442	81.3	0.8	10.63
5.93	83.1	0.63	0.54	1.0	0.0	131.905	0.758	0.443	81.4	0.8	10.65
5.94	83.4	0.63	0.54	1.0	0.0	132.381	0.755	0.444	81.7	0.8	10.62
5.95	83.8	0.63	0.55	1.0	0.0	133.016	0.752	0.445	82.2	0.8	10.57
5.96	84.1	0.63	0.55	1.0	0.0	133.492	0.749	0.446	82.5	0.8	10.54
5.97	84.2	0.64	0.55	1.0	0.0	131.563	0.76	0.447	82.6	0.8	10.52
5.98	84.6	0.65	0.55	1.0	0.0	130.154	0.768	0.448	83.0	0.8	10.55
5.99	84.9	0.65	0.55	1.0	0.0	130.615	0.766	0.449	83.3	0.8	10.49
6.00	85.2	0.64	0.55	1.0	0.0	133.125	0.751	0.45	83.6	0.8	10.43
6.01	85.4	0.64	0.55	1.0	0.0	133.438	0.749	0.451	83.8	0.8	10.38
6.02	85.6	0.65	0.55	1.0	0.0	133.75	0.748	0.452	84.2	0.8	10.34
6.03	85.8	0.64	0.55	1.0	0.0	134.063	0.746	0.453	84.2	0.8	10.3

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6.04	85.8	0.64	0.55	1.0	0.0	134.063	0.746	0.454	84.2	0.8	10.3
6.05	85.8	0.64	0.55	1.0	0.0	134.063	0.746	0.455	84.2	0.8	10.3
6.06	85.1	0.52	0.60	1.1	0.0	163.654	0.611	0.456	83.5	0.6	9.23
6.07	85.2	0.53	0.59	1.0	0.0	160.755	0.622	0.457	83.6	0.6	9.35
6.08	85.4	0.56	0.58	1.0	0.0	152.5	0.656	0.458	83.8	0.7	9.57
6.09	85.4	0.57	0.57	1.0	0.0	149.825	0.667	0.459	83.8	0.7	9.68
6.10	85.4	0.58	0.57	1.0	0.0	147.241	0.679	0.46	83.8	0.7	9.77
6.11	85.5	0.59	0.57	1.0	0.0	144.915	0.69	0.461	83.9	0.7	9.85
6.12	85.5	0.61	0.56	1.0	0.0	140.164	0.713	0.462	83.9	0.7	10.02
6.13	85.7	0.61	0.56	1.0	0.0	140.492	0.712	0.463	84.1	0.7	10.06
6.14	85.8	0.62	0.56	1.0	0.0	138.387	0.723	0.464	84.2	0.7	10.11
6.15	86.0	0.63	0.56	1.0	0.0	136.508	0.733	0.465	84.4	0.7	10.12
6.16	86.4	0.63	0.56	1.0	0.0	137.143	0.729	0.466	84.7	0.7	10.05
6.17	86.9	0.63	0.56	1.0	0.0	137.937	0.725	0.467	85.2	0.7	9.97
6.18	87.3	0.63	0.57	1.0	0.0	138.571	0.722	0.468	85.6	0.7	9.95
6.19	88.1	0.63	0.57	1.0	0.0	139.841	0.715	0.469	86.4	0.7	9.86
6.20	88.2	0.64	0.57	1.0	0.0	137.813	0.726	0.47	86.5	0.7	9.87
6.21	88.5	0.64	0.57	1.0	0.0	138.281	0.723	0.471	86.8	0.7	9.83
6.22	88.5	0.64	0.57	1.0	0.0	138.281	0.723	0.472	86.8	0.7	9.88
6.23	88.5	0.65	0.57	1.0	0.0	136.154	0.734	0.473	86.9	0.7	9.88
6.24	88.5	0.65	0.57	1.0	0.0	136.154	0.734	0.474	86.8	0.7	9.9
6.25	88.5	0.65	0.57	1.0	0.0	136.154	0.734	0.475	86.8	0.7	9.92
6.26	88.5	0.65	0.57	1.0	0.0	136.154	0.734	0.476	86.8	0.7	9.92
6.27	88.5	0.65	0.57	1.1	0.0	136.154	0.734	0.477	86.8	0.8	9.95
6.28	88.2	0.66	0.57	1.0	0.0	133.636	0.748	0.478	86.5	0.8	10.04
6.29	88.1	0.66	0.57	1.1	0.0	133.485	0.749	0.479	86.4	0.8	10.07
6.30	88.0	0.66	0.57	1.1	0.0	133.333	0.75	0.48	86.3	0.8	10.11
6.31	88.0	0.66	0.57	1.1	0.0	133.333	0.75	0.481	86.3	0.8	10.13
6.32	88.5	0.66	0.57	1.0	0.0	134.091	0.746	0.482	86.8	0.8	10.05
6.33	88.7	0.66	0.58	1.1	0.0	134.394	0.744	0.483	87.1	0.8	10
6.34	89.2	0.66	0.58	1.1	0.0	135.152	0.74	0.484	87.6	0.8	9.93
6.35	90.6	0.66	0.58	1.1	0.0	137.273	0.728	0.485	89.0	0.7	9.72
6.36	91.3	0.67	0.58	1.1	0.0	136.269	0.734	0.486	89.6	0.7	9.62
6.37	92.3	0.67	0.59	1.1	0.0	137.761	0.726	0.487	90.6	0.7	9.49
6.38	93.2	0.67	0.59	1.1	0.0	139.104	0.719	0.488	91.5	0.7	9.37
6.39	95.2	0.67	0.59	1.1	0.0	142.09	0.704	0.489	93.6	0.7	9.08
6.40	96.3	0.67	0.59	1.1	0.0	143.731	0.696	0.49	94.6	0.7	8.92
6.41	97.6	0.67	0.60	1.1	0.0	145.672	0.686	0.491	95.9	0.7	8.76
6.42	100.1	0.67	0.60	1.1	0.0	149.403	0.669	0.492	98.5	0.7	8.43
6.43	100.1	0.67	0.60	1.1	0.0	149.403	0.669	0.493	98.5	0.7	8.43
6.44	103.1	0.68	0.60	1.1	0.0	151.618	0.66	0.494	101.4	0.7	8.08
6.45	106.2	0.68	0.61	1.1	0.0	156.176	0.64	0.495	104.5	0.7	7.72
6.46	107.5	0.69	0.61	1.1	0.0	155.797	0.649	0.496	105.2	0.7	7.6
6.47	108.7	0.69	0.61	1.1	0.0	157.536	0.635	0.497	107.0	0.6	7.48
6.48	110.6	0.7	0.61	1.1	0.0	158.0	0.633	0.498	109.0	0.6	7.32
6.49	111.5	0.7	0.61	1.1	0.0	159.286	0.628	0.499	109.8	0.6	7.27
6.50	112.3	0.71	0.61	1.1	0.0	158.169	0.637	0.5	110.6	0.6	7.23
6.51	113.0	0.72	0.61	1.1	0.0	156.949	0.632	0.501	111.3	0.7	7.23
6.52	114.4	0.74	0.61	1.1	0.0	154.598	0.649	0.502	112.5	0.7	7.19
6.53	115.2	0.75	0.61	1.2	0.0	153.6	0.651	0.503	113.6	0.7	7.17
6.54	116.0	0.76	0.62	1.1	0.0	152.632	0.655	0.504	114.3	0.7	7.15
6.55	117.0	0.78	0.62	1.2	0.0	150.0	0.667	0.505	115.3	0.7	7.2
6.56	117.1	0.79	0.62	1.2	0.0	148.228	0.675	0.506	115.4	0.7	7.26
6.57	116.8	0.8	0.61	1.2	0.0	146.0	0.685	0.507	115.1	0.7	7.35
6.58	116.1	0.81	0.61	1.1	0.0	143.21	0.693	0.508	114.7	0.7	7.51
6.59	113.6	0.83	0.61	1.2	0.0	136.867	0.731	0.509	111.7	0.7	7.93
6.60	111.7	0.84	0.61	1.2	0.0	132.976	0.752	0.51	110.0	0.8	8.22
6.61	107.6	0.87	0.61	1.2	0.0	123.678	0.809	0.511	105.9	0.8	8.88
6.62	107.6	0.87	0.61	1.2	0.0	123.678	0.809	0.512	105.9	0.8	8.88
6.63	102.3	0.88	0.60	1.2	0.0	116.25	0.86	0.513	100.6	0.9	9.72
6.64	99.5	0.89	0.60	1.2	0.0	111.798	0.88	0.514	97.4	0.9	9.85
6.65	94.5	0.91	0.60	1.2	0.0	103.846	0.963	0.515	92.9	1.0	11.11
6.66	92.1	0.92	0.60	1.2	0.0	100.109	0.999	0.516	90.4	1.0	11.57
6.67	90.0	0.92	0.59	1.2	0.0	97.826	1.022	0.517	88.4	1.0	11.96
6.68	85.8	0.93	0.59	1.2	0.0	92.258	1.084	0.518	84.1	1.1	12.82
6.69	84.0	0.93	0.59	1.2	0.0	90.323	1.107	0.519	82.4	1.1	13.19
6.70	82.9	0.93	0.59	1.2	0.0	89.14	1.122	0.52	81.1	1.1	13.51
6.71	82.2	0.93	0.60	1.2	0.0	88.387	1.131	0.521	80.5	1.2	13.52
6.72	82.3	0.9	0.61	1.2	0.0	91.444	1.094	0.522	80.6	1.1	13.3
6.73	82.8	0.89	0.61	1.2	0.0	93.034	1.075	0.523	81.1	1.1	13.08

8.14	109.5	0.74	0.75	1.4	0.0	147.973	0.676	0.664	107.8	0.7	7.76
8.15	109.4	0.74	0.75	1.4	0.0	147.838	0.676	0.665	107.7	0.7	7.76
8.16	108.7	0.74	0.75	1.4	0.0	146.892	0.681	0.666	107.1	0.7	7.84
8.17	108.5	0.74	0.75	1.4	0.0	146.622	0.682	0.667	106.8	0.7	7.88
8.18	108.4	0.74	0.75	1.4	0.0	145.946	0.685	0.668	106.5	0.7	7.95
8.19	107.5	0.74	0.75	1.4	0.0	145.27	0.688	0.669	105.8	0.7	8.04
8.20	106.8	0.75	0.75	1.4	0.0	142.4	0.702	0.67	105.1	0.7	8.16
8.21	105.5	0.75	0.75	1.4	0.0	140.667	0.711	0.671	103.8	0.7	8.37
8.22	104.7	0.76	0.75	1.4	0.0	137.763	0.726	0.672	103.0	0.7	8.51
8.23	103.7	0.76	0.75	1.4	0.0	136.447	0.733	0.673	102.1	0.8	8.67
8.24	103.5	0.76	0.75	1.4	0.0	136.184	0.734	0.674	101.5	0.7	8.71
8.25	103.5	0.76	0.76	1.4	0.0	136.184	0.734	0.675	101.8	0.8	8.71
8.26	103.9	0.76	0.76	1.4	0.0	136.711	0.731	0.676	102.3	0.7	8.62
8.27	104.8	0.75	0.76	1.4	0.0	139.733	0.716	0.677	103.1	0.7	8.46
8.28	106.7	0.74	0.76	1.4	0.0	144.189	0.694	0.678	105.0	0.7	8.14
8.29	107.6	0.74	0.77	1.4	0.0	145.405	0.688	0.679	105.9	0.7	7.98
8.30	108.3	0.73	0.76	1.4	0.0	148.356	0.674	0.68	106.6	0.7	7.86
8.31	109.0	0.71	0.76	1.4	0.0	153.521	0.651	0.681	107.4	0.7	7.65
8.32	109.2	0.71	0.77	1.4	0.0	153.803	0.65	0.682	107.5	0.7	7.58
8.33	109.4	0.7	0.77	1.4	0.0	156.286	0.64	0.683	107.7	0.7	7.52
8.34	109.6	0.7	0.77	1.4	0.0	156.571	0.639	0.684	107.9	0.7	7.46
8.35	110.1	0.69	0.77	1.4	0.0	159.565	0.627	0.685	108.4	0.6	7.34
8.36	110.2	0.69	0.77	1.4	0.0	159.71	0.626	0.686	108.5	0.6	7.32
8.37	110.1	0.69	0.77	1.4	0.0	159.565	0.627	0.687	108.4	0.6	7.33
8.38	110.1	0.69	0.77	1.4	0.0	159.565	0.627	0.688	108.4	0.6	7.34
8.39	109.8	0.69	0.77	1.4	0.0	159.13	0.628	0.689	108.1	0.6	7.4
8.40	109.7	0.7	0.77	1.4	0.0	156.714	0.638	0.69	108.0	0.7	7.47
8.41	109.7	0.7	0.77	1.4	0.0	156.571	0.639	0.691	107.9	0.7	7.51
8.42	109.3	0.71	0.77	1.4	0.0	153.944	0.65	0.692	107.6	0.7	7.56
8.43	108.8	0.71	0.77	1.4	0.0	153.239	0.653	0.693	107.2	0.7	7.65
8.44	108.5	0.71	0.77	1.4	0.0	152.817	0.654	0.694	106.8	0.7	7.71
8.45	107.8	0.72	0.77	1.4	0.0	149.722	0.668	0.695	106.1	0.7	7.83
8.46	107.3	0.72	0.78	1.4	0.0	149.028	0.671	0.696	105.6	0.7	7.92
8.47	106.0	0.73	0.78	1.5	0.0	145.205	0.689	0.697	104.3	0.7	8.15
8.48	106.0	0.73	0.78	1.5	0.0	145.205	0.689	0.698	104.3	0.7	8.15
8.49	104.5	0.74	0.78	1.5	0.0	141.216	0.708	0.699	102.8	0.7	8.39
8.50	103.7	0.74	0.78	1.5	0.0	140.135	0.714	0.7	102.1	0.7	8.5
8.51	102.4	0.74	0.78	1.5	0.0	138.378	0.723	0.701	100.7	0.7	8.7
8.52	101.8	0.74	0.78	1.5	0.0	137.568	0.727	0.702	100.1	0.7	8.78
8.53	101.1	0.74	0.78	1.5	0.0	136.622	0.732	0.703	99.4	0.8	8.87
8.54	100.7	0.74	0.78	1.5	0.0	136.081	0.735	0.704	99.0	0.8	8.92
8.55	99.7	0.74	0.79	1.5	0.0	134.73	0.742	0.705	98.0	0.8	9.05
8.56	99.2	0.74	0.79	1.5	0.0	134.054	0.746	0.706	97.5	0.8	9.12
8.57	98.6	0.74	0.79	1.5	0.0	133.243	0.751	0.707	97.0	0.8	9.2
8.58	97.2	0.74	0.79	1.5	0.0	131.351	0.761	0.708	95.5	0.8	9.41
8.59	97.2	0.74	0.79	1.5	0.0	131.351	0.761	0.709	95.5	0.8	9.42
8.60	95.9	0.73	0.79	1.5	0.0	131.37	0.761	0.71	94.2	0.8	9.53
8.61	95.3	0.73	0.79	1.5	0.0	130.548	0.766	0.711	93.6	0.8	9.59
8.62	95.0	0.73	0.79	1.5	0.0	130.137	0.768	0.712	93.3	0.8	9.6
8.63	94.8	0.72	0.79	1.5	0.0	131.667	0.759	0.713	93.1	0.8	9.55
8.64	94.7	0.71	0.79	1.5	0.0	133.38	0.75	0.714	93.0	0.8	9.52
8.65	94.7	0.71	0.79	1.5	0.0	133.38	0.75	0.715	93.0	0.8	9.52
8.66	94.7	0.71	0.79	1.5	0.0	135.571	0.738	0.716	93.2	0.8	9.42
8.67	94.7	0.69	0.79	1.5	0.0	137.246	0.729	0.717	93.0	0.7	9.36
8.68	94.7	0.69	0.79	1.5	0.0	137.246	0.729	0.718	93.0	0.7	9.36
8.69	94.5	0.68	0.79	1.5	0.0	138.971	0.712	0.719	92.8	0.7	9.32
8.70	93.9	0.67	0.80	1.5	0.0	140.149	0.714	0.72	92.2	0.7	9.33
8.71	93.5	0.67	0.80	1.5	0.0	139.552	0.717	0.721	91.9	0.7	9.35
8.72	93.0	0.67	0.80	1.5	0.0	138.06	0.72	0.722	91.3	0.7	9.43
8.73	92.5	0.67	0.80	1.5	0.0	138.06	0.724	0.723	90.8	0.7	9.5
8.74	92.0	0.67	0.80	1.5	0.0	137.313	0.728	0.724	90.3	0.7	9.58
8.75	91.4	0.67	0.80	1.5	0.0	136.418	0.733	0.725	89.7	0.7	9.66
8.76	91.2	0.66	0.80	1.5	0.0	138.182	0.724	0.726	89.5	0.7	9.68
8.77	91.2	0.67	0.80	1.5	0.0	136.119	0.735	0.727	89.5	0.7	9.69
8.78	90.5	0.67	0.80	1.5	0.0	135.075	0.74	0.728	88.8	0.8	9.8
8.79	90.5	0.67	0.80	1.5	0.0	135.075	0.74	0.729	88.8	0.8	9.8
8.80	89.5	0.66	0.80	1.5	0.0	135.606	0.737	0.73	87.8	0.8	9.94
8.81	89.2	0.66	0.81	1.5	0.0	135.152	0.74	0.731	87.5	0.8	9.98
8.82	89.1	0.66	0.81	1.5	0.0	135.0	0.741	0.732	87.4	0.8	9.98
8.83	90.3	0.66	0.81	1.5	0.0	136.818	0.731	0.733	88.6	0.7	9.76

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8.84	91.6	0.66	0.82	1.5	0.0	138.788	0.721	0.734	89.9	0.7	9.53
8.85	93.2	0.65	0.82	1.5	0.0	143.385	0.697	0.735	91.5	0.7	9.24
8.86	93.2	0.65	0.82	1.5	0.0	143.385	0.697	0.736	91.5	0.7	9.24
8.87	97.8	0.64	0.82	1.4	0.0	152.813	0.654	0.737	96.1	0.7	8.45
8.88	97.8	0.64	0.82	1.4	0.0	152.813	0.654	0.738	96.1	0.7	8.45
8.89	98.9	0.63	0.82	1.5	0.0	156.984	0.637	0.739	97.2	0.7	8.26
8.90	99.4	0.64	0.82	1.5	0.0	155.313	0.644	0.74	97.7	0.7	8.28
8.91	99.6	0.65	0.83	1.4	0.0	153.231	0.653	0.741	97.9	0.7	8.29
8.92	99.8	0.65	0.83	1.5	0.0	153.538	0.651	0.742	98.1	0.7	8.3
8.93	100.3	0.65	0.83	1.5	0.0	154.308	0.648	0.743	98.6	0.7	8.27
8.94	102.1	0.66	0.83	1.5	0.0	154.697	0.646	0.744	100.4	0.7	8.09
8.95	103.6	0.67	0.83	1.5	0.0	154.627	0.647	0.745	102.0	0.7	7.94
8.96	105.3	0.67	0.83	1.5	0.0	157.164	0.636	0.746	103.6	0.7	7.78
8.97	107.3	0.69	0.83	1.5	0.0	155.507	0.643	0.747	105.6	0.7	7.64
8.98	107.8	0.69	0.83	1.4	0.0	156.232	0.64	0.748	106.1	0.7	7.65
8.99	107.6	0.7	0.83	1.4	0.0	153.714	0.651	0.749	105.9	0.7	7.72
9.00	107.3	0.71	0.82	1.4	0.0	151.127	0.662	0.75	105.6	0.7	7.8
9.01	106.6	0.71	0.82	1.4	0.0	150.141	0.666	0.751	104.9	0.7	7.92
9.02	104.5	0.72	0.82	1.5	0.0	145.139	0.689	0.752	102.8	0.7	8.25
9.03	103.0	0.73	0.82	1.4	0.0	141.096	0.709	0.753	101.3	0.7	8.52
9.04	103.0	0.73	0.82	1.4	0.0	141.096	0.709	0.754	101.3	0.7	8.52
9.05	103.0	0.73	0.82	1.4	0.0	141.096	0.709	0.755	101.3	0.7	8.52
9.06	96.1	0.64	0.84	1.4	0.0	150.156	0.666	0.756	94.4	0.7	8.69
9.07	95.1	0.65	0.84	1.4	0.0	146.308	0.683	0.757	93.4	0.7	8.93
9.08	94.0	0.66	0.84	1.5	0.0	142.424	0.702	0.758	92.3	0.7	9.18
9.09	91.7	0.68	0.84	1.4	0.0	134.853	0.742	0.759	90.0	0.8	9.7
9.10	90.3	0.69	0.84	1.4	0.0	130.87	0.764	0.76	88.6	0.8	10.01
9.11	88.8	0.7	0.84	1.4	0.0	126.857	0.788	0.761	87.1	0.8	10.33
9.12	87.2	0.7	0.84	1.4	0.0	124.571	0.803	0.762	85.5	0.8	10.67
9.13	85.8	0.7	0.84	1.4	0.0	122.571	0.816	0.763	84.1	0.8	10.91
9.14	83.8	0.7	0.84	1.4	0.0	119.714	0.835	0.764	82.1	0.9	11.3
9.15	83.4	0.71	0.84	1.4	0.0	117.465	0.851	0.765	81.7	0.9	11.42
9.16	83.3	0.71	0.84	1.5	0.0	117.324	0.852	0.766	81.6	0.9	11.46
9.17	83.7	0.7	0.84	1.4	0.0	119.571	0.836	0.767	82.0	0.9	11.29
9.18	84.5	0.7	0.84	1.4	0.0	120.714	0.828	0.768	82.8	0.8	11.09
9.19	85.6	0.69	0.85	1.4	0.0	124.058	0.806	0.769	83.9	0.8	10.84
9.20	87.2	0.68	0.85	1.4	0.0	128.235	0.78	0.77	85.5	0.8	10.5
9.21	89.3	0.68	0.86	1.5	0.0	131.324	0.761	0.771	87.6	0.8	10.09
9.22	95.2	0.66	0.87	1.4	0.0	144.242	0.693	0.772	93.1	0.7	9.04
9.23	98.9	0.65	0.87	1.4	0.0	152.154	0.657	0.773	97.2	0.7	8.39
9.24	106.2	0.64	0.87	1.4	0.0	165.938	0.603	0.774	104.5	0.6	7.95
9.25	106.2	0.64	0.87	1.4	0.0	165.938	0.603	0.775	104.5	0.6	7.99
9.26	111.9	0.62	0.87	1.4	0.0	180.488	0.558	0.776	112.8	0.6	6.36
9.27	114.5	0.62	0.87	1.4	0.0	184.677	0.541	0.777	112.8	0.6	6.37
9.28	117.1	0.62	0.87	1.4	0.0	188.871	0.529	0.778	115.4	0.5	6.1
9.29	121.4	0.62	0.87	1.4	0.0	195.806	0.511	0.779	119.5	0.5	5.67
9.30	123.7	0.62	0.87	1.5	0.0	199.516	0.501	0.78	122.5	0.5	5.48
9.31	125.2	0.62	0.87	1.5	0.0	201.935	0.495	0.781	123.5	0.5	5.39
9.32	126.3	0.63	0.87	1.5	0.0	201.428	0.497	0.782	125.7	0.5	5.48
9.33	131.0	0.63	0.87	1.5	0.0	207.937	0.481	0.783	129.3	0.5	4.94
9.34	131.0	0.63	0.87	1.5	0.0	207.937	0.481	0.784	129.3	0.5	4.94
9.35	135.5	0.65	0.87	1.5	0.0	208.462	0.48	0.785	133.8	0.5	4.7
9.36	139.3	0.67	0.88	1.4	0.0	207.91	0.481	0.786	137.6	0.5	4.53
9.37	140.6	0.67	0.88	1.5	0.0	209.851	0.477	0.787	138.9	0.5	4.48
9.38	141.6	0.68	0.88	1.5	0.0	208.23	0.478	0.788	139.9	0.5	4.47
9.39	142.2	0.69	0.88	1.5	0.0	206.087	0.485	0.789	140.5	0.5	4.44
9.40	143.0	0.7	0.88	1.5	0.0	204.286	0.49	0.79	141.3	0.5	4.45
9.41	144.3	0.71	0.88	1.5	0.0	203.239	0.492	0.791	142.6	0.5	4.44
9.42	144.6	0.72	0.88	1.5	0.0	200.833	0.498	0.792	142.9	0.5	4.48
9.43	144.6	0.73	0.88	1.5	0.0	198.082	0.505	0.793	142.9	0.5	4.54
9.44	145.8	0.75	0.88	1.5	0.0	192.437	0.519	0.794	143.9	0.5	4.61
9.45	145.0	0.75	0.88	1.5	0.0	193.333	0.517	0.795	143.3	0.5	4.64
9.46	145.1	0.75	0.88	1.5	0.0	193.467	0.517	0.796	143.4	0.5	4.61
9.47	145.0	0.76	0.88	1.5	0.0	190.789	0.524	0.797	143.3	0.5	4.67
9.48	144.1	0.78	0.89	1.5	0.0	184.744	0.541	0.798	142.4	0.6	4.86
9.49	143.5	0.8	0.89	1.5	0.0	179.375	0.557	0.799	141.8	0.6	5.01
9.50	142.8	0.82	0.89	1.5	0.0	173.374	0.573	0.8	140.8	0.6	5.2
9.51	142.4	0.83	0.90	1.5	0.0	171.566	0.583	0.801	140.7	0.6	5.23
9.52	142.3	0.84	0.90	1.5	0.0	169.405	0.59	0.802	140.6	0.6	5.32
9.53	142.6	0.84	0.89	1.5	0.0	169.762	0.589	0.803	140.9	0.6	5.31

10.94	122.0	0.67	1.02	1.8	0.0	182.09	0.549	0.944	120.5	0.6	5.98
10.95	116.9	0.62	1.01	1.8	0.0	188.548	0.539	0.945	115.4	0.6	6.17
10.96	113.6	0.62	1.00	1.8	0.0	183.226	0.546	0.946	112.0	0.6	6.48
10.97	109.8	0.62	1.00	1.8	0.0	177.097	0.565	0.947	108.3	0.6	6.88
10.98	107.1	0.63	1.00	1.8	0.0	170.0	0.588	0.948	105.5	0.7	7.23
10.99	104.5	0.62	1.00	1.8	0.0	168.548	0.593	0.949	103.0	0.6	7.46
11.00	99.8	0.59	1.00	1.8	0.0	169.153	0.591	0.95	98.3	0.6	7.83
11.01	97.7	0.59	1.00	1.8	0.0	165.993	0.604	0.951	96.1	0.6	8.11
11.02	95.6	0.59	1.00	1.8	0.0	162.034	0.617	0.952	94.1	0.6	8.37
11.03	90.4	0.6	0.99	1.8	0.0	150.667	0.664	0.953	88.9	0.7	9.24
11.04	90.4	0.6	0.99	1.8	0.0	150.667	0.664	0.954	88.9	0.7	9.24
11.05	90.4	0.6	0.99	1.8	0.0	150.667	0.664	0.955	88.9	0.7	9.24
11.06	78.9	0.52	1.03	1.8	0.0	151.731	0.659	0.956	77.4	0.7	10.37
11.07	78.9	0.52	1.03	1.8	0.0	151.731	0.659	0.957	77.4	0.7	10.37
11.08	78.7	0.52	1.03	1.8	0.0	151.346	0.661	0.958	77.2	0.7	10.48
11.09	79.2	0.54	1.03	1.8	0.0	146.667	0.682	0.959	77.7	0.7	10.54
11.10	79.6	0.56	1.03	1.8	0.0	142.143	0.704	0.96	78.1	0.7	10.73
11.11	79.3	0.57	1.03	1.8	0.0	139.123	0.719	0.961	77.8	0.8	10.92
11.12	79.2	0.58	1.03	1.8	0.0	136.552	0.732	0.962	77.7	0.8	10.98
11.13	77.9	0.57	1.03	1.8	0.0	136.667	0.732	0.963	76.3	0.8	11.11
11.14	78.1	0.55	1.03	1.8	0.0	142.0	0.704	0.964	76.5	0.7	10.95
11.15	77.2	0.54	1.03	1.8	0.0	142.963	0.699	0.965	75.6	0.7	11
11.16	77.2	0.54	1.03	1.8	0.0	142.963	0.699	0.966	75.6	0.7	11
11.17	76.8	0.5	1.03	1.8	0.0	153.6	0.651	0.967	75.2	0.7	10.62
11.18	76.8	0.49	1.03	1.8	0.0	156.735	0.638	0.968	75.2	0.7	10.48
11.19	76.8	0.48	1.04	1.8	0.0	160.0	0.625	0.969	75.2	0.7	10.36
11.20	76.9	0.48	1.05	1.8	0.0	160.208	0.624	0.97	75.3	0.7	10.37
11.21	76.9	0.48	1.05	1.8	0.0	160.625	0.623	0.971	75.4	0.6	10.27
11.22	76.9	0.47	1.04	1.8	0.0	163.617	0.611	0.972	75.3	0.7	10.14
11.23	76.6	0.46	1.03	1.8	0.0	166.522	0.601	0.973	75.0	0.6	10.21
11.24	76.3	0.46	1.03	1.8	0.0	165.87	0.603	0.974	74.8	0.6	10.17
11.25	75.6	0.45	1.01	1.8	0.0	168.0	0.595	0.975	74.1	0.6	10.25
11.26	74.7	0.46	1.01	1.8	0.0	162.391	0.616	0.976	73.2	0.6	10.51
11.27	74.0	0.47	1.02	1.8	0.0	157.447	0.635	0.977	72.5	0.7	10.76
11.28	73.3	0.48	1.03	1.8	0.0	152.708	0.655	0.978	71.8	0.7	11.02
11.29	72.2	0.48	1.03	1.8	0.0	150.417	0.665	0.979	70.6	0.7	11.29
11.30	71.5	0.48	1.03	1.8	0.0	148.958	0.671	0.98	69.9	0.7	11.48
11.31	70.9	0.49	1.02	1.8	0.0	144.694	0.691	0.981	69.4	0.7	11.69
11.32	69.9	0.5	1.02	1.8	0.0	139.8	0.715	0.982	68.4	0.8	12.09
11.33	69.4	0.51	1.02	1.8	0.0	136.078	0.735	0.983	67.9	0.8	12.25
11.34	68.7	0.51	1.02	1.8	0.0	134.706	0.742	0.984	67.2	0.8	12.42
11.35	67.8	0.51	1.02	1.8	0.0	132.941	0.752	0.985	66.2	0.8	12.64
11.36	66.4	0.5	1.02	1.8	0.0	132.8	0.753	0.986	64.8	0.8	12.93
11.37	63.6	0.49	1.02	1.8	0.0	129.796	0.777	0.987	62.1	0.8	13.54
11.38	62.3	0.49	1.02	1.8	0.0	127.143	0.787	0.988	60.7	0.8	13.89
11.39	61.0	0.49	1.01	1.8	0.0	124.49	0.803	0.989	59.5	0.8	14.23
11.40	58.8	0.49	1.02	1.8	0.0	120.0	0.833	0.99	57.3	0.9	14.89
11.41	58.8	0.49	1.02	1.8	0.0	120.0	0.833	0.991	57.3	0.9	14.89
11.42	57.5	0.49	1.03	1.8	0.0	117.347	0.852	0.992	55.9	0.9	15.31
11.43	57.1	0.49	1.03	1.8	0.0	116.531	0.858	0.993	55.5	0.9	15.4
11.44	56.8	0.49	1.03	1.8	0.0	115.918	0.863	0.994	55.2	0.9	15.49
11.45	56.4	0.49	1.03	1.8	0.0	115.102	0.869	0.995	54.8	0.9	15.61
11.46	56.2	0.49	1.02	1.8	0.0	114.694	0.872	0.996	54.6	0.9	15.68
11.47	56.0	0.49	0.99	1.8	0.0	114.286	0.875	0.997	54.5	0.9	15.82
11.48	55.5	0.49	0.95	1.8	0.0	113.265	0.883	0.998	54.0	0.9	16.04
11.49	54.6	0.5	0.91	1.8	0.0	109.2	0.916	0.999	53.1	1.0	16.38
11.50	52.3	0.48	0.92	1.8	0.0	108.958	0.918	1.0	50.7	1.0	16.97
11.51	51.2	0.47	0.95	1.9	0.0	108.936	0.918	1.001	49.6	1.0	17.16
11.52	48.6	0.44	0.97	1.9	0.0	110.455	0.905	1.002	47.1	1.0	17.8
11.53	47.2	0.43	0.98	1.9	0.0	109.767	0.911	1.003	45.6	1.0	18.25
11.54	46.2	0.42	0.99	1.9	0.0	110.0	0.909	1.004	44.6	1.0	18.51
11.55	45.3	0.41	1.00	1.9	0.0	110.488	0.905	1.005	43.8	1.0	18.74
11.56	44.7	0.4	1.01	1.9	0.0	111.75	0.895	1.006	43.2	1.0	18.84
11.57	43.3	0.38	1.01	1.9	0.0	113.947	0.878	1.007	41.8	0.9	19.27
11.58	42.8	0.37	1.01	1.9	0.0	115.676	0.864	1.008	41.2	0.9	19.88
11.59	42.0	0.35	0.99	1.9	0.0	120.0	0.833	1.009	40.4	0.9	19.07
11.60	41.1	0.34	0.96	1.9	0.0	120.882	0.827	1.01	39.5	0.9	19.3
11.61	40.1	0.33	0.88	1.9	0.0	121.515	0.823	1.011	38.6	0.9	19.64
11.62	36.4	0.33	0.77	1.9	0.0	110.303	0.907	1.012	34.8	1.0	21.64
11.63	34.1	0.34	0.76	1.9	0.0	100.294	0.997	1.013	32.6	1.1	23.39

(Bogip s.s. di Casone Luigi-Ampilamento impianto zootecnico-Zerbinato di Bordenò FE) - 17

11.64	34.1	0.34	0.76	1.9	0.0	100.294	0.997	1.014	32.6	1.1	23.39
11.65	26.5	0.37	0.80	1.9	0.0	71.622	1.396	1.015	24.9	1.6	31.19
11.66	23.6	0.39	0.83	1.9	0.0	60.513	1.653	1.016	22.1	1.9	35.23
11.67	21.6	0.42	0.87	1.9	0.0	51.429	1.944	1.017	20.0	2.2	39.17
11.68	20.3	0.45	0.89	1.9	0.0	45.111	2.217	1.018	18.9	2.4	42.47
11.69	18.7	0.5	0.97	1.9	0.0	37.4	2.674	1.019	17.2	3.1	47
11.70	18.2	0.56	2.34	1.9	0.0	32.5	3.077	1.02	16.7	3.7	50.13
11.71	18.9	0.59	3.41	1.9	0.0	32.034	3.122	1.021	17.4	3.7	49.39
11.72	20.1	0.61	3.46	1.9	0.0	32.951	3.055	1.022	18.6	3.6	47.47
11.73	27.4	0.72	2.38	1.9	0.0	38.056	2.628	1.023	25.8	3.0	38.5
11.74	31.6	0.69	0.97	1.9	0.0	45.799	1.889	1.024	30.4	2.4	33.34
11.75	35.2	0.65	-0.07	1.9	0.0	54.154	1.847	1.025	33.7	2.0	29.24
11.76	38.0	0.65	-0.41	1.9	0.0	58.462	1.711	1.026	36.5	1.8	27.14
11.77	40.2	0.69	-0.36	1.9	0.0	58.261	1.716	1.027	38.7	1.9	26.43
11.78	43.8	0.62	1.09	1.9	0.0	70.645	1.416	1.028	42.3	1.5	23.05
11.79	45.1	0.56	1.07	1.9	0.0	80.536	1.242	1.029	43.6	1.3	21.52
11.80	45.8	0.52	1.07	1.9	0.0	88.077	1.135	1.03	44.3	1.2	20.47
11.81	46.6	0.49	1.09	1.9	0.0	95.102	1.052	1.031	45.0	1.1	19.62
11.82	47.5	0.44	1.04	1.9	0.0	107.955	0.926	1.032	45.9	1.0	18.33
11.83	47.6	0.43	1.02	1.9	0.0	110.698	0.903	1.033	46.0	1.0	18.1
11.84	47.6	0.43	1.02	1.9	0.0	110.698	0.903	1.034	46.0	1.0	18.1
11.85	46.8	0.4	1.09	1.9	0.0	117.0	0.855	1.035	45.2	0.9	17.74
11.86	46.9	0.38	1.09	1.9	0.0	123.421	0.81	1.036	45.3	0.9	17.39
11.87	47.2	0.36	1.11	1.9	0.0	131.111	0.763	1.037	45.6	0.8	16.89
11.88	47.3	0.34	1.11	1.9	0.0	139.118	0.719	1.038	45.7	0.8	16.48
11.89	47.2	0.33	1.10	1.9	0.0	143.03	0.699	1.039	45.6	0.7	16.18
11.90	47.3	0.29	1.11	1.9	0.0	163.103	0.613	1.04	45.7	0.7	15.28
11.91	48.0	0.27	1.12	1.9	0.0	177.778	0.564	1.041	46.4	0.6	14.68
11.92	48.5	0.27	1.11	1.9	0.0	179.637	0.557	1.042	47.0	0.6	14.44
11.93	48.4	0.27	1.05	1.9	0.0	179.259	0.558	1.043	46.9	0.6	14.59
11.94	48.2	0.28	1.06	1.9	0.0	172.143	0.581	1.044	46.7	0.6	14.75
11.95	48.3	0.29	1.09	1.9	0.0	166.552	0.6	1.045	46.8	0.6	15
11.96	49.1	0.31	1.00	1.9	0.0	158.387	0.631	1.046	47.6	0.7	15
11.97	50.0	0.32	1.10	1.9	0.0	156.25	0.64	1.047	48.5	0.7	14.93
11.98	51.6	0.33	1.08	1.9	0.0	156.364	0.64	1.048	50.0	0.7	14.54
11.99	51.7	0.34	1.11	1.9	0.0	152.059	0.658	1.049	50.1	0.7	14.69
12.00	52.2	0.35	1.10	1.9	0.0	149.143	0.667	1.05	50.6	0.7	14.71
12.01	52.4	0.35	1.08	1.9	0.0	149.714	0.668	1.051	50.8	0.7	14.67
12.02	51.2	0.34	0.99	1.9	0.0	150.588	0.67	1.052	50.9	0.7	14.99
12.03	49.9	0.34	1.12	1.9	0.0	146.765	0.681	1.053	48.4	0.7	15.4
12.04	49.9	0.34	1.12	1.9	0.0	146.765	0.681	1.054	48.4	0.7	15.4
12.05	49.9	0.34	1.12	1.9	0.0	146.765	0.681	1.055	48.4	0.7	15.4
12.06	45.5	0.28	1.13	1.9	0.0	162.5	0.615	1.056	44.0	0.7	15.76
12.07	44.8	0.27	1.13	1.9	0.0	165.926	0.603	1.057	43.3	0.6	15.8
12.08	46.3	0.26	1.13	1.9	0.0	170.338	0.587	1.058	42.8	0.6	15.9
12.09	44.3	0.26	1.13	1.9	0.0	170.385	0.587	1.059	42.6	0.6	15.89
12.10	44.8	0.26	1.14	1.9	0.0	172.308	0.58	1.06	43.3	0.6	15.77
12.11	48.3	0.27	1.13	1.9	0.0	178.889	0.559	1.061	46.8	0.6	14.49
12.12	50.7	0.27	1.10	1.9	0.0	187.778	0.533	1.062	49.6	0.6	13.79
12.13	50.7	0.27	1.10	1.9	0.0	187.778	0.533	1.062	49.6	0.6	13.79
12.14	55.0	0.29	0.92	2.0	0.0	189.655	0.527	1.064	53.5	0.6	12.73
12.15	56.5	0.31	0.66	2.0	0.0	182.258	0.549	1.065	54.9	0.6	12.77
12.16	57.7	0.37	0.81	1.9	0.0	155.946	0.641	1.066	56.1	0.7	13.31
12.17	57.7	0.39	0.19	1.9	0.0	147.949	0.676	1.067	56.1	0.7	13.66
12.18	57.4	0.39	1.13	2.0	0.0	147.779	0.679	1.068	55.8	0.7	13.86
12.19	58.5	0.39	1.13	2.0	0.0	150.51	0.667	1.069	57.0	0.7	13.51
12.20	59.9	0.39	1.14	2.0	0.0	153.59	0.651	1.07	58.4	0.7	13.15
12.21	61.5	0.4	1.15	2.0	0.0	153.75	0.65	1.071	59.9	0.7	12.75
12.22	61.5	0.4	1.15	2.0	0.0	153.75	0.65	1.072	59.9	0.7	12.75
12.23	63.6	0.41	1.13	2.0	0.0	155.122	0.645	1.073	62.1	0.7	12.34
12.24	63.2	0.41	1.13	2.0	0.0	154.146	0.649	1.074	61.6	0.7	12.48
12.25	62.3	0.41	1.14	2.0	0.0	151.99	0.658	1.075	60.7	0.7	12.75
12.26	61.1	0.41	1.14	2.0	0.0	149.024	0.671	1.076	59.5	0.7	13.08
12.27	59.5	0.4	1.14	2.0	0.0	148.75	0.672	1.077	58.0	0.7	13.41
12.28	55.6	0.37	1.14	2.0	0.0	150.27	0.665	1.078	54.1	0.7	14.01
12.29	53.8	0.35	1.14	2.0	0.0	153.714	0.651	1.079	52.3	0.7	14.17
12.30	52.5	0.34	1.14	2.0	0.0	154.47	0.648	1.08	50.7	0.7	14.45
12.31	50.7	0.33	1.16	2.0	0.0	153.636	0.651	1.081	49.1	0.7	14.98
12.32	50.2	0.33	1.17	2.0	0.0	152.121	0.657	1.082	48.7	0.7	15.16
12.33	50.2	0.33	1.17	2.0	0.0	152.121	0.657	1.083	48.7	0.7	15.16

13,74	87,7	0,46	1,31	2,2	0,0	190,652	0,525	1,224	86,1	0,5	8,27
13,75	82,0	0,48	1,30	2,2	0,0	170,833	0,585	1,225	80,4	0,6	9,42
13,76	75,5	0,49	1,29	2,2	0,0	154,082	0,649	1,226	74,0	0,7	10,81
13,77	62,4	0,54	1,24	2,2	0,0	115,556	0,865	1,227	60,8	0,9	14,6
13,78	56,2	0,57	1,24	2,2	0,0	98,596	1,014	1,228	54,6	1,1	16,99
13,79	51,2	0,6	1,25	2,2	0,0	85,333	1,172	1,229	49,6	1,3	19,33
13,80	44,3	0,7	1,29	2,2	0,0	63,286	1,58	1,23	42,8	1,7	24,12
13,81	41,0	0,78	1,31	2,2	0,0	52,564	1,902	1,231	39,4	2,1	27,34
13,82	38,8	0,86	1,34	2,2	0,0	45,116	2,216	1,232	37,3	2,4	30,14
13,83	38,1	0,94	1,42	2,2	0,0	40,532	2,467	1,233	36,6	2,7	31,8
13,84	39,0	1,02	1,56	2,2	0,0	38,235	2,615	1,234	37,6	2,9	32,16
13,85	44,6	1,11	2,05	2,2	0,0	40,118	2,489	1,235	43,1	2,7	29,35
13,86	47,8	1,12	2,51	2,2	0,0	42,679	2,343	1,236	46,2	2,5	27,58
13,87	54,1	1,16	2,35	2,2	0,0	46,638	2,144	1,237	52,6	2,3	24,7
13,88	60,4	1,16	2,06	2,2	0,0	52,069	1,921	1,238	58,8	2,0	22,04
13,89	68,2	1,11	-0,18	2,2	0,0	61,441	1,628	1,239	66,7	1,7	18,9
13,90	69,6	1,08	-0,38	2,2	0,0	64,722	1,545	1,24	68,4	1,6	18,09
13,91	71,2	1,03	-0,39	2,2	0,0	69,126	1,447	1,241	69,6	1,5	17,33
13,92	72,8	0,96	-0,38	2,3	0,0	75,833	1,319	1,242	71,2	1,4	16,27
13,93	72,7	0,92	-0,36	2,3	0,0	79,022	1,265	1,243	71,1	1,3	15,91
13,94	71,3	0,86	-0,33	2,3	0,0	82,907	1,206	1,244	69,7	1,3	15,74
13,95	68,7	0,76	-0,31	2,3	0,0	90,395	1,106	1,245	67,2	1,2	15,43
13,96	65,6	0,67	-0,28	2,3	0,0	97,91	1,021	1,246	64,0	1,1	15,33
13,97	60,5	0,61	-0,21	2,3	0,0	99,18	1,008	1,247	58,9	1,1	16,1
13,98	58,2	0,6	-0,18	2,3	0,0	97,031	1,031	1,248	56,7	1,1	16,7
13,99	56,6	0,59	-0,13	2,3	0,0	95,932	1,042	1,249	55,0	1,1	17,12
14,00	55,5	0,54	-0,06	2,3	0,0	102,778	0,973	1,25	53,9	1,1	16,89
14,01	55,6	0,49	0,16	2,3	0,0	113,469	0,881	1,251	54,0	0,8	15,03
14,02	57,2	0,49	0,24	2,3	0,0	116,735	0,857	1,252	55,6	0,9	15,54
14,03	59,8	0,5	0,31	2,3	0,0	119,6	0,836	1,253	58,3	0,9	14,76
14,04	59,8	0,5	0,31	2,3	0,0	119,6	0,836	1,254	58,3	0,9	14,76
14,05	59,8	0,5	0,31	2,3	0,0	119,6	0,836	1,255	58,3	0,9	14,76
14,06	73,5	0,54	0,04	2,3	0,0	136,111	0,735	1,256	72,0	0,8	11,79
14,07	76,7	0,57	-0,05	2,3	0,0	134,561	0,743	1,257	75,1	0,8	11,52
14,08	79,6	0,6	-0,10	2,3	0,0	132,667	0,754	1,258	78,1	0,8	11,18
14,09	82,2	0,63	-0,15	2,3	0,0	130,476	0,766	1,259	80,6	0,8	10,98
14,10	86,9	0,68	-0,22	2,4	0,0	127,794	0,783	1,26	85,3	0,8	10,65
14,11	89,0	0,71	-0,22	2,4	0,0	125,352	0,798	1,261	87,5	0,8	10,5
14,12	90,1	0,72	-0,21	2,4	0,0	125,139	0,799	1,262	88,6	0,8	10,48
14,13	88,5	0,64	-0,15	2,4	0,0	138,281	0,723	1,263	87,0	0,8	9,98
14,14	88,5	0,64	-0,15	2,4	0,0	138,281	0,723	1,264	87,0	0,8	9,98
14,15	86,5	0,54	-0,04	2,4	0,0	160,185	0,624	1,265	84,9	0,7	9,36
14,16	85,7	0,51	0,03	2,4	0,0	168,039	0,595	1,266	84,1	0,6	9,12
14,17	84,5	0,48	0,10	2,4	0,0	176,042	0,568	1,267	83,0	0,6	8,99
14,18	82,2	0,45	0,25	2,4	0,0	182,667	0,547	1,268	80,6	0,6	9,03
14,19	80,9	0,45	0,34	2,4	0,0	179,778	0,556	1,269	79,3	0,6	9,34
14,20	79,7	0,47	0,42	2,4	0,0	169,574	0,59	1,27	78,2	0,6	9,75
14,21	78,4	0,49	0,51	2,4	0,0	160,0	0,625	1,271	76,9	0,7	10,23
14,22	77,5	0,51	0,59	2,4	0,0	151,961	0,658	1,272	75,9	0,7	10,64
14,23	75,2	0,55	0,75	2,4	0,0	136,727	0,731	1,273	73,7	0,8	11,5
14,24	74,2	0,56	0,82	2,4	0,0	132,5	0,755	1,274	72,7	0,8	11,89
14,25	73,2	0,57	0,89	2,4	0,0	128,421	0,779	1,275	71,6	0,8	12,28
14,26	71,7	0,59	1,01	2,4	0,0	121,525	0,823	1,276	70,1	0,9	12,79
14,27	71,0	0,59	1,06	2,4	0,0	120,339	0,831	1,277	69,4	0,9	12,97
14,28	70,3	0,59	1,10	2,4	0,0	119,153	0,839	1,278	68,8	0,9	13,12
14,29	69,6	0,59	1,13	2,4	0,0	117,966	0,848	1,279	68,1	0,9	13,29
14,30	68,8	0,59	1,16	2,4	0,0	116,61	0,858	1,28	67,3	0,9	13,49
14,31	67,6	0,59	1,19	2,4	0,0	114,576	0,873	1,281	66,0	0,9	13,85
14,32	66,8	0,59	1,21	2,4	0,0	113,22	0,883	1,282	65,2	0,9	14,05
14,33	66,1	0,59	1,22	2,4	0,0	112,034	0,893	1,283	64,5	0,9	14,22
14,34	65,4	0,59	1,23	2,4	0,0	110,847	0,902	1,284	63,8	1,0	14,38
14,35	64,6	0,59	1,24	2,4	0,0	109,492	0,913	1,285	63,1	1,0	14,57
14,36	63,5	0,58	1,25	2,5	0,0	109,483	0,913	1,286	62,0	1,0	14,83
14,37	63,1	0,58	1,25	2,5	0,0	108,793	0,919	1,287	61,5	1,0	14,94
14,38	62,4	0,58	1,26	2,5	0,0	107,586	0,929	1,288	60,8	1,0	15,12
14,39	61,4	0,57	1,26	2,5	0,0	107,719	0,928	1,289	59,8	1,0	15,35
14,40	61,0	0,57	1,27	2,5	0,0	107,018	0,934	1,29	59,4	1,0	15,45
14,41	61,0	0,57	1,27	2,5	0,0	107,018	0,934	1,291	59,4	1,0	15,45
14,42	60,0	0,57	1,27	2,5	0,0	105,263	0,95	1,292	58,5	1,0	15,72
14,43	59,6	0,57	1,28	2,5	0,0	104,561	0,956	1,293	58,1	1,0	15,82

14,44	58,5	0,56	1,28	2,5	0,0	104,464	0,957	1,294	57,0	1,0	16,06
14,45	58,0	0,55	1,28	2,5	0,0	105,455	0,948	1,295	56,4	1,0	16,17
14,46	57,6	0,54	1,29	2,5	0,0	106,667	0,938	1,296	56,0	1,0	16,19
14,47	56,7	0,53	1,29	2,5	0,0	106,981	0,935	1,297	55,1	1,0	16,29
14,48	56,7	0,53	1,29	2,5	0,0	106,981	0,935	1,298	55,1	1,0	16,3
14,49	56,0	0,52	1,29	2,5	0,0	107,692	0,929	1,299	54,4	1,0	16,34
14,50	56,0	0,52	1,29	2,5	0,0	107,692	0,929	1,3	54,4	1,0	16,34
14,51	55,5	0,51	1,29	2,5	0,0	108,824	0,919	1,301	53,9	1,0	16,32
14,52	55,1	0,49	1,30	2,5	0,0	112,449	0,889	1,302	53,6	1,0	16,26
14,53	55,0	0,49	1,30	2,5	0,0	112,245	0,891	1,303	53,5	1,0	16,22
14,54	54,8	0,48	1,30	2,5	0,0	114,167	0,876	1,304	53,3	0,9	16,23
14,55	54,7	0,48	1,30	2,5	0,0	113,958	0,878	1,305	53,2	0,9	16,25
14,56	54,5	0,48	1,31	2,5	0,0	113,542	0,881	1,306	53,0	0,9	16,29
14,57	54,4	0,48	1,32	2,5	0,0	113,333	0,882	1,307	52,9	0,9	16,32
14,58	54,4	0,48	1,32	2,5	0,0	113,333	0,882	1,308	52,9	0,9	16,32
14,59	54,3	0,48	1,33	2,5	0,0	113,125	0,884	1,309	52,8	1,0	16,35
14,60	54,4	0,48	1,33	2,5	0,0	113,333	0,882	1,31	52,9	1,0	16,34
14,61	54,4	0,48	1,33	2,5	0,0	113,333	0,882	1,311	52,9	1,0	16,34
14,62	54,4	0,48	1,34	2,5	0,0	113,333	0,882	1,312	52,9	1,0	16,36
14,63	54,4	0,48	1,34	2,5	0,0	113,333	0,882	1,313	52,9	1,0	16,38
14,64	54,6	0,49	1,34	2,5	0,0	111,429	0,897	1,314	53,1	1,0	16,36
14,65	54,6	0,49	1,34	2,5	0,0	111,429	0,897	1,315	53,1	1,0	16,37
14,66	54,7	0,49	1,34	2,5	0,0	111,633	0,896	1,316	53,2	1,0	16,36
14,67	54,8	0,49	1,34	2,5	0,0	111,837	0,894	1,317	53,3	1,0	16,34
14,68	55,0	0,49	1,34	2,5	0,0	112,245	0,891	1,318	53,5	1,0	16,28
14,69	55,2	0,49	1,35	2,5	0,0	112,653	0,888	1,319	53,6	1,0	16,22
14,70	55,2	0,49	1,35	2,5	0,0	112,653	0,888	1,32	53,6	1,0	16,22
14,71	55,6	0,49	1,34	2,5	0,0	113,469	0,881	1,321	54,3	1,0	16,09
14,72	55,9	0,49	1,34	2,5	0,0	114,082	0,877	1,322	54,3	0,9	15,99
14,73	56,0	0,49	1,34	2,5	0,0	114,286	0,875	1,323	54,4	0,9	15,98
14,74	56,2	0,49	1,34	2,5	0,0	114,694	0,872	1,324	54,6	0,9	15,94
14,75	56,1	0,5	1,34	2,5	0,0	112,2	0,891	1,325	54,5	1,0	16
14,76	56,0	0,5	1,35	2,5	0,0	112,0	0,893	1,326	54,4	1,0	16,06
14,77	55,9	0,5	1,35	2,5	0,0	111,8	0,894	1,327	54,3	1,0	16,12
14,78	55,8	0,5	1,35	2,5	0,0	111,6	0,896	1,328	54,2	1,0	16,15
14,79	55,6	0,5	1,35	2,5	0,0	111,2	0,899	1,329	54,0	1,0	16,24
14,80	55,6	0,5	1,35	2,5	0,0	111,0	0,899	1,33	54,0	1,0	16,26
14,81	55,5	0,5	1,35	2,5	0,0	111,0	0,901	1,331	53,9	1,0	16,3
14,82	55,0	0,5	1,35	2,6	0,0	110,9	0,906	1,332	53,6	1,0	16,42
14,83	55,2	0,5	1,36	2,6	0,0	110,4	0,906	1,333	53,6	1,0	16,44
14,84	54,9	0,51	1,36	2,6	0,0	107,647	0,929	1,334	53,4	1,0	16,54
14,85	54,3	0,5	1,36	2,6	0,0	108,6	0,921	1,335	52,8	1,0	16,75
14,86	53,9	0,5	1,36	2,6	0,0	107,8	0,928	1,336	52,4	1,0	16,9
14,87	53,6	0,51	1,37	2,6	0,0	105,998	0,957	1,337	52,1	1,0	17,02
14,88	53,1	0,51	1,37	2,6	0,0	104,148	0,957	1,338	51,9	1,0	17,14
14,89	53,1	0,51	1,36	2,6	0,0	104,118	0,96	1,339	51,5	1,0	17,25
14,90	52,6	0,51	1,36	2,6	0,0	103,137	0,97	1,34	51,0	1,0	17,45
14,91	52,4	0,51	1,36	2,6	0,0	102,745	0,973	1,341	50,8	1,0	17,52
14,92	52,2	0,51	1,37	2,6	0,0	102,353	0,977	1,342	50,6	1,1	17,61
14,93	51,8	0,5	1,37	2,6	0,0	103,6	0,965	1,343	50,2	1,1	17,72
14,94	51,4	0,5	1,37	2,6	0,0	103,6	0,973	1,344	49,9	1,1	17,84
14,95	51,0	0,5	1,37	2,6	0,0	102,0	0,98	1,345	49,1	1,1	17,93
14,96	50,5	0,49	1,37	2,6	0,0	103,061	0,97	1,346	48,9	1,1	18,04
14,97	50,1	0,49	1,37	2,6	0,0	102,245	0,978	1,347	48,5	1,1	18,14
14,98	49,0	0,48	1,38	2,6	0,0	102,083	0,98	1,348	47,5	1,1	18,5
14,99	48,5	0,48	1,38	2,6	0,0	101,042	0,99	1,349	47,0	1,1	18,69
15,00	48,0	0,48	1,38	2,6	0,0	100,16	0,99	1,35	46,4	1,1	18,91
15,01	47,6	0,47	1,38	2,6	0,0	101,277	0,987	1,351	46,0	1,1	19
15,02	47,6	0,47	1,38	2,6	0,0	101,277	0,987	1,352	46,0	1,1	19
15,03	46,3	0,46	1,38	2,6	0,0	100,652	0,994	0	45,3	1,1	19,13

Probe CPTU - Piezocone CPTU 1
Strumento utilizzato PAGANI 200 kN (CPTU)

Committente: Biopig s.s. di Cascone Luigi
Cantiere: Ampliamento impianto zootecnico
Località: Zerbinete di Bondeno (FE)

Data: 16/10/2020

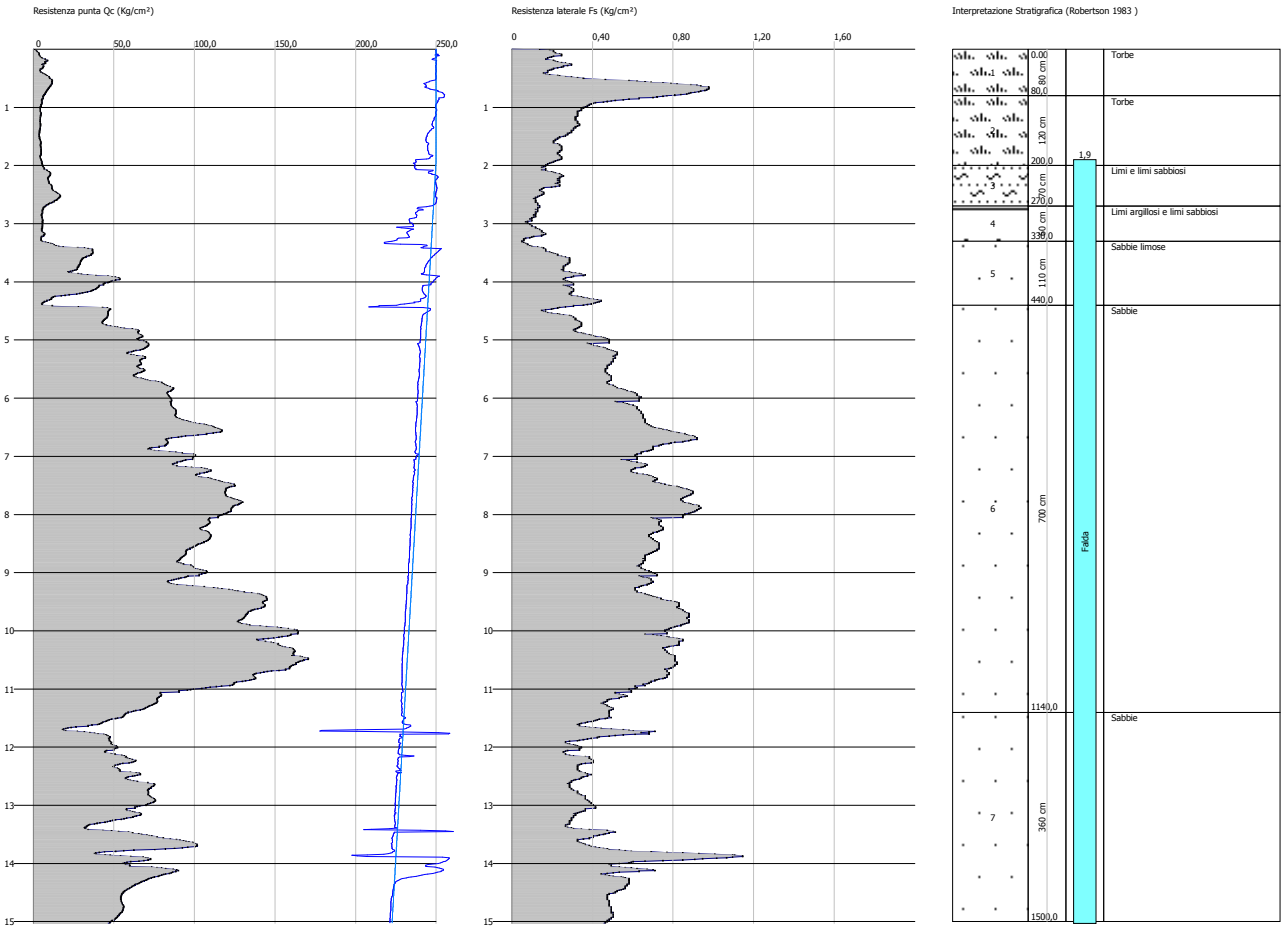
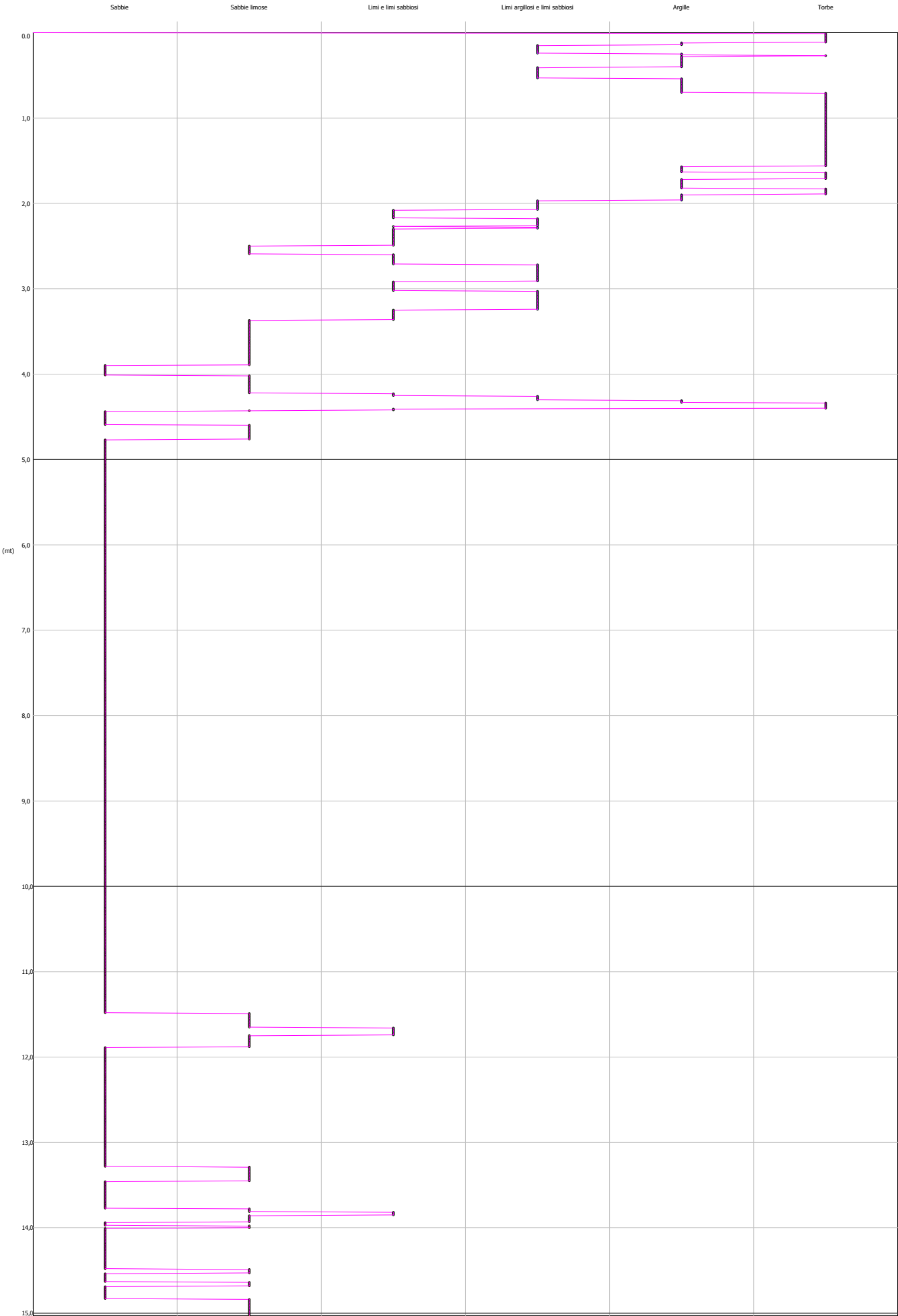


GRAFICO PROFONDITA' / VALUTAZIONI LITOLOGICHE (Robertson 1983)
PROVA: CPTU 1



STIMA PARAMETRI GEOTECNICI - CPTU 1

TERRENI COESIV I

Coesione non drenata

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Cu (Kg/cm ²)
Strato 1	0,80	7,2	0,45	0,07	0,07	Terzaghi	0,36
Strato 2	2,00	4,6	0,31	0,25	0,25	Terzaghi	0,23
Strato 3	2,70	11,1	0,18	0,42	0,33	Terzaghi	0,56
Strato 4	3,30	5,6	0,11	0,53	0,38	Terzaghi	0,28

Modulo Edometrico

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Eed (Kg/cm ²)
Strato 1	0,80	7,2	0,45	0,07	0,07	Metodo generale del modulo Edometrico	35,9
Strato 2	2,00	4,6	0,31	0,25	0,25	Metodo generale del modulo Edometrico	25,63
Strato 3	2,70	11,1	0,18	0,42	0,33	Metodo generale del modulo Edometrico	45,58
Strato 4	3,30	5,6	0,11	0,53	0,38	Metodo generale del modulo Edometrico	29,94

Modulo di deformazione non drenato Eu

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Eu (Kg/cm ²)
Strato 1	0,80	7,2	0,5	0,07	0,07	Cancelli 1980	267,27
Strato 2	2,00	4,6	0,3	0,25	0,25	Cancelli 1980	163,17
Strato 3	2,70	11,1	0,2	0,42	0,33	Cancelli 1980	403,8
Strato 4	3,30	5,6	0,1	0,53	0,38	Cancelli 1980	195,57

Modulo di deformazione a taglio

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Modulo di deformazion e a taglio (Kg/cm ²)
Strato 1	0,80	7,2	0,45	0,07	0,07	Imai & Tomauchi	93,54
Strato 2	2,00	4,6	0,31	0,25	0,25	Imai & Tomauchi	71,14
Strato 3	2,70	11,1	0,18	0,42	0,33	Imai & Tomauchi	121,86

Strato 4	3,30	5,6	0,11	0,53	0,38	Imai & Tomauchi	80,22
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Grado di sovraconsolidazione

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Ocr
Strato 1	0,80	7,2	0,45	0,07	0,07	P.W.Mayne 1991	3,1
Strato 2	2,00	4,6	0,31	0,25	0,25	P.W.Mayne 1991	1,8
Strato 3	2,70	11,1	0,18	0,42	0,33	P.W.Mayne 1991	6,18
Strato 4	3,30	5,6	0,11	0,53	0,38	P.W.Mayne 1991	2,93

Peso unità di volume

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Peso unità di volume (t/m ³)
Strato 1	0,80	7,2	0,45	0,07	0,07	Meyerhof	1,8
Strato 2	2,00	4,6	0,31	0,25	0,25	Meyerhof	1,72
Strato 3	2,70	11,1	0,18	0,42	0,33	Meyerhof	1,87
Strato 4	3,30	5,6	0,11	0,53	0,38	Meyerhof	1,75

Fattori di compressibilità C Crm

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	C	Crm
Strato 1	0,80	7,2	0,45	0,07	0,07	0,25172	0,03272
Strato 2	2,00	4,6	0,31	0,25	0,25	0,35613	0,0463
Strato 3	2,70	11,1	0,18	0,42	0,33	0,18682	0,02429
Strato 4	3,30	5,6	0,11	0,53	0,38	0,3045	0,03959

Peso unità di volume saturo

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Peso unità di volume saturo (t/m ³)
Strato 1	0,80	7,2	0,45	0,07	0,07	Meyerhof	1,88
Strato 2	2,00	4,6	0,31	0,25	0,25	Meyerhof	1,8
Strato 3	2,70	11,1	0,18	0,42	0,33	Meyerhof	1,95
Strato 4	3,30	5,6	0,11	0,53	0,38	Meyerhof	1,83

Velocità onde di taglio

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Vs (m/s)
Strato 1	0,80	7,2	0,45	0,07	0,07	Jamiolkowsk i et al 1985	197,07
Strato 2	2,00	4,6	0,31	0,25	0,25	Jamiolkowsk i et al 1985	180,26
Strato 3	2,70	11,1	0,18	0,42	0,33	Jamiolkowsk i et al 1985	214,80
Strato 4	3,30	5,6	0,11	0,53	0,38	Jamiolkowsk i et al 1985	187,45

TERRENI INCOERENT I

Densità relativa							
	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Densità relativa (%)
Strato 3	2,70	11,1	0,18	0,42	0,33	Baldi 1978 - Schmertman n 1976	19,08
Strato 4	3,30	5,6	0,11	0,53	0,38	Baldi 1978 - Schmertman n 1976	5,0
Strato 5	4,40	28,9	0,27	0,7	0,46	Baldi 1978 - Schmertman n 1976	41,56
Strato 6	11,40	102,3	0,66	1,59	0,95	Baldi 1978 - Schmertman n 1976	67,23
Strato 7	15,00	59,4	0,45	2,76	1,59	Baldi 1978 - Schmertman n 1976	44,48

Angolo di resistenza al taglio							
	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Angolo d'attrito (°)
Strato 3	2,70	11,1	0,18	0,42	0,33	Caquot	27,21
Strato 4	3,30	5,6	0,11	0,53	0,38	Caquot	23,08
Strato 5	4,40	28,9	0,27	0,7	0,46	Caquot	30,31
Strato 6	11,40	102,3	0,66	1,59	0,95	Caquot	33,0
Strato 7	15,00	59,4	0,45	2,76	1,59	Caquot	27,75

Modulo di Young							
	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Modulo di Young (Kg/cm²)
Strato 3	2,70	11,1	0,18	0,42	0,33	Robertson & Campanella 1983	22,2
Strato 4	3,30	5,6	0,11	0,53	0,38	Robertson & Campanella 1983	11,2
Strato 5	4,40	28,9	0,27	0,7	0,46	Robertson & Campanella 1983	57,8
Strato 6	11,40	102,3	0,66	1,59	0,95	Robertson & Campanella 1983	204,6
Strato 7	15,00	59,4	0,45	2,76	1,59	Robertson & Campanella 1983	118,8

Modulo Edometrico							
	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Modulo Edometrico (Kg/cm²)

Strato 3	2,70	11,1	0,18	0,42	0,33	Robertson & Campanella da Schmertmann	19,98
Strato 4	3,30	5,6	0,11	0,53	0,38	Robertson & Campanella da Schmertmann	8,62
Strato 5	4,40	28,9	0,27	0,7	0,46	Robertson & Campanella da Schmertmann	42,65
Strato 6	11,40	102,3	0,66	1,59	0,95	Robertson & Campanella da Schmertmann	71,8
Strato 7	15,00	59,4	0,45	2,76	1,59	Robertson & Campanella da Schmertmann	51,36

Modulo di deformazione a taglio							
	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	G (Kg/cm²)
Strato 3	2,70	11,1	0,18	0,42	0,33	Imai & Tomauchi	121,86
Strato 4	3,30	5,6	0,11	0,53	0,38	Imai & Tomauchi	80,22
Strato 5	4,40	28,9	0,27	0,7	0,46	Imai & Tomauchi	218,66
Strato 6	11,40	102,3	0,66	1,59	0,95	Imai & Tomauchi	473,36
Strato 7	15,00	59,4	0,45	2,76	1,59	Imai & Tomauchi	339,58

Grado di sovraconsolidazione							
	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Ocr
Strato 3	2,70	11,1	0,18	0,42	0,33	Piacentini Righi 1978	6,17
Strato 4	3,30	5,6	0,11	0,53	0,38	Piacentini Righi 1978	2,97
Strato 5	4,40	28,9	0,27	0,7	0,46	Piacentini Righi 1978	>9
Strato 6	11,40	102,3	0,66	1,59	0,95	Piacentini Righi 1978	>9
Strato 7	15,00	59,4	0,45	2,76	1,59	Piacentini Righi 1978	5,32

Modulo di reazione Ko							
	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Ko
Strato 3	2,70	11,1	0,18	0,42	0,33	Kulhawy & Mayne (1990)	0,30
Strato 4	3,30	5,6	0,11	0,53	0,38	Kulhawy & Mayne (1990)	0,00
Strato 5	4,40	28,9	0,27	0,7	0,46	Kulhawy &	0,45

						Mayne (1990)	
Strato 6	11,40	102,3	0,66	1,59	0,95	Kulhawy & Mayne (1990)	0,63
Strato 7	15,00	59,4	0,45	2,76	1,59	Kulhawy & Mayne (1990)	0,32

Fattori di compressibilità C Crm

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	C	Crm
Strato 3	2,70	11,1	0,18	0,42	0,33	0,18682	0,02429
Strato 4	3,30	5,6	0,11	0,53	0,38	0,3045	0,03959
Strato 5	4,40	28,9	0,27	0,7	0,46	0,11302	0,01469
Strato 6	11,40	102,3	0,66	1,59	0,95	0,09434	0,01226
Strato 7	15,00	59,4	0,45	2,76	1,59	0,10179	0,01323

Peso unità di volume

Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Peso unità di volume (t/m ³)
Strato 3	2,70	11,1	0,18	0,42	Meyerhof	1,9
Strato 4	3,30	5,6	0,11	0,53	Meyerhof	1,8
Strato 5	4,40	28,9	0,27	0,7	Meyerhof	1,9
Strato 6	11,40	102,3	0,66	1,59	Meyerhof	1,9
Strato 7	15,00	59,4	0,45	2,76	Meyerhof	1,9

Peso unità di volume saturo

Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Peso unità di volume saturo (t/m ³)
Strato 3	2,70	11,1	0,18	0,42	Meyerhof	2,2
Strato 4	3,30	5,6	0,11	0,53	Meyerhof	2,1
Strato 5	4,40	28,9	0,27	0,7	Meyerhof	2,2
Strato 6	11,40	102,3	0,66	1,59	Meyerhof	2,2
Strato 7	15,00	59,4	0,45	2,76	Meyerhof	2,2

Liquefazione - Accelerazione sismica massima (g)=0,2

Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Fattore di sicurezza a liquefazione
Strato 3	2,70	11,1	0,18	0,42	Robertson & Wride 1997	0,604
Strato 4	3,30	5,6	0,11	0,53	Robertson & Wride 1997	0,4
Strato 5	4,40	28,9	0,27	0,7	Robertson & Wride 1997	1,171
Strato 6	11,40	102,3	0,66	1,59	Robertson & Wride 1997	6,094
Strato 7	15,00	59,4	0,45	2,76	Robertson & Wride 1997	0,964

Velocità onde di taglio.

Prof. Strato	qc	fs	Tensione	Tensione	Correlazione	Vs
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	(m)	(Kg/cm²)	(Kg/cm²)	litostatica totale (Kg/cm²)	litostatica efficace (Kg/cm²)		(m/s)
Strato 3	2,70	11,1	0,18	0,42	0,33	Jamiolkowski i et al 1985	245,85
Strato 4	3,30	5,6	0,11	0,53	0,38	Jamiolkowski i et al 1985	209,34
Strato 5	4,40	28,9	0,27	0,7	0,46	Jamiolkowski i et al 1985	307,85
Strato 6	11,40	102,3	0,66	1,59	0,95	Jamiolkowski i et al 1985	414,33
Strato 7	15,00	59,4	0,45	2,76	1,59	Jamiolkowski i et al 1985	364,64

Permeabilità

Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	K (cm/s)
Strato 1	0,80	7,2	0,45	0,07	Piacentini- Righi 1988	1,00E-11
Strato 2	2,00	4,6	0,31	0,25	Piacentini- Righi 1988	1,00E-11
Strato 3	2,70	11,1	0,18	0,42	Piacentini- Righi 1988	2,06E-03
Strato 4	3,30	5,6	0,11	0,53	Piacentini- Righi 1988	5,62E-04
Strato 5	4,40	28,9	0,27	0,7	Piacentini- Righi 1988	1,00E-03
Strato 6	11,40	102,3	0,66	1,59	Piacentini- Righi 1988	1,00E-03
Strato 7	15,00	59,4	0,45	2,76	Piacentini- Righi 1988	1,00E-03

Coefficiente di consolidazione

Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Coefficiente di consolidazio ne (cm ² /s)
Strato 1	0,80	7,2	0,45	0,07	Piacentini- Righi 1988	2,16E-07
Strato 2	2,00	4,6	0,31	0,25	Piacentini- Righi 1988	1,38E-07
Strato 3	2,70	11,1	0,18	0,42	Piacentini- Righi 1988	0
Strato 4	3,30	5,6	0,11	0,53	Piacentini- Righi 1988	9,434532
Strato 5	4,40	28,9	0,27	0,7	Piacentini- Righi 1988	0
Strato 6	11,40	102,3	0,66	1,59	Piacentini- Righi 1988	0
Strato 7	15,00	59,4	0,45	2,76	Piacentini- Righi 1988	0

Committente: Biopig s.s. di Cascone Luigi
Strumento utilizzato: PAGANI 200 kN (CPTU)
Prova eseguita in data: 16/10/2020
Profondità prova: 15.01 mt
Località: Zerbinate di Bondeno FE)

PROVA CPTU 2

RESISTENZE

Profondità
qc Resistenza punta (Kg/cm²);
fs Resistenza laterale (Kg/cm²);
Tilt Inclinazione (°)
Temp Temperatura (°)
Fr fs/qcx100 (Schmertmann)
qcn qc normalizzata (Kg/cm²);
fsn fs normalizzata (Kg/cm²);
U2 Pressione neutrale intorno al cono (Kg/cm²);
Uo Pressione neutrale rilevata (Kg/cm²);
Fc Contenuto in materiale fine(%)

Profondità	qc	fs	U2	Tilt	Temp	qc/fs	Fr	Uo	qcn	fsn	FC%
0.01	2.3	0.06	0.35	0.8	0.0	38.333	2.609	0.0	1.3	2.6	124.6
0.02	2.4	0.06	0.20	0.8	0.0	40.0	2.5	0.0	1.4	2.7	122.15
0.03	1.4	0.09	0.04	0.8	0.0	15.556	6.429	0.0	0.4	6.5	211.42
0.04	2.4	0.1	0.02	0.8	0.0	24.0	4.167	0.0	1.4	4.1	131.21
0.05	2.7	0.1	0.02	0.8	0.0	27.0	3.704	0.0	1.7	3.6	117.66
0.06	3.3	0.1	0.13	0.7	0.0	33.0	3.03	0.0	2.3	3.1	103.14
0.07	3.7	0.11	0.09	0.7	0.0	33.636	2.973	0.0	2.7	2.9	95.88
0.08	4.5	0.11	0.04	0.7	0.0	40.909	2.444	0.0	3.5	2.5	84.57
0.09	4.8	0.1	0.02	0.7	0.0	48.0	2.083	0.0	3.8	2.2	79.51
0.10	5.7	0.1	0.01	0.7	0.0	57.0	1.754	0.0	4.7	1.8	70.58
0.11	7.0	0.1	0.01	0.8	0.0	70.0	1.429	0.0	6.0	1.4	60.03
0.12	8.9	0.12	0.01	0.7	0.0	74.167	1.348	0.0	7.9	1.3	51.82
0.13	9.7	0.11	0.01	0.7	0.0	88.182	1.134	0.0	8.7	1.2	48.28
0.14	10.3	0.11	0.01	0.7	0.0	93.636	1.068	0.0	9.3	1.0	45.49
0.15	11.7	0.08	0.00	0.7	0.0	146.25	0.684	0.0	10.7	0.7	38.95
0.16	12.0	0.08	0.00	0.7	0.0	150.0	0.667	0.0	11.0	0.7	37.49
0.17	11.2	0.08	0.00	0.7	0.0	140.0	0.714	0.0	10.2	0.7	39.24
0.18	8.5	0.06	0.00	0.7	0.0	141.667	0.706	0.0	7.5	0.7	46.66
0.19	8.5	0.06	0.00	0.7	0.0	141.667	0.706	0.0	7.5	0.7	46.66
0.20	7.6	0.07	-0.01	0.7	0.0	108.571	0.921	0.0	6.6	1.0	53
0.21	7.4	0.08	-0.01	0.8	0.0	92.5	1.081	0.0	6.4	1.1	55.22
0.22	6.1	0.08	-0.02	0.8	0.0	76.25	1.311	0.0	5.1	1.3	63.58
0.23	4.6	0.07	-0.01	0.8	0.0	65.714	1.522	0.0	3.6	1.6	76.42
0.24	4.2	0.08	0.00	0.8	0.0	52.5	1.905	0.0	3.2	1.8	81.87
0.25	1.1	0.08	0.00	0.8	0.0	13.75	7.273	0.0	0.1	8.2	333.49
0.26	0.9	0.08	0.00	0.8	0.0	11.25	8.889	0.0	-0.1	9.7	0
0.27	0.6	0.07	0.00	0.8	0.0	8.571	11.667	0.0	-0.4	13.2	0
0.28	0.6	0.07	0.00	0.8	0.0	8.571	11.667	0.0	-0.4	12.0	0
0.29	0.7	0.05	0.00	0.8	0.0	14.0	7.143	0.0	-0.3	7.6	0
0.30	0.7	0.04	0.00	0.8	0.0	17.5	5.714	0.0	-0.3	5.7	0
0.31	0.7	0.03	0.00	0.8	0.0	23.333	4.286	0.0	-0.3	4.1	0
0.32	0.4	0.01	0.00	0.8	0.0	40.0	2.5	0.0	-0.6	3.5	0
0.33	0.4	0.01	0.00	0.8	0.0	40.0	2.5	0.0	-0.6	3.5	0
0.34	0.3	0.0	0.00	0.8	0.0	0.0	0.0	0.0	-0.7	1.2	0
0.35	0.4	0.0	0.00	0.8	0.0	0.0	0.0	0.0	-0.6	0.2	0
0.36	0.5	0.0	0.00	0.8	0.0	0.0	0.0	0.0	-0.5	0.1	0
0.37	0.6	0.0	0.00	0.8	0.0	0.0	0.0	0.0	-0.4	0.1	0
0.38	0.9	0.0	0.00	0.8	0.0	0.0	0.0	0.0	-0.1	0.1	0
0.39	0.9	0.0	0.00	0.8	0.0	0.0	0.0	0.0	-0.1	0.1	0
0.40	1.0	0.0	-0.01	0.8	0.0	0.0	0.0	0.0	0.0	0.1	0
0.41	1.2	0.0	0.00	0.8	0.0	0.0	0.0	0.0	0.2	0.0	187.19
0.42	1.3	0.0	0.00	0.8	0.0	0.0	0.0	0.0	0.3	0.1	158.81

(Biopig s.s. di Cascone Luigi-Ampilamento impianto zootecnico Zerbinate di Bondeno FE)) 23

1.13	5.3	0.3	-0.36	1.0	0.0	17.667	5.66	0.013	4.2	5.9	96.26
1.14	5.3	0.31	-0.36	1.0	0.0	17.097	5.849	0.014	4.2	6.0	96.75
1.15	5.1	0.31	-0.35	1.0	0.0	16.452	6.078	0.015	4.0	6.4	99.81
1.16	5.1	0.32	-0.35	1.0	0.0	15.938	6.275	0.016	4.0	6.4	100.06
1.17	5.0	0.31	-0.35	1.1	0.0	16.129	6.25	0.017	3.9	6.5	101.23
1.18	4.9	0.31	-0.35	1.1	0.0	15.806	6.327	0.018	3.8	6.6	102.37
1.19	4.8	0.31	-0.35	1.0	0.0	15.484	6.458	0.019	3.7	6.7	103.83
1.20	4.8	0.31	-0.34	1.0	0.0	15.484	6.458	0.02	3.7	6.7	103.7
1.21	4.8	0.3	-0.34	1.0	0.0	16.0	6.25	0.021	3.7	6.5	103.23
1.22	4.8	0.3	-0.34	1.1	0.0	16.0	6.25	0.022	3.7	6.5	103.1
1.23	4.9	0.3	-0.34	1.1	0.0	16.333	6.122	0.023	3.8	6.3	101.62
1.24	4.9	0.29	-0.33	1.1	0.0	16.897	5.918	0.024	3.8	6.3	101.49
1.25	5.0	0.29	-0.33	1.0	0.0	17.241	5.8	0.025	3.9	6.1	99.87
1.26	5.0	0.29	-0.33	1.0	0.0	17.241	5.8	0.026	3.9	6.1	99.97
1.27	5.0	0.29	-0.33	1.1	0.0	17.241	5.8	0.027	3.9	6.1	100.18
1.28	5.0	0.3	-0.33	1.0	0.0	16.667	6.0	0.028	3.9	6.2	100.54
1.29	4.9	0.31	-0.33	1.0	0.0	15.806	6.327	0.029	3.8	6.6	102.79
1.30	4.9	0.31	-0.33	1.0	0.0	15.806	6.327	0.03	3.8	6.7	103.31
1.31	4.8	0.32	-0.33	1.0	0.0	15.0	6.667	0.031	3.6	7.1	105.58
1.32	4.7	0.32	-0.33	1.0	0.0	14.688	6.809	0.032	3.5	7.2	107.22
1.33	4.6	0.32	-0.33	1.0	0.0	14.375	6.957	0.033	3.4	7.4	108.87
1.34	4.6	0.32	-0.31	1.0	0.0	14.375	6.957	0.034	3.4	7.4	108.85
1.35	4.6	0.32	-0.31	1.0	0.0	14.375	6.957	0.035	3.4	7.4	108.85
1.36	4.5	0.33	-0.31	1.0	0.0	13.636	7.333	0.036	3.3	7.6	110.8
1.37	4.5	0.33	-0.31	1.0	0.0	13.636	7.333	0.037	3.3	7.6	110.88
1.38	4.4	0.32	-0.31	1.0	0.0	13.75	7.273	0.038	3.2	7.8	112.56
1.39	4.4	0.32	-0.31	1.0	0.0	13.75	7.273	0.039	3.2	7.7	112.31
1.40	4.4	0.31	-0.30	1.0	0.0	14.194	7.045	0.04	3.2	7.5	111.59
1.41	4.4	0.31	-0.30	1.0	0.0	14.194	7.045	0.041	3.2	7.3	111.16
1.42	4.5	0.3	-0.30	1.0	0.0	15.0	6.667	0.042	3.3	7.1	109.28
1.43	4.4	0.3	-0.30	1.0	0.0	14.667	6.818	0.043	3.2	7.2	110.58
1.44	4.4	0.3	-0.30	1.1	0.0	14.667	6.818	0.044	3.2	7.1	110.44
1.45	4.4	0.29	-0.30	1.0	0.0	15.172	6.591	0.045	3.2	7.0	110.27
1.46	4.4	0.29	-0.30	1.0	0.0	15.172	6.591	0.046	3.2	6.9	109.87
1.47	4.4	0.29	-0.30	1.0	0.0	15.172	6.591	0.047	3.2	6.9	109.93
1.48	4.4	0.28	-0.30	1.0	0.0	15.714	6.364	0.048	3.2	6.8	109.7
1.49	4.4	0.28	-0.30	1.0	0.0	15.714	6.364	0.049	3.2	6.8	109.73
1.50	4.4	0.28	-0.30	1.0	0.0	15.714	6.364	0.05	3.2	6.7	109.43
1.51	4.4	0.28	-0.30	1.0	0.0	15.714	6.364	0.051	3.2	6.7	109.2
1.52	4.5	0.27	-0.30	1.0	0.0	16.667	6.0	0.052	3.3	6.3	106.8
1.53	4.6	0.26	-0.30	1.0	0.0	17.692	5.652	0.053	3.4	6.0	104.66
1.54	4.7	0.26	-0.29	1.0	0.0	18.077	5.532	0.054	3.5	5.8	102.76
1.55	4.8	0.25	-0.29	1.0	0.0	19.2	5.208	0.055	3.5	5.6	101.02
1.56	5.1	0.25	-0.28	1.0	0.0	20.4	4.902	0.056	3.8	5.2	96.49
1.57	5.2	0.25	-0.28	1.0	0.0	20.8	4.808	0.057	3.9	5.0	94.81
1.58	5.3	0.24	-0.28	1.0	0.0	22.083	4.528	0.058	4.0	4.8	92.92
1.59	5.3	0.24	-0.28	1.0	0.0	22.083	4.528	0.059	4.0	4.8	92.95
1.60	5.3	0.24	-0.28	1.0	0.0	22.083	4.528	0.06	4.0	4.8	92.99
1.61	5.3	0.24	-0.27	1.0	0.0	22.083	4.528	0.061	4.0	4.8	93.03
1.62	5.4	0.24	-0.27	1.0	0.0	22.5	4.444	0.062	4.1	4.6	91.73
1.63	5.3	0.24	-0.27	1.0	0.0	22.083	4.528	0.063	4.0	4.8	93.38
1.64	5.1	0.26	-0.25	1.0	0.0	19.615	5.098	0.064	3.8	5.3	97.28
1.65	5.0	0.26	-0.25	1.0	0.0	19.231	5.2	0.065	3.7	5.5	99.01
1.66	4.9	0.26	-0.25	1.0	0.0	18.846	5.306	0.066	3.6	5.6	100.53
1.67	4.8	0.26	-0.25	1.1	0.0	18.462	5.417	0.067	3.5	5.8	102.15
1.68	4.7	0.26	-0.25	1.0	0.0	18.077	5.532	0.068	3.4	5.9	103.6
1.69	4.6	0.26	-0.25	1.0	0.0	17.692	5.652	0.069	3.3	6.1	105.5
1.70	4.4	0.27	-0.25	1.1	0.0	16.296	6.136	0.07	3.1	6.6	109.91
1.71	4.3	0.28	-0.25	1.1	0.0	15.357	6.512	0.071	3.0	6.9	111.9
1.72	4.2	0.27	-0.25	1.0	0.0	15.556	6.429	0.072	2.9	6.9	113.42
1.73	4.2	0.27	-0.25	1.0	0.0	15.556	6.429	0.073	2.9	6.9	113.48
1.74	4.3	0.26	-0.25	1.1	0.0	16.538	6.047	0.074	3.0	6.4	110.3
1.75	4.3	0.25	-0.25	1.1	0.0	17.2	5.814	0.075	3.0	6.3	110.06
1.76	4.3	0.25	-0.25	1.0	0.0	17.2	5.814	0.076	3.0	6.2	109.69
1.77	4.2	0.24	-0.25	1.1	0.0	17.5	5.714	0.077	2.9	6.2	110.78
1.78	4.2	0.23	-0.24	1.1	0.0	18.261	5.476	0.078	2.9	6.0	110.05
1.79	4.2	0.23	-0.24	1.0	0.0	18.261	5.476	0.079	2.9	5.9	109.63
1.80	4.3	0.23	-0.23	1.0	0.0	19.545	5.116	0.08	3.0	5.5	106.83
1.81	4.4	0.21	-0.23	1.1	0.0	20.952	4.773	0.081	3.1	5.2	104.38
1.82	4.5	0.2	-0.23	1.1	0.0	22.5	4.444	0.082	3.2	4.9	101.86

2.53	12.5	0.26	-0.13	1.0	0.0	48.077	2.08	0.153	10.9	2.2	51.35
2.54	12.8	0.27	-0.13	1.0	0.0	47.407	2.109	0.154	11.3	2.2	50.24
2.55	12.8	0.26	-0.13	1.0	0.0	49.231	2.031	0.155	11.3	2.1	49.93
2.56	12.7	0.25	-0.13	1.0	0.0	50.188	1.969	0.156	11.2	2.1	49.85
2.57	12.4	0.23	-0.13	1.0	0.0	52.917	1.89	0.157	11.2	2.1	49.6
2.58	12.6	0.22	-0.13	1.0	0.0	57.273	1.746	0.158	11.1	1.8	48.41
2.59	12.7	0.23	-0.13	1.0	0.0	55.217	1.811	0.159	11.2	1.9	48.4
2.60	12.7	0.23	-0.13	1.0	0.0	55.217	1.811	0.16	11.2	1.9	48.75
2.61	12.1	0.24	-0.13	1.0	0.0	50.417	1.983	0.161	10.5	2.1	51.37
2.62	12.6	0.24	-0.13	1.0	0.0	48.333	2.069	0.162	10.0	2.1	52.94
2.63	11.1	0.22	-0.13	1.0	0.0	50.455	1.982	0.163	9.5	2.1	53.95
2.64	9.6	0.18	-0.13	1.0	0.0	53.333	1.875	0.164	8.1	1.9	56.61
2.65	9.1	0.16	-0.13	1.0	0.0	56.875	1.758	0.165	7.6	1.8	57.58
2.66	8.5	0.15	-0.14	1.0	0.0	56.667	1.765	0.166	7.0	1.9	60.06
2.67	7.5	0.14	-0.14	1.0	0.0	53.571	1.867	0.167	5.9	2.0	65.66
2.68	7.0	0.14	-0.14	1.0	0.0	50.0	2.0	0.168	5.4	2.2	68.87
2.69	6.6	0.14	-0.14	1.0	0.0	47.143	2.121	0.169	5.0	2.3	72.42
2.70	6.1	0.16	-0.14	1.0	0.0	38.125	2.623	0.17	4.5	2.9	79.23
2.71	5.9	0.16	-0.14	1.0	0.0	36.875	2.712	0.171	4.3	2.9	80.98
2.72	5.7	0.16	-0.14	1.0	0.0	35.625	2.807	0.172	4.1	3.0	82.76
2.73	5.7	0.16	-0.14	1.0	0.0	35.625	2.807	0.173	4.1	3.0	82.86
2.74	5.9	0.16	-0.14	1.0	0.0	36.875	2.712	0.174	4.3	3.0	81.15
2.75	6.1	0.16	-0.14	1.0	0.0	38.125	2.623	0.175	4.5	2.9	79.33
2.76	6.4	0.16	-0.14	1.0	0.0	40.0	2.5	0.176	4.8	2.8	76.83
2.77	7.4	0.18	-0.14	1.0	0.0	41.111	2.432	0.177	5.8	2.6	69.95
2.78	8.0	0.18	-0.14	1.0	0.0	44.444	2.25	0.178	6.5	2.4	65.7
2.79	9.3	0.19	-0.14	1.0	0.0	48.947	2.043	0.179	7.7	2.2	59.68
2.80	9.7	0.2	-0.14	1.0	0.0	48.5	2.062	0.18	8.1	2.2	57.99
2.81	10.1	0.19	-0.14	1.0	0.0	53.158	1.881	0.181	8.5	2.0	55.8
2.82	10.2	0.18	-0.14	1.0	0.0	56.667	1.765	0.182	8.6	1.9	54.7
2.83	10.2	0.17	-0.14	1.0	0.0	60.0	1.667	0.183	8.6	1.7	53.28
2.84	10.3	0.16	-0.14	1.0	0.0	64.375	1.553	0.184	8.7	1.6	52.19
2.85	9.9	0.15	-0.14	0.9	0.0	66.0	1.515	0.185	8.3	1.6	53.57
2.86	9.5	0.15	-0.14	0.9	0.0	63.333	1.579	0.186	7.9	1.7	55.21
2.87	9.1	0.15	-0.14	0.9	0.0	60.667	1.648	0.187	7.5	1.7	56.84
2.88	8.6	0.15	-0.14	0.9	0.0	57.333	1.744	0.188	7.0	1.8	59.29
2.89	7.8	0.13	-0.14	0.9	0.0	60.0	1.667	0.189	6.3	1.8	61.79
2.90	7.7	0.11	-0.14	0.9	0.0	70.0	1.429	0.19	6.2	1.6	60.48
2.91	7.9	0.1	-0.14	0.9	0.0	79.0	1.266	0.191	6.4	1.4	57.85
2.92	8.9	0.11	-0.14	0.9	0.0	80.909	1.236	0.192	7.3	1.3	53.76
2.93	9.4	0.12	-0.14	0.9	0.0	78.333	1.277	0.193	7.8	1.3	52.5
2.94	9.8	0.13	-0.14	0.9	0.0	75.385	1.327	0.194	8.2	1.5	52.29
2.95	9.7	0.13	-0.14	0.9	0.0	74.615	1.34	0.195	8.1	1.4	52.22
2.96	9.3	0.12	-0.14	0.9	0.0	77.5	1.29	0.196	7.7	1.4	52.94
2.97	8.7	0.1	-0.14	0.9	0.0	87.0	1.149	0.197	7.1	1.2	53.71
2.98	7.8	0.07	-0.14	0.9	0.0	111.429	0.897	0.198	6.2	0.9	53.85
2.99	7.6	0.06	-0.14	0.9	0.0	126.667	0.789	0.199	5.9	0.9	54.09
3.00	7.3	0.06	-0.14	0.9	0.0	121.667	0.822	0.2	5.7	0.9	55.27
3.01	7.1	0.06	-0.14	0.9	0.0	118.333	0.845	0.201	5.5	0.9	56.39
3.02	7.1	0.06	-0.14	0.9	0.0	118.333	0.845	0.202	5.5	0.9	56.4
3.03	7.1	0.06	-0.14	0.9	0.0	118.333	0.845	0.203	5.5	0.9	56.41
3.04	7.04	0.12	-0.14	0.9	0.0	65.0	1.458	0.204	6.2	1.7	61.45
3.05	7.6	0.13	0.23	0.9	0.0	58.462	1.711	0.205	5.9	1.8	63.86
3.06	7.4	0.14	0.22	0.9	0.0	52.857	1.892	0.206	5.7	2.0	66.33
3.07	6.9	0.15	0.25	0.9	0.0	46.0	2.174	0.207	5.2	2.3	71.14
3.08	7.0	0.16	0.26	0.9	0.0	43.75	2.286	0.208	5.3	2.4	71.18
3.09	7.4	0.16	0.26	0.9	0.0	46.25	2.162	0.209	5.7	2.4	69.05
3.10	8.9	0.19	0.26	0.9	0.0	43.684	2.289	0.21	6.2	2.7	64.66
3.11	8.9	0.19	0.26	0.9	0.0	46.842	2.135	0.211	7.3	2.3	61.91
3.12	9.3	0.19	0.26	0.9	0.0	48.947	2.043	0.212	7.7	2.2	59.91
3.13	9.2	0.18	0.26	0.9	0.0	51.111	1.957	0.213	7.6	2.1	59.68
3.14	9.2	0.18	0.26	0.9	0.0	51.111	1.957	0.214	7.6	2.0	58.98
3.15	9.17	0.2	0.26	0.9	0.0	54.118	1.848	0.215	7.6	1.3	58
3.16	9.1	0.14	0.25	0.9	0.0	65.0	1.538	0.216	7.5	1.7	56.6
3.17	9.0	0.14	0.25	0.9	0.0	64.286	1.556	0.217	7.4	1.6	56.27
3.18	8.8	0.13	0.25	0.9	0.0	67.692	1.477	0.218	7.2	1.6	56.56
3.19	8.5	0.12	0.25	0.9	0.0	70.833	1.412	0.219	6.9	1.5	57.24
3.20	7.8	0.1	0.25	0.9	0.0	78.0	1.282	0.22	6.2	1.4	58.63
3.21	7.6	0.09	0.25	0.9	0.0	84.444	1.184	0.221	6.1	1.3	58.72
3.22	7.6	0.08	0.25	0.9	0.0	95.0	1.053	0.222	6.0	1.2	57.41

(Biplo s.s. di Casone Luigi-Ampilamento impianto zootecnico-Zerbinato di Bordenò FE) - 27

3.23	8.0	0.09	0.25	0.9	0.0	88.889	1.125	0.223	6.4	1.2	55.68
3.24	8.5	0.1	0.25	0.9	0.0	85.0	1.176	0.224	6.9	1.2	54.57
3.25	8.6	0.11	0.25	0.9	0.0	78.182	1.279	0.225	7.0	1.3	55.07
3.26	8.2	0.1	0.25	0.9	0.0	74.545	1.341	0.226	6.6	1.4	57.43
3.27	7.6	0.1	0.25	0.9	0.0	76.2	1.316	0.227	6.3	1.5	60.32
3.28	6.6	0.08	0.24	0.9	0.0	82.5	1.212	0.228	4.9	1.4	64.84
3.29	6.1	0.07	0.24	1.0	0.0	87.143	1.148	0.229	4.4	1.3	66.96
3.30	5.7	0.07	0.24	1.0	0.0	81.429	1.228	0.23	4.0	1.3	70.09
3.31	5.5	0.08	0.26	1.0	0.0	68.75	1.455	0.231	3.8	1.7	74.95
3.32	5.6	0.09	0.26	1.0	0.0	62.222	1.607	0.232	3.9	1.9	76.2
3.33	5.5	0.1	0.26	1.0	0.0	56.0	1.786	0.233	3.5	2.0	76.98
3.34	5.7	0.1	0.26	1.0	0.0	57.0	1.754	0.234	4.0	2.0	76.14
3.35	5.7	0.1	0.26	1.0	0.0	57.0	1.754	0.235	4.0	2.0	76.26
3.36	5.7	0.1	0.26	1.0	0.0	57.0	1.754	0.236	4.0	1.9	75.74
3.37	6.4	0.09	0.29	1.0	0.0	71.111	1.406	0.237	4.7	1.6	68.59
3.38	6.4	0.09	0.29	1.0	0.0	71.111	1.406	0.238	4.7	1.6	68.6
3.39	7.8	0.1	0.31	1.0	0.0	78.0	1.282	0.239	6.2	1.4	59.23
3.40	8.5	0.11	0.31	1.0	0.0	77.273	1.294	0.24	6.9	1.4	56.66
3.41	9.2	0.13	0.31	1.0	0.0	70.769	1.413	0.241	7.6	1.5	54.42
3.42	9.1	0.12	0.31	1.0	0.0	75.833	1.319	0.242	7.5	1.4	54.34
3.43	8.3	0.1	0.30	1.0	0.0	83.0	1.205	0.243	6.7	1.3	55.84
3.44	8.3	0.1	0.30	1.0	0.0	83.0	1.205	0.244	6.7	1.3	55.85
3.45	7.9	0.08	0.30	1.0	0.0	98.75	1.013	0.245	6.3	1.1	55.13
3.46	7.8	0.08	0.30	1.0	0.0	97.5	1.026	0.246	6.2	1.1	55.61
3.47	7.5	0.07	0.30	1.0	0.0	107.143	0.933	0.247	5.8	1.1	57.21
3.48	7.1	0.07	0.30	1.0	0.0	101.429	0.986	0.248	5.4	1.1	59.19
3.49	6.6	0.07	0.30	1.0	0.0	94.286	1.061	0.249	4.9	1.1	62.24
3.50	6.6	0.07	0.30	1.0	0.0	94.286	1.061	0.250	4.9	1.1	62.24
3.51	5.3	0.05	0.38	1.0	0.0	106.0	0.943	0.251	3.6	1.0	60.06
3.52	5.3	0.05	0.49	1.0	0.0	106.0	0.943	0.252	3.6	1.0	60.91
3.53	9.3	0.05	0.63	1.0	0.0	186.0	0.538	0.253	7.6	0.5	43.54
3.54	11.9	0.05	0.66	1.0	0.0	238.0	0.42	0.254	10.2	0.4	35.28
3.55	14.3	0.05	0.67	1.0	0.0	286.0	0.35	0.255	12.6	0.4	30.37
3.56	16.2	0.07	0.64	1.0	0.0	331.429	0.432	0.256	14.5	0.5	29.23
3.57	15.4	0.07	0.53	1.0	0.0	220.0	0.455	0.257	13.7	0.5	30.86
3.58	14.3	0.07	0.48	1.0	0.0	204.286	0.49	0.258	12.6	0.5	32.97
3.59	13.0	0.07	0.46	1.0	0.0	185.714	0.538	0.259	11.4	0.6	35.74
3.60	11.2	0.08	0.44	1.0	0.0	140.0	0.714	0.26	9.5	0.7	41.55
3.61	11.1	0.09	0.44	1.0	0.0	123.333	0.811	0.261	9.4	0.9	43.4

5.33	39.0	0.32	0.36	0.9	0.0	121.875	0.821	0.433	37.3	0.8	19.57
5.34	39.0	0.32	0.36	0.9	0.0	121.875	0.821	0.434	37.3	0.8	19.57
5.35	41.6	0.31	0.36	0.9	0.0	134.194	0.745	0.435	39.8	0.8	18.02
5.36	42.7	0.3	0.36	0.9	0.0	142.333	0.703	0.436	40.9	0.7	17.4
5.37	44.8	0.3	0.37	0.8	0.0	149.333	0.67	0.437	43.7	0.7	16.5
5.38	46.0	0.29	0.37	0.9	0.0	158.621	0.63	0.438	44.2	0.7	15.71
5.39	47.1	0.29	0.37	0.9	0.0	164.414	0.616	0.439	45.3	0.6	15.21
5.40	47.1	0.29	0.37	0.9	0.0	162.414	0.616	0.44	45.3	0.6	15.21
5.41	50.6	0.28	0.37	0.8	0.0	180.714	0.553	0.441	48.8	0.6	13.81
5.42	52.0	0.31	0.38	0.8	0.0	185.714	0.538	0.442	50.2	0.6	13.38
5.43	54.4	0.29	0.37	0.8	0.0	187.586	0.533	0.443	52.7	0.5	12.7
5.44	55.5	0.29	0.37	0.8	0.0	191.379	0.523	0.444	53.7	0.5	12.45
5.45	56.2	0.29	0.37	0.8	0.0	193.793	0.516	0.445	54.5	0.5	12.31
5.46	56.7	0.3	0.37	0.8	0.0	189.0	0.529	0.446	54.9	0.5	12.28
5.47	56.4	0.32	0.37	0.8	0.0	176.25	0.567	0.447	54.6	0.6	12.67
5.48	56.8	0.31	0.38	0.8	0.0	169.697	0.589	0.448	54.2	0.6	12.99
5.49	55.4	0.35	0.38	0.8	0.0	158.286	0.632	0.449	53.6	0.7	13.57
5.50	55.4	0.35	0.38	0.8	0.0	158.286	0.632	0.45	53.6	0.7	13.57
5.51	55.3	0.37	0.38	0.8	0.0	149.459	0.669	0.451	53.5	0.7	13.97
5.52	55.5	0.38	0.38	0.8	0.0	146.053	0.685	0.452	53.7	0.7	14.05
5.53	56.4	0.39	0.38	0.8	0.0	144.615	0.691	0.453	54.6	0.7	14
5.54	57.0	0.4	0.38	0.8	0.0	142.5	0.702	0.454	55.2	0.7	13.94
5.55	58.7	0.42	0.38	0.8	0.0	139.762	0.716	0.455	57.0	0.7	13.66
5.56	59.8	0.42	0.38	0.8	0.0	142.381	0.702	0.456	58.0	0.7	13.4
5.57	61.0	0.42	0.38	0.8	0.0	145.238	0.689	0.457	59.2	0.7	13.08
5.58	62.4	0.42	0.38	0.8	0.0	148.571	0.673	0.458	60.6	0.7	12.66
5.59	64.9	0.41	0.39	0.8	0.0	158.293	0.632	0.459	63.1	0.6	11.84
5.60	64.0	0.4	0.39	0.8	0.0	165.25	0.605	0.46	64.8	0.6	11.5
5.61	68.0	0.4	0.39	0.8	0.0	170.0	0.588	0.461	66.2	0.7	11.04
5.62	69.3	0.4	0.39	0.8	0.0	173.25	0.577	0.462	67.6	0.6	10.73
5.63	71.2	0.4	0.39	0.8	0.0	178.0	0.562	0.463	69.4	0.6	10.32
5.64	76.4	0.4	0.39	0.8	0.0	191.0	0.524	0.464	74.6	0.5	9.34
5.65	79.4	0.4	0.39	0.8	0.0	198.5	0.504	0.465	77.7	0.5	8.81
5.66	82.1	0.4	0.39	0.8	0.0	205.25	0.487	0.466	80.3	0.5	8.39
5.67	86.6	0.4	0.40	0.8	0.0	216.5	0.462	0.467	84.8	0.5	7.71
5.68	88.5	0.4	0.40	0.8	0.0	221.25	0.452	0.468	86.7	0.5	7.46
5.69	90.5	0.41	0.40	0.8	0.0	220.732	0.453	0.469	88.7	0.5	7.22
5.70	95.1	0.42	0.40	0.7	0.0	226.429	0.442	0.47	93.3	0.5	6.79
5.71	95.1	0.42	0.40	0.7	0.0	226.429	0.442	0.471	93.3	0.5	6.79
5.72	100.0	0.45	0.40	0.8	0.0	222.222	0.45	0.472	98.2	0.5	6.47
5.73	101.0	0.46	0.40	0.7	0.0	219.565	0.445	0.473	99.2	0.5	6.47
5.74	101.5	0.47	0.40	0.7	0.0	215.957	0.463	0.474	99.7	0.5	6.52
5.75	101.9	0.49	0.41	0.7	0.0	207.959	0.481	0.475	100.1	0.5	6.59
5.76	101.3	0.52	0.41	0.7	0.0	195.577	0.511	0.476	99.5	0.5	6.89
5.77	101.7	0.53	0.41	0.7	0.0	191.132	0.523	0.477	99.5	0.5	7.07
5.78	101.7	0.53	0.41	0.7	0.0	175.614	0.569	0.478	98.3	0.6	7.56
5.79	99.4	0.59	0.41	0.7	0.0	168.475	0.594	0.479	97.7	0.6	7.82
5.80	98.6	0.63	0.41	0.7	0.0	156.508	0.639	0.48	96.9	0.6	8.22
5.81	98.5	0.64	0.41	0.7	0.0	153.906	0.65	0.481	96.7	0.7	8.4
5.82	98.1	0.66	0.41	0.7	0.0	148.636	0.673	0.482	96.3	0.7	8.59
5.83	98.0	0.68	0.41	0.7	0.0	144.118	0.694	0.483	96.2	0.7	8.74
5.84	97.8	0.7	0.41	0.7	0.0	139.714	0.716	0.484	96.0	0.7	8.96
5.85	98.1	0.71	0.41	0.7	0.0	138.169	0.724	0.485	96.3	0.7	9.01
5.86	99.4	0.72	0.42	0.7	0.0	138.056	0.724	0.486	97.7	0.7	8.85
5.87	99.4	0.72	0.42	0.7	0.0	138.056	0.724	0.487	97.7	0.7	8.85
5.88	102.1	0.71	0.42	0.7	0.0	143.803	0.695	0.488	100.3	0.7	8.47
5.89	104.8	0.7	0.42	0.7	0.0	149.714	0.668	0.489	103.1	0.7	8.06
5.90	106.2	0.7	0.42	0.7	0.0	151.714	0.659	0.49	104.4	0.7	7.84
5.91	107.6	0.69	0.42	0.7	0.0	155.942	0.641	0.491	105.8	0.7	7.62
5.92	110.2	0.67	0.42	0.7	0.0	164.478	0.608	0.492	108.4	0.6	7.18
5.93	111.0	0.67	0.42	0.7	0.0	165.672	0.604	0.493	109.2	0.6	7.04
5.94	111.2	0.66	0.43	0.7	0.0	168.485	0.594	0.494	109.4	0.6	7
5.95	110.3	0.67	0.43	0.7	0.0	164.627	0.607	0.495	108.5	0.6	7.11
5.96	109.7	0.67	0.43	0.7	0.0	163.731	0.611	0.496	108.3	0.6	7.23
5.97	110.1	0.68	0.43	0.7	0.0	161.912	0.618	0.497	108.3	0.6	7.27
5.98	111.0	0.69	0.43	0.7	0.0	160.87	0.622	0.498	109.2	0.6	7.22
5.99	111.7	0.7	0.43	0.7	0.0	159.571	0.627	0.499	109.9	0.6	7.19
6.00	112.5	0.71	0.43	0.7	0.0	158.451	0.631	0.5	110.7	0.6	7.17
6.01	114.2	0.73	0.43	0.7	0.0	156.438	0.639	0.501	112.5	0.6	7.13
6.02	114.2	0.73	0.43	0.7	0.0	156.438	0.639	0.502	112.5	0.6	7.13

(Biplo s.s. di Casone Luigi Ampliamento impianto zootecnico Zerbinate di Bordenò FE) 31

6.03	114.2	0.73	0.43	0.7	0.0	156.438	0.639	0.503	112.5	0.6	7.13
6.04	114.6	0.6	0.47	0.7	0.0	191.0	0.524	0.504	112.9	0.5	6.19
6.05	115.8	0.65	0.47	0.7	0.0	178.154	0.561	0.505	114.0	0.6	6.42
6.06	116.3	0.67	0.47	0.7	0.0	173.582	0.576	0.506	114.5	0.6	6.5
6.07	117.5	0.7	0.47	0.7	0.0	167.857	0.597	0.507	115.7	0.6	6.62
6.08	117.8	0.72	0.47	0.7	0.0	163.611	0.611	0.508	116.0	0.6	6.7
6.09	117.6	0.75	0.47	0.7	0.0	156.8	0.638	0.509	115.8	0.6	6.91
6.10	117.2	0.76	0.47	0.7	0.0	154.211	0.648	0.51	115.4	0.7	7.02
6.11	117.0	0.77	0.47	0.6	0.0	151.948	0.658	0.511	115.2	0.7	7.11
6.12	116.7	0.78	0.47	0.7	0.0	149.615	0.668	0.512	114.9	0.7	7.21
6.13	115.8	0.79	0.47	0.6	0.0	146.582	0.682	0.513	114.0	0.7	7.41
6.14	115.2	0.8	0.47	0.6	0.0	144.0	0.694	0.514	113.4	0.7	7.51
6.15	113.7	0.8	0.47	0.6	0.0	142.125	0.704	0.515	111.9	0.7	7.74
6.16	112.9	0.81	0.47	0.6	0.0	139.383	0.717	0.516	111.1	0.7	7.87
6.17	112.0	0.82	0.47	0.6	0.0	136.585	0.732	0.517	110.2	0.7	8.04
6.18	110.4	0.84	0.47	0.6	0.0	131.429	0.761	0.518	108.6	0.8	8.35
6.19	109.6	0.84	0.48	0.6	0.0	130.476	0.766	0.519	107.9	0.8	8.48
6.20	109.0	0.85	0.48	0.6	0.0	128.235	0.78	0.52	107.3	0.8	8.57
6.21	107.7	0.85	0.48	0.6	0.0	126.706	0.789	0.521	105.9	0.8	8.74
6.22	107.2	0.85	0.48	0.6	0.0	126.118	0.793	0.522	105.4	0.8	8.8
6.23	107.0	0.84	0.48	0.6	0.0	127.381	0.785	0.523	105.2	0.8	8.82
6.24	106.5	0.84	0.48	0.6	0.0	126.786	0.789	0.524	104.7	0.8	8.85
6.25	106.5	0.84	0.48	0.6	0.0	126.786	0.789	0.525	104.7	0.8	8.85
6.26	106.5	0.84	0.48	0.6	0.0	126.786	0.789	0.526	104.7	0.8	8.83
6.27	106.6	0.84	0.48	0.6	0.0	126.905	0.788	0.527	104.8	0.8	8.81
6.28	107.1	0.83	0.48	0.6	0.0	129.036	0.775	0.528	105.3	0.8	8.65
6.29	107.6	0.83	0.48	0.6	0.0	129.639	0.771	0.529	105.8	0.8	8.65
6.30	108.7	0.82	0.48	0.6	0.0	132.561	0.754	0.53	107.0	0.8	8.43
6.31	109.6	0.82	0.48	0.6	0.0	133.659	0.748	0.531	107.9	0.8	8.29
6.32	111.3	0.81	0.48	0.6	0.0	137.407	0.728	0.532	109.5	0.7	8.02
6.33	112.3	0.8	0.48	0.6	0.0	140.375	0.712	0.533	110.5	0.7	7.88
6.34	114.6	0.8	0.49	0.6	0.0	143.25	0.698	0.534	112.9	0.7	7.57
6.35	114.6	0.8	0.49	0.6	0.0	143.25	0.698	0.535	112.9	0.7	7.57
6.36	117.1	0.79	0.49	0.6	0.0	148.228	0.675	0.536	115.3	0.7	7.28
6.37	118.2	0.79	0.49	0.6	0.0	149.62	0.668	0.537	116.4	0.7	7.15
6.38	120.4	0.79	0.49	0.6	0.0	152.405	0.656	0.538	118.6	0.7	6.91
6.39	121.7	0.79	0.49	0.6	0.0	154.051	0.649	0.539	119.7	0.7	6.79
6.40	123.8	0.79	0.49	0.6	0.0	156.709	0.638	0.54	122.0	0.6	6.59
6.41	123.8	0.79	0.49	0.6	0.0	156.709	0.638	0.541	122.0	0.6	6.59
6.42	123.8	0.79	0.49	0.6	0.0	158.861	0.629	0.542	123.7	0.6	6.45
6.43	127.4	0.8	0.49	0.6	0.0	159.25	0.628	0.543	125.6	0.6	6.31
6.44	128.0	0.8	0.49	0.6	0.0	160.0	0.625	0.544	126.2	0.6	6.28
6.45	128.9	0.81	0.49	0.6	0.0	159.136	0.619	0.545	124.9	0.6	6.18
6.46	130.5	0.83	0.50	0.6	0.0	157.229	0.636	0.546	127.7	0.6	6.18
6.47	131.6	0.83	0.50	0.6	0.0	158.554	0.631	0.547	129.8	0.6	6.14
6.48	132.8	0.84	0.50	0.6	0.0	158.095	0.633	0.548	131.0	0.6	6.09
6.49	135.5	0.86	0.50	0.6	0.0	157.558	0.635	0.549	133.7	0.6	5.93
6.50	136.7	0.86	0.50	0.6	0.0	158.953	0.629	0.55	134.9	0.6	5.88
6.51	137.9	0.88	0.50	0.6	0.0	156.705	0.629	0.551	136.6	0.6	5.86
6.52	138.6	0.88	0.50	0.6	0.0	157.5	0.635	0.552	136.8	0.6	5.83
6.53	138.7	0.89	0.50	0.6	0.0	155.843	0.642	0.553	136.9	0.7	5.85
6.54	138.7	0.9	0.50	0.6	0.0	154.111	0.649	0.554	136.9	0.7	5.9
6.55	137.5	0.92	0.50	0.6	0.0	149.457	0.669	0.555	135.7	0.7	6.1
6.56	136.1	0.93	0.50	0.6	0.0	146.344	0.683	0.556	134.3	0.7	6.27
6.57	126.1	0.76	0.54	0.6	0.0	165.939	0.671	0.557	127.7	0.6	6.18
6.58	125.3	0.78	0.54	0.6	0.0	160.641	0.623	0.558	123.5	0.6	6.36
6.59	123.1	0.81	0.54	0.6	0.0	151.975	0.658	0.559	121.2	0.7	6.81
6.60	122.0	0.83	0.54	0.6	0.0	146.988	0.68	0.56	120.3	0.7	6.99
6.61	119.5	0.88	0.54	0.6	0.0	135.795	0.736	0.561	117.8	0.7	7.59
6.62	117.5	0.92	0.54	0.6	0.0	127.717	0.783	0.562	115.7	0.8	8.07
6.63	119.2	0.92	0.54	0.6	0.0	127.717	0.783	0.563	115.7	0.8	8.07
6.64	115.8	0.95	0.54	0.6	0.0	121.895	0.82	0.564	114.0	0.8	8.43
6.65	113.5	0.97	0.54	0.6	0.0	117.01	0.855	0.565	111.7	0.9	8.83
6.66	112.3	0.97	0.54	0.6	0.0	115.773	0.864	0.566	110.5	0.9	8.98
6.67	110.5	0.97	0.54	0.6	0.0	113.918	0.878	0.567	108.7	0.9	9.2
6.68	109.8	0.96	0.54	0.6	0.0	114.375	0.874	0.568	108.1	0.9	9.26
6.69	109.1	0.95	0.54	0.6	0.0	113.367	0.881	0.569	107.1	0.9	9.31
6.70	107.9	0.95	0.55	0.6	0.0	113.579	0.888	0.57	106.1	0.9	9.42
6.71	107.2	0.95	0.55	0.6	0.0	112.842	0.886	0.571	105.4	0.9	9.5
6.72	105.7	0.94	0.55	0.6	0.0	112.447	0.889	0.572	103.9	0.9	9.62

8.13	62.8	0.38	0.64	0.6	0.0	165.623	0.605	0.713	61.0	0.6	11.99
8.14	62.8	0.38	0.64	0.6	0.0	163.421	0.612	0.714	60.3	0.6	12.21
8.15	61.4	0.38	0.64	0.6	0.0	161.579	0.619	0.715	59.6	0.6	12.43
8.16	60.5	0.38	0.65	0.6	0.0	159.211	0.628	0.716	58.7	0.6	12.63
8.17	58.8	0.39	0.65	0.6	0.0	150.769	0.663	0.717	57.0	0.6	13.07
8.18	58.1	0.4	0.65	0.6	0.0	145.25	0.688	0.718	56.4	0.7	13.61
8.19	57.7	0.43	0.65	0.6	0.0	134.186	0.745	0.719	55.9	0.8	14.22
8.20	57.9	0.44	0.66	0.6	0.0	131.591	0.76	0.72	56.1	0.8	14.36
8.21	58.3	0.45	0.66	0.6	0.0	129.556	0.772	0.721	56.6	0.8	14.35
8.22	59.3	0.45	0.66	0.6	0.0	131.778	0.759	0.722	57.5	0.8	14.09
8.23	62.1	0.45	0.66	0.6	0.0	138.0	0.725	0.723	60.3	0.9	13.32
8.24	63.4	0.45	0.66	0.6	0.0	140.889	0.71	0.724	61.7	0.9	12.95
8.25	66.6	0.46	0.66	0.6	0.0	144.783	0.691	0.725	64.8	0.7	12.19
8.26	68.1	0.45	0.62	0.6	0.0	151.333	0.661	0.726	66.3	0.7	11.82
8.27	68.8	0.45	0.59	0.6	0.0	152.889	0.654	0.727	67.0	0.7	11.57
8.28	67.3	0.45	0.57	0.6	0.0	156.977	0.637	0.728	65.7	0.7	11.69
8.29	65.3	0.43	0.57	0.6	0.0	151.86	0.658	0.729	63.5	0.7	12.12
8.30	62.7	0.42	0.57	0.6	0.0	149.286	0.67	0.73	60.9	0.7	12.74
8.31	55.8	0.41	0.57	0.7	0.0	136.098	0.735	0.731	54.0	0.8	14.58
8.32	52.0	0.41	0.57	0.7	0.0	126.829	0.788	0.732	50.2	0.8	15.85
8.33	48.1	0.42	0.57	0.7	0.0	114.524	0.873	0.733	46.4	0.9	17.38
8.34	40.8	0.43	0.57	0.6	0.0	94.884	1.054	0.734	39.0	1.1	21.09
8.35	37.2	0.43	0.57	0.6	0.0	86.512	1.156	0.735	35.4	1.2	23.42
8.36	33.4	0.45	0.57	0.6	0.0	74.222	1.347	0.736	31.6	1.4	26.37
8.37	29.7	0.47	0.57	0.6	0.0	63.191	1.582	0.737	27.9	1.7	30.07
8.38	23.6	0.53	0.60	0.6	0.0	44.528	2.246	0.738	21.8	2.4	38.67
8.39	21.5	0.56	0.61	0.6	0.0	38.393	2.605	0.739	19.7	2.8	42.87
8.40	18.4	0.64	0.64	0.6	0.0	29.219	3.422	0.74	16.4	3.4	50.18
8.41	18.7	0.64	0.64	0.6	0.0	29.219	3.422	0.741	16.9	3.8	50.19
8.42	18.3	0.72	0.73	0.6	0.0	25.417	3.934	0.742	16.5	4.3	53.1
8.43	22.9	0.82	0.76	0.6	0.0	27.927	3.581	0.743	21.2	3.9	46.24
8.44	26.8	0.81	0.77	0.6	0.0	33.086	3.022	0.744	25.0	3.2	40.38
8.45	32.7	0.76	0.79	0.6	0.0	43.026	2.324	0.745	30.9	2.5	33.1
8.46	38.7	0.66	0.72	0.6	0.0	58.636	1.705	0.746	36.9	1.8	26.52
8.47	38.0	0.62	0.69	0.6	0.0	61.29	1.632	0.747	36.3	1.7	26.38
8.48	36.2	0.59	0.67	0.6	0.0	61.356	1.63	0.748	34.4	1.7	27.17
8.49	33.5	0.56	0.65	0.6	0.0	59.821	1.672	0.749	31.7	1.8	28.6
8.50	26.7	0.5	0.64	0.7	0.0	53.4	1.873	0.75	24.9	2.0	34.04
8.51	22.9	0.47	0.64	0.7	0.0	48.723	2.052	0.751	21.2	2.2	37.99
8.52	17.5	0.44	0.63	0.7	0.0	39.773	2.514	0.752	15.7	2.8	47.31
8.53	15.6	0.45	0.63	0.7	0.0	34.667	2.885	0.753	13.8	3.3	52.23
8.54	14.3	0.47	0.63	0.7	0.0	30.426	3.287	0.754	12.5	3.7	56.57
8.55	13.6	0.48	0.63	0.7	0.0	28.333	3.529	0.755	11.8	4.0	59.38
8.56	13.2	0.5	0.64	0.7	0.0	26.4	3.788	0.756	11.4	4.4	61.61
8.57	13.2	0.52	0.64	0.7	0.0	25.385	3.939	0.757	11.4	4.5	62.32
8.58	12.6	0.54	0.67	0.7	0.0	23.333	4.286	0.758	10.9	5.0	65.36
8.59	12.6	0.53	0.65	0.7	0.0	23.774	4.206	0.759	10.9	4.8	64.7
8.60	12.6	0.53	0.65	0.7	0.0	23.774	4.206	0.76	10.9	4.8	64.7
8.61	14.6	0.51	0.68	0.7	0.0	28.627	3.493	0.761	12.8	4.0	57.27
8.62	15.4	0.51	0.74	0.7	0.0	30.196	3.312	0.762	13.6	3.7	54.65
8.63	15.7	0.49	0.73	0.7	0.0	32.041	3.121	0.763	13.9	3.5	53.26
8.64	15.4	0.45	0.73	0.7	0.0	33.556	2.98	0.764	13.3	3.4	53.74
8.65	14.3	0.43	0.69	0.7	0.0	33.256	3.007	0.765	12.5	3.4	55.25
8.66	14.3	0.43	0.69	0.7	0.0	33.256	3.007	0.766	12.5	3.4	55.26
8.67	12.6	0.37	0.69	0.7	0.0	34.054	2.937	0.767	10.8	3.4	58.81
8.68	10.9	0.34	0.68	0.7	0.0	32.059	3.119	0.768	9.1	3.7	64.28
8.69	10.2	0.33	0.67	0.7	0.0	30.909	3.235	0.769	8.4	3.9	67.06
8.70	9.4	0.32	0.67	0.7	0.0	29.375	3.404	0.77	7.6	4.2	71.19
8.71	8.3	0.34	0.66	0.7	0.0	24.412	4.096	0.771	6.5	5.2	79.74
8.72	8.5	0.33	0.67	0.7	0.0	25.758	3.882	0.772	6.7	4.9	77.58
8.73	8.9	0.27	0.68	0.7	0.0	32.963	3.034	0.773	7.1	3.7	70.73
8.74	10.2	0.25	0.70	0.7	0.0	40.8	2.51	0.774	8.4	3.0	62.67
8.75	10.2	0.27	0.70	0.7	0.0	37.778	2.647	0.775	8.4	3.2	63.45
8.76	10.3	0.26	0.70	0.7	0.0	39.615	2.524	0.776	8.5	3.1	62.68
8.77	9.5	0.25	0.68	0.7	0.0	38.0	2.632	0.777	7.7	3.3	66.29
8.78	8.6	0.26	0.67	0.7	0.0	33.077	3.023	0.778	6.8	3.7	72.05
8.79	7.8	0.26	0.66	0.7	0.0	30.0	3.333	0.779	6.0	4.3	78.42
8.80	7.0	0.28	0.66	0.7	0.0	25.0	4.0	0.78	5.2	5.4	87.74
8.81	6.31	0.67	0.8	0.7	0.0	20.645	4.84	0.781	4.6	6.7	96.53
8.82	6.3	0.3	0.68	0.7	0.0	21.0	4.762	0.782	4.5	6.6	97.1

(Bilgi s.s. di Casone Luigi-Ampliamento impianto zootecnico Zerbina di Bordenò FE) 35

8.83	6.2	0.25	0.68	0.7	0.0	24.8	4.032	0.783	4.4	5.6	94.01
8.84	6.2	0.23	0.69	0.8	0.0	26.957	3.71	0.784	4.4	5.2	92.02
8.85	6.2	0.21	0.69	0.7	0.0	29.524	3.387	0.785	4.4	4.9	90.7
8.86	6.2	0.2	0.69	0.7	0.0	31.0	3.226	0.786	4.4	4.5	89.11
8.87	6.4	0.18	0.70	0.7	0.0	35.556	2.813	0.787	4.6	3.9	84.9
8.88	7.1	0.18	0.70	0.7	0.0	39.444	2.535	0.788	5.3	3.3	77.42
8.89	10.7	0.19	0.72	0.7	0.0	56.316	1.776	0.789	8.9	2.1	55.62
8.90	13.5	0.19	0.73	0.7	0.0	71.053	1.407	0.79	11.7	1.6	45.76
8.91	16.5	0.19	0.73	0.7	0.0	86.842	1.152	0.791	14.7	1.3	38.31
8.92	19.5	0.18	0.72	0.7	0.0	108.333	0.923	0.792	17.7	1.0	32.3
8.93	23.7	0.14	0.69	0.7	0.0	169.286	0.591	0.793	21.9	0.6	24.83
8.94	25.2	0.13	0.66	0.7	0.0	193.846	0.516	0.794	23.4	0.6	23.03
8.95	26.5	0.13	0.66	0.7	0.0	203.846	0.491	0.795	24.7	0.5	21.64
8.96	26.0	0.13	0.66	0.7	0.0	200.0	0.5	0.796	24.2	0.5	21.62
8.97	25.2	0.12	0.66	0.7	0.0	210.0	0.476	0.797	23.4	0.5	22.54
8.98	24.0	0.12	0.67	0.7	0.0	200.0	0.5	0.798	22.2	0.6	23.67
8.99	21.2	0.12	0.67	0.8	0.0	176.667	0.566	0.799	19.4	0.6	26.92
9.00	19.8	0.12	0.67	0.7	0.0	165.0	0.606	0.8	18.0	0.7	28.74
9.01	18.8	0.13	0.67	0.7	0.0	144.615	0.691	0.801	17.0	0.8	30.68
9.02	18.8	0.13	0.67	0.7	0.0	144.615	0.691	0.802	17.0	0.8	30.68
9.03	18.8	0.13	0.67	0.7	0.0	144.615	0.691	0.803	17.0	0.8	30.68
9.04	16.5	0.2	0.73	0.7	0.0	82.5	1.212	0.804	14.7	1.4	39.03
9.05	16.1	0.22	0.74	0.7	0.0	73.182	1.366	0.805	14.3	1.6	41.21
9.06	15.9	0.25	0.74	0.7	0.0	63.6	1.572	0.806	14.1	1.8	43
9.07	16.0	0.27	0.71	0.7	0.0	59.259	1.688	0.807	14.2	1.9	43.66
9.08	15.4	0.27	0.63	0.7	0.0	57.037	1.753	0.808	13.6	2.0	45.3
9.09	15.0	0.28	0.64	0.7	0.0	53.571	1.867	0.809	13.2	2.1	46.82
9.10	14.3	0.29	0.66	0.7	0.0	49.31	2.028	0.81	12.5	2.4	49.37
9.11	13.6	0.3	0.72	0.7	0.0	45.333	2.206	0.811	11.8	2.5	51.58
9.12	13.0	0.29	0.74	0.7	0.0	44.828	2.231	0.812	11.2	2.6	53.22
9.13	11.6	0.29	0.89	0.7	0.0	40.0	2.5	0.813	9.8	3.0	58.8
9.14	10.8	0.31	0.94	0.7	0.0	34.839	2.87	0.814	9.0	3.5	63.37
9.15	10.7	0.33	0.97	0.7	0.0	32.424	3.084	0.815	8.9	3.8	65.1
9.16	10.7	0.33	0.97	0.7	0.0	32.424	3.084	0.816	8.9	3.8	65.1
9.17	9.3	0.37	1.19	0.7	0.0	25.135	4.978	0.817	7.5	4.9	74.79
9.18	8.9	0.37	1.34	0.7	0.0	24.054	5.157	0.818	7.1	5.2	77.38
9.19	8.5	0.35	1.47	0.7	0.0	24.286	4.118	0.819	6.7	5.3	79.34
9.20	8.5	0.35	1.47	0.7	0.0	24.286	4.118	0.82	6.7	5.3	79.35
9.21	8.4	0.31	1.41	0.7	0.0	27.097	4.39	0.821	6.6	4.7	77.5
9.22	8.2	0.3	1.41	0.7	0.0	27.333	3.659	0.822	6.4	4.7	78.31
9.23	8.2	0.29	1.33	0.7	0.0	28.276	3.537	0.823	6.4	4.6	77.83
9.24	8.1	0.3	1.33	0.7	0.0	27.704	3.704	0.824	6.3	4.7	78.87
9.25	8.0	0.31	1.33	0.7	0.0	25.906	3.875	0.825	6.2	5.0	80.46
9.26	8.0	0.31	1.33	0.7	0.0	25.808	3.875	0.826	6.2	5.0	80.47
9.27	8.3	0.3	1.34	0.7	0.0	27.667	3.614	0.827	6.5	4.7	77.78
9.28	10.6	0.28	1.36	0.7	0.0	36.552	2.736	0.828	8.8	3.3	63.28
9.29	22.4	0.27	1.43	0.8	0.0	82.963	1.250	0.829	20.5	1.3	32.55
9.30	31.7	0.27	1.45	0.9	0.0	117.407	0.802	0.831	29.9	0.9	23.08
9.31	40.8	0.26	1.39	0.9	0.0	156.923	0.637	0.833	39.0	0.7	17.34
9.32	48.1	0.26	1.31	0.9	0.0	185.0	0.541	0.832	46.3	0.6	14.26
9.33	54.3	0.27	1.20	0.8	0.0	201.111	0.497	0.833	52.5	0.5	12.39
9.34	54.3	0.26	1.18	0.8	0.0	208.846	0.479	0.834	52.5	0.5	12.36
9.35	51.5	0.25	1.04	0.8	0.0	206.0	0.485	0.835	49.7	0.5	12.99
9.36	49.8	0.24	1.03	0.8	0.0	207.5	0.482	0.836	48.0	0.5	13.33
9.37	48.0	0.23	1.03	0.8	0.0	208.697	0.478	0.837	46.1	0.5	13.72
9.38	43.8	0.24	1.04	0.8	0.0	182.5	0.548	0.838	42.0	0.6	15.37
9.39	41.7	0.24	1.02	0.8	0.0	173.75	0.576	0.839	39.6	0.6	16.54
9.40	39.5	0.25	1.02	0.9	0.0	158.0	0.633	0.84	37.7	0.7	17.81
9.41	37.0	0.26	1.02	0.8	0.0	142.308	0.703	0.841	35.1	0.8	19.47
9.42	32.1	0.28	1.01	0.8	0.0	114.643	0.872	0.842	30.9	0.9	23.26
9.43	29.4	0.29	1.01	0.8	0.0	101.986	0.986	0.843	27.6	1.1	25.73
9.44	24.5	0.33	0.99	0.8	0.0	74.242	1.347	0.844	22.4	1.4	31.74
9.45	22.2	0.35	0.99	0.9	0.0	63.429	1.577	0.845	20.3	1.7	35.61
9.46	20.0	0.36	0.97	0.8	0.0	55.556	1.8	0.846	18.2	2.0	39.58
9.47	18.0	0.37	0.93	0.9	0.0	48.649	2.056	0.847	16.2	2.3	43.74
9.48	14.4	0.4	0.91	0.9	0.0	36.0	2.778	0.848	12.6	3.2	54.05
9.49	12.7	0.42	0.91	0.9	0.0	30.0	3.307	0.849	10.9	3.9	66.68
9.50	10.2	0.46	0.91	0.9	0.0	22.14	4.51	0.85	8.4	5.6	74.37
9.51	10.2	0.46	0.91	0.9	0.0	22.14	4.51	0.851	8.4	5.6	74.38
9.52	9.0	0.48	0.90	0.9	0.0	18.75	5.333	0.852	7.2	6.8	82.84

10.93	121.7	0.86	1.05	1.2	0.0	141.512	0.707	0.993	120.1	0.7	7.3
10.94	120.5	0.87	1.05	1.2	0.0	138.506	0.722	0.994	118.9	0.7	7.44
10.95	118.4	0.87	1.05	1.2	0.0	136.092	0.735	0.995	116.7	0.8	7.69
10.96	115.8	0.87	1.05	1.2	0.0	133.103	0.751	0.996	114.2	0.8	8.01
10.97	109.6	0.88	1.05	1.2	0.0	124.545	0.803	0.997	108.4	0.7	8.37
10.98	107.0	0.88	1.05	1.2	0.0	121.591	0.822	0.998	105.3	0.9	9.15
10.99	104.6	0.88	1.05	1.2	0.0	118.864	0.841	0.999	103.0	0.9	9.46
11.00	101.8	0.88	1.05	1.2	0.0	115.682	0.864	1.0	100.1	0.9	9.81
11.01	101.0	0.87	1.06	1.2	0.0	116.092	0.861	1.001	99.4	0.9	9.91
11.02	101.0	0.87	1.06	1.2	0.0	116.092	0.861	1.001	99.4	0.9	9.91
11.03	101.0	0.87	1.06	1.2	0.0	116.092	0.861	1.001	99.4	0.9	9.91
11.04	99.4	0.72	1.08	1.2	0.0	138.056	0.724	1.004	97.8	0.8	8.99
11.05	100.6	0.74	1.08	1.2	0.0	135.946	0.736	1.005	99.0	0.8	8.99
11.06	101.3	0.75	1.08	1.2	0.0	135.067	0.74	1.006	99.7	0.8	8.93
11.07	101.8	0.75	1.08	1.2	0.0	135.733	0.737	1.007	100.1	0.8	8.87
11.08	103.1	0.75	1.08	1.2	0.0	137.467	0.727	1.008	101.4	0.7	8.67
11.09	103.7	0.74	1.08	1.2	0.0	140.135	0.714	1.009	102.1	0.7	8.53
11.10	104.2	0.74	1.08	1.2	0.0	140.811	0.71	1.01	102.6	0.7	8.44
11.11	104.3	0.73	1.08	1.2	0.0	142.877	0.7	1.011	102.7	0.7	8.39
11.12	104.4	0.73	1.08	1.2	0.0	143.014	0.699	1.012	102.8	0.7	8.4
11.13	104.5	0.73	1.08	1.2	0.0	143.151	0.699	1.013	102.9	0.7	8.37
11.14	104.6	0.73	1.08	1.2	0.0	143.288	0.698	1.014	103.0	0.7	8.35
11.15	104.6	0.72	1.08	1.2	0.0	143.278	0.688	1.015	103.0	0.7	8.3
11.16	104.2	0.72	1.08	1.2	0.0	144.722	0.691	1.016	102.6	0.7	8.32
11.17	102.5	0.72	1.08	1.2	0.0	142.361	0.702	1.017	100.8	0.7	8.56
11.18	101.7	0.72	1.08	1.2	0.0	141.25	0.708	1.018	100.0	0.7	8.69
11.19	101.7	0.73	1.08	1.2	0.0	139.315	0.718	1.019	100.0	0.7	8.7
11.20	102.3	0.73	1.08	1.2	0.0	139.863	0.715	1.02	100.1	0.7	8.68
11.21	105.0	0.73	1.08	1.2	0.0	143.836	0.695	1.021	103.4	0.7	8.29
11.22	107.5	0.73	1.08	1.2	0.0	147.26	0.679	1.022	105.8	0.7	7.96
11.23	111.4	0.73	1.08	1.2	0.0	152.603	0.655	1.023	109.8	0.7	7.51
11.24	112.1	0.73	1.08	1.2	0.0	153.562	0.651	1.024	110.4	0.7	7.45
11.25	111.5	0.74	1.08	1.2	0.0	150.676	0.664	1.025	109.9	0.7	7.57
11.26	110.2	0.74	1.08	1.2	0.0	148.919	0.672	1.026	108.6	0.7	7.78
11.27	106.8	0.76	1.08	1.2	0.0	140.526	0.712	1.027	105.1	0.7	8.33
11.28	105.7	0.77	1.08	1.2	0.0	137.273	0.728	1.028	104.1	0.8	8.52
11.29	104.4	0.78	1.08	1.2	0.0	133.846	0.747	1.029	102.8	0.8	8.76
11.30	104.3	0.78	1.08	1.2	0.0	133.718	0.748	1.03	102.7	0.8	8.79
11.31	104.3	0.78	1.08	1.2	0.0	133.718	0.748	1.031	102.7	0.8	8.8
11.32	104.8	0.78	1.08	1.2	0.0	134.359	0.754	1.032	103.2	0.8	8.72
11.33	106.7	0.79	1.09	1.2	0.0	135.063	0.74	1.033	105.1	0.8	8.56
11.34	108.1	0.79	1.09	1.2	0.0	136.835	0.731	1.034	106.4	0.8	8.4
11.35	109.7	0.8	1.09	1.2	0.0	137.125	0.729	1.035	108.1	0.7	8.21
11.36	113.7	0.8	1.09	1.2	0.0	142.125	0.704	1.036	112.7	0.7	7.54
11.37	115.5	0.8	1.09	1.2	0.0	144.375	0.693	1.037	113.9	0.7	7.54
11.38	117.1	0.79	1.09	1.2	0.0	148.228	0.675	1.038	115.4	0.7	7.33
11.39	119.7	0.78	1.09	1.2	0.0	153.462	0.652	1.039	118.1	0.7	6.97
11.40	121.2	0.77	1.09	1.2	0.0	157.403	0.635	1.04	119.6	0.7	6.78
11.41	122.7	0.77	1.09	1.2	0.0	159.351	0.628	1.041	121.0	0.6	6.6
11.42	124.7	0.77	1.10	1.2	0.0	161.948	0.617	1.042	123.1	0.6	6.44
11.43	125.5	0.78	1.10	1.3	0.0	160.897	0.622	1.043	123.9	0.6	6.41
11.44	126.4	0.78	1.10	1.3	0.0	160.0	0.625	1.044	124.7	0.6	6.37
11.45	128.0	0.8	1.10	1.2	0.0	160.0	0.625	1.045	126.3	0.6	6.32
11.46	128.0	0.8	1.10	1.2	0.0	160.0	0.625	1.046	126.3	0.6	6.32
11.47	128.7	0.81	1.10	1.3	0.0	158.889	0.629	1.047	127.0	0.7	6.32
11.48	128.1	0.82	1.10	1.3	0.0	156.122	0.64	1.048	126.4	0.7	6.45
11.49	127.1	0.83	1.10	1.3	0.0	153.133	0.653	1.049	125.4	0.7	6.59
11.50	125.4	0.85	1.13	1.3	0.0	149.405	0.669	1.05	123.9	0.7	6.82
11.51	120.4	0.89	1.10	1.3	0.0	135.281	0.739	1.051	118.8	0.8	7.63
11.52	120.4	0.89	1.10	1.3	0.0	135.281	0.739	1.052	118.8	0.8	7.63
11.53	115.7	0.92	1.10	1.3	0.0	125.761	0.795	1.053	114.1	0.8	8.34
11.54	112.6	0.94	1.10	1.3	0.0	119.787	0.835	1.054	110.9	0.9	8.86
11.55	111.4	0.95	1.10	1.3	0.0	117.263	0.853	1.055	109.8	0.9	9.06
11.56	110.6	0.96	1.10	1.3	0.0	115.208	0.868	1.056	109.0	0.9	9.19
11.57	109.5	0.96	1.10	1.3	0.0	114.063	0.877	1.057	107.9	0.9	9.35
11.58	106.8	0.96	1.10	1.3	0.0	111.125	0.899	1.058	105.2	0.9	9.72
11.59	104.7	0.96	1.10	1.3	0.0	109.603	0.917	1.059	103.1	0.9	10.01
11.60	99.6	0.96	1.10	1.3	0.0	103.75	0.984	1.06	98.0	1.0	10.78
11.61	97.5	0.96	1.10	1.3	0.0	101.563	0.985	1.061	95.8	1.0	11.11
11.62	94.1	0.96	1.10	1.3	0.0	98.021	1.02	1.062	92.5	1.1	11.64

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11.63	90.0	0.95	1.10	1.3	0.0	94.737	1.056	1.063	88.4	1.1	12.3
11.64	72.7	0.98	1.09	1.3	0.0	74.184	1.348	1.064	71.0	1.4	16.39
11.65	70.7	0.97	1.09	1.3	0.0	72.887	1.372	1.065	69.1	1.4	16.78
11.66	66.7	0.95	1.09	1.3	0.0	70.211	1.424	1.066	65.0	1.5	17.85
11.67	58.7	0.93	1.08	1.2	0.0	63.118	1.584	1.067	57.1	1.7	20.31
11.68	55.0	0.92	1.08	1.2	0.0	59.783	1.673	1.068	53.4	1.8	21.63
11.69	53.1	0.9	1.08	1.2	0.0	59.0	1.695	1.069	51.5	1.8	22.28
11.70	53.8	0.88	1.08	1.2	0.0	61.136	1.636	1.07	52.2	1.7	21.76
11.71	53.8	0.88	1.08	1.2	0.0	61.136	1.636	1.071	52.2	1.7	21.76
11.72	56.2	0.89	1.08	1.2	0.0	63.146	1.584	1.072	54.6	1.7	20.89
11.73	63.7	0.89	1.09	1.2	0.0	71.573	1.397	1.073	62.1	1.5	18.12
11.74	68.7	0.86	1.09	1.2	0.0	79.884	1.252	1.074	67.1	1.3	16.34
11.75	74.7	0.83	1.10	1.2	0.0	90.0	1.111	1.075	73.1	1.2	14.44
11.76	81.3	0.8	1.11	1.2	0.0	101.625	0.984	1.076	79.7	1.0	12.78
11.77	93.1	0.76	1.12	1.2	0.0	122.5	0.816	1.077	91.4	0.8	10.22
11.78	98.9	0.73	1.12	1.2	0.0	135.479	0.738	1.078	97.3	0.8	9.11
11.79	109.6	0.69	1.13	1.2	0.0	158.841	0.63	1.079	108.0	0.6	7.44
11.80	114.1	0.68	1.13	1.2	0.0	167.794	0.596	1.08	112.5	0.6	6.87
11.81	117.7	0.67	1.13	1.2	0.0	175.672	0.569	1.081	116.0	0.6	6.44
11.82	117.7	0.67	1.13	1.2	0.0	175.672	0.569	1.082	116.0	0.6	6.44
11.83	123.7	0.69	1.13	1.2	0.0	179.275	0.558	1.083	122.0	0.6	5.97
11.84	125.0	0.7	1.13	1.2	0.0	178.571	0.56	1.084	123.4	0.6	5.94
11.85	126.3	0.73	1.13	1.2	0.0	173.014	0.578	1.085	124.7	0.6	6.04
11.86	125.8	0.75	1.13	1.2	0.0	167.733	0.596	1.086	124.2	0.6	6.21
11.87	124.7	0.77	1.13	1.2	0.0	161.948	0.617	1.087	123.1	0.6	6.4
11.88	124.7	0.77	1.13	1.2	0.0	161.948	0.617	1.088	123.1	0.6	6.4
11.89	122.8	0.78	1.14	1.3	0.0	157.436	0.635	1.089	121.2	0.7	6.71
11.90	122.8	0.78	1.14	1.3	0.0	157.436	0.635	1.089	121.2	0.7	6.71
11.91	120.8	0.79	1.13	1.3	0.0	152.911	0.654	1.091	119.2	0.7	6.96
11.92	119.7	0.8	1.13	1.3	0.0	149.625	0.668	1.092	118.1	0.7	7.12
11.93	116.2	0.83	1.13	1.3	0.0	140.0	0.714	1.093	114.6	0.7	7.69
11.94	116.2	0.83	1.13	1.3	0.0	140.0	0.714	1.094	114.6	0.7	7.69
11.95	113.1	0.86	1.13	1.3	0.0	131.512	0.76	1.095	111.4	0.8	8.26
11.96	111.7	0.88	1.13	1.3	0.0	126.932	0.788	1.096	110.1	0.8	8.52
11.97	109.5	0.89	1.13	1.3	0.0	123.034	0.81	1.097	107.9	0.8	8.9
11.98	108.7	0.9	1.13	1.3	0.0	120.778	0.828	1.098	107	0.9	9.04
11.99	108.5	0.9	1.13	1.3	0.0	120.556	0.829	1.099	108.09	0.9	9.12
12.00	108.3	0.91	1.13	1.3	0.0	119.9	0.84	1.100	106.6	0.9	9.2
12.01	107.7	0.91	1.14	1.3	0.0	118.352	0.845	1.101	106.0	0.9	9.29
12.02	107.7	0.91	1.14	1.3	0.0	118.352	0.845	1.102	106.0	0.9	9.29
12.03	107.7	0.91	1.14	1.3	0.0	118.352	0.845	1.103	106.0	0.9	9.29
12.04	103.3	0.8	1.11	1.3	0.0	129.125	0.774	1.104	101.6	0.8	9.04
12.05	102.1	0.81	1.11	1.3	0.0	126.649	0.793	1.105	100.4	0.8	9.33
12.06	100.2	0.82	1.11	1.3	0.0	121.95	0.82	1.106	98.4	0.9	9.7
12.07	94.2	0.84	1.11	1.3	0.0	112.143	0.892	1.107	92.6	0.9	10.69
12.08	91.2	0.84	1.11	1.3	0.0	108.571	0.921	1.108	89.0	1.0	11.23
12.09	86.5	0.85	1.11	1.3	0.0	101.765	0.983	1.109	84.9	1.0	12.12
12.10	85.1	0.84	1.11	1.3	0.0	101.31	0.987	1.11	83.5	1.0	12.37
12.11	84.4	0.84	1.11	1.3	0.0	100.476	0.995	1.111	82.8	1.0	12.48
12.12	84.4	0.84	1.11	1.3	0.0	100.476	0.995	1.112	82.8	1.0	12.48
12.13	86.7	0.82	1.11	1.3	0.0	105.732	0.946	1.113	85.1	1.0	11.89
12.14	88.5	0.81	1.11	1.3	0.0	109.259	0.915	1.114	86.9	1.0	11.45
12.15	92.6	0.78	1.11	1.3	0.0	118.718	0.842	1.115	90.9	0.9	10.54
12.16	94.4	0.77	1.11	1.3	0.0	122.597	0.816	1.116	92.8	0.8	10.14
12.17	94.4	0.77	1.11	1.3	0.0	122.597	0.816	1.117	92.8	0.8	10.14
12.18	97.3	0.72	1.12	1.3	0.0	129.733	0.738	1.118	95.5	0.8	9.55
12.19	98.6	0.75	1.12	1.3	0.0	131.467	0.761	1.119	97.0	0.8	9.3
12.20	99.2	0.75	1.12	1.3	0.0	132.267	0.756	1.12	97.6	0.8	9.23
12.21	101.4	0.75	1.12	1.3	0.0	135.2	0.74	1.121	99.8	0.8	8.93
12.22	103.0	0.75	1.12	1.3	0.0	137.333	0.728	1.122	101.3	0.7	8.7
12.23	104.7	0.74	1.12	1.3	0.0	141.486	0.707	1.123	103.1	0.7	8.46
12.24	106.1	0.72	1.12	1.3	0.0	144.467	0.707	1.124	105.5	0.7	8.29
12.25	107.6	0.76	1.12	1.3	0.0	141.579	0.706	1.125	105.9	0.7	8.19
12.26	107.6	0.76	1.12	1.3	0.0	141.579	0.706	1.126	105.9	0.7	8.23
12.27	107.0	0.78	1.12	1.3	0.0	137.179	0.729	1.127	105.3	0.8	8.45
12.28	107.0	0.79	1.12	1.3	0.0	135.443	0.738	1.128	105.3	0.8	8.54
12.29	107.4	0.8	1.12	1.3	0.0	134.25	0.745	1.129	105.7	0.8	8.55
12.30	108.5	0.8	1.12	1.3	0.0	133.97	0.745	1.13	105.5	0.8	8.5
12.31	110.1	0.82	1.13	1.3	0.0	134.268	0.745	1.131	108.5	0.8	8.35
12.32	110.6	0.83	1.13	1.3	0.0	133.253	0.75	1.132	109.0	0.8	8.32

13.73	154.9	1.03	1.27	1.9	0.0	150.388	0.665	1.273	153.3	0.7	5.37
13.74	151.6	1.07	1.27	1.9	0.0	141.682	0.706	1.274	150.0	0.7	5.83
13.75	148.9	1.09	1.27	2.0	0.0	136.606	0.732	1.275	147.2	0.8	6.16
13.76	148.9	1.09	1.27	2.0	0.0	136.606	0.732	1.276	147.2	0.8	6.16
13.77	142.5	1.15	1.27	2.0	0.0	123.913	0.807	1.277	140.9	0.8	6.96
13.78	136.1	1.22	1.28	2.0	0.0	111.557	0.896	1.278	134.5	0.9	7.89
13.79	133.0	1.25	1.28	1.9	0.0	106.4	0.94	1.279	131.3	1.0	8.32
13.80	127.3	1.28	1.28	2.0	0.0	99.453	1.005	1.28	125.7	1.0	9.08
13.81	124.7	1.29	1.27	2.0	0.0	96.667	1.034	1.281	123.1	1.1	9.46
13.82	124.7	1.29	1.27	2.0	0.0	96.667	1.034	1.282	123.1	1.1	9.46
13.83	119.3	1.3	1.27	2.0	0.0	91.769	1.09	1.283	117.7	1.1	10.15
13.84	112.3	1.28	1.27	2.0	0.0	87.734	1.14	1.284	110.7	1.2	10.97
13.85	108.2	1.27	1.27	2.0	0.0	85.197	1.174	1.285	106.5	1.2	11.48
13.86	103.8	1.26	1.27	2.0	0.0	82.381	1.214	1.286	102.2	1.3	12.07
13.87	93.9	1.23	1.27	2.0	0.0	76.341	1.31	1.287	92.3	1.4	13.57
13.88	88.4	1.21	1.26	2.0	0.0	73.058	1.369	1.288	86.7	1.4	14.53
13.89	82.3	1.18	1.26	2.0	0.0	69.746	1.434	1.289	80.6	1.5	15.64
13.90	75.3	1.14	1.26	2.0	0.0	66.053	1.514	1.29	73.7	1.6	17.11
13.91	65.6	1.12	1.25	2.0	0.0	58.571	1.707	1.291	64.0	1.8	19.78
13.92	62.7	1.1	1.25	1.9	0.0	57.0	1.754	1.292	61.0	1.9	20.68
13.93	36.4	1.09	1.25	2.0	0.0	51.743	1.933	1.293	54.8	2.1	22.95
13.94	54.7	1.07	1.25	2.0	0.0	51.121	1.956	1.294	53.1	2.1	23.55
13.95	53.6	1.06	1.25	2.0	0.0	50.566	1.978	1.295	52.0	2.1	23.92
13.96	53.2	1.05	1.25	2.0	0.0	50.667	1.974	1.296	51.6	2.1	23.96
13.97	53.1	1.04	1.25	2.0	0.0	51.058	1.959	1.297	51.5	2.1	23.9
13.98	53.7	1.06	1.26	1.9	0.0	50.66	1.974	1.298	52.1	2.1	23.89
13.99	35.5	1.08	1.26	1.9	0.0	51.389	1.946	1.299	53.9	2.1	23.24
14.00	61.8	1.08	1.28	1.9	0.0	57.222	1.748	1.3	60.2	1.9	20.81
14.01	61.8	1.08	1.28	1.9	0.0	57.222	1.748	1.301	60.2	1.9	20.81
14.02	61.8	1.08	1.28	1.9	0.0	57.222	1.748	1.302	60.2	1.9	20.81
14.03	61.8	1.08	1.28	1.9	0.0	57.222	1.748	1.303	60.2	1.9	20.81
14.04	71.9	0.78	1.31	1.9	0.0	92.179	1.085	1.304	70.3	1.1	14.79
14.05	81.4	0.79	1.30	1.9	0.0	103.038	0.971	1.305	79.8	1.0	12.72
14.06	85.4	0.79	1.30	1.9	0.0	108.101	0.925	1.306	83.8	1.0	11.89
14.07	89.0	0.77	1.30	1.9	0.0	115.584	0.865	1.307	87.4	0.9	11.08
14.08	95.8	0.77	1.30	1.9	0.0	124.416	0.804	1.308	94.2	0.8	9.91
14.09	99.9	0.76	1.31	1.9	0.0	131.447	0.761	1.309	98.3	0.8	9.29
14.10	109.0	0.75	1.31	1.9	0.0	145.333	0.688	1.31	107.4	0.7	8.01
14.11	113.1	0.75	1.31	1.9	0.0	150.8	0.663	1.311	111.4	0.7	7.5
14.12	117.0	0.73	1.31	1.9	0.0	160.274	0.624	1.312	115.4	0.6	6.97
14.13	123.2	0.76	1.32	1.9	0.0	162.105	0.617	1.313	121.5	0.6	6.53
14.14	125.7	0.78	1.32	1.9	0.0	161.154	0.621	1.314	124.1	0.6	6.4
14.15	128.4	0.79	1.32	2.0	0.0	162.532	0.615	1.315	126.7	0.6	6.23
14.16	130.9	0.8	1.32	2.0	0.0	163.625	0.611	1.316	129.3	0.6	6.04
14.17	135.5	0.82	1.32	2.0	0.0	165.244	0.605	1.317	133.9	0.6	5.76
14.18	137.8	0.83	1.32	2.0	0.0	166.024	0.602	1.318	136.1	0.6	5.64
14.19	141.6	0.85	1.32	2.0	0.0	166.588	0.6	1.319	140.0	0.6	5.47
14.20	142.8	0.87	1.32	2.0	0.0	164.138	0.609	1.32	141.1	0.6	5.48
14.21	143.7	0.88	1.32	2.0	0.0	163.295	0.612	1.321	142.0	0.6	5.48
14.22	143.4	0.9	1.32	2.0	0.0	159.333	0.628	1.322	141.7	0.6	5.59
14.23	140.0	0.94	1.33	2.0	0.0	148.936	0.671	1.323	138.4	0.7	6.07
14.24	137.6	0.96	1.33	2.0	0.0	143.333	0.698	1.324	136.0	0.7	6.38
14.25	129.5	1.0	1.33	2.0	0.0	129.5	0.772	1.325	127.9	0.8	7.35
14.26	125.6	1.01	1.32	2.0	0.0	124.356	0.804	1.326	124.0	0.8	7.79
14.27	122.0	1.01	1.32	2.0	0.0	120.792	0.828	1.327	120.4	0.9	8.21
14.28	118.8	1.03	1.32	2.0	0.0	115.34	0.867	1.328	117.2	0.9	8.66
14.29	114.4	1.06	1.32	2.0	0.0	109.925	0.927	1.329	112.8	1.0	9.39
14.30	113.1	1.07	1.33	2.0	0.0	105.701	0.946	1.33	111.4	1.0	9.63
14.31	112.2	1.07	1.33	2.0	0.0	104.86	0.954	1.331	110.6	1.0	9.76
14.32	112.6	1.08	1.33	2.0	0.0	104.259	0.959	1.332	110.9	1.0	9.75
14.33	113.6	1.07	1.33	2.0	0.0	106.168	0.942	1.333	111.9	1.0	9.59
14.34	117.2	1.06	1.33	2.0	0.0	110.566	0.904	1.334	115.6	0.9	9.03
14.35	117.2	1.06	1.33	2.0	0.0	110.566	0.904	1.335	115.6	0.9	9.03
14.36	122.6	1.02	1.34	2.0	0.0	120.196	0.832	1.336	121.0	0.9	8.22
14.37	125.5	1.0	1.34	2.0	0.0	125.5	0.797	1.337	123.9	0.8	7.78
14.38	131.5	0.96	1.34	2.0	0.0	136.979	0.73	1.338	129.9	0.8	6.94
14.39	133.8	0.93	1.34	2.0	0.0	143.871	0.695	1.339	132.1	0.7	6.59
14.40	135.3	0.91	1.34	2.1	0.0	148.681	0.673	1.34	133.7	0.7	6.35
14.41	135.6	0.9	1.34	2.0	0.0	150.667	0.664	1.341	134.0	0.7	6.24
14.42	133.3	0.89	1.34	2.1	0.0	149.775	0.668	1.342	131.6	0.7	6.4

14.43	131.1	0.9	1.34	2.1	0.0	145.667	0.686	1.343	129.5	0.7	6.64
14.44	126.3	0.91	1.34	2.1	0.0	138.791	0.721	1.344	124.7	0.7	7.15
14.45	124.3	0.91	1.35	2.1	0.0	136.593	0.732	1.345	122.7	0.8	7.37
14.46	123.0	0.92	1.35	2.1	0.0	133.696	0.748	1.346	121.3	0.8	7.56
14.47	122.1	0.93	1.35	2.1	0.0	131.29	0.762	1.347	120.5	0.8	7.73
14.48	120.2	0.96	1.35	2.1	0.0	125.208	0.799	1.348	118.6	0.8	8.09
14.49	118.8	0.97	1.35	2.1	0.0	122.474	0.816	1.349	117.2	0.8	8.3
14.50	117.2	0.98	1.35	2.1	0.0	119.592	0.836	1.35	115.6	0.9	8.56
14.51	114.5	0.99	1.35	2.1	0.0	115.657	0.865	1.351	112.9	0.9	8.96
14.52	113.0	1.0	1.35	2.1	0.0	113.0	0.885	1.352	111.3	0.9	9.22
14.53	111.2	1.01	1.35	2.1	0.0	110.099	0.908	1.353	109.6	0.9	9.49
14.54	111.2	1.01	1.35	2.1	0.0	110.099	0.908	1.354	109.6	0.9	9.49
14.55	106.6	1.02	1.35	2.1	0.0	104.51	0.957	1.355	105.0	1.0	10.2
14.56	105.8	1.02	1.35	2.1	0.0	103.725	0.964	1.356	104.2	1.0	10.28
14.57	105.5	1.0	1.35	2.1	0.0	105.5	0.948	1.357	103.9	1.0	10.24
14.58	106.4	1.0	1.36	2.1	0.0	106.4	0.94	1.358	104.8	1.0	10.05
14.59	107.7	0.98	1.36	2.1	0.0	109.888	0.91	1.359	106.0	0.9	9.79
14.60	109.7	0.97	1.36	2.1	0.0	113.093	0.884	1.36	108.1	0.9	9.45
14.61	115.0	0.95	1.36	2.1	0.0	121.053	0.826	1.361	113.4	0.9	8.66
14.62	118.0	0.94	1.36	2.1	0.0	125.532	0.797	1.362	116.3	0.8	8.24
14.63	123.1	0.92	1.37	2.1	0.0	133.804	0.747	1.363	121.4	0.8	7.55
14.64	124.9	0.91	1.37	2.1	0.0	137.253	0.729	1.364	123.3	0.8	7.31
14.65	126.6	0.9	1.37	2.1	0.0	140.667	0.711	1.365	125.0	0.7	7.09
14.66	127.8	0.89	1.37	2.1	0.0	143.596	0.696	1.366	126.1	0.7	6.91
14.67	129.7	0.88	1.37	2.1	0.0	147.386	0.678	1.367	128.1	0.7	6.64
14.68	129.7	0.87	1.37	2.1	0.0	149.08	0.671	1.368	128.1	0.7	6.63
14.69	127.7	0.88	1.38	2.1	0.0	145.114	0.689	1.369	126.1	0.7	6.88
14.70	125.6	0.89	1.38	2.1	0.0	141.124	0.709	1.37	124.0	0.7	7.14
14.71	123.7	0.91	1.38	2.1	0.0	135.934	0.736	1.371	122.0	0.8	7.43
14.72	122.0	0.92	1.38	2.1	0.0	132.609	0.754	1.372	120.4	0.8	7.69
14.73	119.5	0.97	1.37	2.1	0.0	123.196	0.812	1.373	117.9	0.8	8.23
14.74	118.4	0.99	1.37	2.1	0.0	119.596	0.836	1.374	116.7	0.9	8.51
14.75	116.8	1.01	1.37	2.1	0.0	115.644	0.865	1.375	115.2	0.9	8.8
14.76	113.7	1.04	1.37	2.1	0.0	109.327	0.915	1.376	112.0	0.9	9.35
14.77	112.3	1.05	1.37	2.1	0.0	106.952	0.935	1.377	110.7	1.0	9.59
14.78	111.2	1.05	1.38	2.2	0.0	105.905	0.944	1.378	109.6	1.0	9.76
14.79	110.8	1.05	1.38	2.2	0.0	105.524	0.948	1.379	109.2	1.0	9.82
14.80	110.6	1.04	1.38	2.1	0.0	106.346	0.94	1.38	109.0	1.0	9.8
14.81	111.2	1.04	1.38	2.2	0.0	106.923	0.935	1.381	109.6	1.0	9.69
14.82	112.2	1.03	1.38	2.2	0.0	108.093	0.919	1.382	110.7	1.0	9.49
14.83	112.2	1.02	1.38	2.2	0.0	110.0	0.899	1.383	110.6	0.9	9.41
14.84	111.7	1.0	1.38	2.2	0.0	111.7	0.895	1.384	111.1	0.9	9.38
14.85	110.8	0.99	1.38	2.2	0.0	111.919	0.894	1.385	109.2	0.9	9.42
14.86	110.4	0.97	1.38	2.2	0.0	112.784	0.887	1.386	107.8	0.9	9.45
14.87	108.8	0.95	1.38	2.2	0.0	114.526	0.873	1.387	107.2	0.9	9.44
14.88	107.8	0.94	1.38	2.2	0.0	115.593	0.865	1.388	106.5	0.9	9.41
14.89	108.7	0.93	1.39	2.2	0.0	116.882	0.856	1.389	107.1	0.9	9.27
14.90	110.4	0.92	1.39	2.2	0.0	118.913	0.841	1.39	107.8	0.9	9.14
14.91	110.6	0.91	1.39	2.2	0.0	121.538	0.823	1.391	109.0	0.9	8.95
14.92	113.8	0.91	1.39	2.2	0.0	125.05	0.8	1.392	112.8	0.8	8.5
14.93	116.1	0.9	1.39	2.2	0.0	129.0	0.775	1.393	114.5	0.8	8.23
14.94	118.9	0.89	1.39	2.2	0.0	132.11	0.753	1.394	116.5	0.7	7.89
14.95	125.1	0.89	1.40	2.2	0.0	140.562	0.711	1.395	123.5	0.7	7.19
14.96	126.6	0.89	1.40	2.2	0.0	144.494	0.692	1.396	126.9	0.7	6.83
14.97	131.9	0.89	1.40	2.2	0.0	148.202	0.675	1.397	130.3	0.7	6.5
14.98	131.9	0.89	1.40	2.2	0.0	148.202	0.675	1.398	130.3	0.7	6.5
14.99	130.2	0.88	1.40	2.2	0.0	150.919	0.659	1.399	128.0	0.6	6.73
15.00	141.9	0.88	1.40	2.2	0.0	161.25	0.62	1.4	140.3	0.6	5.61
15.01	143.5	0.89	1.41	2.2	0.0	161.236	0.62	1.0	142.5	0.6	5.54

Probe CPTU - Piezocone CPTU 2
Strumento utilizzato PAGANI 200 kN (CPTU)

Committente:
Biopig s.s. di Cascone Luigi
Cantiere: Ampliamento impianto zootecnico
Località: Zerbinete di Bondeno (FE)

Data: 16/10/2020

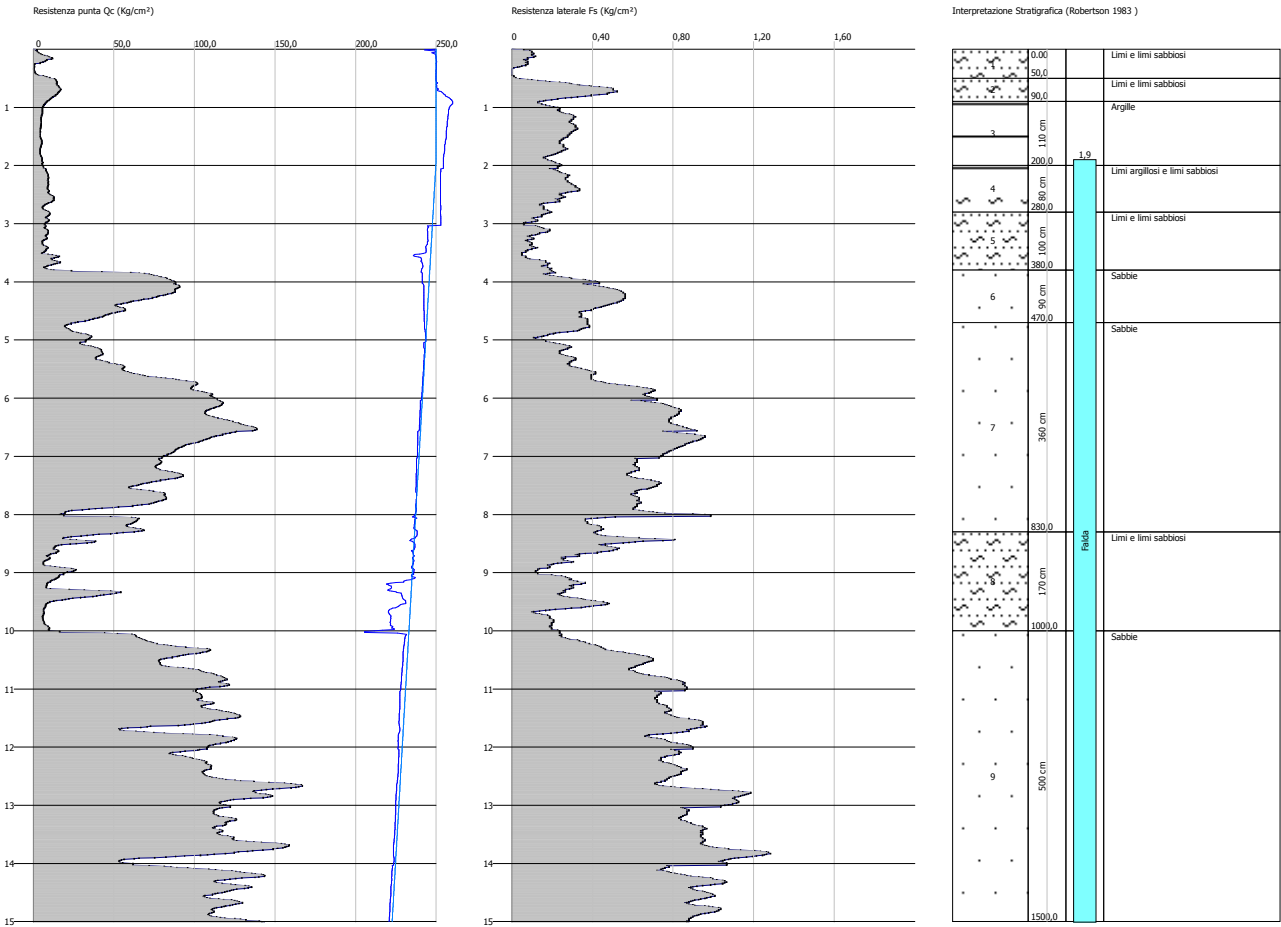
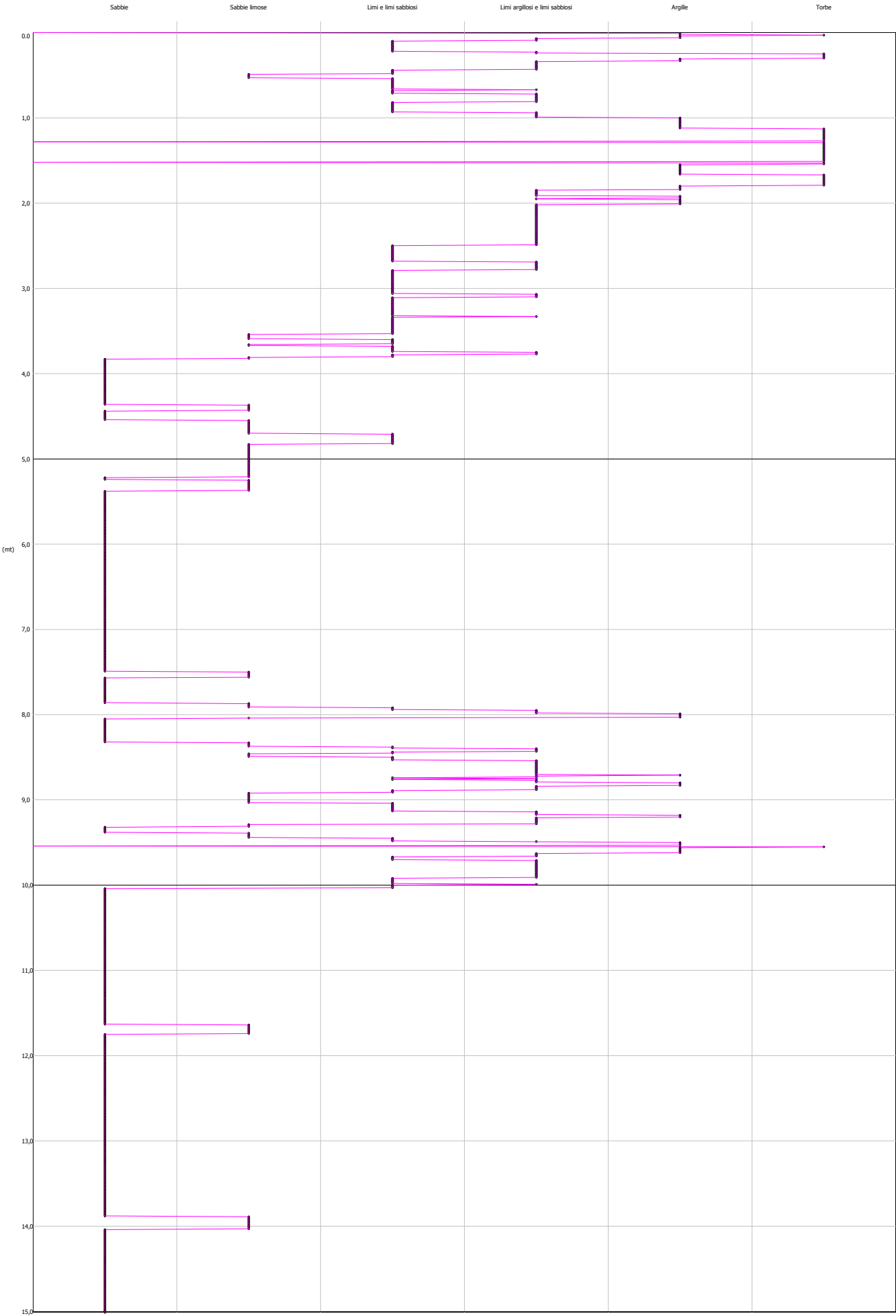


GRAFICO PROFONDITA' / VALUTAZIONI LITOLOGICHE (Robertson 1983)
PROVA: CPTU 2



STIMA PARAMETRI GEOTECNICI - CPTU 2

TERRENI COESIV I

Coesione non drenata

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Cu (Kg/cm ²)
Strato 1	0,50	4,3	0,05	0,04	0,04	Terzaghi	0,22
Strato 2	0,90	14,0	0,33	0,12	0,12	Terzaghi	0,7
Strato 3	2,00	5,1	0,25	0,26	0,21	Terzaghi	0,25
Strato 4	2,80	9,0	0,25	0,43	0,29	Terzaghi	0,45
Strato 5	3,80	9,0	0,12	0,59	0,36	Terzaghi	0,45
Strato 8	10,00	16,4	0,31	1,82	1,01	Terzaghi	0,82

Modulo Edometrico

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Eed (Kg/cm ²)
Strato 1	0,50	4,3	0,05	0,04	0,04	Metodo generale del modulo Edometrico	24,25
Strato 2	0,90	14,0	0,33	0,12	0,12	Metodo generale del modulo Edometrico	48,33
Strato 3	2,00	5,1	0,25	0,26	0,21	Metodo generale del modulo Edometrico	27,84
Strato 4	2,80	9,0	0,25	0,43	0,29	Metodo generale del modulo Edometrico	41,22
Strato 5	3,80	9,0	0,12	0,59	0,36	Metodo generale del modulo Edometrico	41,22
Strato 8	10,00	16,4	0,31	1,82	1,01	Metodo generale del modulo Edometrico	47,74

Modulo di deformazione non drenato Eu

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Eu (Kg/cm ²)
Strato 1	0,50	4,3	0,1	0,04	0,04	Cancelli 1980	159,67
Strato 2	0,90	14,0	0,3	0,12	0,12	Cancelli 1980	520,4
Strato 3	2,00	5,1	0,3	0,26	0,21	Cancelli 1980	183,32
Strato 4	2,80	9,0	0,3	0,43	0,29	Cancelli 1980	326,79
Strato 5	3,80	9,0	0,1	0,59	0,36	Cancelli	323,99

Strato 8	10,00	16,4	0,3	1,82	1,01	1980 Cancelli 1980	577,29
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Modulo di deformazione a taglio

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Modulo di deformazion e a taglio (Kg/cm ²)
Strato 1	0,50	4,3	0,05	0,04	0,04	Imai & Tomauchi	68,27
Strato 2	0,90	14,0	0,33	0,12	0,12	Imai & Tomauchi	140,42
Strato 3	2,00	5,1	0,25	0,26	0,21	Imai & Tomauchi	75,77
Strato 4	2,80	9,0	0,25	0,43	0,29	Imai & Tomauchi	107,2
Strato 5	3,80	9,0	0,12	0,59	0,36	Imai & Tomauchi	107,2
Strato 8	10,00	16,4	0,31	1,82	1,01	Imai & Tomauchi	154,68

Grado di sovraconsolidazione

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Ocr
Strato 1	0,50	4,3	0,05	0,04	0,04	P.W.Mayne 1991	1,65
Strato 2	0,90	14,0	0,33	0,12	0,12	P.W.Mayne 1991	6,5
Strato 3	2,00	5,1	0,25	0,26	0,21	P.W.Mayne 1991	2,36
Strato 4	2,80	9,0	0,25	0,43	0,29	P.W.Mayne 1991	5,6
Strato 5	3,80	9,0	0,12	0,59	0,36	P.W.Mayne 1991	6,03
Strato 8	10,00	16,4	0,31	1,82	1,01	P.W.Mayne 1991	9

Peso unità di volume

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Peso unità di volume (t/m ³)
Strato 1	0,50	4,3	0,05	0,04	0,04	Meyerhof	1,71
Strato 2	0,90	14,0	0,33	0,12	0,12	Meyerhof	1,91
Strato 3	2,00	5,1	0,25	0,26	0,21	Meyerhof	1,74
Strato 4	2,80	9,0	0,25	0,43	0,29	Meyerhof	1,83
Strato 5	3,80	9,0	0,12	0,59	0,36	Meyerhof	1,83
Strato 8	10,00	16,4	0,31	1,82	1,01	Meyerhof	1,93

Fattori di compressibilità C Crm

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	C	Crm
Strato 1	0,50	4,3	0,05	0,04	0,04	0,3763	0,04892
Strato 2	0,90	14,0	0,33	0,12	0,12	0,162	0,02106

Strato 3	2,00	5,1	0,25	0,26	0,21	0,32778	0,04261
Strato 4	2,80	9,0	0,25	0,43	0,29	0,21478	0,02792
Strato 5	3,80	9,0	0,12	0,59	0,36	0,21478	0,02792
Strato 8	10,00	16,4	0,31	1,82	1,01	0,1481	0,01925

Peso unità di volume saturo

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Peso unità di volume saturo (t/m ³)
Strato 1	0,50	4,3	0,05	0,04	0,04	Meyerhof	1,79
Strato 2	0,90	14,0	0,33	0,12	0,12	Meyerhof	1,99
Strato 3	2,00	5,1	0,25	0,26	0,21	Meyerhof	1,82
Strato 4	2,80	9,0	0,25	0,43	0,29	Meyerhof	1,91
Strato 5	3,80	9,0	0,12	0,59	0,36	Meyerhof	1,91
Strato 8	10,00	16,4	0,31	1,82	1,01	Meyerhof	2,01

Velocità onde di taglio

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Vs (m/s)
Strato 1	0,50	4,3	0,05	0,04	0,04	Jamiolkowski i et al 1985	177,86
Strato 2	0,90	14,0	0,33	0,12	0,12	Jamiolkowski i et al 1985	224,95
Strato 3	2,00	5,1	0,25	0,26	0,21	Jamiolkowski i et al 1985	184,00
Strato 4	2,80	9,0	0,25	0,43	0,29	Jamiolkowski i et al 1985	206,02
Strato 5	3,80	9,0	0,12	0,59	0,36	Jamiolkowski i et al 1985	206,02
Strato 8	10,00	16,4	0,31	1,82	1,01	Jamiolkowski i et al 1985	232,15

TERRENI INCOERENT I

Densità relativa

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Densità relativa (%)
Strato 1	0,50	4,3	0,05	0,04	0,04	Baldi 1978 - Schmertman n 1976	21,42
Strato 2	0,90	14,0	0,33	0,12	0,12	Baldi 1978 - Schmertman n 1976	39,82
Strato 4	2,80	9,0	0,25	0,43	0,29	Baldi 1978 - Schmertman n 1976	15,26
Strato 5	3,80	9,0	0,12	0,59	0,36	Baldi 1978 - Schmertman n 1976	11,96
Strato 6	4,70	65,7	0,41	0,78	0,45	Baldi 1978 - Schmertman n 1976	65,18
Strato 7	8,30	75,8	0,59	1,27	0,72	Baldi 1978 - Schmertman n 1976	62,71

Strato 8	10,00	16,4	0,31	1,82	1,01	Baldi 1978 - Schmertman n 1976	14,43
Strato 9	15,00	109,8	0,84	2,54	1,39	Baldi 1978 - Schmertman n 1976	63,84

Angolo di resistenza al taglio

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Angolo d'attrito (°)
Strato 1	0,50	4,3	0,05	0,04	0,04	Caquot	32,73
Strato 2	0,90	14,0	0,33	0,12	0,12	Caquot	33,3
Strato 4	2,80	9,0	0,25	0,43	0,29	Caquot	26,92
Strato 5	3,80	9,0	0,12	0,59	0,36	Caquot	25,76
Strato 6	4,70	65,7	0,41	0,78	0,45	Caquot	34,48
Strato 7	8,30	75,8	0,59	1,27	0,72	Caquot	32,91
Strato 8	10,00	16,4	0,31	1,82	1,01	Caquot	23,65
Strato 9	15,00	109,8	0,84	2,54	1,39	Caquot	31,46

Modulo di Young

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Modulo di Young (Kg/cm ²)
Strato 1	0,50	4,3	0,05	0,04	0,04	Robertson & Campanella 1983	8,6
Strato 2	0,90	14,0	0,33	0,12	0,12	Robertson & Campanella 1983	28,0
Strato 4	2,80	9,0	0,25	0,43	0,29	Robertson & Campanella 1983	18,0
Strato 5	3,80	9,0	0,12	0,59	0,36	Robertson & Campanella 1983	18,0
Strato 6	4,70	65,7	0,41	0,78	0,45	Robertson & Campanella 1983	131,4
Strato 7	8,30	75,8	0,59	1,27	0,72	Robertson & Campanella 1983	151,6
Strato 8	10,00	16,4	0,31	1,82	1,01	Robertson & Campanella 1983	32,8
Strato 9	15,00	109,8	0,84	2,54	1,39	Robertson & Campanella 1983	219,6

Modulo Edometrico

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Modulo Edometrico (Kg/cm ²)
Strato 1	0,50	4,3	0,05	0,04	0,04	Robertson & Campanella da Schmertmann	32,78

Strato 2	0,90	14,0	0,33	0,12	0,12	Robertson & Campanella da Schmertmann	45,49
Strato 4	2,80	9,0	0,25	0,43	0,29	Robertson & Campanella da Schmertmann	16,52
Strato 5	3,80	9,0	0,12	0,59	0,36	Robertson & Campanella da Schmertmann	12,46
Strato 6	4,70	65,7	0,41	0,78	0,45	Robertson & Campanella da Schmertmann	67,81
Strato 7	8,30	75,8	0,59	1,27	0,72	Robertson & Campanella da Schmertmann	65,59
Strato 8	10,00	16,4	0,31	1,82	1,01	Robertson & Campanella da Schmertmann	16,21
Strato 9	15,00	109,8	0,84	2,54	1,39	Robertson & Campanella da Schmertmann	71,14

Modulo di deformazione a taglio

Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	G (Kg/cm²)
Strato 1	0,50	4,3	0,05	0,04	Imai & Tomauchi	68,27
Strato 2	0,90	14,0	0,33	0,12	Imai & Tomauchi	140,42
Strato 4	2,80	9,0	0,25	0,43	Imai & Tomauchi	107,2
Strato 5	3,80	9,0	0,12	0,59	Imai & Tomauchi	107,2
Strato 6	4,70	65,7	0,41	0,78	Imai & Tomauchi	361,15
Strato 7	8,30	75,8	0,59	1,27	Imai & Tomauchi	394,13
Strato 8	10,00	16,4	0,31	1,82	Imai & Tomauchi	154,68
Strato 9	15,00	109,8	0,84	2,54	Imai & Tomauchi	494,27

Grado di sovraconsolidazione

Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Ocr
Strato 1	0,50	4,3	0,05	0,04	Piacentini Righi 1978	>9
Strato 2	0,90	14,0	0,33	0,12	Piacentini Righi 1978	>9
Strato 4	2,80	9,0	0,25	0,43	Piacentini Righi 1978	8,26
Strato 5	3,80	9,0	0,12	0,59	Piacentini Righi 1978	4,12
Strato 6	4,70	65,7	0,41	0,78	Piacentini Righi 1978	>9

Strato 7	8,30	75,8	0,59	1,27	0,72	Piacentini Righi 1978	>9
Strato 8	10,00	16,4	0,31	1,82	1,01	Piacentini Righi 1978	3,22
Strato 9	15,00	109,8	0,84	2,54	1,39	Piacentini Righi 1978	>9

Modulo di reazione Ko

Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Ko
Strato 1	0,50	4,3	0,05	0,04	Kulhawy & Mayne (1990)	0,61
Strato 2	0,90	14,0	0,33	0,12	Kulhawy & Mayne (1990)	0,66
Strato 4	2,80	9,0	0,25	0,43	Kulhawy & Mayne (1990)	0,29
Strato 5	3,80	9,0	0,12	0,59	Kulhawy & Mayne (1990)	0,25
Strato 6	4,70	65,7	0,41	0,78	Kulhawy & Mayne (1990)	0,77
Strato 7	8,30	75,8	0,59	1,27	Kulhawy & Mayne (1990)	0,63
Strato 8	10,00	16,4	0,31	1,82	Kulhawy & Mayne (1990)	0,00
Strato 9	15,00	109,8	0,84	2,54	Kulhawy & Mayne (1990)	0,52

Fattori di compressibilità C Crm

Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	C	Crm
Strato 1	0,50	4,3	0,05	0,04	0,3763	0,04892
Strato 2	0,90	14,0	0,33	0,12	0,162	0,02106
Strato 4	2,80	9,0	0,25	0,43	0,21478	0,02792
Strato 5	3,80	9,0	0,12	0,59	0,21478	0,02792
Strato 6	4,70	65,7	0,41	0,78	0,09984	0,01298
Strato 7	8,30	75,8	0,59	1,27	0,0975	0,01268
Strato 8	10,00	16,4	0,31	1,82	0,1481	0,01925
Strato 9	15,00	109,8	0,84	2,54	0,09401	0,01222

Peso unità di volume

Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Peso unità di volume (t/m³)
Strato 1	0,50	4,3	0,05	0,04	Meyerhof	1,9
Strato 2	0,90	14,0	0,33	0,12	Meyerhof	1,8
Strato 4	2,80	9,0	0,25	0,43	Meyerhof	1,8

Strato 5	3,80	9,0	0,12	0,59	0,36	Meyerhof	1,9
Strato 6	4,70	65,7	0,41	0,78	0,45	Meyerhof	1,9
Strato 7	8,30	75,8	0,59	1,27	0,72	Meyerhof	1,9
Strato 8	10,00	16,4	0,31	1,82	1,01	Meyerhof	1,8
Strato 9	15,00	109,8	0,84	2,54	1,39	Meyerhof	1,9

Peso unità di volume saturo

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Peso unità di volume saturo (t/m ³)
Strato 1	0,50	4,3	0,05	0,04	0,04	Meyerhof	2,2
Strato 2	0,90	14,0	0,33	0,12	0,12	Meyerhof	2,1
Strato 4	2,80	9,0	0,25	0,43	0,29	Meyerhof	2,1
Strato 5	3,80	9,0	0,12	0,59	0,36	Meyerhof	2,2
Strato 6	4,70	65,7	0,41	0,78	0,45	Meyerhof	2,2
Strato 7	8,30	75,8	0,59	1,27	0,72	Meyerhof	2,2
Strato 8	10,00	16,4	0,31	1,82	1,01	Meyerhof	2,1
Strato 9	15,00	109,8	0,84	2,54	1,39	Meyerhof	2,2

Liquefazione - Accelerazione sismica massima (g)=0,2

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Fattore di sicurezza a liquefazione
Strato 4	2,80	9,0	0,25	0,43	0,29	Robertson & Wride 1997	0,532
Strato 5	3,80	9,0	0,12	0,59	0,36	Robertson & Wride 1997	0,41
Strato 6	4,70	65,7	0,41	0,78	0,45	Robertson & Wride 1997	2,251
Strato 7	8,30	75,8	0,59	1,27	0,72	Robertson & Wride 1997	3,266
Strato 8	10,00	16,4	0,31	1,82	1,01	Robertson & Wride 1997	0,396
Strato 9	15,00	109,8	0,84	2,54	1,39	Robertson & Wride 1997	7,972

Velocità onde di taglio.

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Vs (m/s)
Strato 1	0,50	4,3	0,05	0,04	0,04	Jamiolkowski i et al 1985	196,74
Strato 2	0,90	14,0	0,33	0,12	0,12	Jamiolkowski i et al 1985	259,64
Strato 4	2,80	9,0	0,25	0,43	0,29	Jamiolkowski i et al 1985	234,03
Strato 5	3,80	9,0	0,12	0,59	0,36	Jamiolkowski i et al 1985	234,03
Strato 6	4,70	65,7	0,41	0,78	0,45	Jamiolkowski i et al 1985	373,38
Strato 7	8,30	75,8	0,59	1,27	0,72	Jamiolkowski i et al 1985	386,14
Strato 8	10,00	16,4	0,31	1,82	1,01	Jamiolkowski i et al 1985	269,47

Strato 9	15,00	109,8	0,84	2,54	1,39	Jamiolkowski i et al 1985	421,28
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Permeabilità

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	K (cm/s)
Strato 1	0,50	4,3	0,05	0,04	0,04	Piacentini- Righi 1988	1,00E-03
Strato 2	0,90	14,0	0,33	0,12	0,12	Piacentini- Righi 1988	1,16E-04
Strato 3	2,00	5,1	0,25	0,26	0,21	Piacentini- Righi 1988	5,00E-09
Strato 4	2,80	9,0	0,25	0,43	0,29	Piacentini- Righi 1988	2,32E-05
Strato 5	3,80	9,0	0,12	0,59	0,36	Piacentini- Righi 1988	6,25E-03
Strato 6	4,70	65,7	0,41	0,78	0,45	Piacentini- Righi 1988	1,00E-03
Strato 7	8,30	75,8	0,59	1,27	0,72	Piacentini- Righi 1988	1,00E-03
Strato 8	10,00	16,4	0,31	1,82	1,01	Piacentini- Righi 1988	7,19E-04
Strato 9	15,00	109,8	0,84	2,54	1,39	Piacentini- Righi 1988	1,00E-03

Coefficiente di consolidazione

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Coefficiente di consolidazio ne (cm ² /s)
Strato 1	0,50	4,3	0,05	0,04	0,04	Piacentini- Righi 1988	0
Strato 2	0,90	14,0	0,33	0,12	0,12	Piacentini- Righi 1988	4,885661
Strato 3	2,00	5,1	0,25	0,26	0,21	Piacentini- Righi 1988	7,649792E- 05
Strato 4	2,80	9,0	0,25	0,43	0,29	Piacentini- Righi 1988	0,6260227
Strato 5	3,80	9,0	0,12	0,59	0,36	Piacentini- Righi 1988	0
Strato 6	4,70	65,7	0,41	0,78	0,45	Piacentini- Righi 1988	0
Strato 7	8,30	75,8	0,59	1,27	0,72	Piacentini- Righi 1988	0
Strato 8	10,00	16,4	0,31	1,82	1,01	Piacentini- Righi 1988	0
Strato 9	15,00	109,8	0,84	2,54	1,39	Piacentini- Righi 1988	0

Comittente: Biopig s.s. di Cascone Luigi
Strumento utilizzato: PAGANI 200 kN (CPTU)
Prova eseguita in data: 16/10/2020
Profondità prova: 30,03 mt
Località: Zerbinate di Bondeno FE)

PROVA CPTU 3

RESISTENZE

Profondità
qc Resistenza punta (Kg/cm²);
fs Resistenza laterale (Kg/cm²);
Tilt Inclinazione (°)
Temp Temperatura (°)
Fr fs/qcx100 (Schmertmann)
qcn qc normalizzata (Kg/cm²);
fsn fs normalizzata (Kg/cm²);
U2 Pressione neutrale intorno al cono (Kg/cm²);
Uo Pressione neutrale rilevata (Kg/cm²);
Fc Contenuto in materiale fine(%)

Profondità	qc	fs	U2	Tilt	Temp	qcx100	F4r	Uo	qcn	fsn	FC%
0.01	3.1	0.17	-0.02	0.9	0.0	18.235	5.484	0.0	2.1	5.4	119.05
0.02	3.1	0.22	-0.01	0.9	0.0	14.091	7.097	0.0	2.1	6.9	125.23
0.03	4.0	0.23	0.00	0.9	0.0	17.391	5.75	0.0	3.0	5.7	107.19
0.04	5.7	0.22	0.01	0.8	0.0	25.909	3.86	0.0	4.7	4.0	84.22
0.05	7.5	0.23	0.00	0.7	0.0	32.609	3.067	0.0	6.5	3.0	69.76
0.06	8.0	0.23	0.00	0.6	0.0	34.783	2.875	0.0	7.0	2.8	66.14
0.07	8.2	0.25	0.00	0.3	0.0	32.8	0.049	0.0	7.2	3.0	66.35
0.08	8.5	0.25	0.00	0.2	0.0	34.0	2.941	0.0	7.5	2.9	65.06
0.09	8.2	0.25	0.00	0.2	0.0	32.8	3.049	0.0	7.2	3.1	66.93
0.10	7.5	0.26	0.00	0.2	0.0	28.846	3.467	0.0	6.5	3.5	72.29
0.11	7.5	0.26	0.00	0.1	0.0	28.846	3.467	0.0	6.5	3.5	72.11
0.12	7.2	0.24	0.00	0.1	0.0	30.0	3.333	0.0	6.2	3.3	72.69
0.13	7.2	0.19	0.00	0.1	0.0	37.895	2.639	0.0	6.2	2.6	68.61
0.14	6.5	0.19	0.00	0.1	0.0	34.211	2.923	0.0	5.5	2.9	73.69
0.15	6.1	0.18	0.00	0.1	0.0	33.889	2.951	0.0	5.1	3.0	76.57
0.16	6.2	0.13	0.00	0.1	0.0	47.692	1.097	0.0	5.2	2.2	70.15
0.17	6.0	0.1	0.00	0.1	0.0	60.0	2.667	0.0	5.0	1.6	66.74
0.18	6.3	0.08	0.00	0.2	0.0	78.75	1.27	0.0	5.3	1.2	61.27
0.19	6.6	0.08	0.00	0.2	0.0	82.5	1.212	0.0	5.6	1.2	59.92
0.20	7.8	0.03	0.00	0.5	0.0	260.0	0.385	0.0	6.8	0.4	43.64
0.21	7.6	0.03	0.00	0.6	0.0	253.333	0.395	0.0	0.1	0.5	258.4
0.22	6.9	0.03	0.00	0.6	0.0	230.0	0.435	0.0	0.1	0.5	258.42
0.23	6.3	0.03	0.06	0.8	0.0	210.0	0.476	0.0	5.3	0.4	50.26
0.24	6.3	0.03	0.06	0.8	0.0	210.0	0.476	0.0	5.3	0.4	50.26
0.25	6.9	0.04	0.04	0.8	0.0	172.5	0.58	0.0	5.9	0.5	49.82
0.26	11.4	0.04	0.02	1.0	0.0	285.0	0.351	0.0	10.4	0.4	34.57
0.27	13.1	0.05	0.01	1.2	0.0	262.0	0.382	0.0	12.1	0.4	31.42
0.28	12.6	0.05	0.00	1.3	0.0	252.0	0.397	0.0	11.6	0.4	32.98
0.29	12.6	0.05	0.00	1.3	0.0	252.0	0.397	0.0	11.6	0.4	32.99
0.30	12.0	0.06	0.07	1.4	0.0	200.0	0.665	0.0	8.0	0.7	44.66
0.31	12.5	0.06	0.00	1.4	0.0	208.333	0.48	0.0	11.5	0.5	33.87
0.32	10.9	0.06	-0.01	1.5	0.0	181.667	0.55	0.0	9.9	0.6	38.32
0.33	10.1	0.06	-0.01	1.5	0.0	168.333	0.594	0.0	9.1	0.6	40.23
0.34	9.6	0.07	-0.01	1.6	0.0	137.143	0.729	0.0	8.6	0.7	43.72
0.35	9.2	0.07	0.00	1.6	0.0	131.429	0.761	0.0	8.2	0.7	44.67
0.36	9.0	0.06	0.00	1.6	0.0	150.0	0.667	0.0	8.0	0.7	44.66
0.37	6.4	0.14	0.01	1.6	0.0	45.714	2.188	0.0	5.4	2.2	69.72
0.38	6.2	0.14	0.01	1.5	0.0	44.286	2.258	0.0	5.2	2.4	71.65
0.39	6.3	0.12	0.00	1.6	0.0	52.5	1.905	0.0	5.3	2.0	68.49
0.40	6.1	0.12	0.00	1.6	0.0	50.833	1.967	0.0	5.1	2.0	69.27
0.41	6.1	0.12	0.00	1.6	0.0	50.833	1.967	0.0	5.1	2.0	69.28
0.42	7.5	0.13	0.01	1.6	0.0	57.692	1.733	0.0	6.5	1.8	61.57

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1.13	5.9	0.39	-0.18	1.8	0.0	15.128	6.61	0.0	4.9	6.8	94.9
1.14	5.9	0.39	-0.18	1.8	0.0	15.128	6.61	0.0	4.9	6.8	94.91
1.15	6.0	0.38	-0.18	1.8	0.0	15.789	6.333	0.0	5.0	6.6	93.63
1.16	6.0	0.38	-0.18	1.8	0.0	15.789	6.333	0.0	5.0	6.6	93.48
1.17	6.0	0.38	-0.18	1.8	0.0	15.789	6.333	0.0	5.0	6.6	93.48
1.18	6.0	0.37	-0.18	1.8	0.0	16.216	6.167	0.0	5.0	6.5	92.98
1.19	6.0	0.37	-0.18	1.8	0.0	16.216	6.167	0.0	5.0	6.4	92.72
1.20	5.9	0.36	-0.17	1.8	0.0	16.389	6.102	0.0	4.9	6.4	93.37
1.21	5.9	0.36	-0.17	1.8	0.0	16.389	6.102	0.0	4.9	6.3	93.04
1.22	5.8	0.35	-0.17	1.8	0.0	16.571	6.034	0.0	4.8	6.4	93.92
1.23	5.6	0.35	-0.17	1.8	0.0	16.0	6.25	0.0	4.6	6.5	95.96
1.24	5.5	0.35	-0.17	1.8	0.0	15.714	6.364	0.0	4.5	6.6	96.87
1.25	5.5	0.34	-0.17	1.8	0.0	16.176	6.182	0.0	4.5	6.5	96.5
1.26	5.5	0.34	-0.17	1.8	0.0	16.176	6.182	0.0	4.5	6.4	96.28
1.27	5.3	0.33	-0.17	1.8	0.0	16.061	6.226	0.0	4.3	6.6	98.17
1.28	5.3	0.33	-0.16	1.8	0.0	16.061	6.226	0.0	4.3	6.5	97.82
1.29	5.0	0.32	-0.15	1.8	0.0	15.625	6.4	0.0	4.0	6.7	101.21
1.30	5.0	0.32	-0.15	1.8	0.0	15.625	6.4	0.0	4.0	6.7	101.22
1.31	4.8	0.31	-0.13	1.8	0.0	15.484	6.458	0.0	3.8	6.9	103.5
1.32	4.7	0.31	-0.13	1.8	0.0	15.161	6.596	0.0	3.7	6.9	104.57
1.33	4.7	0.3	-0.13	1.8	0.0	15.667	6.383	0.0	3.7	6.8	104.16
1.34	4.6	0.3	-0.12	1.8	0.0	15.333	6.522	0.0	3.6	6.9	105.3
1.35	4.6	0.3	-0.10	1.8	0.0	15.333	6.522	0.0	3.6	6.8	105.1
1.36	4.5	0.29	-0.06	1.8	0.0	15.517	6.444	0.0	3.5	6.8	105.84
1.37	4.5	0.29	-0.06	1.8	0.0	15.517	6.444	0.0	3.5	6.8	105.85
1.38	4.4	0.27	-0.03	1.8	0.0	16.296	6.136	0.0	3.4	6.6	106.19
1.39	4.3	0.27	-0.02	1.8	0.0	15.926	6.279	0.0	3.3	6.6	107.23
1.40	4.3	0.26	0.00	1.8	0.0	16.538	6.047	0.0	3.3	6.5	106.81
1.41	4.2	0.25	0.02	1.8	0.0	16.18	5.952	0.001	3.2	6.2	106.91
1.42	4.1	0.23	0.03	1.8	0.0	17.826	5.61	0.002	3.1	5.9	107.03
1.43	4.2	0.22	0.04	1.8	0.0	19.091	5.238	0.003	3.2	5.5	104.32
1.44	4.2	0.21	0.05	1.8	0.0	20.0	5.0	0.004	3.2	5.3	103.41
1.45	4.2	0.19	0.07	1.8	0.0	22.105	4.524	0.005	3.2	4.9	101.41
1.46	4.1	0.18	0.10	1.8	0.0	22.778	4.39	0.006	3.1	4.8	102.08
1.47	4.2	0.18	0.14	1.8	0.0	23.333	4.286	0.007	3.2	4.9	103.64
1.48	4.3	0.16	0.26	1.8	0.0	26.875	3.721	0.008	3.3	4.0	96.11
1.49	4.4	0.16	0.30	1.8	0.0	27.5	3.636	0.009	3.4	3.8	93.78
1.50	4.4	0.16	0.30	1.8	0.0	27.5	3.636	0.01	3.4	3.8	93.82
1.51	4.6	0.15	0.35	1.8	0.0	30.667	3.261	0.011	3.6	3.4	89.88
1.52	4.8	0.14	0.49	1.8	0.0	34.286	2.917	0.012	3.8	3.2	86.72
1.53	5.0	0.14	0.52	1.8	0.0	35.714	2.8	0.013	4.0	2.9	83.64
1.54	5.2	0.13	0.53	1.8	0.0	40.0	2.5	0.014	4.1	2.7	80.91
1.55	5.5	0.13	0.52	1.8	0.0	42.308	2.364	0.015	4.4	2.5	77.39
1.56	5.6	0.13	0.51	1.8	0.0	43.077	2.321	0.016	4.5	2.5	76.43
1.57	5.7	0.13	0.51	1.8	0.0	43.846	2.281	0.017	4.6	2.5	75.75
1.58	5.8	0.13	0.50	1.8	0.0	44.615	2.241	0.018	4.7	2.4	75.01
1.59	5.9	0.14	0.49	1.8	0.0	45.143	2.373	0.019	4.8	2.5	74.46
1.60	5.9	0.14	0.49	1.8	0.0	42.143	2.373	0.02	4.8	2.5	74.56
1.61	6.0	0.14	0.48	1.8	0.0	42.857	2.333	0.021	4.9	2.4	73.85
1.62	6.1	0.14	0.48	1.8	0.0	43.571	2.295	0.022	5.0	2.4	73.16
1.63	6.1	0.14	0.48	1.8	0.0	43.571	2.295	0.023	5.0	2.4	73.18
1.64	6.3	0.14	0.47	1.8	0.0	45.0	2.222	0.024	5.2	2.4	71.84
1.65	6.4	0.14	0.47	1.8	0.0	45.714	2.188	0.025	5.3	2.4	71.24
1.66	6.4	0.16	0.45	1.8	0.0	40.0	2.5	0.026	5.3	2.6	72.51
1.67	6.4	0.16	0.45	1.8	0.0	40.0	2.5	0.027	5.3	2.7	73.42
1.68	6.4	0.17	0.44	1.8	0.0	37.647	2.656	0.028	5.3	2.8	74.23
1.69	6.2	0.18	0.42	1.8	0.0	34.444	2.903	0.029	5.1	3.1	77.21
1.70	6.2	0.19	0.40	1.8	0.0	32.632	3.065	0.03	5.1	3.2	77.78
1.71	6.2	0.19	0.36	1.8	0.0	32.632	3.065	0.031	5.1	3.3	78.35
1.72	6.1	0.2	0.35	1.8	0.0	30.5	3.279	0.032	5.0	3.5	79.73
1.73	6.1	0.21	0.32	1.8	0.0	29.048	3.443	0.033	5.0	3.7	81.07
1.74	6.1	0.22	0.31	1.8	0.0	27.727	3.607	0.034	5.0	3.8	81.6
1.75	6.0	0.23	0.28	1.8	0.0	26.087	3.833	0.035	4.9	4.1	84.01
1.76	6.0	0.23	0.28	1.8	0.0	26.087	3.833	0.036	4.9	4.1	84.04
1.77	6.0	0.25	0.28	1.8	0.0	24.0	4.167	0.037	4.8	4.5	85.67
1.78	6.0	0.26	0.29	1.8	0.0	23.077	4.333	0.038	4.8	4.6	86.17
1.79	6.1	0.26	0.29	1.8	0.0	23.462	4.262	0.039	4.9	4.6	85.53
1.80	6.1	0.28	0.28	1.8	0.0	22.593	4.426	0.04	4.9	4.8	86.43
1.81	6.1	0.28	0.28	1.8	0.0	21.789	4.59	0.041	4.9	4.8	86.69
1.82	6.1	0.29	0.28	1.8	0.0	21.034	4.754	0.042	4.9	5.0	87.36

2.53	16.0	0.15	-0.30	2.0	0.0	106.667	0.938	0.113	14.7	1.0	35.51
2.54	16.2	0.15	-0.30	2.0	0.0	108.0	0.926	0.114	14.8	0.9	34.89
2.55	16.2	0.14	-0.30	2.0	0.0	115.714	0.864	0.115	14.8	0.9	34.57
2.56	15.7	0.13	-0.29	2.0	0.0	120.769	0.828	0.116	14.4	0.9	34.61
2.57	15.4	0.12	-0.29	2.0	0.0	128.333	0.779	0.117	14.1	0.7	34.5
2.58	15.2	0.11	-0.29	2.0	0.0	138.182	0.724	0.118	13.9	0.8	34.01
2.59	14.7	0.09	-0.28	2.0	0.0	163.333	0.612	0.119	13.4	0.6	33.11
2.60	14.4	0.08	-0.28	2.0	0.0	180.0	0.556	0.12	13.1	0.6	33.21
2.61	14.4	0.08	-0.28	2.0	0.0	180.0	0.556	0.121	13.1	0.6	33.22
2.62	13.7	0.08	-0.27	2.0	0.0	171.25	0.584	0.122	12.4	0.6	34.46
2.63	13.6	0.09	-0.24	2.0	0.0	151.111	0.662	0.123	12.3	0.7	35.36
2.64	14.9	0.1	-0.17	2.0	0.0	149.0	0.671	0.124	13.6	0.7	33.67
2.65	16.8	0.11	0.11	2.0	0.0	152.727	0.655	0.125	15.4	0.7	31.38
2.66	22.7	0.15	0.75	2.0	0.0	151.333	0.661	0.126	21.4	0.7	25.85
2.67	22.7	0.15	0.75	2.0	0.0	151.333	0.661	0.127	21.4	0.7	25.85
2.68	21.2	0.2	0.03	2.0	0.0	142.5	0.702	0.128	27.2	0.7	22.71
2.69	30.1	0.19	-0.08	2.0	0.0	158.421	0.631	0.129	28.7	0.7	21.2
2.70	31.2	0.2	-0.10	2.0	0.0	156.0	0.641	0.13	29.8	0.7	20.58
2.71	31.1	0.2	-0.10	2.0	0.0	155.5	0.643	0.131	29.7	0.7	20.64
2.72	30.2	0.18	-0.09	2.0	0.0	167.778	0.596	0.132	28.8	0.6	20.46
2.73	30.1	0.18	-0.09	2.0	0.0	167.222	0.598	0.133	28.7	0.6	20.77
2.74	30.5	0.2	-0.08	2.0	0.0	152.5	0.656	0.134	29.1	0.7	20.94
2.75	31.7	0.21	-0.03	2.0	0.0	150.952	0.662	0.135	30.3	0.7	20.62
2.76	37.7	0.24	0.18	2.0	0.0	157.083	0.637	0.136	36.3	0.6	17.92
2.77	41.7	0.25	0.21	2.0	0.0	166.8	0.6	0.137	40.3	0.6	16.37
2.78	46.2	0.27	0.18	2.1	0.0	171.111	0.584	0.138	44.8	0.6	14.9
2.79	53.9	0.29	0.01	2.0	0.0	185.862	0.538	0.139	52.6	0.5	12.68
2.80	53.9	0.29	0.01	2.0	0.0	185.862	0.538	0.14	52.6	0.6	12.68
2.81	59.3	0.28	-0.16	2.0	0.0	211.786	0.472	0.141	57.9	0.5	11.16
2.82	61.5	0.29	-0.18	2.0	0.0	212.069	0.472	0.142	60.1	0.5	10.78
2.83	63.2	0.31	-0.17	2.0	0.0	203.871	0.491	0.143	61.9	0.5	10.68
2.84	63.2	0.31	-0.17	2.0	0.0	203.871	0.491	0.144	61.9	0.5	10.72
2.85	63.5	0.31	-0.16	2.0	0.0	204.839	0.488	0.145	62.2	0.5	10.52
2.86	63.1	0.31	-0.15	2.0	0.0	210.645	0.475	0.146	63.9	0.5	10.2
2.87	66.3	0.32	-0.14	2.0	0.0	207.188	0.483	0.147	64.9	0.5	10.09
2.88	67.0	0.33	-0.13	2.0	0.0	203.03	0.493	0.148	65.6	0.5	10.1
2.89	67.2	0.34	-0.13	2.0	0.0	197.647	0.506	0.149	65.8	0.5	10.22
2.90	67.0	0.36	-0.11	2.0	0.0	186.111	0.537	0.15	65.6	0.5	10.55
2.91	66.6	0.37	-0.10	2.0	0.0	180.0	0.556	0.151	65.2	0.6	10.85
2.92	66.3	0.38	-0.09	2.0	0.0	174.474	0.573	0.152	64.9	0.6	11.12
2.93	66.2	0.39	-0.09	2.0	0.0	169.744	0.589	0.153	64.8	0.6	11.28
2.94	66.4	0.43	-0.07	2.0	0.0	154.419	0.648	0.154	65.0	0.7	11.75
2.95	66.9	0.45	-0.07	2.0	0.0	148.667	0.673	0.155	65.5	0.7	11.93
2.96	67.5	0.47	-0.06	2.0	0.0	143.617	0.696	0.156	66.1	0.7	12.05
2.97	68.9	0.5	-0.05	2.0	0.0	137.8	0.726	0.157	66.5	0.7	12.05
2.98	69.2	0.5	-0.05	2.0	0.0	138.4	0.723	0.158	67.2	0.7	11.94
2.99	69.2	0.49	-0.06	2.0	0.0	141.224	0.708	0.159	67.8	0.7	11.9
3.00	69.2	0.49	-0.06	2.0	0.0	141.224	0.708	0.16	67.8	0.7	11.9
3.01	67.3	0.5	-0.04	2.0	0.0	134.6	0.743	0.161	65.9	0.8	12.41
3.02	66.7	0.5	-0.04	2.0	0.0	133.4	0.75	0.162	65.3	0.8	12.53
3.03	66.2	0.49	-0.03	2.0	0.0	135.102	0.74	0.163	64.8	0.8	12.62
3.04	65.6	0.49	-0.03	2.0	0.0	133.878	0.747	0.164	64.2	0.8	12.79
3.05	65.6	0.49	0.00	2.0	0.0	133.878	0.747	0.165	64.2	0.8	12.79
3.06	65.6	0.49	0.00	2.0	0.0	133.878	0.747	0.166	64.2	0.8	12.79
3.07	64.1	0.37	0.24	1.9	0.0	173.243	0.577	0.167	62.7	0.6	11.38
3.08	65.3	0.39	0.24	1.9	0.0	167.436	0.597	0.168	63.9	0.6	11.41
3.09	66.3	0.39	0.23	1.9	0.0	170.0	0.588	0.169	64.9	0.6	11.26
3.10	67.7	0.4	0.23	1.9	0.0	169.25	0.591	0.17	66.3	0.6	11.03
3.11	70.4	0.41	0.24	2.0	0.0	171.707	0.582	0.171	69.0	0.6	10.63
3.12	71.5	0.43	0.24	2.0	0.0	166.279	0.601	0.172	70.1	0.6	10.56
3.13	73.4	0.43	0.19	2.0	0.0	170.698	0.586	0.173	72.0	0.6	10.23
3.14	73.4	0.43	0.19	2.0	0.0	170.698	0.586	0.174	72.0	0.6	10.23
3.15	74.2	0.42	-0.08	2.0	0.0	176.617	0.566	0.175	72.8	0.6	9.98
3.16	73.9	0.42	-0.10	2.0	0.0	175.952	0.568	0.176	72.5	0.6	9.99
3.17	71.9	0.42	-0.10	2.0	0.0	171.119	0.584	0.177	70.4	0.6	10.41
3.18	69.7	0.42	-0.08	2.0	0.0	165.952	0.603	0.178	68.3	0.6	10.88
3.19	67.3	0.42	-0.06	2.0	0.0	160.238	0.624	0.179	65.8	0.6	11.39
3.20	64.8	0.42	-0.04	2.0	0.0	154.286	0.648	0.18	63.4	0.7	12.02
3.21	59.5	0.44	-0.02	2.0	0.0	135.227	0.739	0.181	58.1	0.7	13.7
3.22	56.9	0.46	-0.01	2.0	0.0	123.696	0.808	0.182	55.4	0.8	14.79

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3.23	54.8	0.48	0.01	2.0	0.0	114.167	0.876	0.183	53.4	0.9	15.78
3.24	53.5	0.55	0.06	2.0	0.0	97.273	1.028	0.184	52.1	1.0	17.26
3.25	53.5	0.55	0.06	2.0	0.0	97.273	1.028	0.185	52.1	1.0	17.26
3.26	59.4	0.63	0.21	2.0	0.0	94.286	1.061	0.186	58.0	1.1	16.3
3.27	63.6	0.66	0.24	2.0	0.0	96.2	1.039	0.187	62.4	1.0	15.34
3.28	75.9	0.7	0.21	2.0	0.0	108.429	0.922	0.188	74.5	0.9	12.73
3.29	85.1	0.71	-0.03	2.0	0.0	119.859	0.834	0.189	83.7	0.8	11
3.30	96.2	0.68	-0.26	2.0	0.0	141.471	0.707	0.19	94.8	0.7	8.94
3.31	98.5	0.66	-0.27	2.0	0.0	149.242	0.67	0.191	97.0	0.7	8.52
3.32	98.9	0.65	-0.26	2.0	0.0	152.154	0.657	0.192	97.7	0.7	8.32
3.33	97.8	0.62	-0.25	2.0	0.0	137.743	0.634	0.193	96.3	0.6	8.25
3.34	95.5	0.58	-0.23	2.0	0.0	164.655	0.607	0.194	94.1	0.6	8.22
3.35	95.3	0.58	-0.22	2.0	0.0	164.31	0.609	0.195	93.9	0.6	8.18
3.36	95.5	0.57	-0.21	2.0	0.0	167.544	0.597	0.196	94.1	0.6	8.1
3.37	96.7	0.57	-0.18	2.0	0.0	169.649	0.589	0.197	95.2	0.6	7.94
3.38	97.8	0.57	-0.17	2.0	0.0	171.579	0.583	0.198	96.3	0.6	7.78
3.39	98.9	0.57	-0.16	2.0	0.0	173.509	0.576	0.199	97.5	0.6	7.62
3.40	100.2	0.58	-0.15	2.0	0.0	172.759	0.579	0.2	98.8	0.6	7.6
3.41	103.6	0.6	-0.14	2.0	0.0	172.667	0.579	0.201	102.1	0.6	7.34
3.42	105.1	0.59	-0.13	2.0	0.0	178.136	0.561	0.202	103.7	0.6	7.06
3.43	106.2	0.58	-0.12	2.0	0.0	183.103	0.546	0.203	104.7	0.6	6.83
3.44	106.8	0.59	-0.10	2.0	0.0	181.017	0.552	0.204	105.3	0.6	6.88
3.45	105.2	0.62	-0.08	2.0	0.0	169.677	0.589	0.205	103.8	0.6	7.33
3.46	104.0	0.63	-0.08	2.0	0.0	165.079	0.606	0.206	102.6	0.6	7.52
3.47	101.4	0.63	0.11	2.0	0.0	160.952	0.621	0.207	99.9	0.6	7.88
3.48	100.1	0.64	0.14	2.0	0.0	156.406	0.639	0.208	97.7	0.6	8.08
3.49	98.7	0.65	0.14	2.0	0.0	151.846	0.659	0.209	97.3	0.7	8.32
3.50	96.9	0.66	0.15	2.0	0.0	145.455	0.685	0.21	94.5	0.7	8.81
3.51	94.6	0.66	0.15	2.0	0.0	143.333	0.698	0.211	93.2	0.7	9.06
3.52	93.4	0.67	0.15	2.0	0.0	139.403	0.717	0.212	91.9	0.7	9.29
3.53	92.1	0.67	0.15	2.0	0.0	137.463	0.727	0.213	90.6	0.7	9.49
3.54	90.4	0.66	0.16	2.0	0.0	136.97	0.733	0.214	88.9	0.7	9.69
3.55	90.0	0.65	0.17	2.0	0.0	138.462	0.722	0.215	88.6	0.7	9.68
3.56	89.6	0.65	0.17	2.0	0.0	137.846	0.725	0.216	88.2	0.7	9.69
3.57	89.2	0.65	0.18	2.0	0.0	137.23	0.729	0.217	87.8	0.7	9.73
3.58	88.5	0.66	0.18	2.0	0.0	134.091	0.746	0.218	87.1	0.8	9.92
3.59	88.4	0.66	0.19	2.0	0.0	133.939	0.747	0.219	86.9	0.8	9.97
3.60	88.5	0.65	0.19	2.0	0.0	136.154	0.734	0.22	87.0	0.9	9.91
3.61	90.2	0.64	0.20	2.0	0.0	140.929	0.7	0.221	87.7	0.9	9.48
3.62	92.0	0.63	0.20	2.0	0.0	146.032	0.685	0.222	90.5	0.7	9.11
3.63	93.8	0.62	0.22	2.0	0.0	151.29	0.661	0.223	94.2	0.7	8.76
3.64	93.8	0.62	0.22	2.0	0.0	151.29	0.661	0.224	94.4	0.7	8.76
3.65	96.1	0.59	0.23	2.0	0.0	162.881	0.614	0.225	92.6	0.6	8.18
3.66	95.8	0.58	0.23	2.0	0.0	165.172	0.605	0.226	94.3	0.6	8.17
3.67	93.8	0.58	0.24	2.0	0.0	161.77	0.626	0.227	90.9	0.6	8.39
3.68	92.9	0.57	0.24	2.0	0.0	162.982	0.614	0.228	91.4	0.6	8.5
3.69	92.0	0.57	0.24	2.0	0.0	161.404	0.62	0.229	90.5	0.6	8.65
3.70	91.4	0.58	0.24	2.0	0.0	157.586	0.635	0.23	89.9	0.6	8.76
3.71	91.1	0.58	0.24	2.0	0.0	157.069	0.637	0.231	89.6	0.6	8.82
3.72	91.3	0.58	0.24	2.0	0.0	157.414	0.635	0.232	89.8	0.6	8.82
3.73	91.7	0.58	0.24	2.0	0.0	158.103	0.633	0.233	90.2	0.6	8.75
3.74	92.8	0.58	0.24	2.0	0.0	160.0	0.625	0.234	91.3	0.6	8.58
3.75	93.5	0.58	0.24	2.0	0.0	161.207	0.62	0.235	92.0	0.6	8.49
3.76	94.2	0.58	0.25	2.0	0.0	162.414	0.616	0.236	92.7	0.6	8.38
3.77	94.2	0.58	0.25	2.0	0.0	162.414	0.616	0.237	92.7	0.6	8.38
3.78	95.8	0.58	0.25	2.0	0.0	164.126	0.608	0.238	93.6	0.6	8.26
3.79	94.9	0.58	0.25	2.0	0.0	163.621	0.611	0.239	93.4	0.6	8.29
3.80	94.1	0.58	0.25	2.0	0.0	162.241	0.61	0.24	92.6	0.6	8.38
3.81	91.3	0.58	0.25	2.0	0.0	157.414	0.635	0.241	89.8	0.6	8.79
3.82	93.3	0.58	0.25	2.0	0.0	153.966	0.649	0.242	87.7	0.7	9.09
3.83	86.8	0.58	0.25	2.0	0.0	149.655	0.668	0.243	85.3	0.7	9.52
3.84	81.8	0.6	0.25	2.0	0.0	136.333	0.733	0.244	80.52	0.8	12.05
3.85	79.6	0.6	0.25	2.0	0.0	132.667	0.754	0.245	78.1	0.8	10.97
3.86	78.1	0.6	0.25	2.0	0.0	130.167	0.768	0.246	76.6	0.8	11.32
3.87	76.1	0.61	0.25	2.0	0.0	124.754	0.802	0.247	74.4	0.8	11.79
3.88	75.5	0.61	0.25	2.0	0.0	123.175	0.808	0.248	74.0	0.8	11.93
3.89	75.1	0.61	0.25	2.0	0.0	123.115	0.812	0.249	73.6	0.8	12.02
3.90	74.9	0.61	0.26	2.0	0.0	122.787	0.813	0.25	73.3	0.8	12.05
3.91	75.4	0.6	0.27	2.0	0.0	125.667	0.796	0.251	73.9	0.8	11.85
3.92	75.6	0.6	0.27	2.0	0.0	126.0	0.794	0.252	74.1	0.8	11.74

5.33	85.8	0.62	0.44	2.0	0.0	138.387	0.723	0.393	84.2	0.7	10.06
5.34	85.8	0.62	0.44	2.0	0.0	138.387	0.723	0.394	84.2	0.7	10.13
5.35	87.1	0.64	0.44	2.0	0.0	136.094	0.735	0.395	85.5	0.7	10.03
5.36	88.3	0.64	0.44	2.0	0.0	137.969	0.725	0.396	86.7	0.7	9.87
5.37	89.5	0.64	0.44	2.0	0.0	139.844	0.715	0.397	87.9	0.7	9.65
5.38	92.6	0.64	0.45	2.0	0.0	144.688	0.691	0.398	91.0	0.7	9.16
5.39	94.6	0.63	0.45	2.0	0.0	149.524	0.669	0.399	92.7	0.7	8.85
5.40	97.2	0.62	0.46	2.0	0.0	156.774	0.638	0.4	95.6	0.6	8.34
5.41	97.2	0.62	0.46	2.0	0.0	156.774	0.638	0.401	95.6	0.6	8.34
5.42	99.8	0.62	0.46	2.0	0.0	160.968	0.621	0.402	98.2	0.6	7.97
5.43	100.8	0.62	0.46	2.0	0.0	162.581	0.615	0.403	99.2	0.6	7.85
5.44	102.2	0.62	0.46	2.0	0.0	164.839	0.607	0.404	100.6	0.6	7.72
5.45	103.0	0.63	0.46	2.0	0.0	163.492	0.612	0.405	101.4	0.6	7.65
5.46	104.5	0.63	0.46	2.0	0.0	165.873	0.603	0.406	102.9	0.6	7.5
5.47	104.5	0.63	0.46	2.0	0.0	165.873	0.603	0.407	102.9	0.6	7.5
5.48	106.4	0.64	0.46	2.0	0.0	166.406	0.601	0.408	104.9	0.6	7.34
5.49	107.2	0.65	0.47	2.0	0.0	164.923	0.606	0.409	105.6	0.6	7.32
5.50	108.7	0.66	0.47	2.0	0.0	164.697	0.607	0.41	107.1	0.6	7.25
5.51	109.4	0.66	0.47	2.0	0.0	165.758	0.603	0.411	107.8	0.6	7.19
5.52	109.8	0.67	0.47	2.0	0.0	163.881	0.61	0.412	108.2	0.6	7.18
5.53	110.2	0.67	0.47	2.0	0.0	164.478	0.608	0.413	108.6	0.6	7.18
5.54	110.8	0.68	0.47	2.0	0.0	162.941	0.614	0.414	109.2	0.6	7.17
5.55	110.9	0.69	0.47	2.0	0.0	160.725	0.622	0.415	109.3	0.6	7.19
5.56	110.3	0.69	0.47	2.0	0.0	159.855	0.626	0.416	108.7	0.6	7.32
5.57	109.9	0.7	0.47	2.0	0.0	157.0	0.637	0.417	108.3	0.6	7.4
5.58	109.5	0.7	0.47	2.0	0.0	156.429	0.639	0.418	107.9	0.7	7.46
5.59	107.9	0.71	0.47	2.0	0.0	151.972	0.658	0.419	106.3	0.7	7.71
5.60	107.0	0.71	0.47	2.0	0.0	150.704	0.664	0.42	105.4	0.7	7.83
5.61	106.0	0.72	0.47	2.0	0.0	147.222	0.679	0.421	104.4	0.7	8
5.62	104.8	0.72	0.47	2.0	0.0	145.556	0.687	0.422	103.2	0.7	8.2
5.63	103.7	0.74	0.47	2.0	0.0	140.135	0.714	0.423	102.2	0.7	8.45
5.64	103.5	0.74	0.47	2.0	0.0	139.865	0.715	0.424	101.4	0.7	8.52
5.65	103.0	0.75	0.47	2.0	0.0	137.333	0.728	0.425	101.9	0.7	8.62
5.66	102.9	0.75	0.47	2.0	0.0	137.2	0.729	0.426	101.3	0.7	8.65
5.67	102.6	0.75	0.47	2.0	0.0	136.8	0.731	0.427	101.0	0.7	8.7
5.68	102.7	0.75	0.47	2.0	0.0	136.933	0.73	0.428	101.1	0.7	8.69
5.69	103.4	0.75	0.48	2.0	0.0	137.867	0.725	0.429	101.8	0.7	8.6
5.70	103.9	0.75	0.48	2.0	0.0	138.533	0.722	0.43	102.3	0.7	8.5
5.71	105.5	0.74	0.48	2.0	0.0	142.568	0.701	0.431	103.9	0.7	8.26
5.72	105.5	0.74	0.48	2.0	0.0	142.568	0.701	0.432	103.9	0.7	8.26
5.73	107.4	0.74	0.49	2.0	0.0	145.135	0.689	0.433	105.8	0.7	7.97
5.74	108.4	0.73	0.49	2.0	0.0	148.493	0.673	0.434	106.8	0.7	7.83
5.75	109.6	0.72	0.49	2.0	0.0	152.222	0.657	0.435	108.0	0.7	7.61
5.76	110.1	0.72	0.49	2.0	0.0	152.917	0.654	0.436	108.5	0.7	7.54
5.77	110.5	0.72	0.48	2.0	0.0	153.472	0.652	0.437	108.9	0.7	7.48
5.78	111.2	0.72	0.49	2.0	0.0	154.444	0.647	0.438	109.6	0.7	7.47
5.79	111.5	0.72	0.50	2.0	0.0	154.861	0.646	0.439	109.9	0.7	7.35
5.80	112.3	0.71	0.50	2.0	0.0	158.169	0.632	0.44	110.7	0.6	7.25
5.81	115.0	0.71	0.50	2.0	0.0	161.972	0.617	0.441	113.4	0.6	6.91
5.82	116.6	0.7	0.50	2.0	0.0	166.571	0.6	0.442	115.0	0.6	6.72
5.83	117.7	0.7	0.50	2.0	0.0	168.143	0.595	0.443	116.1	0.6	6.61
5.84	120.7	0.69	0.51	2.0	0.0	172.429	0.58	0.444	119.1	0.6	6.24
5.85	121.6	0.69	0.51	2.0	0.0	176.232	0.567	0.445	120.0	0.6	6.14
5.86	121.7	0.69	0.51	2.0	0.0	176.377	0.567	0.446	120.1	0.6	6.14
5.87	121.9	0.7	0.51	2.0	0.0	174.143	0.574	0.447	120.3	0.6	6.16
5.88	121.7	0.71	0.51	2.0	0.0	171.408	0.583	0.448	120.1	0.6	6.23
5.89	121.5	0.71	0.51	2.0	0.0	171.127	0.584	0.449	119.9	0.6	6.3
5.90	121.2	0.71	0.51	2.0	0.0	166.027	0.602	0.45	119.1	0.6	6.42
5.91	121.2	0.73	0.51	2.0	0.0	166.027	0.602	0.451	119.6	0.6	6.42
5.92	121.6	0.75	0.51	2.0	0.0	162.133	0.617	0.452	120.0	0.6	6.51
5.93	123.8	0.76	0.51	2.0	0.0	161.579	0.619	0.453	121.2	0.6	6.49
5.94	123.6	0.77	0.52	2.0	0.0	160.519	0.623	0.454	122.0	0.6	6.45
5.95	124.5	0.77	0.52	2.0	0.0	161.299	0.62	0.455	122.6	0.6	6.43
5.96	125.3	0.79	0.52	2.0	0.0	158.608	0.63	0.456	123.7	0.6	6.46
5.97	125.3	0.79	0.52	2.0	0.0	158.608	0.63	0.457	123.7	0.6	6.46
5.98	125.4	0.82	0.52	2.0	0.0	152.927	0.654	0.458	123.8	0.7	6.59
5.99	125.3	0.83	0.52	2.0	0.0	150.964	0.662	0.459	123.7	0.7	6.66
6.00	124.2	0.85	0.52	2.0	0.0	146.118	0.684	0.46	122.6	0.7	6.9
6.01	123.0	0.86	0.52	2.0	0.0	143.837	0.695	0.461	122.1	0.7	7.03
6.02	121.9	0.88	0.52	2.0	0.0	138.523	0.722	0.462	120.3	0.7	7.35

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6.03	121.0	0.9	0.52	2.0	0.0	134.444	0.744	0.463	119.4	0.8	7.52
6.04	120.0	0.91	0.52	2.0	0.0	131.868	0.758	0.464	118.4	0.8	7.68
6.05	120.0	0.91	0.52	2.0	0.0	131.868	0.758	0.465	118.4	0.8	7.68
6.06	120.0	0.91	0.52	2.0	0.0	131.868	0.758	0.466	118.4	0.8	7.68
6.07	113.1	0.8	0.54	2.0	0.0	141.375	0.707	0.467	111.5	0.7	7.76
6.08	112.2	0.82	0.54	2.0	0.0	136.829	0.731	0.468	110.6	0.7	8.01
6.09	111.3	0.84	0.53	2.0	0.0	132.5	0.755	0.469	109.7	0.8	8.25
6.10	110.8	0.86	0.53	2.0	0.0	128.837	0.776	0.47	109.2	0.8	8.42
6.11	110.1	0.88	0.52	2.0	0.0	125.114	0.799	0.471	108.5	0.8	8.64
6.12	110.3	0.88	0.52	2.0	0.0	125.341	0.798	0.472	108.7	0.8	8.64
6.13	110.5	0.88	0.52	2.0	0.0	125.568	0.796	0.473	108.9	0.8	8.64
6.14	111.0	0.88	0.53	2.0	0.0	126.136	0.793	0.474	109.4	0.8	8.56
6.15	111.0	0.88	0.53	2.0	0.0	126.136	0.793	0.475	109.4	0.8	8.56
6.16	110.5	0.87	0.53	2.0	0.0	127.011	0.787	0.476	108.9	0.8	8.57
6.17	108.7	0.86	0.52	2.0	0.0	126.395	0.791	0.477	107.0	0.8	8.68
6.18	108.0	0.85	0.52	2.0	0.0	127.059	0.787	0.478	106.4	0.8	8.7
6.19	107.4	0.84	0.52	2.0	0.0	127.857	0.782	0.479	105.8	0.8	8.71
6.20	106.5	0.83	0.53	2.0	0.0	128.313	0.779	0.48	104.9	0.8	8.76
6.21	106.4	0.82	0.53	2.0	0.0	129.756	0.771	0.481	104.8	0.8	8.73
6.22	106.4	0.82	0.53	2.0	0.0	129.756	0.771	0.482	104.8	0.8	8.69
6.23	106.7	0.81	0.53	2.0	0.0	131.728	0.759	0.483	105.1	0.8	8.57
6.24	106.5	0.8	0.53	2.0	0.0	133.125	0.751	0.484	104.9	0.8	8.56
6.25	105.8	0.8	0.53	2.0	0.0	132.25	0.756	0.485	104.2	0.8	8.62
6.26	102.6	0.8	0.53	2.0	0.0	128.25	0.78	0.486	101.0	0.8	9.06
6.27	100.2	0.8	0.53	2.0	0.0	125.25	0.798	0.487	98.6	0.8	9.42
6.28	97.9	0.81	0.53	2.0	0.0	120.864	0.827	0.488	96.3	0.8	9.82
6.29	95.9	0.82	0.53	2.0	0.0	116.951	0.855	0.489	94.3	0.9	10.16
6.30	94.0	0.82	0.53	2.0	0.0	114.634	0.872	0.49	92.4	0.9	10.51
6.31	93.9	0.83	0.53	2.0	0.0	113.133	0.884	0.491	92.3	0.9	10.54
6.32	95.5	0.83	0.53	2.0	0.0	115.06	0.869	0.492	93.9	0.9	10.31
6.33	96.7	0.83	0.54	2.0	0.0	116.506	0.858	0.493	95.1	0.9	10.14
6.34	96.7	0.83	0.54	2.0	0.0	116.506	0.858	0.494	95.1	0.9	10.14
6.35	101.3	0.83	0.55	2.0	0.0	122.048	0.819	0.495	99.7	0.8	9.43
6.36	103.2	0.82	0.55	2.0	0.0	125.854	0.795	0.496	101.5	0.8	9.15
6.37	105.3	0.81	0.55	2.0	0.0	130.0	0.769	0.497	103.7	0.8	8.81
6.38	108.7	0.8	0.56	2.0	0.0	135.875	0.736	0.498	107.0	0.8	8.3
6.39	109.8	0.79	0.56	2.0	0.0	138.987	0.719	0.499	108.2	0.7	8.1
6.40	109.9	0.79	0.56	2.0	0.0	140.216	0.716	0.5	109.3	0.7	7.93
6.41	111.5	0.78	0.56	2.0	0.0	142.949	0.7	0.501	109.7	0.7	7.82
6.42	112.6	0.78	0.56	2.0	0.0	144.359	0.693	0.502	111.0	0.7	7.7
6.43	112.8	0.78	0.56	2.0	0.0	144.615	0.691	0.503	111.2	0.7	7.68
6.44	112.8	0.79	0.56	2.0	0.0	142.785	0.7	0.504	111.2	0.7	7.74
6.45	112.7	0.8	0.56	2.0	0.0	140.875	0.71	0.505	111.1	0.7	7.8
6.46	112.7	0.81	0.56	2.0	0.0	139.136	0.717	0.506	111.1	0.7	7.86
6.47	112.7	0.82	0.56	2.0	0.0	137.439	0.728	0.507	111.1	0.7	7.92
6.48	112.8	0.83	0.56	2.0	0.0	135.904	0.736	0.508	111.1	0.7	8.01
6.49	113.0	0.84	0.56	2.0	0.0	134.524	0.743	0.509	111.3	0.8	8.04
6.50	113.8	0.85	0.56	2.0	0.0	133.882	0.747	0.511	112.2	0.8	8.04
6.51	114.3	0.86	0.56	2.0	0.0	132.907	0.752	0.511	112.7	0.8	8.04
6.52	115.1	0.87	0.56	2.0	0.0	132.299	0.757	0.512	113.7	0.8	7.99
6.53	115.1	0.87	0.56	2.0	0.0	132.299	0.756	0.513	113.5	0.8	7.99
6.54	118.5	0.88	0.57	2.0	0.0	134.659	0.734	0.514	116.8	0.8	7.7
6.55	119.4	0.88	0.57	2.0	0.0	135.682	0.737	0.515	117.8	0.8	7.6
6.56	121.0	0.88	0.57	2.0	0.0	137.5	0.727	0.516	119.4	0.7	7.44
6.57	121.2	0.89	0.57	2.0	0.0	136.18	0.734	0.517	119.6	0.7	7.44
6.58	121.9	0.89	0.57	2.0	0.0	136.969	0.73	0.518	120.7	0.7	7.39
6.59	121.9	0.89	0.57	2.0	0.0	136.966	0.733	0.519	120.3	0.7	7.39
6.60	123.5	0.91	0.57	2.0	0.0	135.714	0.737	0.52	121.8	0.8	7.36
6.61	123.8	0.92	0.58	2.0	0.0	134.565	0.743	0.521	122.1	0.8	7.37
6.62	123.8	0.93	0.58	2.0	0.0	133.118	0.751	0.522	122.2	0.8	7.42
6.63	123.6	0.93	0.58	2.0	0.0	132.903	0.752	0.523	121.9	0.8	7.48
6.64	123.8	0.94	0.58	2.0	0.0	130.476	0.761	0.524	121.8	0.8	7.64
6.65	122.6	0.94	0.58	2.0	0.0	130.426	0.767	0.525	121.0	0.8	7.64
6.66	121.4	0.95	0.58	2.0	0.0	127.789	0.783	0.526	119.8	0.8	7.84
6.67	120.5	0.96	0.57	2.0	0.0	125.521	0.797	0.527	118.9	0.8	7.97
6.68	118.4	0.98	0.57	2.0	0.0	120.816	0.828	0.528	116.7	0.8	8.3
6.69	116.6	0.98	0.57	2.0	0.0	118.98	0.84	0.529	115.0	0.9	8.53
6.70	114.8	0.98	0.57	2.0	0.0	116.697	0.853	0.53	113.7	0.9	8.79
6.71	112.3	0.99	0.57	2.0	0.0	113.434	0.882	0.531	110.7	0.9	9.12
6.72	108.4	1.01	0.57	2.1	0.0	107.327	0.932	0.532	106.7	0.9	9.72

8.13	70.2	0.57	0.71	2.0	0.0	123.158	0.812	6.673	68.6	0.8	12.79
8.14	69.5	0.56	0.72	2.0	0.0	124.107	0.806	6.674	67.9	0.8	12.85
8.15	69.4	0.56	0.72	2.0	0.0	123.929	0.807	6.675	67.8	0.8	12.81
8.16	69.2	0.55	0.72	2.0	0.0	125.818	0.795	6.676	67.6	0.8	12.8
8.17	69.5	0.55	0.72	2.0	0.0	125.818	0.795	6.677	67.7	0.8	12.79
8.18	69.2	0.54	0.72	2.0	0.0	128.148	0.778	6.678	67.6	0.8	12.68
8.19	69.3	0.54	0.72	2.0	0.0	128.333	0.779	6.679	67.7	0.8	12.62
8.20	69.8	0.54	0.72	2.0	0.0	129.259	0.774	6.68	68.2	0.8	12.45
8.21	70.4	0.53	0.72	2.0	0.0	132.83	0.753	6.681	68.7	0.8	12.26
8.22	70.3	0.52	0.72	2.0	0.0	132.83	0.753	6.682	68.7	0.8	12.24
8.23	70.5	0.53	0.73	2.0	0.0	133.019	0.752	6.683	68.8	0.8	12.19
8.24	70.6	0.52	0.73	2.0	0.0	135.769	0.737	6.684	68.9	0.8	12.12
8.25	71.3	0.52	0.73	2.0	0.0	137.115	0.729	6.685	69.6	0.8	11.9
8.26	71.7	0.52	0.73	2.0	0.0	137.885	0.725	6.686	70.0	0.7	11.79
8.27	73.0	0.52	0.74	2.0	0.0	140.385	0.712	6.687	71.3	0.7	11.48
8.28	73.7	0.52	0.74	2.0	0.0	141.731	0.706	6.688	72.1	0.7	11.32
8.29	74.6	0.52	0.74	2.0	0.0	143.462	0.697	6.689	73.0	0.7	11.13
8.30	77.1	0.52	0.74	2.0	0.0	148.269	0.674	6.69	75.4	0.7	10.65
8.31	78.4	0.52	0.75	2.0	0.0	150.769	0.663	6.691	76.8	0.7	10.4
8.32	79.8	0.52	0.75	2.0	0.0	153.462	0.652	6.692	78.2	0.7	10.13
8.33	79.8	0.52	0.75	2.0	0.0	153.462	0.652	6.693	78.2	0.7	10.13
8.34	84.1	0.52	0.75	2.0	0.0	161.731	0.618	6.694	82.5	0.6	9.43
8.35	85.3	0.52	0.75	2.0	0.0	164.038	0.61	6.695	83.6	0.6	9.26
8.36	85.8	0.53	0.75	2.0	0.0	161.887	0.618	6.696	84.1	0.6	9.21
8.37	86.2	0.53	0.75	2.0	0.0	162.642	0.615	6.697	84.5	0.6	9.23
8.38	86.2	0.56	0.75	2.0	0.0	153.929	0.65	6.698	84.5	0.7	9.44
8.39	86.3	0.57	0.75	2.0	0.0	151.404	0.66	6.699	84.6	0.7	9.56
8.40	86.4	0.58	0.75	2.0	0.0	149.31	0.67	6.7	84.7	0.7	9.67
8.41	87.4	0.6	0.75	2.0	0.0	145.667	0.686	6.701	85.7	0.7	9.65
8.42	87.7	0.6	0.75	2.0	0.0	146.167	0.684	6.702	86.0	0.7	9.66
8.43	88.0	0.61	0.75	2.0	0.0	144.262	0.693	6.703	86.3	0.7	9.69
8.44	88.0	0.61	0.75	2.0	0.0	144.262	0.693	6.704	86.3	0.7	9.69
8.45	88.6	0.63	0.76	2.0	0.0	140.635	0.711	6.705	87.0	0.7	9.8
8.46	89.0	0.64	0.76	2.0	0.0	139.063	0.719	6.706	87.4	0.7	9.76
8.47	89.4	0.65	0.76	2.0	0.0	137.538	0.727	6.707	87.8	0.8	9.86
8.48	89.7	0.66	0.76	2.0	0.0	135.909	0.736	6.708	88.1	0.8	9.88
8.49	90.2	0.67	0.76	2.0	0.0	134.627	0.743	6.709	88.5	0.8	9.84
8.50	91.0	0.67	0.76	2.0	0.0	135.821	0.736	6.71	89.3	0.8	9.75
8.51	91.6	0.67	0.76	2.0	0.0	136.716	0.731	6.711	89.9	0.8	9.67
8.52	91.6	0.67	0.76	2.0	0.0	136.716	0.731	6.712	89.9	0.8	9.67
8.53	92.0	0.67	0.76	2.0	0.0	137.313	0.728	6.713	90.3	0.7	9.6
8.54	92.2	0.67	0.76	2.0	0.0	137.612	0.727	6.714	90.5	0.7	9.58
8.55	91.7	0.67	0.76	2.0	0.0	136.866	0.731	6.715	90.0	0.8	9.68
8.56	90.9	0.68	0.76	2.0	0.0	133.676	0.748	6.716	89.2	0.8	9.83
8.57	89.7	0.68	0.76	2.0	0.0	131.912	0.758	6.717	88.1	0.8	10.04
8.58	86.3	0.69	0.75	2.0	0.0	125.072	0.8	6.718	84.6	0.8	10.7
8.59	84.1	0.7	0.75	2.0	0.0	120.143	0.832	6.719	82.5	0.9	11.17
8.60	82.0	0.71	0.75	2.0	0.0	115.493	0.866	6.72	80.3	0.9	11.66
8.61	78.0	0.71	0.75	2.0	0.0	109.859	0.91	6.721	76.3	0.9	12.54
8.62	76.5	0.72	0.75	2.0	0.0	106.25	0.941	6.722	74.8	1.0	12.91
8.63	75.3	0.72	0.75	2.0	0.0	104.583	0.956	6.723	73.6	1.0	13.19
8.64	74.2	0.72	0.76	2.0	0.0	102.056	0.97	6.724	72.6	1.0	13.47
8.65	74.4	0.72	0.76	2.0	0.0	103.333	0.968	6.725	72.8	1.0	13.43
8.66	75.1	0.72	0.77	2.0	0.0	104.306	0.959	6.726	73.4	1.0	13.25
8.67	78.0	0.71	0.78	2.0	0.0	109.859	0.91	6.727	76.3	0.9	12.54
8.68	79.7	0.71	0.78	2.0	0.0	112.254	0.891	6.728	78.1	0.9	12.11
8.69	81.7	0.7	0.78	2.0	0.0	116.143	0.861	6.729	79.6	0.9	11.71
8.70	82.5	0.68	0.79	2.0	0.0	121.324	0.824	6.73	80.8	0.8	11.04
8.71	83.0	0.66	0.79	2.0	0.0	125.758	0.795	6.731	81.3	0.8	11.05
8.72	82.9	0.65	0.79	2.0	0.0	127.538	0.784	6.732	81.2	0.8	10.95
8.73	82.7	0.64	0.79	2.0	0.0	129.219	0.774	6.733	81.0	0.8	10.92
8.74	82.6	0.63	0.79	2.0	0.0	131.111	0.763	6.734	80.8	0.8	10.86
8.75	82.7	0.63	0.79	2.0	0.0	131.27	0.762	6.735	81.0	0.8	10.82
8.76	83.0	0.63	0.79	2.0	0.0	131.746	0.759	6.736	81.3	0.8	10.74
8.77	83.4	0.63	0.79	2.0	0.0	132.381	0.755	6.737	81.7	0.8	10.65
8.78	84.1	0.62	0.79	2.0	0.0	135.645	0.737	6.738	82.5	0.8	10.49
8.79	84.1	0.62	0.79	2.0	0.0	135.645	0.737	6.739	82.5	0.8	10.49
8.80	83.9	0.63	0.79	2.0	0.0	133.175	0.751	6.74	82.3	0.8	10.56
8.81	83.8	0.63	0.79	2.0	0.0	132.54	0.754	6.741	81.8	0.8	10.68
8.82	83.2	0.64	0.79	2.0	0.0	130.0	0.769	6.742	81.5	0.8	10.81

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8.83	82.9	0.65	0.79	2.0	0.0	127.538	0.784	0.743	81.2	0.8	10.93
8.84	82.8	0.66	0.79	2.0	0.0	125.455	0.797	0.744	81.1	0.8	11.04
8.85	83.2	0.66	0.79	2.0	0.0	126.061	0.793	0.745	81.5	0.8	10.97
8.86	84.3	0.66	0.80	2.0	0.0	127.727	0.783	0.746	82.7	0.8	10.74
8.87	86.9	0.65	0.81	2.0	0.0	133.692	0.748	0.747	85.2	0.8	10.25
8.88	86.9	0.65	0.81	2.0	0.0	133.692	0.748	0.748	85.2	0.8	10.25
8.89	88.3	0.65	0.81	2.0	0.0	135.846	0.736	0.749	86.6	0.8	9.99
8.90	88.0	0.65	0.80	2.0	0.0	135.385	0.739	0.75	86.3	0.8	10.02
8.91	86.5	0.65	0.80	2.0	0.0	133.077	0.751	0.751	84.8	0.8	10.28
8.92	85.5	0.65	0.80	2.0	0.0	131.538	0.76	0.752	83.8	0.8	10.48
8.93	82.9	0.66	0.79	2.0	0.0	125.606	0.796	0.753	81.2	0.8	11.04
8.94	81.3	0.66	0.79	2.0	0.0	123.182	0.812	0.754	79.6	0.8	11.37
8.95	80.0	0.66	0.79	2.0	0.0	121.212	0.825	0.755	78.3	0.9	11.65
8.96	78.5	0.67	0.78	2.0	0.0	117.164	0.854	0.756	76.9	0.9	11.97
8.97	75.6	0.67	0.78	2.0	0.0	112.836	0.886	0.757	73.9	0.9	12.67
8.98	74.2	0.68	0.78	2.0	0.0	109.118	0.916	0.758	72.6	0.9	13
8.99	73.1	0.68	0.78	2.0	0.0	107.5	0.93	0.759	71.4	1.0	13.33
9.00	71.0	0.69	0.78	2.0	0.0	102.899	0.972	0.76	69.3	1.0	13.94
9.01	70.0	0.69	0.78	2.0	0.0	102.899	0.972	0.761	69.3	1.0	13.94
9.02	70.0	0.7	0.79	2.0	0.0	100.0	1.0	0.762	68.3	1.0	14.23
9.03	70.0	0.69	0.79	2.0	0.0	101.449	0.986	0.763	68.3	1.0	14.21
9.04	71.2	0.68	0.80	2.0	0.0	104.706	0.955	0.764	69.5	1.0	13.8
9.05	71.2	0.68	0.80	2.0	0.0	104.706	0.955	0.765	69.5	1.0	13.81
9.06	71.2	0.68	0.80	2.0	0.0	104.706	0.955	0.766	69.5	1.0	13.81
9.07	74.4	0.54	0.84	2.0	0.0	137.778	0.726	0.767	72.8	0.8	11.52
9.08	75.4	0.55	0.84	2.0	0.0	137.091	0.729	0.768	73.7	0.7	11.34
9.09	76.1	0.55	0.83	2.0	0.0	138.364	0.723	0.769	74.4	0.7	11.24
9.10	76.3	0.55	0.83	2.0	0.0	138.721	0.721	0.77	74.6	0.7	11.22
9.11	75.6	0.55	0.83	2.0	0.0	137.455	0.728	0.771	73.9	0.8	11.39
9.12	74.5	0.56	0.82	2.0	0.0	133.036	0.752	0.772	72.8	0.8	11.66
9.13	72.2	0.56	0.82	2.0	0.0	128.929	0.776	0.773	70.5	0.8	12.19
9.14	71.3	0.56	0.82	2.0	0.0	127.321	0.784	0.774	69.6	0.8	12.4
9.15	70.1	0.56	0.82	2.0	0.0	125.179	0.799	0.775	68.4	0.8	12.73
9.16	70.1	0.56	0.82	2.0	0.0	125.179	0.799	0.776	68.4	0.8	12.73
9.17	69.5	0.57	0.82	2.0	0.0	121.93	0.82	0.777	67.8	0.9	12.95
9.18	69.5	0.57	0.82	2.0	0.0	121.93	0.82	0.778	67.8	0.9	12.95
9.19	69.5	0.57	0.83	2.0	0.0	121.93	0.82	0.779	67.8	0.9	12.99
9.20	69.7	0.58	0.83	2.0	0.0	120.172	0.832	0.78	68.0	0.9	12.95
9.21	69.9	0.58	0.83	2.0	0.0	120.517	0.83	0.781	68.2	0.9	12.92
9.22	70.1	0.58	0.83	2.0	0.0	120.862	0.827	0.782	68.4	0.8	12.86
9.23	70.4	0.57	0.84	2.0	0.0	123.509	0.81	0.783	68.7	0.8	12.74
9.24	70.5	0.57	0.84	2.0	0.0	123.684	0.809	0.784	68.8	0.8	12.71
9.25	70.6	0.57	0.84	2.0	0.0	123.86	0.807	0.785	68.9	0.8	12.67
9.26	70.9	0.57	0.84	2.0	0.0	124.38	0.804	0.786	69.2	0.8	12.57
9.27	70.9	0.57	0.84	2.0	0.0	124.386	0.804	0.787	69.2	0.8	12.56
9.28	70.7	0.57	0.84	2.0	0.0	124.035	0.806	0.788	69.0	0.8	12.6
9.29	70.7	0.57	0.84	2.0	0.0	124.035	0.806	0.789	69.0	0.8	12.6
9.30	69.4	0.56	0.84	2.0	0.0	123.929	0.807	0.79	67.7	0.8	12.89
9.31	68.4	0.56	0.84	2.0	0.0	122.143	0.819	0.791	66.8	0.9	13.14
9.32	67.5	0.56	0.87	2.0	0.0	115.087	0.869	0.793	63.9	0.9	13.96
9.33	63.8	0.58	0.83	2.0	0.0	110.0	0.909	0.793	62.2	0.9	14.5
9.34	62.2	0.58	0.82	2.0	0.0	107.241	0.932	0.794	60.5	1.0	15.04
9.35	60.7	0.58	0.82	2.0	0.0	104.655	0.956	0.795	59.0	1.0	15.53
9.36	58.6	0.59	0.82	2.0	0.0	99.322	1.007	0.796	57.0	1.0	16.24
9.37	58.6	0.59	0.82	2.0	0.0	99.322	1.007	0.797	57.0	1.0	16.24
9.38	77.1	0.59	0.82	2.0	0.0	96.73	1.033	0.798	55.4	1.1	16.75
9.39	55.8	0.58	0.83	2.0	0.0	96.207	1.039	0.799	54.1	1.1	17.11
9.40	54.7	0.57	0.83	2.0	0.0	95.345	1.049	0.8	53.6	1.1	17.24
9.41	54.7	0.57	0.83	2.0	0.0	95.965	1.042	0.801	53.0	1.1	17.4
9.42	54.3	0.57	0.83	2.0	0.0	95.263	1.05	0.802	52.6	1.1	17.49
9.43	53.8	0.56	0.84	2.0	0.0	96.971	1.041	0.803	52.1	1.1	17.54
9.44	53.5	0.56	0.84	2.0	0.0	95.538	1.047	0.804	51.9	1.1	17.58
9.45	53.4	0.55	0.84	2.0	0.0	97.091	1.03	0.805	51.1	1.1	17.54
9.46	53.5	0.54	0.85	2.0	0.0	99.074	1.009	0.806	51.1	1.1	17.32
9.47	53.7	0.53	0.85	2.0	0.0	101.321	0.987	0.807	52.1	1.0	17.14
9.48	53.4	0.52	0.85	2.0	0.0	104.423	0.958	0.808	52.6	1.0	16.8
9.49	55.1	0.52	0.86	2.0	0.0	105.962	0.944	0.809	53.4	1.0	16.4
9.50	71.8	0.5	0.87	2.0	0.0	93.63	1.081	0.863	46.7	1.0	19.0
9.51	59.7	0.49	0.88	2.0	0.0	121.837	0.821	0.811	58.0	0.9	14.58
9.52	64.4	0.48	0.88	2.0	0.0	134.167	0.745	0.812	62.7	0.9	13.09

10.93	80.2	0.71	1.01	2.0	0.0	112.958	0.885	0.953	78.7	0.9	12.14
10.94	79.7	0.71	1.01	2.0	0.0	112.254	0.891	0.954	78.2	0.9	12.25
10.95	79.5	0.72	1.01	2.0	0.0	110.417	0.906	0.955	78.9	0.9	12.31
10.96	79.4	0.72	1.01	2.0	0.0	110.278	0.907	0.956	77.9	0.9	12.36
10.97	80.5	0.72	1.01	2.0	0.0	111.111	0.9	0.957	78.5	0.9	12.45
10.98	80.6	0.72	1.01	2.0	0.0	111.944	0.893	0.958	79.1	0.9	12.09
10.99	81.4	0.71	1.02	2.0	0.0	114.648	0.872	0.959	79.8	0.9	11.9
11.00	83.2	0.7	1.02	2.0	0.0	118.857	0.841	0.96	81.6	0.9	11.48
11.01	84.1	0.7	1.03	2.0	0.0	120.143	0.832	0.961	82.6	0.9	11.26
11.02	85.3	0.69	1.03	2.0	0.0	123.623	0.809	0.962	83.8	0.8	10.99
11.03	86.0	0.69	1.03	2.0	0.0	126.638	0.802	0.963	84.5	0.8	10.82
11.04	86.5	0.68	1.03	2.0	0.0	127.206	0.786	0.964	84.9	0.8	10.67
11.05	86.5	0.68	1.03	2.0	0.0	127.206	0.786	0.965	84.9	0.8	10.67
11.06	86.5	0.68	1.03	2.0	0.0	127.206	0.786	0.966	84.9	0.8	10.67
11.07	90.0	0.55	1.04	2.0	0.0	163.636	0.611	0.967	88.5	0.6	8.85
11.08	92.0	0.56	1.04	2.0	0.0	164.286	0.609	0.968	90.4	0.6	8.63
11.09	92.0	0.56	1.04	2.0	0.0	164.286	0.609	0.969	90.4	0.6	8.63
11.10	95.0	0.58	1.04	2.0	0.0	163.793	0.611	0.97	93.5	0.6	8.36
11.11	96.2	0.6	1.04	2.0	0.0	160.333	0.624	0.971	94.7	0.6	8.37
11.12	95.9	0.61	1.04	2.0	0.0	157.213	0.636	0.972	94.7	0.6	8.51
11.13	95.2	0.62	1.04	2.0	0.0	153.548	0.651	0.973	93.7	0.7	8.74
11.14	93.7	0.65	1.05	2.0	0.0	144.154	0.694	0.974	92.2	0.7	9.2
11.15	93.6	0.66	1.04	2.0	0.0	141.818	0.705	0.975	92.1	0.7	9.34
11.16	93.7	0.68	1.04	2.0	0.0	137.794	0.726	0.976	92.2	0.7	9.44
11.17	94.2	0.69	1.04	2.0	0.0	136.522	0.732	0.977	92.7	0.8	9.45
11.18	96.3	0.7	1.04	2.0	0.0	137.571	0.727	0.978	94.8	0.8	9.25
11.19	97.7	0.71	1.05	2.0	0.0	137.606	0.727	0.979	96.1	0.7	9.1
11.20	100.8	0.7	1.05	2.0	0.0	140.0	0.714	0.98	99.0	0.7	8.79
11.21	102.4	0.73	1.05	2.0	0.0	140.274	0.713	0.981	100.8	0.7	8.64
11.22	103.7	0.74	1.04	2.0	0.0	140.135	0.714	0.982	102.2	0.7	8.53
11.23	104.2	0.74	1.04	2.0	0.0	140.811	0.71	0.983	102.7	0.7	8.51
11.24	102.8	0.76	1.03	2.0	0.0	135.263	0.739	0.984	101.2	0.8	8.82
11.25	101.5	0.76	1.04	2.0	0.0	133.553	0.749	0.985	100.0	0.8	9.04
11.26	98.4	0.77	1.04	2.0	0.0	127.792	0.783	0.986	96.8	0.8	9.55
11.27	96.4	0.78	1.05	2.0	0.0	123.59	0.809	0.987	94.9	0.8	9.9
11.28	96.4	0.78	1.05	2.0	0.0	123.59	0.809	0.988	94.9	0.8	9.9
11.29	92.6	0.79	1.04	2.0	0.0	117.215	0.853	0.989	91.0	0.9	10.59
11.30	91.5	0.8	1.04	2.0	0.0	114.375	0.874	0.99	89.9	0.9	10.82
11.31	90.1	0.81	1.05	2.0	0.0	111.235	0.899	0.991	88.6	0.9	11.13
11.32	90.2	0.81	1.05	2.0	0.0	111.358	0.898	0.992	88.7	0.9	11.15
11.33	91.7	0.81	1.06	2.0	0.0	113.21	0.883	0.993	90.1	0.9	10.92
11.34	91.7	0.81	1.06	2.0	0.0	113.21	0.883	0.994	90.1	0.9	10.92
11.35	94.0	0.81	1.06	2.0	0.0	116.049	0.862	0.995	92.5	0.9	10.51
11.36	95.5	0.81	1.06	2.0	0.0	117.901	0.848	0.996	94.9	0.9	10.24
11.37	97.8	0.79	1.07	2.0	0.0	123.797	0.808	0.997	96.2	0.8	9.79
11.38	98.5	0.79	1.06	2.0	0.0	124.684	0.802	0.998	96.9	0.8	9.67
11.39	98.9	0.79	1.06	2.0	0.0	125.19	0.799	0.999	97.4	0.8	9.59
11.40	99.5	0.79	1.07	2.0	0.0	125.949	0.794	1.0	98.0	0.8	9.52
11.41	99.6	0.79	1.07	2.0	0.0	126.076	0.793	1.001	98.1	0.8	9.5
11.42	99.7	0.79	1.08	2.0	0.0	126.203	0.792	1.002	98.2	0.8	9.48
11.43	100.2	0.79	1.08	2.0	0.0	126.835	0.788	1.003	98.7	0.8	9.38
11.44	100.5	0.79	1.08	2.0	0.0	127.215	0.786	1.004	99.0	0.8	9.34
11.45	101.0	0.79	1.08	2.0	0.0	127.848	0.782	1.005	99.5	0.8	9.28
11.46	101.9	0.79	1.08	2.0	0.0	128.987	0.775	1.006	100.3	0.8	9.19
11.47	102.7	0.79	1.08	2.0	0.0	130.0	0.769	1.007	101.1	0.8	9.1
11.48	103.6	0.8	1.07	2.0	0.0	129.5	0.772	1.008	102.1	0.8	8.98
11.49	105.0	0.8	1.07	2.0	0.0	131.25	0.762	1.009	103.5	0.8	8.8
11.50	108.6	0.8	1.06	2.0	0.0	135.75	0.737	1.01	107.0	0.8	8.36
11.51	110.5	0.8	1.09	2.0	0.0	138.125	0.724	1.011	109.0	0.7	8.11
11.52	112.9	0.79	1.08	2.0	0.0	142.911	0.7	1.012	111.3	0.7	7.82
11.53	112.9	0.79	1.08	2.0	0.0	142.911	0.7	1.013	111.3	0.7	7.82
11.54	111.7	0.79	1.07	2.0	0.0	141.392	0.707	1.014	110.1	0.7	7.92
11.55	109.0	0.79	1.07	2.0	0.0	139.114	0.719	1.015	108.4	0.7	8.11
11.56	106.2	0.79	1.07	2.0	0.0	134.43	0.744	1.016	104.7	0.8	8.58
11.57	104.6	0.79	1.07	2.0	0.0	132.405	0.755	1.017	103.1	0.8	8.79
11.58	103.2	0.79	1.07	2.0	0.0	130.633	0.766	1.018	101.6	0.8	8.98
11.59	99.8	0.78	1.07	2.0	0.0	127.949	0.782	1.019	98.3	0.8	9.43
11.60	97.7	0.78	1.07	2.0	0.0	125.256	0.798	1.02	96.1	0.8	9.77
11.61	95.4	0.78	1.07	2.0	0.0	122.308	0.818	1.021	93.7	0.8	10.07
11.62	91.0	0.78	1.08	2.0	0.0	116.667	0.857	1.022	89.5	0.9	10.74

(Boglio s.s. di Casone Luigi-Ampilamento impianto zootecnico-Zerbinato di Bordenò FE) 61

(Boglio s.s. di Casone Luigi-Ampilamento impianto zootecnico-Zerbinato di Bordenò FE) 62

12.33	122.8	0.73	1.15	1.9	0.0	168.219	0.594	1.093	121.2	0.6	6.38
12.34	123.8	0.76	1.16	1.9	0.0	162.895	0.614	1.094	122.3	0.6	6.46
12.35	124.0	0.78	1.16	1.9	0.0	158.974	0.629	1.095	122.5	0.6	6.53
12.36	125.1	0.8	1.16	1.9	0.0	156.375	0.639	1.096	123.6	0.7	6.59
12.37	125.3	0.81	1.16	1.9	0.0	154.691	0.646	1.097	123.8	0.7	6.66
12.38	125.6	0.81	1.16	1.9	0.0	151.515	0.661	1.098	124.1	0.8	6.73
12.39	125.4	0.84	1.16	1.9	0.0	149.286	0.67	1.099	123.9	0.7	6.82
12.40	123.7	0.87	1.16	1.9	0.0	142.184	0.703	1.1	122.1	0.7	7.19
12.41	121.8	0.89	1.16	1.9	0.0	136.854	0.731	1.101	120.2	0.8	7.5
12.42	119.1	0.91	1.16	1.9	0.0	130.879	0.764	1.102	117.6	0.8	7.88
12.43	113.2	0.94	1.16	1.9	0.0	120.426	0.833	1.103	111.6	0.9	8.78
12.44	109.7	0.96	1.16	1.9	0.0	114.271	0.875	1.104	104.7	0.9	9.31
12.45	107.6	0.97	1.16	1.9	0.0	110.928	0.901	1.105	106.0	0.9	9.69
12.46	103.9	0.99	1.16	1.9	0.0	104.949	0.953	1.106	102.4	1.0	10.34
12.47	103.0	0.99	1.16	1.9	0.0	104.04	0.961	1.107	101.4	1.0	10.51
12.48	102.6	1.0	1.17	1.9	0.0	102.6	0.975	1.108	101.0	1.0	10.57
12.49	102.3	0.99	1.18	1.9	0.0	104.242	0.959	1.109	101.6	1.0	10.47
12.50	104.3	0.99	1.18	1.9	0.0	105.354	0.949	1.11	102.8	1.0	10.29
12.51	105.5	0.99	1.18	1.9	0.0	106.566	0.938	1.111	104.0	1.0	10.07
12.52	105.5	0.99	1.18	1.9	0.0	106.566	0.938	1.112	104.0	1.0	10.07
12.53	110.3	0.95	1.19	1.9	0.0	116.105	0.861	1.113	108.8	0.9	9.22
12.54	111.7	0.94	1.18	1.9	0.0	118.83	0.842	1.114	110.1	0.9	8.97
12.55	113.5	0.92	1.18	1.9	0.0	123.37	0.811	1.115	111.9	0.8	8.58
12.56	113.7	0.91	1.17	1.9	0.0	124.945	0.8	1.116	112.1	0.8	8.5
12.57	113.4	0.9	1.17	1.9	0.0	126.0	0.794	1.117	111.8	0.8	8.49
12.58	112.5	0.9	1.18	1.9	0.0	125.0	0.8	1.118	110.9	0.8	8.57
12.59	108.8	0.89	1.17	1.9	0.0	122.247	0.818	1.119	107.3	0.8	8.99
12.60	108.8	0.89	1.17	1.9	0.0	122.247	0.818	1.112	107.3	0.8	8.99
12.61	104.0	0.9	1.17	1.9	0.0	115.556	0.865	1.113	102.5	0.9	9.68
12.62	100.2	0.91	1.17	1.9	0.0	110.11	0.908	1.122	98.7	0.9	10.31
12.63	98.6	0.92	1.17	1.9	0.0	107.174	0.933	1.123	97.1	1.0	10.61
12.64	97.7	0.92	1.17	1.9	0.0	106.196	0.942	1.124	96.1	1.0	10.8
12.65	95.9	0.93	1.18	1.9	0.0	103.118	0.97	1.125	94.4	1.0	11.13
12.66	95.2	0.93	1.18	1.9	0.0	102.366	0.977	1.126	93.7	1.0	11.26
12.67	94.7	0.93	1.18	1.9	0.0	101.828	0.982	1.127	93.5	1.0	11.33
12.68	93.7	0.93	1.18	1.9	0.0	100.753	0.993	1.128	92.2	1.0	11.51

13.73	74.2	0.88	1.24	1.8	0.0	84.318	1.186	1.233	72.7	1.3	15.16
13.74	72.0	0.88	1.24	1.8	0.0	81.818	1.222	1.234	70.4	1.3	15.68
13.75	70.1	0.87	1.25	1.8	0.0	80.575	1.241	1.235	68.6	1.3	16.11
13.76	67.0	0.85	1.25	1.8	0.0	78.824	1.269	1.236	65.4	1.3	16.8
13.77	65.7	0.83	1.25	1.8	0.0	79.157	1.263	1.237	64.1	1.3	17.02
13.78	64.8	0.82	1.26	1.8	0.0	79.024	1.265	1.238	63.3	1.3	17.16
13.79	63.9	0.8	1.27	1.8	0.0	79.875	1.252	1.239	62.4	1.3	17.26
13.80	62.8	0.78	1.28	1.8	0.0	80.513	1.242	1.24	61.2	1.3	17.34
13.81	62.4	0.76	1.28	1.8	0.0	82.105	1.218	1.241	60.8	1.3	17.31
13.82	61.5	0.73	1.29	1.8	0.0	84.247	1.187	1.242	59.9	1.3	17.26
13.83	61.3	0.71	1.29	1.8	0.0	86.338	1.158	1.243	59.7	1.3	17.11
13.84	61.0	0.7	1.29	1.8	0.0	87.143	1.148	1.244	59.4	1.2	17.02
13.85	60.8	0.68	1.29	1.8	0.0	89.412	1.118	1.245	59.2	1.2	16.9
13.86	60.4	0.65	1.29	1.8	0.0	92.923	1.076	1.246	58.9	1.2	16.68
13.87	60.2	0.64	1.29	1.8	0.0	94.063	1.063	1.247	58.7	1.1	16.6
13.88	60.0	0.62	1.29	1.8	0.0	96.774	1.033	1.248	58.5	1.1	16.43
13.89	60.0	0.62	1.29	1.8	0.0	96.774	1.033	1.249	58.5	1.1	16.33
13.90	60.0	0.62	1.29	1.8	0.0	96.774	1.033	1.25	58.5	1.1	16.33
13.91	59.9	0.6	1.29	1.8	0.0	99.833	1.002	1.251	58.4	1.1	16.19
13.92	60.2	0.59	1.30	1.8	0.0	102.034	0.98	1.252	58.7	1.0	15.93
13.93	60.6	0.58	1.30	1.8	0.0	104.483	0.957	1.253	59.0	1.0	15.71
13.94	61.4	0.57	1.30	1.8	0.0	107.719	0.928	1.254	59.8	1.0	15.34
13.95	62.1	0.57	1.31	1.8	0.0	108.947	0.918	1.255	60.5	1.0	15.08
13.96	62.8	0.57	1.31	1.8	0.0	110.175	0.908	1.256	61.2	1.0	14.85
13.97	63.7	0.56	1.31	1.8	0.0	113.75	0.879	1.257	62.2	0.9	14.52
13.98	65.8	0.56	1.32	1.8	0.0	117.5	0.851	1.258	62.9	0.9	13.89
13.99	67.1	0.56	1.31	1.8	0.0	119.821	0.835	1.259	65.5	0.9	13.52
14.00	70.0	0.55	1.32	1.8	0.0	127.636	0.783	1.26	68.2	0.8	13.26
14.01	72.0	0.55	1.32	1.8	0.0	130.909	0.764	1.261	70.4	0.8	12.28
14.02	74.0	0.55	1.32	1.8	0.0	134.545	0.743	1.262	72.5	0.8	11.83
14.03	76.3	0.55	1.32	1.8	0.0	138.727	0.721	1.263	74.7	0.8	11.35
14.04	81.6	0.55	1.32	1.8	0.0	148.364	0.674	1.264	80.0	0.7	10.31
14.05	81.6	0.55	1.32	1.8	0.0	148.364	0.674	1.265	80.0	0.7	10.31
14.06	81.6	0.55	1.32	1.8	0.0	148.364	0.674	1.266	80.0	0.7	10.31
14.07	93.7	0.47	1.33	1.8	0.0	199.362	0.502	1.267	92.2	0.5	7.56
14.08	96.4	0.48	1.32	1.8	0.0	200.833	0.498	1.268	94.8	0.5	7.31
14.09	98.7	0.49	1.32	1.8	0.0	201.429	0.496	1.269	97.2	0.5	7.14
14.10	100.6	0.51	1.33	1.8	0.0	197.255	0.507	1.27	99.1	0.5	7.05
14.11	104.3	0.54	1.33	1.8	0.0	193.148	0.518	1.271	102.8	0.5	6.91
14.12	106.7	0.56	1.33	1.8	0.0	190.536	0.525	1.272	105.1	0.5	6.8
14.13	111.9	0.59	1.33	1.8	0.0	189.661	0.527	1.273	103.3	0.6	6.5
14.14	114.1	0.61	1.34	1.8	0.0	187.049	0.535	1.274	112.6	0.6	6.4
14.15	115.7	0.63	1.34	1.8	0.0	183.651	0.545	1.275	114.2	0.6	6.39
14.16	117.2	0.67	1.34	1.8	0.0	174.925	0.572	1.276	115.6	0.6	6.52
14.17	117.2	0.69	1.33	1.8	0.0	169.855	0.589	1.277	115.6	0.6	6.67
14.18	117.2	0.71	1.33	1.8	0.0	165.07	0.606	1.278	115.6	0.6	6.82
14.19	117.5	0.75	1.33	1.8	0.0	156.667	0.638	1.279	115.9	0.7	7.06
14.20	117.7	0.77	1.33	1.8	0.0	152.857	0.654	1.28	116.1	0.7	7.19
14.21	117.9	0.8	1.33	1.8	0.0	147.375	0.679	1.281	116.3	0.7	7.31
14.22	117.8	0.82	1.34	1.8	0.0	143.659	0.696	1.282	116.2	0.7	7.46
14.23	117.4	0.85	1.34	1.8	0.0	138.118	0.724	1.283	115.8	0.8	7.73
14.24	116.9	0.87	1.35	1.8	0.0	134.368	0.744	1.284	115.3	0.8	7.92
14.25	114.4	0.91	1.34	1.8	0.0	125.714	0.795	1.285	112.9	0.8	8.45
14.26	112.9	0.93	1.34	1.8	0.0	121.398	0.824	1.286	111.3	0.9	8.75
14.27	111.5	0.94	1.34	1.8	0.0	118.617	0.843	1.287	109.9	0.9	9
14.28	111.5	0.94	1.34	1.8	0.0	118.617	0.843	1.288	109.9	0.9	9
14.29	110.2	0.96	1.35	1.8	0.0	114.792	0.871	1.289	108.7	0.9	9.33
14.30	109.6	0.95	1.35	1.8	0.0	114.792	0.871	1.29	108.7	0.9	9.33
14.31	107.9	0.96	1.34	1.8	0.0	112.396	0.89	1.291	106.3	0.9	9.64
14.32	106.6	0.96	1.34	1.8	0.0	110.417	0.906	1.292	104.4	0.9	9.87
14.33	101.1	0.96	1.34	1.8	0.0	105.313	0.95	1.293	99.5	1.0	10.58
14.34	101.1	0.96	1.34	1.8	0.0	105.313	0.95	1.294	99.5	1.0	10.58
14.35	97.0	0.96	1.34	1.8	0.0	101.042	0.99	1.295	95.4	1.0	11.24
14.36	95.6	0.95	1.35	1.8	0.0	99.583	1.004	1.296	94.1	1.1	11.48
14.37	95.0	0.96	1.36	1.8	0.0	98.958	1.011	1.297	93.5	1.1	11.52
14.38	95.5	0.95	1.37	1.8	0.0	100.526	0.995	1.298	94.0	1.0	11.37
14.39	97.0	0.94	1.37	1.8	0.0	103.191	0.969	1.299	95.4	1.0	11.05
14.40	99.2	0.93	1.36	1.8	0.0	106.667	0.938	1.3	97.7	1.0	10.62
14.41	105.2	0.9	1.37	1.8	0.0	116.889	0.856	1.301	103.3	0.9	9.6
14.42	108.6	0.9	1.36	1.8	0.0	120.667	0.829	1.302	107.0	0.9	9.1

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14.43	113.7	0.88	1.36	1.8	0.0	129.205	0.774	1.303	112.1	0.8	8.35
14.44	114.9	0.87	1.36	1.8	0.0	132.069	0.757	1.304	113.4	0.8	8.13
14.45	115.3	0.86	1.36	1.8	0.0	134.07	0.746	1.305	113.8	0.8	8.02
14.46	115.5	0.85	1.36	1.8	0.0	135.882	0.736	1.306	114.0	0.8	7.93
14.47	114.5	0.84	1.37	1.8	0.0	136.371	0.734	1.307	113.0	0.8	7.96
14.48	113.6	0.84	1.37	1.8	0.0	135.238	0.739	1.308	112.0	0.8	8.08
14.49	110.8	0.84	1.36	1.8	0.0	131.905	0.758	1.309	109.3	0.8	8.45
14.50	108.8	0.85	1.36	1.8	0.0	128.0	0.781	1.31	107.3	0.8	8.72
14.51	106.4	0.85	1.36	1.8	0.0	125.176	0.799	1.311	104.8	0.8	9.07
14.52	99.8	0.87	1.35	1.8	0.0	114.713	0.872	1.312	98.3	0.9	10.09
14.53	96.0	0.88	1.34	1.8	0.0	109.091	0.917	1.313	94.4	1.0	10.76
14.54	91.7	0.89	1.33	1.8	0.0	103.034	0.971	1.314	90.1	1.0	11.57
14.55	87.6	0.89	1.33	1.8	0.0	98.427	1.016	1.315	86.0	1.1	12.38
14.56	79.8	0.91	1.32	1.8	0.0	87.692	1.14	1.316	78.3	1.2	14.06
14.57	76.5	0.91	1.32	1.8	0.0	84.066	1.19	1.317	74.9	1.2	14.84
14.58	70.7	0.89	1.33	1.8	0.0	79.438	1.259	1.318	69.1	1.3	16.23
14.59	70.7	0.89	1.33	1.8	0.0	79.438	1.259	1.319	69.1	1.3	16.23
14.60	66.4	0.87	1.33	1.8	0.0	76.322	1.31	1.32	64.8	1.4	17.25
14.61	64.7	0.86	1.34	1.8	0.0	75.233	1.329	1.321	63.2	1.4	17.63
14.62	62.5	0.83	1.35	1.8	0.0	75.301	1.328	1.322	60.9	1.4	18.04
14.63	61.5	0.81	1.35	1.8	0.0	75.926	1.317	1.323	59.9	1.4	18.17
14.64	59.9	0.77	1.36	1.8	0.0	77.792	1.285	1.324	58.4	1.4	18.31
14.65	59.9	0.77	1.36	1.8	0.0	77.792	1.285	1.325	58.4	1.4	18.31
14.66	58.8	0.74	1.37	1.8	0.0	79.459	1.259	1.326	57.3	1.3	18.24
14.67	58.4	0.71	1.37	1.8	0.0	82.254	1.216	1.327	56.9	1.3	18.11
14.68	57.6	0.67	1.37	1.8	0.0	85.97	1.163	1.328	56.0	1.3	17.93
14.69	57.3	0.66	1.38	1.8	0.0	86.818	1.152	1.329	55.7	1.2	17.81
14.70	57.2	0.64	1.38	1.8	0.0	89.375	1.119	1.33	55.3	1.2	17.62
14.71	57.4	0.6	1.38	1.8	0.0	95.667	1.045	1.331	55.8	1.1	17.09
14.72	57.6	0.59	1.37	1.8	0.0	97.627	1.024	1.332	56.0	1.1	16.88
14.73	57.9	0.58	1.37	1.8	0.0	99.828	1.002	1.333	56.3	1.1	16.61
14.74	58.2	0.56	1.37	1.8	0.0	103.929	0.962	1.334	56.7	1.0	16.2
14.75	58.5	0.55	1.38	1.8	0.0	106.364	0.94	1.335	57.0	1.0	15.95
14.76	58.8	0.54	1.39	1.8	0.0	108.889	0.918	1.336	57.9	1.0	15.67
14.77	59.3	0.51	1.39	1.8	0.0	116.275	0.86	1.337	57.8	0.9	15.19
14.78	59.7	0.5	1.39	1.8	0.0	119.4	0.838	1.338	58.2	0.9	14.94
14.79	60.1	0.5	1.39	1.8	0.0	120.972	0.832	1.339	58.6	0.9	14.72
14.80	60.6	0.49	1.39	1.8	0.0	123.673	0.809	1.34	59.4	0.9	14.44
14.81	62.3	0.48	1.39	1.8	0.0	129.102	0.77	1.341	60.7	0.8	13.82
14.82	63.7	0.48	1.39	1.8	0.0	132.708	0.754	1.342	62.2	0.8	13.37
14.83	67.7	0.47	1.40	1.8	0.0	144.043	0.694	1.343	66.1	0.7	12.28
14.84	67.7	0.47	1.40	1.8	0.0	144.043	0.694	1.344	66.1	0.7	12.28
14.85	73.3	0.47	1.40	1.8	0.0	155.957	0.641	1.345	71.7	0.7	10.97
14.86	77.7	0.46	1.40	1.8	0.0	167.826	0.596	1.346	75.6	0.6	10.13
14.87	87.6	0.45	1.40	1.8	0.0	194.667	0.51	1.347	86.5	0.5	8.23
14.88	93.5	0.45	1.40	1.8	0.0	207.778	0.481	1.348	92.0	0.5	7.35
14.89	107.7	0.45	1.39	1.8	0.0	239.333	0.419	1.349	106.1	0.4	5.7
14.90	115.5	0.45	1.37	1.8	0.0	256.667	0.38	1.35	114.0	0.4	4.95
14.91	123.4	0.45	1.35	1.8	0.0	274.222	0.365	1.351	121.4	0.4	4.3
14.92	137.2	0.45	1.33	1.7	0.0	304.889	0.329	1.352	135.6	0.3	3.33
14.93	143.4	0.46	1.37	1.7	0.0	311.739	0.321	1.353	138.8	0.3	2.98
14.94	148.5	0.47	1.35	1.7	0.0	315.957	0.316	1.354	146.9	0.3	2.75
14.95	155.8	0.49	1.37	1.7	0.0	317.959	0.315	1.355	154.3	0.3	2.49
14.96	157.7	0.51	1.38	1.7	0.0	309.216	0.323	1.356	161.3	0.3	2.52
14.97	158.4	0.54	1.37	1.7	0.0	293.333	0.341	1.357	156.8	0.4	2.65
14.98	158.1	0.61	1.39	1.7	0.0	259.18	0.386	1.358	156.5	0.4	3.07
14.99	157.1	0.69	1.40	1.7	0.0	241.67	0.441	1.359	155.5	0.4	3.33
15.00	156.6	0.69	1.40	1.7	0.0	226.957	0.441	1.36	155.0	0.5	3.59
15.01	155.4	0.78	1.40	1.7	0.0	199.231	0.502	1.361	153.9	0.5	4.13
15.02	154.1	0.82	1.41	1.7	0.0	187.927	0.532	1.362	152.5	0.6	4.43
15.03	152.2	0.86	1.40	1.7	0.0	176.977	0.565	1.363	150.6	0.6	4.77
15.04	149.9	0.91	1.41	1.7	0.0	164.725	0.607	1.364	148.6	0.6	5.15
15.05	149.9	0.91	1.41	1.7	0.0	164.725	0.607	1.364	148.6	0.6	5.15
15.06	149.9	0.91	1.41	1.7	0.0	164.725	0.607	1.366	148.4	0.6	5.15
15.07	134.9	0.89	1.43	1.8	0.0	151.573	0.66	1.367	133.4	0.7	6.26
15.08	133.3	0.92	1.42	1.7	0.0	144.891	0.69	1.368	131.7	0.7	6.58
15.09	131.9	0.95	1.42	1.7	0.0	138.842	0.72	1.369	130.3	0.8	6.9
15.10	129.1	1.01	1.42	1.7	0.0	127.822	0.816	1.37	127.6	0.8	7.48
15.11	127.5	1.03	1.43	1.7	0.0	123.708	0.891	1.371	126.3	0.8	7.95
15.12	126.2	1.03	1.43	1.7	0.0	122.574	0.882	1.372	124.6	0.8	7.91

16.53	109.6	0.75	1.57	1.8	0.0	146.133	0.684	1.513	108.1	0.7	7.95
16.54	112.2	0.76	1.57	1.8	0.0	147.632	0.677	1.514	108.6	0.7	7.69
16.55	114.6	0.76	1.57	1.8	0.0	150.789	0.663	1.515	113.1	0.7	7.45
16.56	118.5	0.77	1.57	1.8	0.0	153.896	0.655	1.516	116.9	0.7	7.13
16.57	119.4	0.77	1.56	1.8	0.0	153.077	0.653	1.517	117.3	0.7	7.07
16.58	119.3	0.79	1.57	1.8	0.0	151.013	0.662	1.518	117.8	0.7	7.13
16.59	117.8	0.81	1.57	1.8	0.0	145.432	0.688	1.519	116.2	0.7	7.48
16.60	116.6	0.83	1.56	1.8	0.0	140.482	0.712	1.52	115.0	0.7	7.71
16.61	115.1	0.85	1.56	1.8	0.0	135.412	0.738	1.521	113.6	0.8	8.01
16.62	112.8	0.89	1.56	1.8	0.0	126.742	0.789	1.522	111.2	0.8	8.57
16.63	111.7	0.91	1.57	1.8	0.0	122.747	0.815	1.523	110.1	0.7	8.87
16.64	111.1	0.92	1.57	1.8	0.0	120.761	0.828	1.524	109.5	0.9	8.96
16.65	110.4	0.94	1.58	1.8	0.0	117.447	0.851	1.525	108.9	0.9	9.17
16.66	110.3	0.95	1.57	1.8	0.0	116.105	0.861	1.526	108.8	0.9	9.24
16.67	110.2	0.95	1.57	1.8	0.0	116.0	0.862	1.527	108.7	0.9	9.3
16.68	110.1	0.97	1.57	1.8	0.0	113.505	0.881	1.528	108.6	0.9	9.4
16.69	110.1	0.97	1.57	1.8	0.0	113.505	0.881	1.529	108.6	0.9	9.4
16.70	110.1	0.97	1.57	1.8	0.0	113.505	0.881	1.53	108.6	0.9	9.44
16.71	110.4	0.98	1.57	1.8	0.0	112.653	0.888	1.531	108.9	0.9	9.45
16.72	110.6	0.98	1.58	1.8	0.0	112.857	0.886	1.532	109.1	0.9	9.42
16.73	110.8	0.98	1.58	1.8	0.0	113.061	0.884	1.533	109.2	0.9	9.38
16.74	110.9	0.96	1.59	1.8	0.0	115.521	0.866	1.534	109.3	0.9	9.28
16.75	110.8	0.96	1.59	1.8	0.0	115.417	0.866	1.535	109.2	0.9	9.24
16.76	110.5	0.95	1.59	1.8	0.0	116.316	0.86	1.536	109.0	0.9	9.23
16.77	110.0	0.94	1.59	1.8	0.0	117.021	0.855	1.537	108.5	0.9	9.22
16.78	109.7	0.94	1.59	1.8	0.0	116.702	0.857	1.538	108.2	0.9	9.25
16.79	109.8	0.94	1.59	1.8	0.0	116.809	0.856	1.539	108.3	0.9	9.23
16.80	111.3	0.95	1.60	1.8	0.0	119.677	0.836	1.54	109.6	0.9	9.36
16.81	112.6	0.92	1.60	1.8	0.0	122.391	0.817	1.541	111.0	0.9	8.81
16.82	113.7	0.92	1.60	1.8	0.0	123.587	0.809	1.542	112.2	0.8	8.65
16.83	116.2	0.91	1.59	1.8	0.0	127.692	0.783	1.543	114.6	0.8	8.29
16.84	117.0	0.91	1.60	1.8	0.0	128.571	0.778	1.544	115.4	0.8	8.18
16.85	117.5	0.9	1.59	1.8	0.0	130.556	0.766	1.545	115.9	0.8	8.1
16.86	118.5	0.9	1.60	1.8	0.0	131.667	0.759	1.546	116.9	0.8	7.99
16.87	118.8	0.91	1.60	1.8	0.0	130.549	0.766	1.547	117.3	0.8	7.96
16.88	119.1	0.91	1.60	1.8	0.0	130.879	0.764	1.548	117.6	0.8	7.94
16.89	118.9	0.91	1.60	1.8	0.0	130.659	0.765	1.549	117.4	0.8	7.99
16.90	118.1	0.92	1.60	1.8	0.0	128.37	0.779	1.55	116.5	0.8	8.11
16.91	114.4	0.93	1.60	1.8	0.0	123.011	0.813	1.551	112.9	0.8	8.6
16.92	112.2	0.93	1.60	1.8	0.0	120.645	0.829	1.552	110.6	0.9	8.9
16.93	110.1	0.93	1.59	1.8	0.0	118.387	0.845	1.553	108.6	0.9	9.18
16.94	108.5	0.94	1.59	1.8	0.0	115.426	0.866	1.554	106.9	0.9	9.43
16.95	106.0	0.95	1.60	1.8	0.0	111.579	0.896	1.555	104.4	0.9	9.83
16.96	105.4	0.95	1.60	1.8	0.0	110.947	0.901	1.556	103.9	0.9	9.92
16.97	104.7	0.95	1.61	1.8	0.0	110.211	0.907	1.557	103.2	1.0	10.04
16.98	104.7	0.95	1.61	1.8	0.0	110.211	0.907	1.558	103.2	1.0	10.04
16.99	104.6	0.95	1.61	1.8	0.0	110.105	0.908	1.559	103.1	1.0	10.04
17.00	104.5	0.95	1.60	1.8	0.0	110.0	0.909	1.56	103.0	0.9	10.03
17.01	103.8	0.94	1.59	1.8	0.0	110.426	0.906	1.561	102.3	0.9	10.08
17.02	103.3	0.94	1.60	1.8	0.0	109.894	0.91	1.562	101.7	1.0	10.16
17.03	101.4	0.93	1.62	1.8	0.0	109.032	0.917	1.563	99.8	1.0	10.37
17.04	101.4	0.93	1.62	1.8	0.0	109.032	0.917	1.564	99.8	1.0	10.37
17.05	101.4	0.93	1.62	1.8	0.0	109.032	0.917	1.565	99.8	1.0	10.37
17.06	101.4	0.93	1.62	1.8	0.0	109.032	0.917	1.566	99.8	1.0	10.37
17.07	95.8	0.78	1.62	1.8	0.0	122.821	0.814	1.567	94.2	0.9	10.1
17.08	95.0	0.79	1.61	1.8	0.0	120.253	0.832	1.568	93.5	0.9	10.28
17.09	91.5	0.81	1.59	1.8	0.0	112.963	0.885	1.569	89.9	0.9	11.05
17.10	89.2	0.82	1.59	1.8	0.0	108.78	0.919	1.57	87.7	1.0	11.55
17.11	84.2	0.84	1.58	1.8	0.0	100.238	0.998	1.571	82.7	1.1	12.67
17.12	82.1	0.85	1.58	1.8	0.0	96.588	1.035	1.572	80.5	1.1	13.17
17.13	80.6	0.85	1.59	1.8	0.0	94.824	1.055	1.573	79.0	1.1	13.52
17.14	79.7	0.86	1.59	1.8	0.0	92.674	1.079	1.574	78.2	1.1	13.72
17.15	80.0	0.85	1.62	1.8	0.0	94.118	1.063	1.575	78.5	1.1	13.65
17.16	81.1	0.85	1.63	1.8	0.0	95.412	1.048	1.576	79.5	1.1	13.38
17.17	85.2	0.83	1.63	1.8	0.0	102.651	0.974	1.577	83.7	1.0	12.36
17.18	88.0	0.82	1.63	1.8	0.0	107.317	0.932	1.578	86.4	1.0	11.74
17.19	90.8	0.81	1.63	1.8	0.0	112.099	0.892	1.579	89.2	0.9	11.15
17.20	93.5	0.8	1.62	1.8	0.0	116.875	0.856	1.58	92.0	0.9	10.63
17.21	98.6	0.79	1.58	1.8	0.0	124.81	0.801	1.581	97.1	0.9	9.71
17.22	100.5	0.78	1.56	1.8	0.0	128.846	0.776	1.582	99.0	0.8	9.38

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17.23	102.7	0.77	1.54	1.8	0.0	133.377	0.75	1.583	101.1	0.8	8.97
17.24	103.4	0.76	1.57	1.8	0.0	136.053	0.735	1.584	101.8	0.8	8.84
17.25	103.8	0.75	1.60	1.8	0.0	138.4	0.723	1.585	102.3	0.8	8.73
17.26	103.8	0.75	1.60	1.8	0.0	138.4	0.723	1.586	102.3	0.8	8.73
17.27	103.7	0.73	1.60	1.8	0.0	136.570	0.732	1.587	103.0	0.8	8.78
17.28	103.7	0.76	1.61	1.8	0.0	136.447	0.733	1.588	102.2	0.8	8.8
17.29	103.7	0.78	1.62	1.8	0.0	132.949	0.752	1.589	102.2	0.8	8.96
17.30	103.8	0.8	1.63	1.8	0.0	129.75	0.771	1.59	102.3	0.8	9.04
17.31	104.2	0.81	1.63	1.8	0.0	128.642	0.777	1.591	102.7	0.8	9.09
17.32	104.6	0.82	1.64	1.8	0.0	127.561	0.784	1.592	103.1	0.8	9.11
17.33	106.0	0.84	1.65	1.8	0.0	126.19	0.792	1.593	104.0	0.8	9.09
17.34	106.6	0.85	1.64	1.8	0.0	125.412	0.797	1.594	105.0	0.8	9.09
17.35	107.0	0.87	1.63	1.8	0.0	122.989	0.813	1.595	105.4	0.9	9.17
17.36	107.1	0.88	1.64	1.8	0.0	121.705	0.822	1.596	105.5	0.9	9.25
17.37	107.5	0.89	1.64	1.8	0.0	120.787	0.828	1.597	105.9	0.9	9.26
17.38	107.8	0.89	1.64	1.8	0.0	119.778	0.835	1.598	106.2	0.9	9.29
17.39	108.3	0.91	1.64	1.8	0.0	119.011	0.84	1.599	106.7	0.9	9.27
17.40	107.9	0.91	1.64	1.8	0.0	118.571	0.843	1.6	106.3	0.9	9.33
17.41	106.6	0.91	1.65	1.8	0.0	117.143	0.854	1.601	105.0	0.9	9.49
17.42	105.8	0.91	1.65	1.8	0.0	116.264	0.86	1.602	104.2	0.9	9.57
17.43	105.4	0.9	1.65	1.8	0.0	117.111	0.854	1.603	103.9	0.9	9.61
17.44	104.1	0.9	1.65	1.8	0.0	115.667	0.865	1.604	102.6	0.9	9.76
17.45	103.2	0.9	1.65	1.8	0.0	114.667	0.872	1.605	101.6	0.9	9.9
17.46	102.1	0.9	1.66	1.8	0.0	113.444	0.881	1.606	100.5	0.9	10.07
17.47	100.0	0.9	1.65	1.8	0.0	111.111	0.9	1.607	98.5	0.9	10.37
17.48	98.4	0.9	1.65	1.8	0.0	109.333	0.915	1.608	96.8	1.0	10.62
17.49	96.8	0.9	1.65	1.8	0.0	107.556	0.93	1.609	95.2	1.0	10.87
17.50	93.6	0.9	1.66	1.8	0.0	104.0	0.962	1.61	92.1	1.0	11.36
17.51	92.3	0.89	1.65	1.8	0.0	103.708	0.964	1.611	90.7	1.0	11.58
17.52	91.0	0.89	1.65	1.8	0.0	102.247	0.978	1.612	89.4	1.0	11.77
17.53	88.8	0.88	1.65	1.8	0.0	100.909	0.991	1.613	87.3	1.1	12.11
17.54	88.0	0.88	1.65	1.8	0.0	100.0	1.0	1.614	86.4	1.1	12.25
17.55	87.3	0.88	1.66	1.8	0.0	99.205	1.008	1.615	85.7	1.1	12.36
17.56	86.2	0.87	1.66	1.8	0.0	99.08	1.009	1.616	84.6	1.1	12.5
17.57	86.2	0.87	1.66	1.8	0.0	99.08	1.009	1.617	84.6	1.1	12.5
17.58	86.0	0.85	1.67	1.8	0.0	101.176	0.988	1.618	84.1	1.1	12.41
17.59	86.3	0.84	1.67	1.8	0.0	102.738	0.973	1.619	84.7	1.0	12.28
17.60	88.1	0.83	1.67	1.8	0.0	106.145	0.942	1.62	86.5	1.0	11.82
17.61	89.6	0.82	1.67	1.8	0.0	109.268	0.915	1.621	88.1	1.0	11.46
17.62	93.9	0.8	1.69	1.8	0.0	117.375	0.852	1.622	92.4	0.9	10.56
17.63	96.2	0.79	1.69	1.8	0.0	121.772	0.821	1.623	94.6	0.9	10.13
17.64	98.0	0.78	1.69	1.8	0.0	125.641	0.796	1.624	96.4	0.8	9.8
17.65	98.8	0.78	1.68	1.8	0.0	126.795	0.789	1.625	97.4	0.8	9.6
17.66	99.7	0.77	1.68	1.8	0.0	127.912	0.782	1.626	98.2	0.8	9.49
17.67	100.1	0.77	1.68	1.8	0.0	130.0	0.778	1.627	98.6	0.8	9.37
17.68	101.7	0.77	1.68	1.8	0.0	132.078	0.757	1.628	100.1	0.8	9.16
17.69	103.1	0.77	1.68	1.8	0.0	133.896	0.747	1.629	101.5	0.8	8.95
17.70	104.7	0.77	1.69	1.9	0.0	135.974	0.735	1.63	103.2	0.8	8.74
17.71	106.7	0.77	1.70	1.8	0.0	138.571	0.722	1.631	105.1	0.8	8.5
17.72	109.7	0.77	1.71	1.8	0.0	140.641	0.71	1.632	108.2	0.7	8.15
17.73	110.9	0.78	1.70	1.8	0.0	142.179	0.703	1.633	109.3	0.7	8.03
17.74	111.4	0.79	1.67	1.8	0.0	141.013	0.709	1.634	109.8	0.7	8.04
17.75	110.6	0.8	1.67	1.8	0.0	138.25	0.723	1.635	109.1	0.8	8.22
17.76	109.3	0.81	1.67	1.8	0.0	134.938	0.741	1.636	107.8	0.8	8.46
17.77	107.8	0.83	1.67	1.8	0.0	129.88	0.77	1.637	106.2	0.8	8.75
17.78	103.9	0.85	1.68	1.8	0.0	122.335	0.818	1.638	102.7	0.9	9.43
17.79	102.2	0.86	1.68	1.8	0.0	118.837	0.841	1.639	100.0	0.9	9.74
17.80	100.6	0.86	1.68	1.8	0.0	116.977	0.855	1.64	99.0	0.9	10.0
17.81	98.1	0.86	1.69	1.8	0.0	114.07	0.877	1.641	96.5	0.9	10.4
17.82	97.1	0.87	1.69	1.8	0.0	111.609	0.896	1.642	95.5	0.9	10.58
17.83	96.4	0.87	1.68	1.8	0.0	110.805	0.902	1.643	94.8	1.0	10.72
17.84	95.6	0.88	1.68	1.8	0.0	107.416	0.931	1.644	94.0	1.0	10.97
17.85	95.6	0.9	1.69	1.9	0.0	106.222	0.941	1.645	94.0	1.0	11.04
17.86	96.5	0.9	1.69	1.8	0.0	107.222	0.933	1.646	94.0	1.0	10.96
17.87	97.5	0.9	1.70	1.8	0.0	108.333	0.923	1.647	95.9	1.0	10.77
17.88	98.7	0.89	1.70	1.8	0.0	110.899	0.902	1.648	97.2	1.0	10.51
17.89	101.0	0.88	1.70	1.8	0.0	113.977	0.877	1.649	98.8	0.9	10.17
17.90	103.3	0.85	1.71	1.8	0.0	121.529	0.823	1.65	101.7	0.9	9.53
17.91	104.0	0.84	1.71	1.8	0.0	123.81	0.808	1.651	102.5	0.9	9.36
17.92	105.1	0.83	1.70	1.8	0.0	126.627	0.79	1.652	103.6	0.9	9.17

19.33	99.1	0.93	1.83	1.9	0.0	106.559	0.938	1.793	97.6	1.0	10.76
19.34	97.7	0.94	1.83	1.9	0.0	103.936	0.962	1.794	96.1	1.0	11.05
19.35	96.5	0.95	1.82	1.9	0.0	101.579	0.984	1.795	94.9	1.0	11.31
19.36	95.6	0.95	1.83	1.9	0.0	100.526	0.995	1.796	93.9	1.1	11.5
19.37	95.2	0.95	1.84	1.9	0.0	99.167	1.008	1.797	93.7	1.1	11.6
19.38	95.5	0.95	1.85	1.9	0.0	100.526	0.995	1.798	93.9	1.1	11.51
19.39	96.4	0.94	1.85	1.9	0.0	102.553	0.975	1.799	94.8	1.0	11.3
19.40	97.9	0.93	1.86	1.9	0.0	105.269	0.95	1.8	96.3	1.0	10.96
19.41	101.8	0.91	1.85	1.9	0.0	111.868	0.894	1.801	102.2	0.9	10.2
19.42	104.1	0.9	1.85	1.9	0.0	115.667	0.865	1.802	106.6	0.9	9.81
19.43	108.0	0.9	1.85	1.9	0.0	120.0	0.833	1.803	106.5	0.9	9.25
19.44	109.1	0.9	1.85	1.9	0.0	121.222	0.825	1.804	107.6	0.9	9.1
19.45	109.6	0.9	1.86	1.9	0.0	121.778	0.821	1.805	108.1	0.9	9.05
19.46	109.8	0.9	1.85	1.9	0.0	122.0	0.82	1.806	108.3	0.9	9.03
19.47	109.7	0.9	1.86	1.9	0.0	121.889	0.82	1.807	108.2	0.9	9.05
19.48	109.8	0.9	1.87	1.9	0.0	121.778	0.821	1.808	108.1	0.9	9.04
19.49	109.6	0.9	1.87	1.9	0.0	121.778	0.821	1.809	108.1	0.9	9.04
19.50	112.6	0.89	1.88	1.9	0.0	126.517	0.79	1.81	111.0	0.8	8.62
19.51	114.0	0.89	1.87	1.9	0.0	128.09	0.781	1.811	112.5	0.8	8.44
19.52	115.2	0.89	1.88	1.9	0.0	129.438	0.773	1.812	113.7	0.8	8.32
19.53	116.1	0.9	1.87	1.9	0.0	129.0	0.775	1.813	114.5	0.8	8.25
19.54	116.9	0.92	1.87	1.9	0.0	127.065	0.787	1.814	115.3	0.8	8.28
19.55	116.8	0.93	1.86	1.9	0.0	125.591	0.796	1.815	115.2	0.8	8.37
19.56	116.6	0.95	1.86	1.9	0.0	122.737	0.815	1.816	115.0	0.9	8.54
19.57	116.5	0.96	1.86	1.9	0.0	121.354	0.824	1.817	114.9	0.9	8.61
19.58	116.3	0.97	1.87	1.9	0.0	119.897	0.834	1.818	114.7	0.9	8.68
19.59	116.4	0.97	1.88	1.9	0.0	120.0	0.833	1.819	114.8	0.9	8.7
19.60	117.8	0.98	1.88	1.9	0.0	119.49	0.837	1.82	115.5	0.9	8.64
19.61	118.8	0.97	1.88	1.9	0.0	122.474	0.816	1.821	117.3	0.9	8.42
19.62	119.6	0.98	1.88	1.9	0.0	122.041	0.819	1.822	118.1	0.9	8.35
19.63	120.5	0.99	1.88	1.9	0.0	121.717	0.822	1.823	119.0	0.9	8.31
19.64	120.6	1.0	1.87	1.9	0.0	120.6	0.829	1.824	119.0	0.9	8.36
19.65	120.8	1.01	1.87	1.9	0.0	119.604	0.836	1.825	119.2	0.9	8.39
19.66	120.9	1.01	1.88	1.9	0.0	119.703	0.835	1.826	119.3	0.9	8.41
19.67	121.4	1.02	1.89	1.9	0.0	119.02	0.84	1.827	119.8	0.9	8.39
19.68	121.3	1.02	1.89	1.9	0.0	118.922	0.841	1.828	119.7	0.9	8.42
19.69	120.9	1.02	1.89	1.9	0.0	118.529	0.844	1.829	119.3	0.9	8.46
19.70	120.7	1.02	1.88	1.9	0.0	118.333	0.845	1.83	119.1	0.9	8.47
19.71	121.7	1.01	1.88	1.9	0.0	120.495	0.83	1.831	120.1	0.9	8.34
19.72	123.0	1.01	1.88	1.9	0.0	121.782	0.821	1.832	121.4	0.9	8.19
19.73	126.9	1.01	1.89	1.9	0.0	125.644	0.796	1.833	125.3	0.8	7.75
19.74	126.9	1.01	1.89	1.9	0.0	125.644	0.796	1.834	125.3	0.8	7.75
19.75	129.3	1.01	1.90	1.9	0.0	128.02	0.781	1.835	127.8	0.8	7.49
19.76	128.6	1.0	1.90	1.9	0.0	128.6	0.778	1.836	127.0	0.8	7.55
19.77	126.9	1.0	1.89	1.9	0.0	126.9	0.788	1.837	125.3	0.8	7.72
19.78	125.1	1.01	1.89	1.9	0.0	123.861	0.807	1.838	123.6	0.9	7.92
19.79	122.6	1.0	1.89	1.9	0.0	122.6	0.816	1.839	121.0	0.9	8.19
19.80	118.8	1.01	1.89	1.9	0.0	117.624	0.85	1.84	117.2	0.9	8.64
19.81	117.3	1.01	1.89	1.9	0.0	116.139	0.861	1.841	115.7	0.9	8.84
19.82	116.1	1.01	1.90	1.9	0.0	114.95	0.87	1.842	115.5	0.9	8.99
19.83	114.7	1.01	1.90	1.9	0.0	113.564	0.881	1.843	113.2	0.9	9.17
19.84	114.4	1.01	1.90	1.9	0.0	113.267	0.883	1.844	112.9	0.9	9.12
19.85	114.1	1.01	1.90	1.9	0.0	112.97	0.885	1.845	112.6	0.9	9.23
19.86	113.7	1.02	1.89	1.9	0.0	111.471	0.897	1.846	112.2	0.9	9.3
19.87	112.3	1.02	1.89	1.9	0.0	110.098	0.908	1.847	110.7	1.0	9.51
19.88	111.5	1.02	1.89	1.9	0.0	109.314	0.915	1.848	109.9	1.0	9.63
19.89	111.0	1.02	1.89	1.9	0.0	108.824	0.91	1.849	109.4	1.0	9.69
19.90	111.3	1.01	1.90	1.9	0.0	110.198	0.907	1.85	109.7	1.0	9.61
19.91	111.9	1.0	1.90	1.9	0.0	111.9	0.894	1.851	110.3	0.9	9.47
19.92	112.9	0.99	1.90	1.9	0.0	114.04	0.877	1.852	111.3	0.9	9.25
19.93	115.8	0.96	1.91	1.9	0.0	120.625	0.829	1.853	114.2	0.9	8.7
19.94	117.3	0.95	1.91	1.9	0.0	123.474	0.81	1.854	115.7	0.9	8.45
19.95	119.0	0.94	1.90	1.9	0.0	126.596	0.79	1.855	117.5	0.8	8.19
19.96	122.0	0.92	1.92	1.9	0.0	132.609	0.754	1.856	120.4	0.7	7.66
19.97	123.7	0.92	1.92	1.9	0.0	134.457	0.744	1.857	122.1	0.8	7.55
19.98	125.3	0.91	1.92	1.9	0.0	137.692	0.726	1.858	123.8	0.8	7.34
19.99	127.1	0.91	1.92	1.9	0.0	139.67	0.716	1.859	125.5	0.7	7.14
20.00	131.2	0.89	1.92	1.9	0.0	147.416	0.678	1.86	129.6	0.7	6.66
20.01	131.2	0.89	1.92	1.9	0.0	147.416	0.678	1.861	129.6	0.7	6.66
20.02	133.9	0.88	1.92	1.9	0.0	152.159	0.657	1.862	132.4	0.7	6.36

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20.03	135.2	0.88	1.92	1.9	0.0	153.636	0.651	1.863	133.7	0.7	6.25
20.04	135.6	0.89	1.92	1.9	0.0	152.36	0.656	1.864	134.1	0.7	6.25
20.05	135.6	0.89	1.92	1.9	0.0	152.36	0.656	1.865	134.1	0.7	6.25
20.06	135.6	0.89	1.92	1.9	0.0	152.36	0.656	1.866	134.1	0.7	6.25
20.07	134.8	0.8	1.92	1.9	0.0	168.625	0.593	1.873	133.3	0.6	5.79
20.08	134.9	0.8	1.93	1.9	0.0	168.625	0.593	1.868	133.4	0.6	5.79
20.09	133.9	0.84	1.93	1.9	0.0	159.405	0.627	1.869	132.4	0.7	6.09
20.10	133.2	0.85	1.92	1.9	0.0	156.706	0.638	1.87	131.6	0.7	6.25
20.11	130.2	0.89	1.93	1.9	0.0	146.292	0.684	1.871	128.7	0.7	6.72
20.12	128.5	0.9	1.92	1.9	0.0	142.778	0.7	1.872	126.9	0.7	7.9
20.13	123.3	0.94	1.92	1.9	0.0	131.17	0.762	1.873	121.7	0.8	8.39
20.14	120.0	0.96	1.92	1.9	0.0	125.0	0.8	1.874	115.5	0.8	6.23
20.15	116.5	0.99	1.91	1.9	0.0	117.677	0.85	1.875	114.9	0.9	8.78
20.16	112.8	1.01	1.90	1.9	0.0	111.683	0.895	1.876	111.2	0.9	9.37
20.17	106.1	1.03	1.90	1.9	0.0	103.01	0.971	1.877	104.5	1.0	10.42
20.18	103.3	1.04	1.90	1.9	0.0	98.327	1.007	1.878	101.7	1.1	10.9
20.19	100.9	1.04	1.90	1.9	0.0	97.019	1.031	1.879	100.3	1.1	11.29
20.20	97.3	1.05	1.91	1.9	0.0	92.667	1.079	1.88	95.7	1.1	11.96
20.21	95.8	1.05	1.91	1.9	0.0	91.238	1.096	1.881	94.2	1.2	12.22
20.22	94.5	1.05	1.91	1.9	0.0	90.0	1.111	1.882	93.0	1.2	12.43
20.23	93.5	1.05	1.91	1.9	0.0	89.048	1.123	1.883	92.0	1.2	12.59
20.24	91.4	1.04	1.92	1.9	0.0	87.885	1.138	1.884	89.8	1.2	12.9
20.25	90.5	1.03	1.92	1.9	0.0	87.864	1.138	1.885	88.9	1.2	12.98
20.26	89.8	1.02	1.92	1.9	0.0	88.039	1.136	1.886	88.3	1.2	13.04
20.27	89.1	1.0	1.92	1.9	0.0	89.1	1.122	1.887	87.6	1.2	13.06
20.28	87.9	0.97	1.93	1.9	0.0	90.619	1.104	1.888	86.3	1.2	13.04
20.29	87.3	0.95	1.93	1.9	0.0	91.895	1.088	1.889	85.7	1.2	13
20.30	87.0	0.95	1.93	1.9	0.0	93.548	1.063	1.893	85.3	1.1	12.83
20.31	84.1	0.89	1.93	1.9	0.0	96.742	1.034	1.891	84.5	1.1	12.76
20.32	85.9	0.88	1.93	1.9	0.0	97.614	1.024	1.892	84.3	1.1	12.68
20.33	85.3	0.85	1.93	1.9	0.0	100.353	0.996	1.893	83.7	1.1	12.55
20.34	85.3	0.85	1.93	1.9	0.0	100.353	0.996	1.894	83.7	1.1	12.55
20.35	84.6	0.83	1.94	1.9	0.0	101.928	0.981	1.895	83.1	1.0	12.51
20.36	84.3	0.81	1.94	1.9	0.0	126.074	0.961	1.896	82.8	1.0	12.46
20.37	83.7	0.79	1.94	1.9	0.0	105.949	0.944	1.897	82.2	1.0	12

22.13	17.1	0.54	6.18	2.2	0.0	31.667	3.158	2.073	15.5	4.8	56.21
22.14	17.1	0.59	5.78	2.2	0.0	28.983	3.45	2.074	15.5	5.2	57.97
22.15	17.2	0.6	5.61	2.2	0.0	28.667	3.488	2.075	15.6	5.2	57.82
22.16	17.2	0.58	5.33	2.2	0.0	29.655	3.372	2.076	15.6	5.1	57.32
22.17	17.2	0.57	5.18	2.2	0.0	30.351	3.295	2.077	15.7	4.9	56.53
22.18	17.4	0.56	4.73	2.2	0.0	31.071	3.218	2.078	15.8	4.8	56.12
22.19	17.4	0.58	4.48	2.2	0.0	30.0	3.333	2.079	15.8	5.0	56.8
22.20	17.5	0.59	5.13	2.2	0.0	29.661	3.371	2.08	15.9	5.0	56.62
22.21	17.5	0.59	4.96	2.2	0.0	29.661	3.371	2.081	15.9	5.1	56.88
22.22	17.8	0.62	4.52	2.2	0.0	28.71	3.483	2.082	16.3	5.1	56.39
22.23	17.9	0.62	4.39	2.2	0.0	28.871	3.464	2.083	16.4	5.1	56.53
22.24	17.9	0.64	3.97	2.2	0.0	27.969	3.575	2.084	16.4	5.3	56.88
22.25	17.8	0.65	3.85	2.2	0.0	27.385	3.652	2.085	16.3	5.4	57.55
22.26	17.9	0.65	3.65	2.2	0.0	27.538	3.631	2.086	16.4	5.4	57.23
22.27	17.9	0.66	3.48	2.2	0.0	27.121	3.687	2.087	16.4	5.4	57.42
22.28	17.9	0.66	3.46	2.2	0.0	27.121	3.687	2.088	16.4	5.4	57.4
22.29	17.8	0.67	3.08	2.2	0.0	26.567	3.764	2.089	16.3	5.5	57.9
22.30	17.8	0.67	3.08	2.2	0.0	26.567	3.764	2.09	16.3	5.5	57.9
22.31	17.8	0.66	2.76	2.2	0.0	26.97	3.708	2.091	16.3	5.5	57.74
22.32	17.7	0.66	2.75	2.2	0.0	26.818	3.729	2.092	16.1	5.6	58.39
22.33	17.6	0.67	2.73	2.2	0.0	26.269	3.807	2.093	16.0	5.7	58.76
22.34	17.5	0.67	2.86	2.2	0.0	26.119	3.829	2.094	15.9	5.7	59.18
22.35	17.6	0.68	2.89	2.2	0.0	25.882	3.864	2.095	16.0	5.8	59.09
22.36	17.5	0.68	2.93	2.2	0.0	25.735	3.886	2.096	15.9	5.8	59.54
22.37	17.5	0.68	2.93	2.2	0.0	25.735	3.886	2.097	15.9	5.8	59.54
22.38	17.3	0.7	2.72	2.2	0.0	24.714	4.014	2.098	15.7	6.1	60.81
22.39	17.3	0.7	2.72	2.2	0.0	24.714	4.014	2.099	15.7	6.1	60.82
22.40	17.4	0.72	2.64	2.2	0.0	24.167	4.158	2.1	15.7	6.2	60.97
22.41	17.1	0.74	2.57	2.2	0.0	23.108	4.327	2.101	15.5	6.5	62.37
22.42	17.1	0.74	2.62	2.2	0.0	23.108	4.327	2.102	15.5	6.6	62.47
22.43	17.1	0.74	2.68	2.2	0.0	23.108	4.327	2.103	15.5	6.6	62.57
22.44	17.1	0.75	2.69	2.2	0.0	22.8	4.386	2.104	15.5	6.6	62.68
22.45	17.4	0.75	2.71	2.2	0.0	23.2	4.31	2.105	15.8	6.5	61.74
22.46	17.4	0.75	2.63	2.2	0.0	23.2	4.31	2.106	15.8	6.5	61.54
22.47	17.3	0.76	2.64	2.2	0.0	22.763	4.393	2.107	15.7	6.6	62.25
22.48	17.1	0.77	2.55	2.2	0.0	22.208	4.503	2.108	15.5	6.9	63.36
22.49	17.1	0.78	2.41	2.2	0.0	21.923	4.561	2.109	15.5	6.9	63.44
22.50	17.1	0.77	2.35	2.2	0.0	22.208	4.503	2.11	15.5	6.8	63.27
22.51	17.0	0.77	2.34	2.2	0.0	22.078	4.529	2.111	15.4	6.9	63.61
22.52	16.9	0.78	2.30	2.2	0.0	21.948	4.556	2.112	15.3	6.9	63.83
22.53	17.0	0.76	2.30	2.2	0.0	22.368	4.471	2.113	15.4	6.9	63.45
22.54	17.0	0.77	2.34	2.2	0.0	22.078	4.529	2.114	15.4	6.9	63.5
22.55	17.0	0.76	2.35	2.2	0.0	22.368	4.471	2.115	15.4	6.8	63.24
22.56	17.0	0.76	2.35	2.2	0.0	22.368	4.471	2.116	15.4	6.8	63.25
22.57	16.9	0.74	2.34	2.2	0.0	22.838	4.379	2.117	15.3	6.7	63.09
22.58	16.8	0.73	2.35	2.2	0.0	23.014	4.345	2.118	15.2	6.7	63.2
22.59	16.8	0.71	2.44	2.2	0.0	23.662	4.226	2.119	15.2	6.5	62.65
22.60	16.7	0.7	2.45	2.2	0.0	23.857	4.192	2.12	15.1	6.5	62.69
22.61	16.6	0.69	2.47	2.2	0.0	24.058	4.157	2.121	15.0	6.5	62.82
22.62	16.4	0.68	2.46	2.2	0.0	24.118	4.146	2.122	14.8	6.5	63.2
22.63	16.4	0.68	2.46	2.2	0.0	24.118	4.146	2.123	14.8	6.5	63.21
22.64	16.3	0.66	2.51	2.2	0.0	24.697	4.049	2.124	14.7	6.4	62.99
22.65	16.3	0.66	2.51	2.2	0.0	24.697	4.049	2.125	14.7	6.4	62.99
22.66	16.5	0.63	2.77	2.2	0.0	26.319	3.818	2.126	14.9	5.9	61.3
22.67	16.6	0.63	2.82	2.2	0.0	26.349	3.795	2.127	15.0	5.9	60.85
22.68	16.8	0.62	2.80	2.2	0.0	27.097	3.69	2.128	15.2	5.7	60.01
22.69	16.9	0.61	2.80	2.2	0.0	27.705	3.609	2.129	15.3	5.6	59.47
22.70	16.9	0.62	2.71	2.2	0.0	27.258	3.669	2.13	15.3	5.6	59.51
22.71	16.9	0.6	2.49	2.2	0.0	28.167	3.55	2.131	15.3	5.5	59.16
22.72	16.9	0.6	2.45	2.2	0.0	28.167	3.55	2.132	15.3	5.5	59.08
22.73	16.9	0.6	2.54	2.2	0.0	28.167	3.55	2.133	15.3	5.5	59.19
22.74	16.8	0.6	2.61	2.2	0.0	28.0	3.571	2.134	15.2	5.5	59.46
22.75	16.8	0.6	2.59	2.2	0.0	28.0	3.571	2.135	15.2	5.5	59.45
22.76	16.8	0.61	2.55	2.2	0.0	27.541	3.61	2.136	15.2	5.6	59.68
22.77	16.6	0.61	2.55	2.2	0.0	27.213	3.675	2.137	15.0	5.7	60.27
22.78	16.5	0.61	2.93	2.2	0.0	27.049	3.697	2.138	14.9	5.8	60.82
22.79	16.5	0.61	4.62	2.2	0.0	27.049	3.697	2.139	14.9	5.8	60.79
22.80	16.6	0.62	4.77	2.2	0.0	26.774	3.735	2.14	15.0	5.8	60.55
22.81	16.8	0.62	3.82	2.2	0.0	27.097	3.69	2.141	15.2	5.7	60.08
22.82	16.8	0.62	3.82	2.2	0.0	27.097	3.69	2.142	15.2	5.7	60.09

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22.83	16.9	0.63	3.34	2.2	0.0	26.825	3.728	2.143	15.3	5.7	59.94
22.84	16.8	0.63	3.21	2.2	0.0	26.667	3.75	2.144	15.2	5.8	60.27
22.85	16.8	0.62	3.19	2.2	0.0	27.097	3.69	2.145	15.2	5.7	60.15
22.86	16.8	0.62	3.16	2.2	0.0	27.097	3.69	2.146	15.2	5.7	60.06
22.87	16.8	0.61	3.10	2.2	0.0	27.54	3.631	2.147	15.2	5.6	59.84
22.88	16.9	0.61	3.01	2.2	0.0	27.705	3.609	2.148	15.3	5.6	59.44
22.89	16.9	0.61	3.01	2.2	0.0	27.705	3.609	2.149	15.3	5.6	59.45
22.90	16.9	0.61	2.93	2.2	0.0	27.705	3.609	2.15	15.3	5.5	59.35
22.91	16.9	0.61	2.93	2.2	0.0	27.705	3.609	2.151	15.3	5.5	59.35
22.92	16.8	0.6	2.93	2.2	0.0	28.0	3.571	2.152	15.2	5.5	59.43
22.93	16.8	0.6	2.95	2.2	0.0	28.0	3.571	2.153	15.2	5.5	59.44
22.94	16.9	0.6	3.02	2.2	0.0	28.167	3.55	2.154	15.3	5.5	59.11
22.95	17.0	0.59	3.12	2.2	0.0	28.814	3.471	2.155	15.4	5.4	58.61
22.96	17.2	0.59	3.23	2.2	0.0	29.153	3.43	2.156	15.6	5.2	57.76
22.97	17.3	0.58	3.29	2.2	0.0	29.828	3.353	2.157	15.7	5.1	57.25
22.98	17.4	0.57	3.38	2.2	0.0	30.526	3.276	2.158	15.8	5.0	56.81
22.99	17.6	0.56	3.48	2.2	0.0	31.429	3.182	2.159	16.0	4.9	55.93
23.00	17.7	0.54	3.58	2.2	0.0	32.778	3.051	2.16	16.1	4.6	54.77
23.01	17.7	0.53	3.62	2.2	0.0	33.396	2.994	2.161	16.2	4.5	54.22
23.02	17.7	0.53	3.62	2.2	0.0	33.396	2.994	2.162	16.2	4.5	54.23
23.03	17.8	0.51	3.71	2.2	0.0	34.902	2.865	2.163	16.3	4.3	53.4
23.04	17.7	0.51	3.73	2.2	0.0	34.706	2.881	2.164	16.1	4.3	53.8
23.05	17.7	0.51	3.73	2.2	0.0	34.706	2.881	2.165	16.1	4.3	53.81
23.06	17.7	0.51	3.73	2.2	0.0	34.706	2.881	2.166	16.1	4.4	53.81
23.07	17.5	0.41	5.51	2.2	0.0	42.683	2.343	2.167	15.9	3.6	50.77
23.08	17.3	0.4	5.63	2.2	0.0	43.25	2.312	2.168	15.7	3.6	50.94
23.09	17.2	0.38	5.77	2.2	0.0	45.263	2.209	2.169	15.6	3.4	50.16
23.10	17.2	0.38	5.81	2.2	0.0	46.48	2.152	2.17	15.6	3.4	49.85
23.11	17.1	0.37	5.80	2.2	0.0	46.216	2.164	2.171	15.5	3.3	49.96
23.12	17.1	0.37	5.80	2.2	0.0	46.216	2.164	2.172	15.5	3.3	49.96
23.13	17.0	0.35	5.87	2.2	0.0	48.571	2.059	2.173	15.4	3.2	49.68
23.14	17.0	0.35	5.92	2.2	0.0	48.571	2.059	2.174	15.4	3.2	49.63
23.15	16.8	0.35	5.80	2.2	0.0	48.0	2.083	2.175	15.2	3.2	50.02
23.16	16.6	0.34	5.70	2.2	0.0	48.824	2.048	2.176	15.0	3.3	50.39
23.17	16.2	0.35	5.79	2.2	0.0	46.286	2.16	2.177	14.6	3.4	51.6
23.18	16.2	0.35	5.79	2.2	0.0	46.286	2.16	2.178	14.6	3.4	51.61
23.19	15.9	0.33	5.97	2.2	0.0	48.182	2.075	2.179	14.3	3.4	51.98
23.20	15.6	0.32	6.05	2.2	0.0	48.75	2.051	2.18	14.0	3.4	52.42
23.21	15.3	0.3	6.19	2.2	0.0	51.33	1.949	2.181	13.8	3.3	51.9
23.22	15.2	0.29	6.26	2.2	0.0	52.759	1.895	2.182	13.7	3.1	51.68
23.23	15.3	0.27	6.30	2.2	0.0	56.667	1.765	2.183	13.7	2.9	50.75
23.24	15.2	0.27	6.35	2.2	0.0	56.296	1.776	2.184	13.6	2.9	50.8
23.25	15.2	0.26	6.42	2.2	0.0	58.462	1.71	2.185	13.6	2.9	50.5
23.26	15.2	0.26	6.46	2.2	0.0	58.462	1.711	2.186	13.6	2.8	50.0
23.27	15.3	0.25	6.46	2.2	0.0	61.2	1.58	2.187	13.7	2.7	49.24
23.28	15.4	0.24	6.47	2.2	0.0	64.167	1.558	2.188	13.8	2.6	48.54
23.29	15.6	0.24	6.44	2.2	0.0	65.0	1.538	2.189	14.0	2.5	47.78
23.30	15.6	0.24	6.44	2.2	0.0	65.0	1.538	2.190	14.0	2.5	47.78
23.31	15.7	0.24	6.40	2.2	0.0	65.417	1.529	2.191	14.1	2.5	47.47
23.32	15.7	0.23	6.35	2.2	0.0	69.13	1.447	2.192	14.1	2.3	46.44
23.33	16.0	0.23	6.27	2.2	0.0	69.505	1.43	2.193	14.3	2.3	45.9
23.34	16.1	0.23	6.21	2.2	0.0	70.0	1.429	2.194	14.5	2.3	45.86
23.35	16.3	0.24	6.02	2.2	0.0	67.917	1.472	2.195	14.7	2.3	45.86
23.36	16.3	0.25	6.06	2.2	0.0	65.2	1.534	2.196	14.7	2.4	46.38
23.37	16.3	0.26	6.05	2.3	0.0	62.692	1.595	2.197	14.7	2.5	47.03
23.38	16.3	0.28	6.11	2.2	0.0	59.21	1.718	2.198	14.4	2.7	48.06
23.39	16.3	0.29	6.12	2.2	0.0	56.207	1.779	2.199	14.7	2.7	48.6
23.40	16.3	0.3	6.13	2.2	0.0	54.0	1.852	2.2	14.6	2.9	49.22
23.41	16.1	0.3	6.13	2.3	0.0	53.667	1.863	2.201	14.5	3.0	49.95
23.42	16.1	0.31	5.90	2.3	0.0	51.935	1.925	2.202	14.5	3.1	50.12
23.43	16.1	0.31	5.84	2.3	0.0	51.935	1.925	2.203	14.5	3.1	50.23
23.44	16.2	0.32	5.96	2.3	0.0	49.687	2.01	2.204	14.3	3.1	51.47
23.45	15.8	0.32	5.99	2.3	0.0	49.375	2.025	2.205	14.2	3.3	51.71
23.46	15.8	0.32	5.99	2.3	0.0	49.375	2.025	2.206	14.2	3.3	51.71
23.47	15.9	0.32	6.00	2.3	0.0	49.688	2.013	2.207	14.3	3.3	51.6
23.48	16.0	0.33	5.93	2.3	0.0	48.485	2.063	2.208	14.4	3.3	51.43
23.49	16.0	0.33	5.93	2.3	0.0	48.485	2.063	2.209	14.4	3.3	51.43
23.50	16.2	0.33	5.84	2.3	0.0	49.697	2.013	2.21	14.3	3.3	50.58
23.51	16.5	0.34	5.86	2.3	0.0	48.529	2.061	2.211	14.9	3.2	50.38
23.52	16.8	0.34	5.87	2.3	0.0	49.412	2.024	2.212	15.2	3.2	49.83

24.93	20.3	0.63	3.77	2.4	0.0	32.222	3.103	2.353	18.7	4.6	51.42
24.94	21.2	0.65	3.92	2.4	0.0	32.615	3.066	2.354	19.6	4.4	49.79
24.95	21.2	0.65	3.92	2.4	0.0	32.615	3.066	2.355	19.6	4.4	49.79
24.96	21.0	0.67	4.19	2.4	0.0	34.328	2.913	2.356	21.5	4.0	46.68
24.97	24.8	0.66	2.13	2.4	0.0	36.364	2.75	2.357	22.4	3.6	44.89
24.98	24.2	0.63	4.04	2.4	0.0	38.413	2.603	2.358	22.6	3.5	43.45
24.99	24.2	0.59	3.85	2.5	0.0	41.017	2.438	2.359	22.6	3.3	42.51
25.00	24.0	0.59	3.80	2.5	0.0	40.678	2.458	2.36	22.4	3.3	42.75
25.01	23.6	0.6	3.75	2.5	0.0	39.333	2.542	2.361	22.0	3.5	43.8
25.02	22.9	0.61	3.74	2.5	0.0	37.541	2.664	2.362	21.4	3.7	45.41
25.03	21.7	0.62	3.80	2.5	0.0	35.0	2.857	2.363	20.1	4.1	48.19
25.04	21.7	0.62	3.80	2.5	0.0	35.0	2.857	2.364	20.1	4.1	48.19
25.05	21.7	0.62	3.80	2.5	0.0	35.0	2.857	2.365	20.1	4.1	48.19
25.06	20.5	0.53	7.65	2.5	0.0	38.679	2.585	2.366	18.9	3.8	47.97
25.07	20.3	0.51	7.61	2.5	0.0	39.804	2.512	2.367	18.7	3.7	47.88
25.08	20.2	0.5	7.35	2.5	0.0	40.4	2.475	2.368	18.6	3.7	47.87
25.09	20.1	0.5	7.16	2.5	0.0	40.2	2.488	2.369	18.5	3.6	47.83
25.10	19.4	0.46	6.60	2.5	0.0	42.174	2.371	2.37	17.8	3.5	48.22
25.11	19.2	0.45	6.27	2.5	0.0	42.667	2.344	2.371	17.6	3.5	48.29
25.12	19.2	0.45	6.27	2.5	0.0	42.667	2.344	2.372	17.6	3.5	48.29
25.13	18.8	0.5	5.99	2.5	0.0	37.6	2.66	2.373	17.2	4.1	51.17
25.14	18.7	0.51	5.76	2.5	0.0	36.667	2.727	2.374	17.1	4.2	51.63
25.15	18.6	0.52	5.76	2.5	0.0	35.769	2.796	2.375	17.0	4.3	52.17
25.16	18.6	0.54	5.90	2.5	0.0	34.444	2.903	2.376	17.0	4.4	52.9
25.17	18.6	0.55	5.96	2.5	0.0	33.636	2.973	2.377	16.9	4.5	53.4
25.18	18.6	0.55	5.96	2.5	0.0	33.818	2.957	2.378	17.0	4.5	53.21
25.19	18.8	0.55	6.11	2.5	0.0	34.182	2.926	2.379	17.2	4.4	52.63
25.20	19.2	0.54	6.23	2.5	0.0	35.741	2.798	2.38	17.7	4.2	51.14
25.21	19.5	0.54	6.31	2.5	0.0	36.111	2.769	2.381	17.9	4.2	50.72
25.22	20.1	0.56	6.37	2.5	0.0	35.893	2.786	2.382	18.5	4.1	49.99
25.23	20.3	0.57	6.39	2.5	0.0	35.614	2.808	2.383	18.7	4.1	49.78
25.24	20.6	0.58	6.43	2.5	0.0	35.517	2.816	2.384	19.0	4.1	49.4
25.25	20.9	0.59	6.46	2.5	0.0	35.424	2.823	2.385	19.3	4.1	49.08
25.26	21.5	0.6	6.43	2.5	0.0	35.833	2.791	2.386	19.9	4.0	48.01
25.27	21.5	0.6	6.37	2.5	0.0	35.833	2.791	2.387	19.9	4.0	48.05
25.28	21.6	0.6	6.37	2.5	0.0	36.0	2.778	2.388	20.0	4.0	47.71
25.29	21.3	0.59	6.28	2.5	0.0	36.102	2.777	2.389	19.7	4.0	48.22
25.30	21.0	0.58	6.29	2.5	0.0	36.207	2.762	2.39	19.4	4.0	48.57
25.31	21.0	0.58	6.29	2.5	0.0	36.207	2.762	2.391	19.4	4.0	48.57
25.32	19.7	0.58	6.21	2.5	0.0	33.966	2.944	2.392	18.1	4.4	51.32
25.33	19.3	0.56	6.10	2.5	0.0	34.464	2.902	2.393	17.7	4.4	51.87
25.34	19.4	0.55	6.06	2.5	0.0	35.273	2.835	2.394	17.8	4.3	51.36
25.35	20.1	0.54	6.23	2.5	0.0	37.222	2.687	2.395	18.5	4.0	49.41
25.36	20.8	0.55	6.46	2.5	0.0	37.818	2.644	2.396	19.2	3.8	48
25.37	21.7	0.55	6.63	2.5	0.0	39.455	2.553	2.397	20.1	3.6	46.2
25.38	22.7	0.55	6.71	2.5	0.0	41.273	2.423	2.398	21.1	3.4	44.22
25.39	24.7	0.53	6.58	2.5	0.0	46.604	2.146	2.399	23.1	2.9	40.34
25.40	25.5	0.54	6.31	2.5	0.0	47.222	2.118	2.4	23.9	2.8	39.22
25.41	26.0	0.58	6.04	2.5	0.0	44.828	2.231	2.401	24.4	3.0	39.58
25.42	26.3	0.59	5.60	2.5	0.0	44.576	2.243	2.402	24.7	3.0	39.53
25.43	26.3	0.62	5.33	2.5	0.0	42.419	2.357	2.403	24.7	3.1	40.13
25.44	26.4	0.64	5.18	2.5	0.0	40.781	2.452	2.404	24.5	3.3	40.92
25.45	26.8	0.65	4.94	2.5	0.0	38.154	2.621	2.405	23.2	3.6	43.15
25.46	23.7	0.64	4.83	2.5	0.0	37.031	2.7	2.406	22.1	3.7	44.76
25.47	20.9	0.6	4.95	2.5	0.0	34.833	2.871	2.407	19.3	4.2	49.24
25.48	19.8	0.56	5.18	2.5	0.0	35.357	2.828	2.408	18.2	4.2	50.48
25.49	19.3	0.51	5.64	2.5	0.0	37.843	2.622	2.409	17.7	4.0	50.26
25.50	19.3	0.56	5.59	2.5	0.0	37.843	2.642	2.41	17.7	4.0	50.26
25.51	21.1	0.44	6.07	2.5	0.0	47.955	2.085	2.411	19.5	3.0	43.88
25.52	22.2	0.43	6.15	2.5	0.0	51.628	1.937	2.412	20.6	2.7	41.52
25.53	23.6	0.42	5.96	2.5	0.0	56.19	1.78	2.413	22.0	2.4	38.58
25.54	24.4	0.43	5.88	2.5	0.0	56.744	1.762	2.414	22.8	2.4	37.72
25.55	25.4	0.44	5.81	2.5	0.0	57.727	1.732	2.415	23.8	2.3	36.78
25.56	26.9	0.45	5.69	2.5	0.0	58.478	1.71	2.416	25.3	2.2	35.36
25.57	30.5	0.53	4.88	2.5	0.0	57.547	1.738	2.417	28.9	2.2	32.81
25.58	32.4	0.58	5.10	2.6	0.0	55.862	1.79	2.418	30.8	2.3	32.07
25.59	36.6	0.67	5.06	2.6	0.0	54.627	1.831	2.419	35.0	2.2	29.93
25.60	38.3	0.71	4.79	2.6	0.0	53.944	1.854	2.42	36.8	2.2	29.22
25.61	39.7	0.75	4.44	2.6	0.0	52.933	1.889	2.421	41.1	2.3	28.87
25.62	40.7	0.8	3.98	2.6	0.0	50.875	1.966	2.422	39.1	2.4	28.96

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25.63	41.1	0.91	3.33	2.6	0.0	45.165	2.214	2.423	39.5	2.6	30.24
25.64	41.0	0.96	3.20	2.6	0.0	42.708	2.341	2.424	39.4	2.8	31.06
25.65	40.7	1.07	2.89	2.6	0.0	38.037	2.629	2.425	39.1	3.1	32.71
25.66	40.8	1.12	2.84	2.6	0.0	36.429	2.745	2.426	39.2	3.3	33.28
25.67	40.7	1.18	2.86	2.6	0.0	34.492	2.899	2.427	39.1	3.5	34.06
25.68	40.5	1.24	2.95	2.6	0.0	32.661	3.062	2.428	38.9	3.6	34.85
25.69	41.1	1.3	2.98	2.6	0.0	31.615	3.163	2.429	39.5	3.8	35.14
25.70	41.6	1.33	2.93	2.6	0.0	31.278	3.197	2.43	40.0	3.8	35.04
25.71	42.9	1.34	2.81	2.6	0.0	32.015	3.124	2.431	41.3	3.7	34.14
25.72	43.8	1.32	2.83	2.6	0.0	33.182	3.014	2.432	42.2	3.5	33.23
25.73	45.5	1.31	2.85	2.6	0.0	34.733	2.879	2.433	43.3	3.4	31.95
25.74	49.1	1.3	2.92	2.6	0.0	37.769	2.648	2.434	47.5	3.0	29.49
25.75	50.7	1.29	2.91	2.6	0.0	39.302	2.544	2.435	49.1	2.9	28.5
25.76	52.2	1.28	2.86	2.6	0.0	40.781	2.452	2.436	50.6	2.8	27.58
25.77	53.1	1.26	2.77	2.6	0.0	42.143	2.373	2.437	51.6	2.7	26.94
25.78	51.7	1.22	2.45	2.6	0.0	42.377	2.26	2.438	50.1	2.7	27.26
25.79	50.0	1.19	2.32	2.6	0.0	42.017	2.328	2.439	48.4	2.7	27.85
25.80	46.9	1.07	2.19	2.6	0.0	43.832	2.281	2.44	45.3	2.7	28.45
25.81	45.3	1.02	2.13	2.6	0.0	44.412	2.252	2.441	43.7	2.6	28.81
25.82	43.8	1.0	2.04	2.6	0.0	43.8	2.283	2.442	42.2	2.7	29.5
25.83	42.3	0.99	2.01	2.6	0.0	42.727	2.34	2.443	40.7	2.8	30.5
25.84	38.7	0.95	2.03	2.6	0.0	40.737	2.455	2.444	37.1	3.0	32.7
25.85	36.9	0.95	2.01	2.6	0.0	38.842	2.575	2.445	35.3	3.2	34.29
25.86	33.8	0.96	2.01	2.6	0.0	35.208	2.84	2.446	32.2	3.5	37.42
25.87	33.8	0.96	2.01	2.6	0.0	35.208	2.84	2.447	32.2	3.5	37.42
25.88	31.3	0.95	2.06	2.6	0.0	32.947	3.035	2.448	29.7	3.8	40.03
25.89	30.0	0.9	2.08	2.6	0.0	33.333	3.0	2.449	28.4	3.9	40.85
25.90	27.2	0.8	2.29	2.7	0.0	34.0	2.941	2.45	25.6	3.9	42.85
25.91	26.5	0.77	2.48	2.6	0.0	34.416	2.906	2.451	24.9	3.9	43.21
25.92	25.3	0.76	3.10	2.6	0.0	33.289	3.004	2.452	23.7	4.1	44.92
25.93	25.0	0.77	3.41	2.6	0.0	32.468	3.08	2.453	23.4	4.2	45.52
25.94	24.7	0.75	3.57	2.7	0.0	32.933	3.036	2.454	23.1	4.2	45.75
25.95	24.7	0.74	3.51	2.6	0.0	33.378	2.996	2.455	23.1	4.1	45.49
25.96	24.7	0.74	3.50	2.6	0.0	33.378	2.996	2.456	23.1	4.1	45.41
25.97	24.9	0.74	4.05	2.6	0.0	33.649	2.972	2.457	23.3	4.1	45.23
25.98	25.6	0.74	4.41	2.6	0.0	34.595	2.891	2.458	24.0	3.9	44.1
25.99	28.4	0.72	4.19	2.6	0.0	34.944	2.535	2.459	26.8	3.9	39.54
26.00	29.8	0.7	3.88	2.6	0.0	34.944	2.535	2.46	28.2	3.9	37.67
26.01	31.5	0.71	3.73	2.6	0.0	44.366	2.254	2.461	29.9	3.9	35.67
26.02	33.5	0.69	3.59	2.6	0.0	40.551	2.06	2.462	31.2	2.6	33.14
26.03	34.4	0.68	3.53	2.6	0.0	48.888	1.977	2.463	32.8	2.5	32.15
26.04	34.4	0.68	3.53	2.6	0.0	50.588	1.977	2.464	32.8	2.5	32.15
26.05	34.4	0.68	3.53	2.6	0.0	50.588	1.977	2.465	32.8	2.5	32.15
26.06	31.0	0.66	3.41	2.6	0.0	56.923	1.757	2.466	35.2	2.4	30.81
26.07	35.9	0.7	3.15	2.6	0.0	51.286	1.95	2.467	34.3	2.4	31.14
26.08	34.8	0.73	3.09	2.6	0.0	47.671	2.098	2.468	33.2	2.6	32.71
26.09	33.7	0.76	3.13	2.6	0.0	44.342	2.255	2.469	32.1	2.8	34.21
26.10	32.6	0.78	3.12	2.6	0.0	41.795	2.393	2.47	31.0	3.0	35.78
26.11	29.9	0.82	3.11	2.6	0.0	36.463	2.742	2.471	28.3	3.5	39.55
26.12	28.6	0.8	3.19	2.6	0.0	34.048	2.937	2.472	27.7	3.8	41.47
26.13	26.5	0.85	3.35	2.6	0.0	31.176	3.208	2.473	24.9	4.3	44.88
26.14	25.7	0.86	3.39	2.6	0.0	29.884	3.346	2.474	24.1	4.5	46.32
26.15	24.6	0.87	3.44	2.6	0.0	28.276	3.537	2.475	23.0	4.8	48.38
26.16	23.3	0.88	3.61	2.6	0.0	26.477	3.777	2.476	21.7	5.3	51.08
26.17	22.0	0.88	3.81	2.6	0.0	25.0	4.0	2.477	20.4	5.8	53.95
26.18	21.9	0.87	4.14	2.6	0.0	25.172	3.973	2.478	20.7	5.7	54.5
26.19	22.0	0.88	4.29	2.6	0.0	25.0	4.0	2.479	20.4	5.7	53.85
26.20	21.9	0.9	4.11	2.6	0.0	24.222	4.128	2.48	20.2	6.0	54.76
26.21	21.4	0.91	4.16	2.6	0.0	23.569	4.252	2.481	19.8	6.2	56.01
26.22	20.8	0.92	4.36	2.6	0.0	22.610	4.423	2.482	19.2	6.5	57.65
26.23	20.1	0.88	4.64	2.6	0.0	22.841	4.378	2.483	18.5	6.6	58.48
26.24	20.1	0.83	4.61	2.6	0.0	24.217	4.129	2.484	17.7	6.7	59.51
26.25	20.2	0.87	4.82	2.6	0.0	26.234	3.812	2.485	18.6	5.7	55.64
26.26	20.0	0.74	4.92	2.6	0.0	27.027	3.7	2.486	18.4	5.6	55.51
26.27	19.8	0.72	4.95	2.7	0.0	27.5	3.636	2.487	18.2	5.5	55.33
26.28	19.2	0.67	4.98	2.7	0.0	28.657	3.49	2.488	17.6	5.3	55.54
26.29	19.2	0.64	4.96	2.7	0.0	30.0	3.333	2.489	17.6	5.1	54.84
26.30	18.6	0.62	4.98	2.7	0.0	30.323	3.298	2.49	17.5	5.2	55.21
26.31	18.5	0.6	4.79	2.7	0.0	30.833	3.243	2.491	16.9	5.1	55.56
26.32	17.8	0.59	4.59	2.7	0.0	30.169	3.315	2.492	16.3	5.3	57.12

27.73	17.6	0.44	3.45	2.7	0.0	40.0	2.5	2.633	16.0	4.2	53.2
27.74	17.5	0.44	3.56	2.7	0.0	39.773	2.514	2.634	15.9	4.2	53.47
27.75	17.4	0.43	3.54	2.7	0.0	40.465	2.471	2.635	15.8	4.2	53.46
27.76	17.6	0.4	3.33	2.7	0.0	44.0	2.73	2.636	16.0	3.8	51.74
27.77	17.6	0.39	3.28	2.7	0.0	45.128	2.216	2.637	16.3	3.7	51.27
27.78	17.3	0.41	3.28	2.7	0.0	42.195	2.37	2.638	15.7	4.0	53.07
27.79	17.3	0.41	3.28	2.7	0.0	42.195	2.37	2.639	15.7	4.0	53.07
27.80	17.2	0.43	3.30	2.7	0.0	40.0	2.5	2.64	15.6	4.3	54.19
27.81	17.1	0.44	3.31	2.7	0.0	38.864	2.573	2.641	15.5	4.4	54.79
27.82	17.0	0.46	3.34	2.7	0.0	36.957	2.706	2.642	15.4	4.6	55.91
27.83	16.9	0.45	3.33	2.7	0.0	36.739	2.722	2.643	15.3	4.7	56.3
27.84	16.9	0.47	3.37	2.7	0.0	35.957	2.781	2.644	15.3	4.8	56.73
27.85	16.9	0.47	3.37	2.7	0.0	35.957	2.781	2.645	15.3	4.8	56.73
27.86	16.9	0.48	3.42	2.7	0.0	35.208	2.84	2.646	15.3	4.9	57.01
27.87	17.0	0.47	3.44	2.7	0.0	36.17	2.765	2.647	15.4	4.8	56.38
27.88	17.1	0.46	3.43	2.7	0.0	37.174	2.69	2.648	15.5	4.6	55.77
27.89	17.1	0.47	3.45	2.7	0.0	36.383	2.749	2.649	15.5	4.7	56.09
27.90	16.9	0.48	3.47	2.7	0.0	35.208	2.84	2.65	15.3	4.9	57.21
27.91	16.9	0.48	3.49	2.7	0.0	35.208	2.84	2.651	15.3	4.9	57.06
27.92	16.8	0.47	3.51	2.7	0.0	35.745	2.798	2.652	15.2	4.9	57.18
27.93	16.7	0.47	3.52	2.7	0.0	35.532	2.814	2.653	15.1	4.9	57.23
27.94	16.6	0.45	3.59	2.7	0.0	36.889	2.711	2.654	15.0	4.8	57.05
27.95	16.6	0.45	3.63	2.7	0.0	36.889	2.711	2.655	15.0	4.7	56.88
27.96	16.5	0.44	3.67	2.7	0.0	37.5	2.667	2.656	14.9	4.7	56.93
27.97	16.5	0.44	3.72	2.7	0.0	37.5	2.667	2.657	14.9	4.7	56.88
27.98	16.4	0.44	3.88	2.7	0.0	37.273	2.683	2.658	14.8	4.7	57.22
27.99	16.4	0.44	3.97	2.7	0.0	37.273	2.683	2.659	14.8	4.8	57.31
28.00	16.4	0.43	3.99	2.7	0.0	38.372	2.606	2.66	14.9	4.6	56.33
28.01	16.5	0.42	4.07	2.7	0.0	39.286	2.545	2.661	14.9	4.5	56.1
28.02	16.5	0.42	4.14	2.7	0.0	39.286	2.545	2.662	14.9	4.5	56.12
28.03	16.4	0.42	4.17	2.7	0.0	39.048	2.561	2.663	14.8	4.5	56.25
28.04	16.4	0.42	4.17	2.7	0.0	39.048	2.561	2.664	14.8	4.5	56.26
28.05	16.4	0.42	4.17	2.7	0.0	39.048	2.561	2.665	14.8	4.5	56.26
28.06	16.6	0.38	7.64	2.7	0.0	43.684	2.289	2.666	15.0	4.4	53.76
28.07	16.8	0.37	7.70	2.7	0.0	45.405	2.202	2.667	15.2	3.8	52.88
28.08	16.9	0.37	7.65	2.7	0.0	45.676	2.189	2.668	15.3	3.7	52.34
28.09	17.0	0.36	7.64	2.7	0.0	47.222	2.118	2.669	15.4	3.6	51.6
28.10	17.1	0.35	7.55	2.7	0.0	48.857	2.047	2.67	15.5	3.5	51.05
28.11	17.1	0.35	7.51	2.7	0.0	48.857	2.047	2.671	15.5	3.5	51
28.12	17.0	0.35	7.53	2.7	0.0	48.571	2.059	2.672	15.4	3.6	51.32
28.13	17.1	0.35	7.65	2.7	0.0	48.857	2.047	2.673	15.5	3.5	50.92
28.14	17.2	0.34	7.59	2.7	0.0	50.588	1.977	2.674	15.6	3.4	50.49
28.15	17.3	0.34	7.38	2.7	0.0	50.882	1.965	2.675	15.7	3.4	50.11
28.16	17.3	0.35	7.27	2.7	0.0	49.429	2.023	2.676	15.7	3.4	50.3
28.17	17.2	0.35	7.23	2.7	0.0	49.143	2.035	2.677	15.6	3.5	50.84
28.18	17.0	0.35	7.16	2.7	0.0	48.571	2.059	2.678	15.4	3.6	51.31
28.19	16.9	0.35	7.18	2.7	0.0	48.286	2.071	2.679	15.3	3.6	51.67
28.20	16.8	0.35	7.17	2.7	0.0	48.0	2.083	2.68	15.2	3.6	51.83
28.21	16.6	0.35	7.30	2.7	0.0	47.429	2.108	2.681	15.0	3.7	52.38
28.22	16.5	0.34	7.37	2.7	0.0	48.529	2.061	2.682	14.9	3.7	52.57
28.23	16.6	0.34	7.40	2.7	0.0	48.824	2.048	2.683	15.0	3.6	51.95
28.24	16.6	0.33	7.43	2.7	0.0	50.303	1.988	2.684	15.4	3.5	51.54
28.25	16.6	0.33	7.45	2.7	0.0	50.303	1.988	2.685	15.0	3.5	51.48
28.26	16.5	0.32	7.45	2.7	0.0	51.563	1.939	2.686	14.9	3.4	51.37
28.27	16.4	0.31	7.48	2.7	0.0	52.903	1.89	2.687	14.8	3.4	51.45
28.28	16.1	0.31	7.62	2.7	0.0	51.935	1.925	2.688	14.5	3.4	51.97
28.29	16.1	0.3	7.71	2.7	0.0	53.667	1.863	2.689	14.5	3.3	51.59
28.30	16.2	0.29	7.80	2.7	0.0	55.172	1.813	2.69	14.4	3.3	51.43
28.31	15.9	0.26	7.92	2.7	0.0	61.154	1.635	2.691	14.3	3.0	50.22
28.32	15.8	0.25	7.94	2.7	0.0	63.2	1.582	2.692	14.2	2.9	49.69
28.33	15.8	0.24	7.92	2.7	0.0	65.833	1.519	2.693	14.2	2.7	48.85
28.34	15.6	0.22	7.94	2.7	0.0	70.909	1.41	2.694	14.0	2.6	48.34
28.35	15.5	0.21	7.98	2.7	0.0	73.81	1.355	2.695	13.9	2.2	47.57
28.36	15.3	0.2	8.05	2.7	0.0	76.5	1.307	2.696	13.7	2.5	48.43
28.37	15.1	0.19	8.17	2.7	0.0	79.474	1.258	2.697	13.5	2.4	47.84
28.38	15.1	0.18	8.23	2.7	0.0	83.889	1.192	2.698	13.5	2.3	47.34
28.39	15.1	0.17	8.33	2.7	0.0	88.824	1.126	2.699	13.5	2.1	46
28.40	15.2	0.16	8.42	2.7	0.0	95.0	1.053	2.7	13.6	2.0	45.08
28.41	15.3	0.15	8.50	2.7	0.0	102.0	0.98	2.701	13.7	1.9	44.29
28.42	15.4	0.15	8.56	2.7	0.0	102.667	0.974	2.702	13.8	1.8	43.72

(Bilopì s.s. di Casone Luigi Ampliamento impianto zootecnico Zerbinate di Bordenò FE) - 85

28.43	15.6	0.14	8.71	2.7	0.0	111.429	0.897	2.703	14.0	1.7	42.24
28.44	15.8	0.14	8.76	2.7	0.0	112.857	0.886	2.704	14.2	1.6	41.56
28.45	16.1	0.14	8.77	2.7	0.0	115.0	0.87	2.705	14.5	1.5	40.55
28.46	16.2	0.14	8.81	2.7	0.0	115.714	0.864	2.706	14.6	1.6	40.6
28.47	16.4	0.15	8.83	2.7	0.0	109.333	0.915	2.707	14.8	1.6	41.09
28.48	16.4	0.16	8.91	2.7	0.0	102.5	0.976	2.708	14.8	1.7	41.59
28.49	16.5	0.16	8.84	2.7	0.0	103.125	0.97	2.709	14.9	1.7	41.28
28.50	16.8	0.16	8.69	2.7	0.0	105.0	0.952	2.71	15.2	1.7	40.96
28.51	16.7	0.17	8.76	2.7	0.0	98.235	1.018	2.711	15.1	1.8	42.12
28.52	16.8	0.18	8.74	2.7	0.0	93.333	1.071	2.712	15.2	1.9	42.57
28.53	16.9	0.19	8.65	2.7	0.0	88.947	1.124	2.713	15.3	2.0	42.6
28.54	17.0	0.2	8.48	2.7	0.0	85.0	1.176	2.714	15.4	2.0	42.96
28.55	16.8	0.21	7.48	2.7	0.0	80.0	1.25	2.715	15.2	2.2	44.04
28.56	16.9	0.22	7.46	2.7	0.0	76.818	1.302	2.716	15.3	2.3	44.7
28.57	17.0	0.23	7.42	2.7	0.0	73.913	1.353	2.717	15.4	2.4	45.07
28.58	17.0	0.26	7.28	2.7	0.0	65.385	1.529	2.718	15.4	2.7	46.82
28.59	17.1	0.27	7.22	2.7	0.0	63.333	1.579	2.719	15.5	2.7	47.1
28.60	17.1	0.28	7.15	2.7	0.0	61.071	1.637	2.72	15.5	2.9	47.86
28.61	17.2	0.31	7.21	2.7	0.0	55.484	1.802	2.721	15.6	3.1	48.89
28.62	17.2	0.31	7.21	2.7	0.0	55.484	1.802	2.722	15.6	3.1	48.9
28.63	17.3	0.34	7.14	2.7	0.0	50.882	1.965	2.723	15.7	3.4	50.07
28.64	17.6	0.36	6.97	2.7	0.0	48.988	2.045	2.724	15.9	3.5	50.35
28.65	17.7	0.37	7.00	2.7	0.0	47.838	2.09	2.725	16.1	3.5	50.22
28.66	17.8	0.39	6.94	2.7	0.0	45.641	2.191	2.726	16.2	3.6	50.59
28.67	18.1	0.43	6.79	2.7	0.0	42.093	2.376	2.727	16.5	3.9	51.4
28.68	18.1	0.43	6.79	2.7	0.0	42.093	2.376	2.728	16.5	3.9	51.4
28.69	18.7	0.49	6.30	2.7	0.0	38.163	2.62	2.729	17.1	4.3	52.1
28.70	18.8	0.51	6.03	2.7	0.0	36.863	2.713	2.73	17.2	4.4	52.42
28.71	19.0	0.53	5.87	2.7	0.0	35.849	2.789	2.731	17.4	4.5	52.82
28.72	18.9	0.55	5.43	2.7	0.0	34.364	2.91	2.732	17.3	4.7	53.68
28.73	18.8	0.57	5.64	2.7	0.0	32.982	3.032	2.733	17.2	4.9	54.61
28.74	18.8	0.59	5.47	2.7	0.0	31.864	3.138	2.734	17.2	5.1	55.27
28.75	18.9	0.6	5.37	2.7	0.0	31.5	3.175	2.735	17.3	5.2	55.39
28.76	18.8	0.61	5.39	2.7	0.0	30.82	3.245	2.736	17.2	5.3	55.97
28.77	18.6	0.63	5.24	2.7	0.0	29.524	3.387	2.737	17.0	5.5	56.98
28.78	18.6	0.63	5.24	2.7	0.0	29.524	3.387	2.738	17.0	5.5	56.98
28.79	18.6	0.66	5.26	2.7	0.0	28.182	3.548	2.739	17.0	5.8	57.93
28.80	18.1	0.7	9.21	2.7	0.0	25.857	3.867	2.74	16.5	6.4	60.56
28.81	17.8	0.71	9.17	2.7	0.0	25.07	3.989	2.741	16.2	6.7	61.78
28.82	17.7	0.69	8.91	2.7	0.0	25.652	3.898	2.742	16.1	6.6	61.7
28.83	17.9	0.69	8.59	2.7	0.0	25.942	3.855	2.743	16.3	6.5	60.92
28.84	18.4	0.69	8.17	2.7	0.0	26.667	3.75	2.744	16.8	6.2	59.34
28.85	18.4	0.69	8.17	2.7	0.0	26.667	3.75	2.745	16.8	6.2	59.34
28.86	18.6	0.67	7.48	2.7	0.0	27.761	3.602	2.746	17.0	5.9	58.23
28.87	18.6	0.67	7.58	2.7	0.0	27.761	3.602	2.747	17.0	5.9	58.16
28.88	18.5	0.67	7.90	2.7	0.0	27.612	3.622	2.748	16.9	6.0	58.61
28.89	19.0	0.66	8.25	2.7	0.0	28.788	3.474	2.749	17.4	5.6	56.87
28.90	19.2	0.65	9.22	2.7	0.0	29.538	3.385	2.75	17.6	5.4	55.71
28.91	19.0	0.64	9.96	2.7	0.0	30.323	3.362	2.751	17.4	5.4	56.14
28.92	18.8	0.62	10.08	2.7	0.0	30.323	3.298	2.752	17.2	5.4	56.32
28.93	18.8	0.61	9.57	2.7	0.0	30.82	3.245	2.753	17.2	5.3	55.83
28.94	19.0	0.59	8.88	2.7	0.0	32.203	3.105	2.754	17.4	5.0	54.76
28.95	19.0	0.57	9.73	2.7	0.0	33.333	3.0	2.755	17.4	4.9	54.11
28.96	19.0	0.57	9.48	2.7	0.0	33.333	3.0	2.756	17.4	4.8	54.02
28.97	19.2	0.57	9.55	2.7	0.0	33.333	2.965	2.757	17.6	4.8	54.48
28.98	19.5	0.56	8.91	2.7	0.0	34.821	2.872	2.758	17.9	4.6	52.5
28.99	21.1	0.55	8.05	2.7	0.0	38.364	2.607	2.759	19.0	4.0	48.54
29.00	20.2	0.56	9.68	2.7	0.0	36.071	2.772	2.76	18.6	4.3	50.66
29.01	19.7	0.55	10.10	2.7	0.0	35.818	2.792	2.761	18.1	4.5	51.76
29.02	19.6	0.54	10.07	2.7	0.0	36.296	2.755	2.762	18.0	4.4	51.75
29.03	19.6	0.54	9.94	2.7	0.0	36.296	2.755	2.763	18.0	4.4	51.56
29.04	19.6	0.54	9.94	2.7	0.0	36.296	2.755	2.764	18.0	4.4	51.56
29.05	19.6	0.54	9.94	2.7	0.0	36.296	2.755	2.765	18.0	4.4	51.57
29.06	20.1	0.57	7.24	2.7	0.0	35.263	2.836	2.766	18.5	4.5	51.44
29.07	20.2	0.58	7.20	2.7	0.0	34.828	2.871	2.767	18.6	4.5	51.45
29.08	20.2	0.58	7.20	2.7	0.0	34.828	2.871	2.768	18.6	4.5	51.45
29.09	20.4	0.63	8.28	2.7	0.0	32.982	3.032	2.769	18.8	4.5	52.41
29.10	20.4	0.64	8.08	2.7	0.0	31.875	3.137	2.77	18.8	4.9	52.6
29.11	20.3	0.67	7.87	2.7	0.0	30.299	3.3	2.771	18.7	5.2	53.66
29.12	20.2	0.68	7.83	2.7	0.0	29.706	3.366	2.772	18.6	5.3	54.32

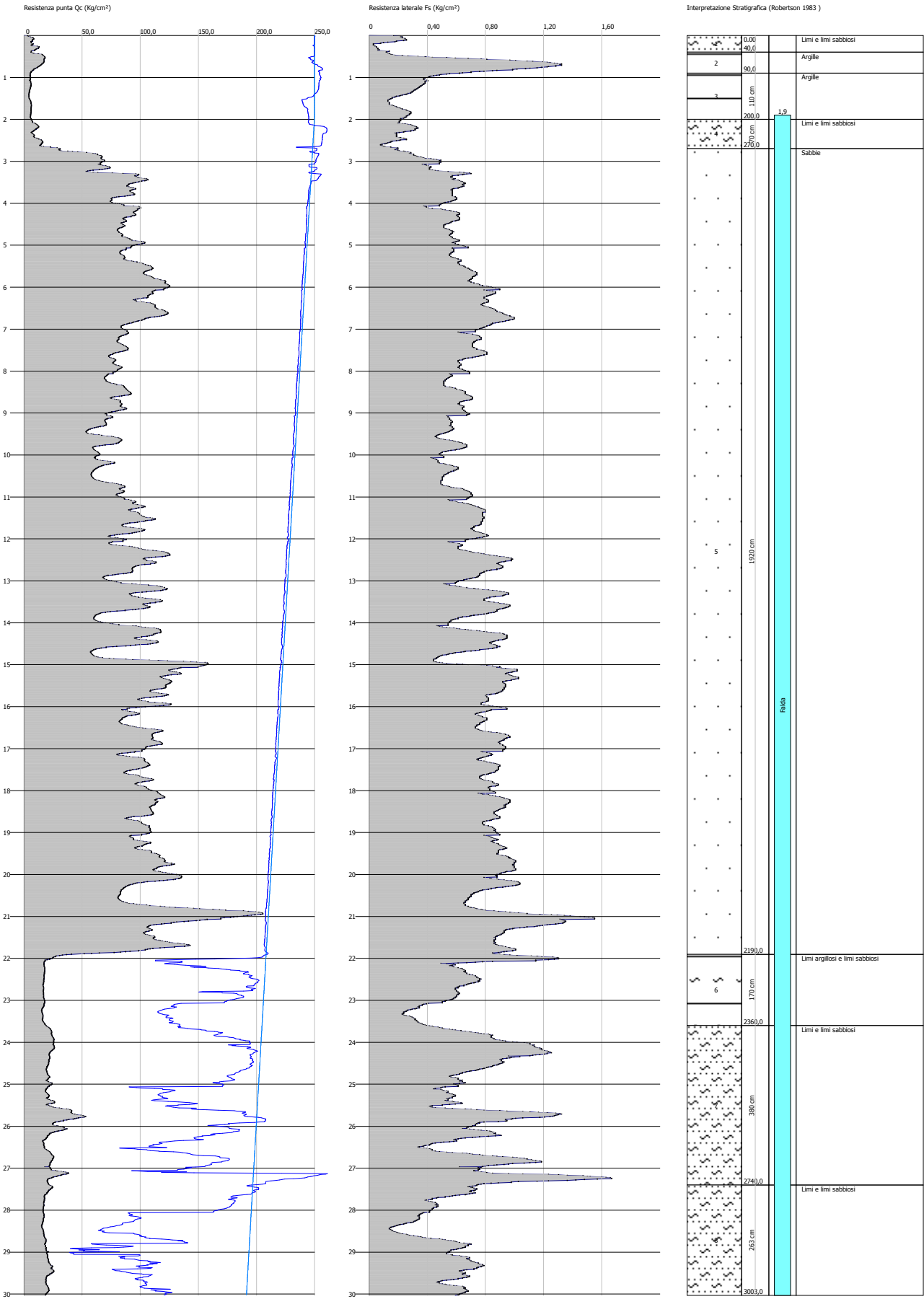
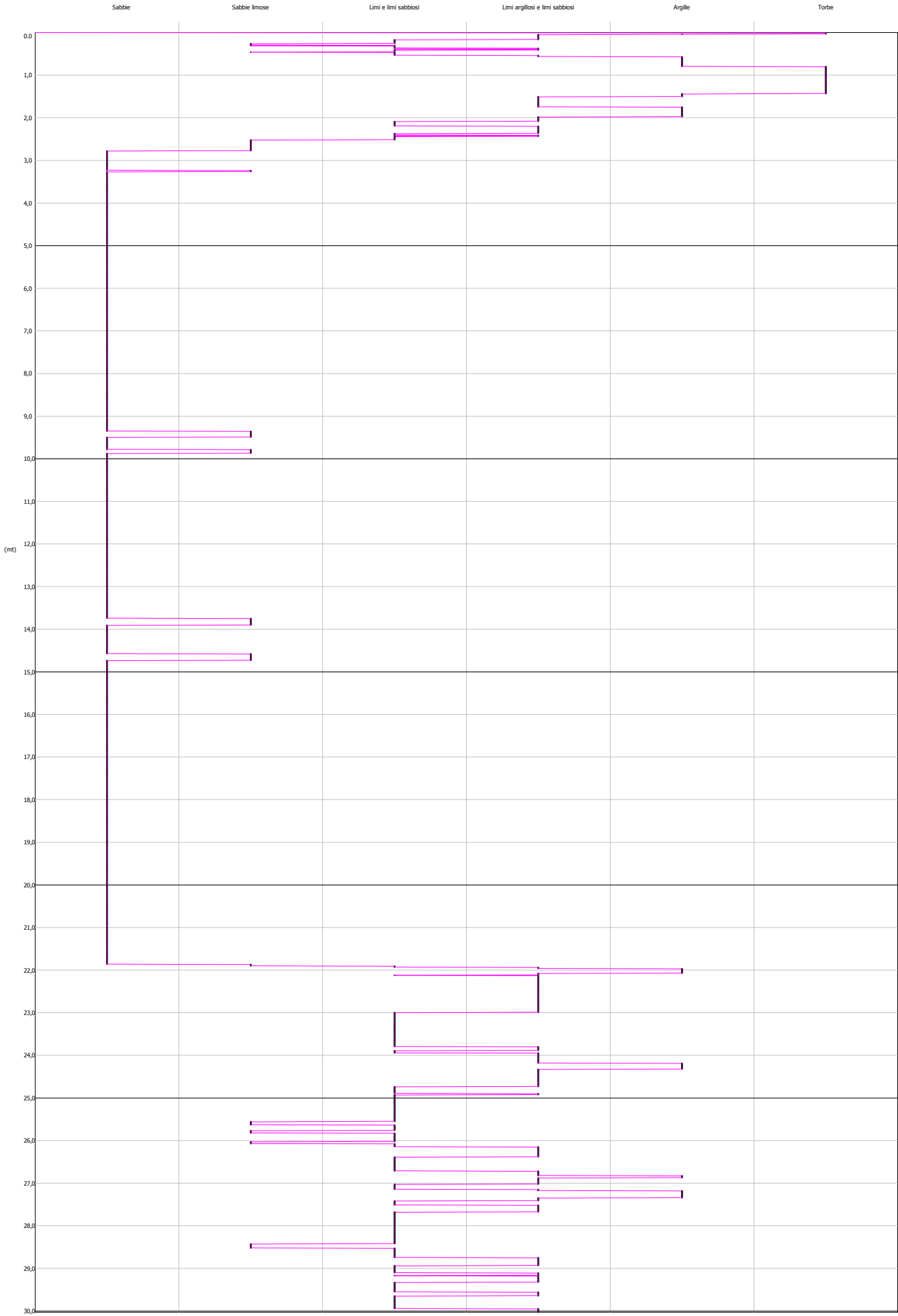


GRAFICO PROFONDITA' / VALUTAZIONI LITOLOGICHE (Robertson 1983)
PROVA: CPTU 3



STIMA PARAMETRI GEOTECNICI – CPTU 3

TERRENI COESIV I

Coesione non drenata

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Cu (Kg/cm²)
Strato 1	0,40	7,8	0,13	0,04	0,04	Terzaghi	0,39
Strato 2	0,90	13,1	0,83	0,12	0,12	Terzaghi	0,66
Strato 3	2,00	5,5	0,28	0,26	0,26	Terzaghi	0,28
Strato 4	2,70	12,0	0,21	0,43	0,33	Terzaghi	0,6
Strato 6	23,60	17,7	0,59	4,94	2,8	Terzaghi	0,89
Strato 7	27,40	24,4	0,82	5,48	3,07	Terzaghi	1,22
Strato 8	30,03	19,1	0,53	6,11	3,37	Terzaghi	0,96

Modulo Edometrico

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Eed (Kg/cm²)
Strato 1	0,40	7,8	0,13	0,04	0,04	Metodo generale del modulo Edometrico	37,83
Strato 2	0,90	13,1	0,83	0,12	0,12	Metodo generale del modulo Edometrico	47,88
Strato 3	2,00	5,5	0,28	0,26	0,26	Metodo generale del modulo Edometrico	29,53
Strato 4	2,70	12,0	0,21	0,43	0,33	Metodo generale del modulo Edometrico	46,84
Strato 6	23,60	17,7	0,59	4,94	2,8	Metodo generale del modulo Edometrico	46,33
Strato 7	27,40	24,4	0,82	5,48	3,07	Metodo generale del modulo Edometrico	48,8
Strato 8	30,03	19,1	0,53	6,11	3,37	Metodo generale del modulo Edometrico	43,97

Modulo di deformazione non drenato Eu

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Eu (Kg/cm²)
Strato 1	0,40	7,8	0,1	0,04	0,04	Cancelli 1980	291,11
Strato 2	0,90	13,1	0,8	0,12	0,12	Cancelli 1980	486,7
Strato 3	2,00	5,5	0,3	0,26	0,26	Cancelli 1980	196,51
Strato 4	2,70	12,0	0,2	0,43	0,33	Cancelli 1980	437,57

Strato 6	23,60	17,7	0,6	4,94	2,8	Cancelli 1980	558,69
Strato 7	27,40	24,4	0,8	5,48	3,07	Cancelli 1980	800,02
Strato 8	30,03	19,1	0,5	6,11	3,37	Cancelli 1980	589,7

Modulo di deformazione a taglio

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Modulo di deformazion e a taglio (Kg/cm²)
Strato 1	0,40	7,8	0,13	0,04	0,04	Imai & Tomauchi	98,23
Strato 2	0,90	13,1	0,83	0,12	0,12	Imai & Tomauchi	134,84
Strato 3	2,00	5,5	0,28	0,26	0,26	Imai & Tomauchi	79,35
Strato 4	2,70	12,0	0,21	0,43	0,33	Imai & Tomauchi	127,8
Strato 6	23,60	17,7	0,59	4,94	2,8	Imai & Tomauchi	162,06
Strato 7	27,40	24,4	0,82	5,48	3,07	Imai & Tomauchi	197,18
Strato 8	30,03	19,1	0,53	6,11	3,37	Imai & Tomauchi	169,77

Grado di sovraconsolidazione

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Ocr
Strato 1	0,40	7,8	0,13	0,04	0,04	P.W.Mayne 1991	3,4
Strato 2	0,90	13,1	0,83	0,12	0,12	P.W.Mayne 1991	6,05
Strato 3	2,00	5,5	0,28	0,26	0,26	P.W.Mayne 1991	2,28
Strato 4	2,70	12,0	0,21	0,43	0,33	P.W.Mayne 1991	6,89
Strato 6	23,60	17,7	0,59	4,94	2,8	P.W.Mayne 1991	9
Strato 7	27,40	24,4	0,82	5,48	3,07	P.W.Mayne 1991	9
Strato 8	30,03	19,1	0,53	6,11	3,37	P.W.Mayne 1991	9

Peso unità di volume

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Peso unità di volume (t/m³)
Strato 1	0,40	7,8	0,13	0,04	0,04	Meyerhof	1,81
Strato 2	0,90	13,1	0,83	0,12	0,12	Meyerhof	1,9
Strato 3	2,00	5,5	0,28	0,26	0,26	Meyerhof	1,75
Strato 4	2,70	12,0	0,21	0,43	0,33	Meyerhof	1,88
Strato 6	23,60	17,7	0,59	4,94	2,8	Meyerhof	1,92
Strato 7	27,40	24,4	0,82	5,48	3,07	Meyerhof	1,98
Strato 8	30,03	19,1	0,53	6,11	3,37	Meyerhof	1,93

Fattori di compressibilità C Crm

	Prof. Strato	qc	fs	Tensione	Tensione	C	Crm
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	(m)	(Kg/cm²)	(Kg/cm²)	litostatica totale (Kg/cm²)	litostatica efficace (Kg/cm²)		
Strato 1	0,40	7,8	0,13	0,04	0,04	0,23751	0,03088
Strato 2	0,90	13,1	0,83	0,12	0,12	0,16853	0,02191
Strato 3	2,00	5,5	0,28	0,26	0,26	0,30882	0,04015
Strato 4	2,70	12,0	0,21	0,43	0,33	0,17783	0,02312
Strato 6	23,60	17,7	0,59	4,94	2,8	0,14214	0,01848
Strato 7	27,40	24,4	0,82	5,48	3,07	0,12151	0,0158
Strato 8	30,03	19,1	0,53	6,11	3,37	0,13663	0,01776

Peso unità di volume saturo

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Peso unità di volume saturo (t/m³)
Strato 1	0,40	7,8	0,13	0,04	0,04	Meyerhof	1,89
Strato 2	0,90	13,1	0,83	0,12	0,12	Meyerhof	1,98
Strato 3	2,00	5,5	0,28	0,26	0,26	Meyerhof	1,83
Strato 4	2,70	12,0	0,21	0,43	0,33	Meyerhof	1,96
Strato 6	23,60	17,7	0,59	4,94	2,8	Meyerhof	2,0
Strato 7	27,40	24,4	0,82	5,48	3,07	Meyerhof	2,06
Strato 8	30,03	19,1	0,53	6,11	3,37	Meyerhof	2,01

Velocità onde di taglio

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Vs (m/s)
Strato 1	0,40	7,8	0,13	0,04	0,04	Jamiolkowsk i et al 1985	200,23
Strato 2	0,90	13,1	0,83	0,12	0,12	Jamiolkowsk i et al 1985	222,00
Strato 3	2,00	5,5	0,28	0,26	0,26	Jamiolkowsk i et al 1985	186,78
Strato 4	2,70	12,0	0,21	0,43	0,33	Jamiolkowsk i et al 1985	218,15
Strato 6	23,60	17,7	0,59	4,94	2,8	Jamiolkowsk i et al 1985	235,70
Strato 7	27,40	24,4	0,82	5,48	3,07	Jamiolkowsk i et al 1985	251,24
Strato 8	30,03	19,1	0,53	6,11	3,37	Jamiolkowsk i et al 1985	239,29

TERRENI INCOERENT I

Densità relativa

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Densità relativa (%)
Strato 1	0,40	7,8	0,13	0,04	0,04	Baldi 1978 - Schmertman n 1976	40,24
Strato 4	2,70	12,0	0,21	0,43	0,33	Baldi 1978 - Schmertman n 1976	21,32
Strato 5	21,90	95,7	0,75	2,63	1,54	Baldi 1978 - Schmertman n 1976	58,48

Strato 6	23,60	17,7	0,59	4,94	2,8	Baldi 1978 - Schmertman n 1976	5,0
Strato 7	27,40	24,4	0,82	5,48	3,07	Baldi 1978 - Schmertman n 1976	9,88
Strato 8	30,03	19,1	0,53	6,11	3,37	Baldi 1978 - Schmertman n 1976	5,0

Angolo di resistenza al taglio

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Angolo d'attrito (°)
Strato 1	0,40	7,8	0,13	0,04	0,04	Caquot	36,34
Strato 4	2,70	12,0	0,21	0,43	0,33	Caquot	27,6
Strato 5	21,90	95,7	0,75	2,63	1,54	Caquot	30,27
Strato 6	23,60	17,7	0,59	4,94	2,8	Caquot	18,94
Strato 7	27,40	24,4	0,82	5,48	3,07	Caquot	20,09
Strato 8	30,03	19,1	0,53	6,11	3,37	Caquot	18,4

Modulo di Young

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Modulo di Young (Kg/cm²)
Strato 1	0,40	7,8	0,13	0,04	0,04	Robertson & Campanella 1983	15,6
Strato 4	2,70	12,0	0,21	0,43	0,33	Robertson & Campanella 1983	24,0
Strato 5	21,90	95,7	0,75	2,63	1,54	Robertson & Campanella 1983	191,4
Strato 6	23,60	17,7	0,59	4,94	2,8	Robertson & Campanella 1983	35,4
Strato 7	27,40	24,4	0,82	5,48	3,07	Robertson & Campanella 1983	48,8
Strato 8	30,03	19,1	0,53	6,11	3,37	Robertson & Campanella 1983	38,2

Modulo Edometrico

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Modulo Edometrico (Kg/cm²)
Strato 1	0,40	7,8	0,13	0,04	0,04	Robertson & Campanella da Schmertmann	52,86
Strato 4	2,70	12,0	0,21	0,43	0,33	Robertson & Campanella da Schmertmann	22,29
Strato 5	21,90	95,7	0,75	2,63	1,54	Robertson & Campanella da Schmertmann	66,33
Strato 6	23,60	17,7	0,59	4,94	2,8	Robertson & Campanella da Schmertmann	37,26
Strato 7	27,40	24,4	0,82	5,48	3,07	Robertson & Campanella da	40,56

Strato 8	30,03	19,1	0,53	6,11	3,37	Schmertmann Robertson & Campanella da Schmertmann	44,01
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Modulo di deformazione a taglio

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	G (Kg/cm²)
Strato 1	0,40	7,8	0,13	0,04	0,04	Imai & Tomauchi	98,23
Strato 4	2,70	12,0	0,21	0,43	0,33	Imai & Tomauchi	127,8
Strato 5	21,90	95,7	0,75	2,63	1,54	Imai & Tomauchi	454,46
Strato 6	23,60	17,7	0,59	4,94	2,8	Imai & Tomauchi	162,06
Strato 7	27,40	24,4	0,82	5,48	3,07	Imai & Tomauchi	197,18
Strato 8	30,03	19,1	0,53	6,11	3,37	Imai & Tomauchi	169,77

Grado di sovraconsolidazione

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Ocr
Strato 1	0,40	7,8	0,13	0,04	0,04	Piacentini Righi 1978	>9
Strato 4	2,70	12,0	0,21	0,43	0,33	Piacentini Righi 1978	6,99
Strato 5	21,90	95,7	0,75	2,63	1,54	Piacentini Righi 1978	8,69
Strato 6	23,60	17,7	0,59	4,94	2,8	Piacentini Righi 1978	1,76
Strato 7	27,40	24,4	0,82	5,48	3,07	Piacentini Righi 1978	2,23
Strato 8	30,03	19,1	0,53	6,11	3,37	Piacentini Righi 1978	1,36

Modulo di reazione Ko

Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Ko	
Strato 1	0,40	7,8	0,13	0,04	0,04	Kulhawy & Mayne (1990)	0,98
Strato 4	2,70	12,0	0,21	0,43	0,33	Kulhawy & Mayne (1990)	0,31
Strato 5	21,90	95,7	0,75	2,63	1,54	Kulhawy & Mayne (1990)	0,44
Strato 6	23,60	17,7	0,59	4,94	2,8	Kulhawy & Mayne (1990)	0,00
Strato 7	27,40	24,4	0,82	5,48	3,07	Kulhawy & Mayne (1990)	0,00
Strato 8	30,03	19,1	0,53	6,11	3,37	Kulhawy & Mayne (1990)	0,00

Fattori di compressibilità C Crm

Fattori di compressione C e Crm							
	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	C	Crm
Strato 1	0,40	7,8	0,13	0,04	0,04	0,23751	0,03088
Strato 4	2,70	12,0	0,21	0,43	0,33	0,17783	0,02312
Strato 5	21,90	95,7	0,75	2,63	1,54	0,09482	0,01233
Strato 6	23,60	17,7	0,59	4,94	2,8	0,14214	0,01848
Strato 7	27,40	24,4	0,82	5,48	3,07	0,12151	0,0158
Strato 8	30,03	19,1	0,53	6,11	3,37	0,13663	0,01776

Peso unità di volume

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Peso unità di volume (t/m³)
Strato 1	0,40	7,8	0,13	0,04	0,04	Meyerhof	1,9
Strato 4	2,70	12,0	0,21	0,43	0,33	Meyerhof	1,8
Strato 5	21,90	95,7	0,75	2,63	1,54	Meyerhof	1,9
Strato 6	23,60	17,7	0,59	4,94	2,8	Meyerhof	1,8
Strato 7	27,40	24,4	0,82	5,48	3,07	Meyerhof	1,8
Strato 8	30,03	19,1	0,53	6,11	3,37	Meyerhof	1,8

Peso unità di volume saturo

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Peso unità di volume saturo (t/m³)
Strato 1	0,40	7,8	0,13	0,04	0,04	Meyerhof	2,2
Strato 4	2,70	12,0	0,21	0,43	0,33	Meyerhof	2,1
Strato 5	21,90	95,7	0,75	2,63	1,54	Meyerhof	2,2
Strato 6	23,60	17,7	0,59	4,94	2,8	Meyerhof	2,1
Strato 7	27,40	24,4	0,82	5,48	3,07	Meyerhof	2,1
Strato 8	30,03	19,1	0,53	6,11	3,37	Meyerhof	2,1

Liquefazione - Accelerazione sismica massima (g)=0,2

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Fattore di sicurezza a liquefazione
Strato 4	2,70	12,0	0,21	0,43	0,33	Robertson & Wride 1997	0,638
Strato 5	21,90	95,7	0,75	2,63	1,54	Robertson & Wride 1997	8,492
Strato 6	23,60	17,7	0,59	4,94	2,8	Robertson & Wride 1997	0,524
Strato 7	27,40	24,4	0,82	5,48	3,07	Robertson & Wride 1997	0,605
Strato 8	30,03	19,1	0,53	6,11	3,37	Robertson & Wride 1997	0,576

Velocità onde di taglio.

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Vs (m/s)
Strato 1	0,40	7,8	0,13	0,04	0,04	Jamiolkowsk	226,29

Strato 4	2,70	12,0	0,21	0,43	0,33	i et al 1985 Jamiolkowsk	250,40
Strato 5	21,90	95,7	0,75	2,63	1,54	i et al 1985 Jamiolkowsk	407,89
Strato 6	23,60	17,7	0,59	4,94	2,8	i et al 1985 Jamiolkowsk	274,35
Strato 7	27,40	24,4	0,82	5,48	3,07	i et al 1985 Jamiolkowsk	295,84
Strato 8	30,03	19,1	0,53	6,11	3,37	i et al 1985 Jamiolkowsk	279,30

Permeabilità

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	K (cm/s)
Strato 1	0,40	7,8	0,13	0,04	0,04	Piacentini- Righi 1988	1,75E-03
Strato 2	0,90	13,1	0,83	0,12	0,12	Piacentini- Righi 1988	1,00E-11
Strato 3	2,00	5,5	0,28	0,26	0,26	Piacentini- Righi 1988	2,18E-09
Strato 4	2,70	12,0	0,21	0,43	0,33	Piacentini- Righi 1988	1,26E-03
Strato 5	21,90	95,7	0,75	2,63	1,54	Piacentini- Righi 1988	1,00E-03
Strato 6	23,60	17,7	0,59	4,94	2,8	Piacentini- Righi 1988	2,03E-06
Strato 7	27,40	24,4	0,82	5,48	3,07	Piacentini- Righi 1988	1,53E-06
Strato 8	30,03	19,1	0,53	6,11	3,37	Piacentini- Righi 1988	2,05E-05

Coefficiente di consolidazione

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Coefficiente di consolidazio ne (cm ² /s)
Strato 1	0,40	7,8	0,13	0,04	0,04	Piacentini- Righi 1988	0
Strato 2	0,90	13,1	0,83	0,12	0,12	Piacentini- Righi 1988	3,93E-07
Strato 3	2,00	5,5	0,28	0,26	0,26	Piacentini- Righi 1988	3,593393E- 05
Strato 4	2,70	12,0	0,21	0,43	0,33	Piacentini- Righi 1988	0
Strato 5	21,90	95,7	0,75	2,63	1,54	Piacentini- Righi 1988	0
Strato 6	23,60	17,7	0,59	4,94	2,8	Piacentini- Righi 1988	0,1080426
Strato 7	27,40	24,4	0,82	5,48	3,07	Piacentini- Righi 1988	0,1116321
Strato 8	30,03	19,1	0,53	6,11	3,37	Piacentini- Righi 1988	1,177207

PROVA CPTU 4

Committente: Biopig s.s. di Cascone Luigi
Strumento utilizzato: PAGANI 200 kN (CPTU)
Prova eseguita in data: 16/10/2020
Profondità prova: 30,00 mt
Località: Zerbinate di Bondeno FE)

RESISTENZE

Profondità
qc Resistenza punta (Kg/cm²);
fs Resistenza laterale (Kg/cm²);
Tilt Inclinazione (°)
Temp Temperatura (°)
Fr fs/qcx100 (Schmertmann)
qcn qc normalizzata (Kg/cm²);
fsn fs normalizzata (Kg/cm²);
Uo Pressione neutrale intorno al cono (Kg/cm²);
U2 Pressione neutrale rilevata (Kg/cm²);
Fc Contenuto in materiale fine(%)

Profondità	qc	fs	U2	Tilt	Temp	qcx100	Fr	Uo	qcn	fsn	FC%
0.01	1.4	0.15	0.04	0.5	0.0	9.333	10.714	0.0	9.4	11.3	230.7
0.02	2.6	0.15	0.01	0.5	0.0	17.333	5.769	0.0	1.6	5.6	130.62
0.03	2.9	0.15	0.00	0.5	0.0	19.333	5.122	0.0	1.9	5.0	120.82
0.04	3.8	0.14	0.00	0.6	0.0	27.143	3.884	0.0	2.8	3.7	99.87
0.05	5.2	0.15	0.02	0.6	0.0	34.667	2.685	0.0	4.2	2.8	81.11
0.06	6.2	0.15	0.01	0.7	0.0	41.333	2.419	0.0	5.2	2.4	72.23
0.07	7.6	0.15	0.01	0.7	0.0	50.667	1.974	0.0	6.6	2.0	62.84
0.08	8.8	0.16	0.01	0.7	0.0	55.0	1.818	0.0	7.8	1.8	56.23
0.09	12.6	0.17	-0.02	0.7	0.0	74.118	1.349	0.0	11.6	1.3	43.46
0.10	15.1	0.18	-0.01	0.7	0.0	83.889	1.192	0.0	14.1	1.2	38.04
0.11	17.9	0.16	0.00	0.6	0.0	111.875	0.894	0.0	16.9	0.9	32.08
0.12	17.9	0.16	0.00	0.6	0.0	111.875	0.894	0.0	16.9	0.9	32.08
0.13	18.9	0.15	0.06	0.6	0.0	126.0	0.794	0.0	17.9	0.8	29.98
0.14	16.7	0.13	0.03	0.6	0.0	128.462	0.778	0.0	15.7	0.8	32.45
0.15	15.9	0.15	0.03	0.5	0.0	106.0	0.943	0.0	14.9	1.0	35.05
0.16	13.9	0.22	-0.04	0.5	0.0	69.5	1.439	0.0	12.9	1.5	42.38
0.17	13.5	0.22	-0.08	0.5	0.0	61.364	1.63	0.0	12.5	1.6	44.42
0.18	13.3	0.24	-0.15	0.5	0.0	55.417	1.805	0.0	12.3	1.8	46.22
0.19	13.4	0.25	-0.18	0.5	0.0	53.6	1.866	0.0	12.4	1.9	46.49
0.20	14.0	0.3	-0.13	0.6	0.0	46.667	2.143	0.0	13.0	2.2	47.29
0.21	14.1	0.33	-0.06	0.6	0.0	42.727	2.34	0.0	13.1	2.4	48.35
0.22	15.4	0.35	0.00	0.6	0.0	44.0	2.273	0.0	14.4	2.3	45.95
0.23	16.7	0.36	0.00	0.6	0.0	46.389	2.156	0.0	15.7	2.2	43.37
0.24	17.7	0.39	0.00	0.6	0.0	45.385	2.203	0.0	16.7	2.2	42.45
0.25	18.1	0.43	0.00	0.6	0.0	42.093	2.376	0.0	17.1	2.4	42.9
0.26	17.3	0.51	0.00	0.6	0.0	33.922	2.948	0.0	16.3	3.0	47.41
0.27	17.3	0.51	0.00	0.6	0.0	33.922	2.948	0.0	16.3	3.0	47.41
0.28	15.2	0.58	0.00	0.5	0.0	26.207	3.812	0.0	14.2	3.8	54.24
0.29	16.1	0.58	0.00	0.5	0.0	27.759	3.606	0.0	15.1	3.6	51.94
0.30	16.0	0.59	0.00	0.5	0.0	27.119	3.688	0.0	15.0	3.7	52.66
0.31	16.1	0.59	0.00	0.5	0.0	27.288	3.665	0.0	15.1	3.7	52.45
0.32	15.9	0.61	0.00	0.5	0.0	26.066	3.836	0.0	14.9	3.9	53.5
0.33	14.7	0.65	0.00	0.5	0.0	22.615	4.422	0.0	13.7	4.4	57.58
0.34	13.8	0.65	0.00	0.5	0.0	21.231	4.71	0.0	12.8	4.7	60.29
0.35	12.7	0.65	0.00	0.5	0.0	19.538	5.118	0.0	11.7	5.2	64.13
0.36	12.0	0.65	0.00	0.4	0.0	18.462	5.417	0.0	11.0	5.5	67.03
0.37	11.7	0.64	0.00	0.4	0.0	18.281	5.47	0.0	10.7	5.5	67.78
0.38	12.1	0.63	0.00	0.4	0.0	19.206	5.207	0.0	11.1	5.3	66.02
0.39	12.7	0.62	0.00	0.4	0.0	20.484	4.882	0.0	11.7	4.9	63.2
0.40	13.3	0.62	0.00	0.4	0.0	21.452	4.662	0.0	12.3	4.7	61.16
0.41	13.4	0.62	0.00	0.4	0.0	21.613	4.627	0.0	12.4	4.6	60.66
0.42	13.8	0.62	0.00	0.3	0.0	22.258	4.493	0.0	12.8	4.5	59.48

(Biopig s.s. di Cascone Luigi Ampliamento impianto zootecnico Zerbinate di Bondeno FE) 89

1.13	5.1	0.47	-0.13	0.5	0.0	10.851	9.216	0.0	4.1	9.6	109.52
1.14	5.0	0.44	-0.12	0.5	0.0	11.364	8.8	0.0	4.0	9.2	109.33
1.15	4.9	0.42	-0.11	0.5	0.0	11.667	8.571	0.0	3.9	8.9	109.19
1.16	4.9	0.38	-0.10	0.5	0.0	12.895	7.755	0.0	3.9	8.0	106.48
1.17	4.8	0.36	-0.09	0.6	0.0	13.333	7.5	0.0	3.8	7.9	106.95
1.18	4.8	0.35	-0.08	0.6	0.0	13.714	7.292	0.0	3.8	7.6	106
1.19	4.8	0.32	-0.06	0.5	0.0	15.0	6.667	0.0	3.8	7.0	103.9
1.20	4.8	0.32	-0.06	0.5	0.0	15.0	6.667	0.0	3.8	7.0	103.9
1.21	4.7	0.3	-0.03	0.6	0.0	15.667	6.383	0.0	3.7	6.6	103.34
1.22	4.7	0.28	-0.02	0.5	0.0	16.786	5.957	0.0	3.7	6.3	102.26
1.23	4.7	0.25	0.04	0.6	0.0	18.8	5.319	0.0	3.7	5.7	99.78
1.24	4.7	0.25	0.07	0.6	0.0	18.8	5.319	0.0	3.7	5.5	99.1
1.25	4.7	0.24	0.10	0.5	0.0	19.583	5.106	0.0	3.7	5.4	98.46
1.26	4.7	0.22	0.20	0.5	0.0	21.364	4.681	0.0	3.7	4.9	96.5
1.27	4.7	0.21	0.23	0.6	0.0	22.381	4.468	0.0	3.7	4.7	95.33
1.28	4.7	0.2	0.24	0.6	0.0	23.5	4.255	0.0	3.7	4.5	94.39
1.29	4.7	0.19	0.25	0.6	0.0	24.737	4.043	0.0	3.7	4.3	93.4
1.30	4.8	0.18	0.26	0.6	0.0	26.667	3.75	0.0	3.8	3.8	90.32
1.31	4.9	0.17	0.28	0.6	0.0	28.824	3.469	0.0	3.9	3.7	88.67
1.32	4.9	0.17	0.32	0.6	0.0	28.824	3.469	0.0	3.9	3.6	88.29
1.33	5.1	0.17	0.35	0.6	0.0	30.0	3.333	0.0	4.1	3.5	85.78
1.34	5.3	0.16	0.41	0.6	0.0	33.125	3.019	0.0	4.3	3.3	83.07
1.35	5.4	0.16	0.43	0.6	0.0	33.75	2.963	0.0	4.4	3.1	81.74
1.36	5.6	0.16	0.44	0.6	0.0	35.0	2.857	0.001	4.6	3.0	79.79
1.37	5.9	0.16	0.45	0.6	0.0	36.875	2.712	0.002	4.9	2.9	77.1
1.38	6.0	0.16	0.45	0.6	0.0	37.5	2.667	0.003	5.0	2.9	76.18
1.39	6.2	0.16	0.45	0.6	0.0	38.75	2.581	0.004	5.2	2.8	74.5
1.40	6.3	0.16	0.44	0.6	0.0	39.375	2.54	0.005	5.3	2.7	73.76
1.41	6.7	0.17	0.44	0.6	0.0	39.412	2.537	0.006	5.6	2.7	71.25
1.42	6.7	0.17	0.44	0.6	0.0	39.412	2.537	0.007	5.6	2.7	71.27
1.43	7.2	0.18	0.44	0.6	0.0	40.0	2.5	0.008	6.1	2.6	68.59
1.44	7.6	0.19	0.44	0.6	0.0	40.0	2.5	0.009	6.6	2.5	66.06
1.45	7.7	0.2	0.44	0.6	0.0	38.5	2.597	0.01	6.7	2.6	66.2
1.46	7.8	0.2	0.45	0.6	0.0	39.0	2.564	0.011	6.8	2.7	66.07
1.47	8.0	0.21	0.45	0.6	0.0	38.095	2.625	0.012	7.0	2.7	65.3
1.48	8.5	0.22	0.45	0.6	0.0	38.636	2.588	0.013	7.5	2.6	63.46
1.49	8.4	0.22	0.44	0.6	0.0	38.182	2.619	0.014	7.4	2.7	64.32
1.50	8.5	0.23	0.45	0.6	0.0	36.957	2.706	0.015	7.5	2.8	64.46
1.51	8.5	0.25	0.45	0.6	0.0	34.0	2.941	0.016	7.5	3.0	65.74
1.52	8.4	0.26	0.45	0.6	0.0	32.308	3.095	0.017	7.4	3.2	67.32
1.53	8.1	0.27	0.44	0.6	0.0	30.0	3.333	0.018	7.1	3.5	69.87
1.54	9.0	0.28	0.44	0.6	0.0	28.571	3.5	0.019	7.0	3.6	70.94
1.55	7.7	0.3	0.43	0.6	0.0	25.667	3.896	0.02	6.7	4.0	73.89
1.56	7.6	0.3	0.43	0.6	0.0	25.333	3.947	0.021	6.5	4.1	75.44
1.57	7.7	0.3	0.43	0.6	0.0	25.667	3.896	0.022	6.7	4.1	74.29
1.58	7.4	0.31	0.43	0.6	0.0	23.871	4.189	0.023	6.3	4.4	77.71
1.59	7.3	0.32	0.42	0.6	0.0	22.813	4.384	0.024	6.2	4.6	78.9
1.60	7.3	0.32	0.42	0.6	0.0	22.813	4.384	0.025	6.2	4.6	79
1.61	7.4	0.32	0.42	0.6	0.0	23.125	4.324	0.026	6.3	4.5	77.99
1.62	7.6	0.31	0.43	0.6	0.0	24.516	4.079	0.027	6.5	4.2	76.01
1.63	7.7	0.3	0.43	0.6	0.0	25.667	3.896	0.028	6.6	4.1	74.46
1.64	8.0	0.3	0.43	0.6	0.0	26.667	3.75	0.029	6.9	3.8	72.11
1.65	9.0	0.28	0.43	0.6	0.0	32.143	3.111	0.03	7.9	3.2	65.26
1.66	9.0	0.28	0.43	0.6	0.0	32.143	3.111	0.031	7.9	3.2	65.27
1.67	9.9	0.27	0.44	0.6	0.0	36.667	2.727	0.032	8.8	2.8	60.29
1.68	10.3	0.27	0.44	0.6	0.0	38.148	2.621	0.033	9.2	2.7	58.51
1.69	10.7	0.26	0.44	0.6	0.0	41.154	2.43	0.034	9.6	2.5	56.49
1.70	10.7	0.26	0.44	0.6	0.0	41.154	2.43	0.035	9.6	2.5	56.48
1.71	10.6	0.25	0.46	0.6	0.0	42.4	2.358	0.036	9.5	2.5	56.41
1.72	10.4	0.25	0.46	0.6	0.0	41.6	2.404	0.037	9.3	2.4	56.82
1.73	10.4	0.25	0.48	0.6	0.0	41.6	2.404	0.038	9.3	2.5	57.18
1.74	10.1	0.25	0.49	0.6	0.0	40.4	2.475	0.039	9.0	2.6	58.46
1.75	9.6	0.25	0.49	0.6	0.0	38.4	2.604	0.04	8.5	2.7	60.47
1.76	9.3	0.26	0.48	0.6	0.0	35.769	2.796	0.041	8.2	2.9	62.92
1.77	9.0	0.27	0.48	0.6	0.0	33.333	3.0	0.042	7.9	3.1	64.86
1.78	8.8	0.29	0.48	0.6	0.0	30.345	3.295	0.043	7.7	3.4	67
1.79	8.5	0.3	0.46	0.6	0.0	28.333	3.529	0.044	7.4	3.6	69.35
1.80	8.3	0.32	0.46	0.6	0.0	25.938	3.855	0.045	7.2	3.9	71.65
1.81	8.0	0.32	0.46	0.6	0.0	25.0	4.0	0.046	6.9	4.1	73.64
1.82	7.6	0.32	0.45	0.6	0.0	23.75	4.211	0.047	6.5	4.4	76.53

2.53	15.7	0.22	-0.17	0.7	0.0	71.364	1.401	0.118	14.4	1.4	39.91
2.54	16.3	0.21	-0.16	0.7	0.0	77.619	1.288	0.119	14.9	1.3	38.39
2.55	16.9	0.21	-0.16	0.7	0.0	80.476	1.243	0.12	15.5	1.3	37.12
2.56	17.4	0.21	-0.16	0.7	0.0	82.857	1.207	0.121	16.0	1.2	36.12
2.57	17.7	0.2	-0.15	0.7	0.0	85.5	1.13	0.122	16.3	1.2	35.5
2.58	18.0	0.19	-0.16	0.7	0.0	94.377	1.056	0.123	16.7	1.1	33.88
2.59	18.0	0.18	-0.16	0.7	0.0	100.0	1.0	0.124	16.7	1.0	33.38
2.60	18.0	0.17	-0.16	0.7	0.0	105.882	0.944	0.125	16.7	0.9	32.74
2.61	17.4	0.14	-0.16	0.7	0.0	124.286	0.805	0.126	16.0	0.8	32.02
2.62	17.4	0.14	-0.16	0.7	0.0	124.286	0.805	0.127	16.0	0.8	32.02
2.63	16.4	0.11	-0.16	0.7	0.0	149.091	0.671	0.128	15.6	0.7	31.93
2.64	16.0	0.11	-0.16	0.7	0.0	145.455	0.688	0.129	14.6	0.7	32.65
2.65	15.5	0.12	-0.16	0.7	0.0	129.167	0.774	0.13	14.1	0.8	34.24
2.66	15.6	0.13	-0.15	0.7	0.0	120.0	0.833	0.131	14.2	0.8	34.59
2.67	15.9	0.14	-0.15	0.7	0.0	113.571	0.881	0.132	14.5	0.9	34.61
2.68	15.5	0.15	-0.15	0.7	0.0	108.667	0.92	0.133	14.9	0.9	34.67
2.69	16.7	0.16	-0.15	0.7	0.0	104.377	0.958	0.134	15.3	1.0	34.57
2.70	17.3	0.18	-0.15	0.7	0.0	96.111	1.04	0.135	15.9	1.1	35.17
2.71	17.5	0.2	-0.15	0.7	0.0	87.5	1.143	0.136	16.1	1.2	35.76
2.72	17.8	0.21	-0.15	0.7	0.0	84.762	1.18	0.137	16.5	1.2	35.59
2.73	18.4	0.21	-0.15	0.7	0.0	87.619	1.141	0.138	17.1	1.2	34.62
2.74	18.5	0.2	-0.15	0.7	0.0	92.5	1.081	0.139	17.2	1.1	33.74
2.75	18.7	0.17	-0.15	0.7	0.0	110.0	0.909	0.14	17.4	1.0	32.22
2.76	19.0	0.16	-0.15	0.7	0.0	118.75	0.842	0.141	17.6	0.9	30.84
2.77	19.4	0.15	-0.15	0.7	0.0	129.333	0.773	0.142	18.0	0.8	29.71
2.78	20.3	0.14	-0.15	0.7	0.0	145.0	0.69	0.143	18.9	0.7	28.36
2.79	20.6	0.15	-0.15	0.7	0.0	137.333	0.728	0.144	19.2	0.7	28.07
2.80	20.8	0.15	-0.15	0.7	0.0	137.333	0.728	0.145	19.2	0.8	28.07
2.81	20.8	0.14	-0.15	0.7	0.0	148.571	0.673	0.146	19.4	0.7	27.28
2.82	20.7	0.14	-0.15	0.7	0.0	147.857	0.676	0.147	19.3	0.7	27.31
2.83	20.2	0.14	-0.15	0.7	0.0	144.286	0.693	0.148	18.8	0.7	27.99
2.84	19.5	0.14	-0.15	0.7	0.0	139.286	0.718	0.149	18.1	0.7	28.88
2.85	17.8	0.14	-0.15	0.7	0.0	127.143	0.787	0.15	16.5	0.8	31.46
2.86	16.9	0.14	-0.15	0.7	0.0	120.714	0.828	0.151	15.5	0.8	33.07
2.87	16.0	0.14	-0.15	0.7	0.0	114.286	0.875	0.152	14.6	0.9	34.87
2.88	14.4	0.15	-0.15	0.7	0.0	96.0	1.042	0.153	13.0	1.1	38.69
2.89	14.4	0.15	-0.15	0.7	0.0	96.0	1.042	0.154	13.0	1.1	38.69
2.90	13.6	0.17	-0.14	0.8	0.0	80.0	1.25	0.155	12.2	1.3	41.97
2.91	13.6	0.18	-0.14	0.8	0.0	75.556	1.324	0.156	12.2	1.4	42.85
2.92	13.7	0.19	-0.14	0.8	0.0	72.105	1.387	0.157	12.3	1.5	43.43
2.93	13.9	0.23	-0.14	0.8	0.0	60.435	1.655	0.158	12.5	1.7	44.79
2.94	14.1	0.24	-0.14	0.8	0.0	58.75	1.702	0.159	12.7	1.8	45.19
2.95	14.2	0.26	-0.14	0.8	0.0	54.615	1.831	0.16	12.8	1.9	45.9
2.96	14.3	0.27	-0.14	0.8	0.0	52.963	1.888	0.161	12.9	2.0	46.35
2.97	14.4	0.29	-0.14	0.8	0.0	49.655	2.014	0.162	13.0	2.1	46.63
2.98	14.2	0.29	-0.14	0.8	0.0	49.655	2.014	0.163	13.0	2.1	46.63
2.99	13.8	0.26	-0.14	0.8	0.0	53.077	1.884	0.164	12.4	2.0	46.9
3.00	13.4	0.25	-0.14	0.8	0.0	53.6	1.866	0.165	12.0	1.9	47.31
3.01	13.1	0.24	-0.15	0.8	0.0	54.583	1.832	0.166	11.7	1.9	48.02
3.02	12.8	0.24	-0.15	0.8	0.0	53.333	1.875	0.167	11.4	1.9	48.61
3.03	12.8	0.24	-0.15	0.8	0.0	53.333	1.875	0.168	11.4	1.9	48.62
3.04	12.8	0.24	-0.15	0.8	0.0	53.333	1.875	0.169	11.4	1.9	48.62
3.05	13.8	0.17	-0.07	0.8	0.0	81.176	1.237	0.17	12.4	1.3	41.49
3.06	13.6	0.18	-0.07	0.8	0.0	75.556	1.324	0.171	12.2	1.3	42.53
3.07	13.3	0.19	-0.08	0.8	0.0	70.0	1.429	0.172	11.9	1.5	44.02
3.08	13.1	0.2	-0.09	0.8	0.0	65.5	1.527	0.173	11.7	1.6	45.37
3.09	13.1	0.21	-0.09	0.8	0.0	67.169	1.736	0.174	10.6	1.8	49.23
3.10	11.3	0.19	-0.09	0.8	0.0	39.474	1.681	0.175	9.8	1.8	50.77
3.11	10.5	0.17	-0.09	0.8	0.0	61.765	1.619	0.176	9.1	1.7	51.99
3.12	9.8	0.16	-0.09	0.8	0.0	61.25	1.633	0.177	8.4	1.8	54.52
3.13	8.6	0.18	-0.12	0.8	0.0	47.778	2.093	0.178	7.2	2.3	61.95
3.14	7.8	0.19	-0.15	0.8	0.0	41.053	2.436	0.179	6.4	2.7	67.79
3.15	7.2	0.2	-0.13	0.8	0.0	36.0	2.778	0.18	5.7	3.1	73.32
3.16	5.9	0.23	0.06	0.8	0.0	25.652	3.898	0.181	4.4	4.3	87.59
3.17	5.6	0.21	0.10	0.8	0.0	26.667	3.75	0.182	4.1	4.2	89.4
3.18	5.6	0.2	0.13	0.8	0.0	28.0	3.571	0.183	4.1	3.9	87.89
3.19	5.7	0.19	0.17	0.8	0.0	30.0	3.333	0.184	4.2	3.8	86.38
3.20	6.1	0.2	0.20	0.8	0.0	30.5	3.279	0.185	4.6	3.6	82.7
3.21	7.2	0.2	0.24	0.8	0.0	37.0	2.703	0.186	3.0	71.9	91.8
3.22	8.3	0.2	0.24	0.8	0.0	41.5	2.41	0.187	6.9	2.6	65.65

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3.23	9.2	0.21	0.25	0.8	0.0	43.81	2.283	0.188	7.8	2.5	61.35
3.24	9.9	0.21	0.25	0.8	0.0	47.143	2.121	0.189	8.4	2.3	57.93
3.25	10.6	0.21	0.24	0.8	0.0	50.476	1.981	0.19	9.1	2.2	55.24
3.26	10.4	0.21	0.23	0.8	0.0	49.524	2.019	0.191	9.1	2.1	55.4
3.27	9.9	0.19	0.23	0.8	0.0	52.105	1.919	0.192	8.4	2.0	56.24
3.28	8.7	0.15	0.24	0.8	0.0	58.0	1.724	0.193	7.3	1.9	58.85
3.29	9.5	0.15	0.24	0.8	0.0	63.333	1.579	0.194	8.0	1.7	55.11
3.30	11.2	0.18	0.27	0.8	0.0	62.222	1.607	0.195	9.7	1.7	50.47
3.31	13.5	0.19	0.27	0.7	0.0	71.053	1.407	0.196	12.1	1.5	43.81
3.32	16.1	0.19	0.28	0.8	0.0	84.737	1.18	0.197	14.6	1.2	37.8
3.33	21.1	0.2	0.26	0.7	0.0	105.5	0.948	0.198	19.6	1.0	30.28
3.34	22.3	0.21	0.17	0.8	0.0	106.19	0.942	0.199	20.8	1.0	29.15
3.35	22.8	0.21	0.11	0.8	0.0	108.571	0.921	0.2	21.4	1.0	28.66
3.36	22.7	0.2	0.09	0.8	0.0	113.5	0.881	0.201	21.2	0.9	28.26
3.37	21.9	0.19	0.09	0.8	0.0	115.263	0.868	0.202	20.4	0.9	28.86
3.38	20.7	0.18	0.09	0.8	0.0	115.0	0.87	0.203	19.2	0.9	29.88
3.39	19.5	0.15	0.09	0.8	0.0	130.0	0.679	0.204	18.0	0.8	30.1
3.40	18.7	0.15	0.09	0.8	0.0	124.667	0.802	0.205	17.3	0.8	31
3.41	16.9	0.16	0.09	0.8	0.0	105.625	0.947	0.206	15.4	1.0	34.58
3.42	15.9	0.16	0.13	0.8	0.0	99.375	1.006	0.207	14.4	1.1	36.65
3.43	13.6	0.18	0.41	0.8	0.0	75.556	1.324	0.208	12.1	1.4	42.92
3.44	13.6	0.18	0.41	0.8	0.0	75.556	1.324	0.209	12.1	1.4	42.92
3.45	11.1	0.2	0.53	0.8	0.0	55.5	1.802	0.21	9.6	1.9	52.47
3.46	10.0	0.21	0.58	0.8	0.0	47.619	2.1	0.211	8.5	2.3	57.68
3.47	9.1	0.23	0.66	0.8	0.0	39.565	2.527	0.212	7.6	2.7	63.19
3.48	7.8	0.26	0.85	0.8	0.0	30.0	3.333	0.213	6.4	3.6	73.09
3.49	7.3	0.27	0.97	0.8	0.0	27.037	3.699	0.214	5.8	4.1	78.5
3.50	6.6	0.28	1.1	0.8	0.0	23.571	4.242	0.215	5.1	4.7	85.27
3.51	6.2	0.28	1.39	0.8	0.0	22.143	4.516	0.216	4.7	5.1	89.65
3.52	5.9	0.26	1.82	0.8	0.0	22.692	4.407	0.217	4.4	5.0	91.19
3.53	5.9	0.26	1.82	0.8	0.0	22.692	4.407	0.218	4.4	5.0	91.21
3.54	7.0	0.25	1.88	0.8	0.0	28.0	3.571	0.219	5.5	3.9	79.32
3.55	8.0	0.23	1.88	0.8	0.0	34.783	2.875	0.22	6.5	3.2	70.24
3.56	11.0	0.22	1.59	0.7	0.0	50.0	2.0	0.221	9.5	2.2	54.42
3.57	12.4	0.21	1.15	0.8	0.0	59.048	1.694	0.222	10.9	1.8	48.82
3.58	13.4	0.2	1.01	0.8	0.0	67.0	1.493	0.223	11.9	1.6	44.73
3.59	14.4	0.19	0.93	0.8	0.0	75.789	1.319	0.224	12.9	1.4	41.54
3.60	15.2	0.18	0.86	0.8	0.0	84.444	1.184	0.225	13.7	1.2	38.97
3.61	15.2	0.18	0.86	0.8	0.0	84.444	1.184	0.226	13.7	1.2	38.97
3.62	15.3	0.16	0.86	0.8	0.0	95.625	1.046	0.227	13.8	1.1	37.71
3.63	19.1	0.16	0.87	0.8	0.0	119.375	0.838	0.228	17.6	0.9	30.86
3.64	19.1	0.16	0.87	0.8	0.0	119.375	0.838	0.229	17.6	0.9	30.87
3.65	25.0	0.21	0.88	0.8	0.0	119.048	0.84	0.23	23.5	0.9	26.4
3.66	28.4	0.22	0.84	0.8	0.0	128.636	0.777	0.231	26.8	0.8	23.77
3.67	31.4	0.22	0.84	0.8	0.0	142.722	0.701	0.232	29.9	0.7	21.12
3.68	38.4	0.21	0.52	0.8	0.0	182.857	0.547	0.233	36.9	0.6	16.9
3.69	40.9	0.23	0.45	0.8	0.0	177.826	0.562	0.234	39.4	0.6	16.13
3.70	41.8	0.23	0.36	0.8	0.0	181.739	0.55	0.235	40.3	0.6	15.97
3.71	42.1	0.24	0.30	0.8	0.0	171.25	0.584	0.236	39.4	0.6	16.48
3.72	36.9	0.21	0.24	0.8	0.0	175.04	0.569	0.237	35.4	0.6	17.78
3.73	36.9	0.21	0.24	0.8	0.0	175.04	0.569	0.238	35.4	0.6	17.78
3.74	30.4	0.23	0.23	0.8	0.0	132.174	0.757	0.239	28.9	0.8	22.3
3.75	26.0	0.25	0.24	0.8	0.0	104.0	0.962	0.24	24.5	1.0	26.98
3.76	26.7	0.29	0.25	0.8	0.0	92.069	1.086	0.241	25.2	1.1	27.37
3.77	31.9	0.31	0.26	0.8	0.0	102.903	0.972	0.242	30.3	1.0	23.08
3.78	38.4	0.33	0.28	0.8	0.0	116.857	0.859	0.243	36.9	0.9	20.77
3.79	44.3	0.35	0.30	0.8	0.0	126.571	0.79	0.244	42.8	0.8	17.56
3.80	56.5	0.36	0.30	0.8	0.0	156.944	0.637	0.245	55.0	0.6	13.26
3.81	60.7	0.36	0.30	0.8	0.0	168.611	0.593	0.246	59.2	0.6	12.11
3.82	64.8	0.35	0.30	0.8	0.0	185.143	0.54	0.247	63.3	0.6	11.03
3.83	66.4	0.35	0.30	0.8	0.0	189.714	0.527	0.248	64.9	0.5	10.67
3.84	66.4	0.35	0.30	0.8	0.0	189.714	0.527	0.249	64.9	0.5	10.67
3.85	70.2	0.35	0.30	0.8	0.0	200.571	0.459	0.25	68.7	0.5	9.88
3.86	72.2	0.36	0.30	0.8	0.0	200.556	0.499	0.251	70.6	0.5	9.51
3.87	75.5	0.36	0.29	0.8	0.0	209.722	0.477	0.252	74.0	0.5	8.99
3.88	76.3	0.37	0.27	0.8	0.0	206.216	0.485	0.253	74.8	0.5	8.94
3.89	76.6	0.38	0.22	0.8	0.0	201.579	0.496	0.254	75.1	0.5	9.05
3.90	77.6	0.42	0.24	0.8	0.0	184.765	0.541	0.255	76.0	0.5	9.29
3.91	78.7	0.43	0.00	0.8	0.0	183.023	0.536	0.256	77.2	0.6	9.24
3.92	79.8	0.43	-0.01	0.8	0.0	185.581	0.539	0.257	78.3	0.5	9.05

5.33	73.1	0.48	0.43	1.1	0.0	152.292	0.657	0.398	71.4	0.7	10.98
5.34	72.9	0.49	0.43	1.1	0.0	148.776	0.672	0.399	71.2	0.7	11.1
5.35	72.7	0.5	0.43	1.0	0.0	145.4	0.688	0.4	71.0	0.7	11.25
5.36	72.7	0.5	0.43	1.0	0.0	145.4	0.688	0.401	71.0	0.7	11.25
5.37	72.6	0.5	0.43	1.1	0.0	145.4	0.689	0.402	70.9	0.7	11.3
5.38	72.7	0.5	0.43	1.1	0.0	145.4	0.688	0.403	71.0	0.7	11.32
5.39	72.6	0.5	0.43	1.1	0.0	145.2	0.689	0.404	70.9	0.7	11.36
5.40	72.6	0.5	0.43	1.1	0.0	145.2	0.689	0.405	70.9	0.7	11.36
5.41	72.5	0.5	0.43	1.1	0.0	145.0	0.69	0.406	70.7	0.7	11.39
5.42	72.6	0.5	0.43	1.1	0.0	145.2	0.689	0.407	70.9	0.7	11.37
5.43	72.7	0.5	0.43	1.1	0.0	145.4	0.688	0.408	71.0	0.7	11.33
5.44	72.7	0.5	0.43	1.1	0.0	145.4	0.688	0.409	71.0	0.7	11.28
5.45	72.7	0.5	0.43	1.1	0.0	145.4	0.688	0.41	71.0	0.7	11.25
5.46	72.6	0.49	0.43	1.1	0.0	148.163	0.675	0.411	70.9	0.7	11.25
5.47	72.4	0.49	0.44	1.1	0.0	147.755	0.677	0.412	70.7	0.7	11.29
5.48	72.4	0.49	0.44	1.1	0.0	147.755	0.677	0.413	70.7	0.7	11.3
5.49	72.3	0.5	0.44	1.1	0.0	144.6	0.692	0.414	70.6	0.7	11.33
5.50	72.4	0.5	0.44	1.1	0.0	144.8	0.691	0.415	70.7	0.7	11.32
5.51	72.8	0.5	0.44	1.1	0.0	145.6	0.687	0.416	71.1	0.7	11.23
5.52	72.8	0.49	0.44	1.1	0.0	148.571	0.673	0.417	71.1	0.7	11.21
5.53	72.8	0.49	0.44	1.1	0.0	148.571	0.673	0.418	71.1	0.7	11.2
5.54	72.8	0.49	0.44	1.1	0.0	148.571	0.673	0.419	71.1	0.7	11.17
5.55	72.7	0.49	0.44	1.1	0.0	148.367	0.674	0.42	71.0	0.7	11.18
5.56	72.6	0.49	0.44	1.1	0.0	148.163	0.675	0.421	70.9	0.7	11.18
5.57	72.2	0.49	0.44	1.1	0.0	147.347	0.679	0.422	70.5	0.7	11.27
5.58	72.1	0.49	0.44	1.1	0.0	147.143	0.68	0.423	70.4	0.7	11.28
5.59	71.4	0.49	0.44	1.1	0.0	145.714	0.686	0.424	69.8	0.7	11.43
5.60	71.6	0.49	0.44	1.1	0.0	145.102	0.689	0.425	69.4	0.7	11.5
5.61	70.1	0.49	0.44	1.1	0.0	143.061	0.699	0.429	68.5	0.7	11.74
5.62	70.1	0.49	0.44	1.1	0.0	143.061	0.699	0.427	68.5	0.7	11.74
5.63	69.2	0.49	0.44	1.1	0.0	141.224	0.708	0.428	67.6	0.7	11.97
5.64	68.8	0.49	0.45	1.1	0.0	140.408	0.712	0.429	67.2	0.7	12.09
5.65	68.3	0.5	0.45	1.1	0.0	136.6	0.732	0.43	66.7	0.7	12.23
5.66	68.0	0.5	0.45	1.1	0.0	136.0	0.735	0.431	66.3	0.8	12.35
5.67	67.9	0.5	0.45	1.1	0.0	135.8	0.736	0.432	66.2	0.8	12.38
5.68	67.8	0.5	0.45	1.1	0.0	135.6	0.737	0.433	66.1	0.8	12.39
5.69	67.7	0.5	0.45	1.1	0.0	135.4	0.739	0.434	66.0	0.8	12.41
5.70	67.3	0.5	0.45	1.1	0.0	134.6	0.743	0.435	65.6	0.8	12.49
5.71	67.3	0.5	0.45	1.1	0.0	134.6	0.743	0.436	65.6	0.8	12.49
5.72	67.1	0.49	0.45	1.1	0.0	136.939	0.73	0.437	65.4	0.8	12.51
5.73	67.1	0.49	0.45	1.1	0.0	136.939	0.73	0.438	65.4	0.7	12.42
5.74	67.1	0.48	0.45	1.1	0.0	139.792	0.715	0.439	65.4	0.7	12.38
5.75	67.1	0.48	0.45	1.1	0.0	139.792	0.715	0.44	65.4	0.7	12.36
5.76	67.1	0.48	0.45	1.1	0.0	139.792	0.715	0.441	65.4	0.7	12.32
5.77	67.0	0.47	0.45	1.1	0.0	142.553	0.701	0.442	65.7	0.7	12.25
5.78	67.0	0.47	0.45	1.1	0.0	142.553	0.701	0.443	65.7	0.7	12.21
5.79	67.1	0.47	0.46	1.1	0.0	142.766	0.7	0.444	65.4	0.7	12.16
5.80	66.6	0.46	0.46	1.1	0.0	144.783	0.691	0.445	64.9	0.7	12.21
5.81	66.3	0.46	0.46	1.1	0.0	144.13	0.694	0.446	64.7	0.7	12.28
5.82	66.0	0.46	0.46	1.1	0.0	143.478	0.697	0.447	64.4	0.7	12.32
5.83	65.6	0.46	0.46	1.1	0.0	142.609	0.701	0.448	64.0	0.7	12.41
5.84	65.6	0.46	0.46	1.1	0.0	141.304	0.708	0.449	63.4	0.7	12.54
5.85	64.6	0.46	0.46	1.1	0.0	140.435	0.712	0.45	63.0	0.7	12.64
5.86	64.2	0.46	0.46	1.1	0.0	139.565	0.717	0.451	62.6	0.7	12.71
5.87	63.2	0.45	0.46	1.1	0.0	140.444	0.712	0.452	61.5	0.7	12.95
5.88	63.2	0.45	0.46	1.1	0.0	140.444	0.712	0.453	61.5	0.7	12.95
5.89	62.0	0.45	0.46	1.1	0.0	137.778	0.726	0.454	60.3	0.7	13.22
5.90	61.2	0.45	0.46	1.1	0.0	136.0	0.735	0.455	59.6	0.8	13.42
5.91	60.5	0.45	0.46	1.1	0.0	134.444	0.744	0.456	58.9	0.8	13.58
5.92	58.7	0.45	0.46	1.1	0.0	130.444	0.767	0.457	57.1	0.8	14.08
5.93	57.8	0.44	0.46	1.1	0.0	131.364	0.761	0.458	56.1	0.8	14.36
5.94	56.8	0.44	0.46	1.1	0.0	129.091	0.775	0.459	55.1	0.8	14.63
5.95	55.5	0.44	0.46	1.1	0.0	126.136	0.793	0.46	53.9	0.8	14.98
5.96	52.7	0.44	0.46	1.1	0.0	119.773	0.835	0.461	51.0	0.7	15.97
5.97	51.0	0.44	0.46	1.1	0.0	115.909	0.863	0.462	49.9	0.9	16.66
5.98	49.5	0.45	0.46	1.1	0.0	110.0	0.909	0.463	47.9	0.9	17.27
5.99	46.5	0.44	0.46	1.1	0.0	105.682	0.946	0.464	44.8	1.0	18.38
6.00	45.4	0.44	0.46	1.1	0.0	103.182	0.969	0.465	43.8	1.0	18.89
6.01	44.8	0.45	0.47	1.1	0.0	99.556	1.004	0.466	43.7	1.0	19.3
6.02	44.8	0.45	0.47	1.1	0.0	99.556	1.004	0.467	43.2	1.0	19.3

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6.03	44.8	0.45	0.47	1.1	0.0	99.556	1.004	0.468	43.2	1.0	19.31
6.04	53.8	0.4	0.51	1.1	0.0	134.5	0.743	0.469	52.2	0.8	14.82
6.05	57.7	0.4	0.51	1.1	0.0	144.25	0.693	0.47	56.0	0.7	13.76
6.06	64.4	0.42	0.46	1.1	0.0	153.333	0.652	0.471	62.8	0.7	12.12
6.07	68.3	0.44	0.35	1.1	0.0	155.227	0.644	0.472	66.7	0.7	11.55
6.08	72.4	0.46	0.41	1.1	0.0	157.391	0.635	0.473	70.7	0.7	10.92
6.09	78.4	0.46	0.34	1.1	0.0	170.435	0.587	0.474	76.8	0.6	9.74
6.10	80.4	0.46	0.29	1.1	0.0	174.783	0.572	0.475	78.8	0.6	9.372
6.11	81.8	0.45	0.31	1.1	0.0	181.778	0.55	0.476	80.1	0.6	9
6.12	82.7	0.45	0.36	1.1	0.0	183.778	0.544	0.477	81.0	0.6	8.85
6.13	84.3	0.46	0.39	1.1	0.0	183.261	0.546	0.478	82.7	0.6	8.74
6.14	85.7	0.47	0.39	1.1	0.0	182.34	0.548	0.479	84.1	0.6	8.59
6.15	87.2	0.48	0.39	1.1	0.0	181.667	0.55	0.48	85.5	0.6	8.43
6.16	91.0	0.49	0.40	1.1	0.0	185.714	0.538	0.481	89.4	0.5	8.01
6.17	91.0	0.49	0.40	1.1	0.0	185.714	0.538	0.482	89.4	0.5	8.01
6.18	93.7	0.51	0.40	1.1	0.0	183.725	0.544	0.483	92.1	0.6	7.81
6.19	93.7	0.51	0.40	1.1	0.0	183.725	0.544	0.484	92.1	0.6	7.88
6.20	91.9	0.52	0.41	1.1	0.0	176.731	0.566	0.485	90.2	0.6	8.17
6.21	90.4	0.51	0.41	1.1	0.0	177.255	0.564	0.486	88.8	0.6	8.27
6.22	88.6	0.51	0.41	1.1	0.0	173.725	0.576	0.487	87.0	0.6	8.56
6.23	86.9	0.52	0.41	1.1	0.0	167.115	0.598	0.488	85.2	0.6	8.9
6.24	83.0	0.55	0.41	1.1	0.0	150.909	0.663	0.489	81.3	0.7	9.92
6.25	81.4	0.57	0.42	1.1	0.0	142.807	0.7	0.49	79.7	0.7	10.37
6.26	81.4	0.57	0.42	1.1	0.0	142.807	0.7	0.491	79.7	0.7	10.37
6.27	78.8	0.59	0.42	1.1	0.0	133.559	0.749	0.492	77.2	0.8	11.11
6.28	76.9	0.61	0.42	1.1	0.0	126.066	0.793	0.493	75.2	0.8	11.64
6.29	76.3	0.61	0.42	1.1	0.0	125.082	0.799	0.494	74.6	0.8	11.8
6.30	76.0	0.61	0.42	1.1	0.0	124.59	0.802	0.495	74.3	0.8	11.9
6.31	75.5	0.62	0.43	1.1	0.0	121.774	0.821	0.496	73.9	0.8	12.05
6.32	75.1	0.62	0.43	1.1	0.0	121.129	0.826	0.497	73.5	0.8	12.15
6.33	74.6	0.61	0.43	1.1	0.0	122.295	0.818	0.498	73.0	0.8	12.18
6.34	74.2	0.6	0.44	1.1	0.0	123.667	0.809	0.499	72.6	0.8	12.17
6.35	72.9	0.59	0.44	1.1	0.0	123.559	0.809	0.5	71.8	0.8	12.31
6.36	71.8	0.58	0.44	1.1	0.0	123.793	0.808	0.501	70.1	0.8	12.49
6.37	70.5	0.58	0.45	1.1	0.0	121.552	0.823	0.502	68.9	0.8	12.74
6.38	69.0	0.57	0.45	1.1	0.0	121.053	0.826	0.503	67.4	0.9	13.04
6.39	66.8	0.56	0.45	1.1	0.0	119.286	0.838	0.504	65.1	0.9	13.44
6.40	66.1	0.55	0.45	1.1	0.0	120.182	0.832	0.505	64.4	0.9	13.49
6.41	66.1	0.54	0.46	1.1	0.0	122.407	0.817	0.506	64.4	0.8	13.37
6.42	68.5	0.53	0.52	1.1	0.0	129.245	0.774	0.507	66.9	0.8	12.58
6.43	68.5	0.53	0.52	1.1	0.0	129.245	0.774	0.508	66.9	0.8	12.58
6.44	71.3	0.52	0.52	1.1	0.0	142.885	0.7	0.509	72.7	0.7	11.16
6.45	71.9	0.51	0.51	1.1	0.0	152.745	0.655	0.51	76.2	0.7	10.41
6.46	81.2	0.51	0.53	1.1	0.0	159.216	0.628	0.511	79.5	0.6	9.79
6.47	86.9	0.51	0.53	1.1	0.0	170.392	0.587	0.512	85.2	0.6	8.88
6.48	88.2	0.52	0.50	1.2	0.0	169.615	0.59	0.515	86.5	0.6	8.77
6.49	88.0	0.53	0.43	1.2	0.0	166.038	0.602	0.514	86.3	0.6	8.91
6.50	88.0	0.53	0.43	1.2	0.0	166.038	0.602	0.515	86.3	0.6	8.91
6.51	86.1	0.53	0.46	1.2	0.0	162.453	0.616	0.516	84.4	0.6	9.22
6.52	86.1	0.53	0.42	1.2	0.0	162.453	0.616	0.517	84.4	0.6	9.22
6.53	84.2	0.54	0.43	1.2	0.0	155.926	0.641	0.518	82.6	0.7	9.58
6.54	82.8	0.56	0.44	1.2	0.0	147.857	0.676	0.519	81.1	0.7	10.01
6.55	82.7	0.57	0.44	1.2	0.0	145.088	0.689	0.52	81.0	0.7	10.14
6.56	83.0	0.58	0.44	1.2	0.0	143.103	0.699	0.521	81.3	0.7	10.19
6.57	83.1	0.59	0.44	1.2	0.0	140.847	0.71	0.522	81.4	0.7	10.24
6.58	83.2	0.6	0.45	1.2	0.0	138.667	0.721	0.523	81.5	0.7	10.36
6.59	83.3	0.6	0.46	1.2	0.0	138.833	0.72	0.524	81.6	0.7	10.34
6.60	80.9	0.59	0.46	1.2	0.0	137.119	0.729	0.525	79.2	0.7	10.71
6.61	82.2	0.59	0.47	1.2	0.0	140.169	0.713	0.526	81.0	0.7	10.33
6.62	82.2	0.58	0.47	1.2	0.0	141.724	0.706	0.527	80.5	0.7	10.39
6.63	82.2	0.58	0.47	1.2	0.0	141.724	0.706	0.528	80.5	0.7	10.39
6.64	81.8	0.59	0.48	1.2	0.0	138.644	0.721	0.529	80.7	0.7	10.54
6.65	82.1	0.6	0.48	1.2	0.0	136.833	0.731	0.53	80.4	0.8	10.59
6.66	84.5	0.62	0.49	1.2	0.0	136.29	0.734	0.531	82.9	0.7	10.29
6.67	86.9	0.62	0.49	1.2	0.0	140.161	0.713	0.532	85.7	0.7	9.91
6.68	93.5	0.61	0.50	1.2	0.0	153.279	0.662	0.533	91.8	0.7	8.82
6.69	97.6	0.61	0.51	1.2	0.0	160.0	0.625	0.534	95.9	0.8	8.2
6.70	101.8	0.6	0.51	1.2	0.0	169.667	0.589	0.535	100.1	0.6	7.57
6.71	105.9	0.59	0.51	1.2	0.0	179.492	0.557	0.536	104.2	0.6	7
6.72	111.7	0.59	0.51	1.2	0.0	189.222	0.528	0.537	110.0	0.5	6.42

8.13	113.0	0.76	0.72	1.5	0.0	148.684	0.673	0.678	111.3	0.7	7.49
8.14	113.0	0.76	0.72	1.5	0.0	148.684	0.673	0.679	111.3	0.7	7.49
8.15	114.5	0.75	0.72	1.5	0.0	152.667	0.655	0.681	112.8	0.7	7.3
8.16	114.5	0.75	0.72	1.5	0.0	152.667	0.655	0.681	112.8	0.7	7.3
8.17	115.4	0.76	0.72	1.5	0.0	151.842	0.659	0.682	113.7	0.7	7.24
8.18	116.4	0.76	0.72	1.6	0.0	153.158	0.653	0.683	114.7	0.7	7.16
8.19	117.1	0.76	0.72	1.6	0.0	154.079	0.649	0.684	115.4	0.7	7.09
8.20	117.5	0.76	0.72	1.6	0.0	154.605	0.647	0.685	115.8	0.7	7.05
8.21	118.0	0.76	0.72	1.6	0.0	155.263	0.644	0.686	116.3	0.7	7.01
8.22	117.9	0.77	0.72	1.6	0.0	153.117	0.653	0.687	116.2	0.7	7.06
8.23	117.7	0.77	0.72	1.6	0.0	152.857	0.654	0.688	116.0	0.7	7.11
8.24	117.2	0.78	0.72	1.6	0.0	150.256	0.666	0.689	115.5	0.7	7.17
8.25	116.3	0.78	0.72	1.6	0.0	149.103	0.671	0.69	114.6	0.7	7.29
8.26	114.4	0.78	0.72	1.6	0.0	146.667	0.682	0.691	112.7	0.7	7.51
8.27	113.5	0.79	0.73	1.6	0.0	143.671	0.696	0.692	111.8	0.7	7.65
8.28	112.9	0.79	0.73	1.6	0.0	142.405	0.702	0.693	110.8	0.7	7.76
8.29	111.5	0.79	0.73	1.6	0.0	141.139	0.709	0.694	109.8	0.7	7.88
8.30	109.1	0.79	0.73	1.6	0.0	138.101	0.724	0.695	107.5	0.7	8.19
8.31	108.0	0.79	0.73	1.6	0.0	136.709	0.731	0.696	106.3	0.7	8.34
8.32	106.3	0.79	0.73	1.6	0.0	134.557	0.743	0.697	104.6	0.8	8.55
8.33	104.6	0.79	0.73	1.6	0.0	132.405	0.755	0.698	102.9	0.8	8.77
8.34	104.6	0.79	0.73	1.6	0.0	132.405	0.755	0.699	102.9	0.8	8.77
8.35	98.9	0.79	0.73	1.6	0.0	125.19	0.799	0.7	97.3	0.8	9.56
8.36	98.9	0.79	0.73	1.6	0.0	125.19	0.799	0.701	97.3	0.8	9.56
8.37	95.5	0.8	0.73	1.6	0.0	119.375	0.838	0.702	93.8	0.9	10.09
8.38	92.9	0.79	0.73	1.6	0.0	117.595	0.85	0.703	91.2	0.9	10.5
8.39	91.9	0.79	0.73	1.6	0.0	116.329	0.86	0.704	90.2	0.9	10.6
8.40	91.9	0.79	0.73	1.6	0.0	116.705	0.856	0.705	89.3	0.9	10.7
8.41	90.2	0.78	0.73	1.6	0.0	115.641	0.865	0.708	88.5	0.9	10.81
8.42	89.5	0.78	0.73	1.6	0.0	114.744	0.872	0.707	87.8	0.9	10.9
8.43	87.9	0.77	0.73	1.6	0.0	114.156	0.876	0.708	86.2	0.9	11.1
8.44	87.3	0.76	0.73	1.6	0.0	114.868	0.871	0.709	85.6	0.9	11.14
8.45	86.7	0.75	0.73	1.6	0.0	115.6	0.865	0.71	85.0	0.9	11.16
8.46	86.3	0.73	0.73	1.6	0.0	118.219	0.846	0.711	84.6	0.9	11.06
8.47	86.4	0.72	0.74	1.6	0.0	120.0	0.833	0.712	84.7	0.9	10.93
8.48	86.7	0.71	0.74	1.6	0.0	122.113	0.819	0.713	85.0	0.8	10.81
8.49	87.1	0.7	0.74	1.6	0.0	124.429	0.804	0.714	85.4	0.8	10.68
8.50	87.6	0.7	0.74	1.6	0.0	125.143	0.799	0.715	85.9	0.8	10.54
8.51	88.7	0.68	0.74	1.6	0.0	130.441	0.767	0.716	87.1	0.8	10.24
8.52	89.5	0.68	0.74	1.6	0.0	131.618	0.76	0.717	87.8	0.8	10.07
8.53	90.4	0.67	0.74	1.6	0.0	134.925	0.741	0.718	88.7	0.8	9.88
8.54	92.1	0.66	0.75	1.6	0.0	139.545	0.717	0.719	90.4	0.7	9.52
8.55	92.9	0.66	0.75	1.6	0.0	140.758	0.71	0.72	91.2	0.7	9.36
8.56	93.0	0.65	0.75	1.6	0.0	143.846	0.695	0.721	91.9	0.7	9.22
8.57	94.5	0.65	0.75	1.6	0.0	144.615	0.691	0.722	92.7	0.7	9.14
8.58	94.2	0.66	0.75	1.6	0.0	142.727	0.701	0.723	92.5	0.7	9.12
8.59	94.3	0.66	0.75	1.6	0.0	142.879	0.7	0.724	92.6	0.7	9.18
8.60	93.8	0.67	0.75	1.6	0.0	140.0	0.714	0.725	92.2	0.7	9.28
8.61	93.4	0.67	0.75	1.6	0.0	139.403	0.717	0.726	91.7	0.7	9.37
8.62	93.0	0.67	0.75	1.6	0.0	138.806	0.72	0.727	91.3	0.7	9.46
8.63	92.4	0.68	0.75	1.6	0.0	135.882	0.736	0.728	90.7	0.8	9.59
8.64	92.3	0.68	0.75	1.6	0.0	135.735	0.737	0.729	90.6	0.8	9.63
8.65	92.2	0.68	0.75	1.6	0.0	135.588	0.738	0.73	90.5	0.8	9.68
8.66	92.3	0.69	0.75	1.6	0.0	133.768	0.748	0.731	90.6	0.8	9.72
8.67	92.7	0.7	0.75	1.6	0.0	132.429	0.755	0.732	91.0	0.8	9.75
8.68	92.9	0.7	0.75	1.6	0.0	132.714	0.753	0.733	91.2	0.8	9.73
8.69	93.1	0.7	0.75	1.6	0.0	133.0	0.752	0.734	91.4	0.8	9.7
8.70	93.5	0.7	0.76	1.6	0.0	133.511	0.749	0.735	91.9	0.8	9.62
8.71	94.1	0.69	0.76	1.6	0.0	136.377	0.733	0.736	92.4	0.8	9.43
8.72	94.5	0.68	0.76	1.6	0.0	138.971	0.72	0.737	92.8	0.7	9.32
8.73	94.6	0.67	0.76	1.6	0.0	141.194	0.708	0.738	92.9	0.7	9.23
8.74	95.1	0.66	0.76	1.6	0.0	144.091	0.694	0.739	93.4	0.7	9.06
8.75	95.6	0.66	0.76	1.6	0.0	146.747	0.675	0.74	93.9	0.7	8.96
8.76	96.5	0.65	0.76	1.6	0.0	148.308	0.674	0.741	94.7	0.7	8.81
8.77	97.9	0.65	0.77	1.6	0.0	150.615	0.664	0.742	96.7	0.7	8.56
8.78	100.2	0.64	0.77	1.6	0.0	156.563	0.639	0.743	98.5	0.7	8.15
8.79	107.3	0.62	0.77	1.6	0.0	173.065	0.578	0.744	105.6	0.6	7.14
8.80	111.1	0.61	0.77	1.6	0.0	182.131	0.549	0.745	109.4	0.6	6.66
8.81	114.2	0.61	0.78	1.6	0.0	187.213	0.534	0.746	112.5	0.6	6.27
8.82	116.5	0.61	0.78	1.6	0.0	190.984	0.524	0.747	114.8	0.5	6.04

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8.83	119.0	0.62	0.78	1.6	0.0	191.935	0.521	0.748	117.3	0.5	5.89
8.84	119.6	0.63	0.78	1.6	0.0	189.841	0.527	0.749	117.9	0.5	5.89
8.85	119.6	0.64	0.78	1.6	0.0	186.875	0.535	0.751	117.9	0.5	6
8.86	119.0	0.67	0.78	1.6	0.0	177.612	0.563	0.751	117.3	0.6	6.29
8.87	118.7	0.7	0.78	1.6	0.0	169.571	0.59	0.752	117.0	0.6	6.51
8.88	118.4	0.72	0.78	1.6	0.0	164.444	0.608	0.753	116.7	0.6	6.7
8.89	118.3	0.74	0.78	1.6	0.0	159.865	0.626	0.754	116.6	0.6	6.84
8.90	118.1	0.76	0.78	1.6	0.0	155.395	0.644	0.755	116.4	0.7	6.99
8.91	117.5	0.8	0.78	1.6	0.0	146.875	0.681	0.756	115.8	0.7	7.34
8.92	116.8	0.83	0.78	1.6	0.0	140.723	0.711	0.757	115.1	0.7	7.57
8.93	116.1	0.84	0.78	1.6	0.0	138.214	0.724	0.758	114.4	0.7	7.75
8.94	113.9	0.87	0.78	1.6	0.0	130.92	0.764	0.759	112.2	0.8	8.14
8.95	112.5	0.88	0.78	1.7	0.0	127.841	0.782	0.76	110.8	0.8	8.39
8.96	110.9	0.89	0.78	1.7	0.0	124.607	0.803	0.761	109.2	0.8	8.65
8.97	109.4	0.9	0.78	1.7	0.0	121.556	0.823	0.762	107.7	0.8	8.88
8.98	108.4	0.9	0.79	1.7	0.0	120.444	0.83	0.763	106.7	0.8	9.04
8.99	106.2	0.9	0.79	1.7	0.0	118.0	0.847	0.764	104.5	0.9	9.32
9.00	105.4	0.89	0.79	1.7	0.0	118.427	0.844	0.765	103.7	0.9	9.38
9.01	104.7	0.88	0.79	1.7	0.0	118.977	0.84	0.766	103.0	0.9	9.43
9.02	104.7	0.88	0.79	1.7	0.0	118.977	0.84	0.767	103.0	0.9	9.43
9.03	104.7	0.88	0.79	1.7	0.0	118.977	0.84	0.768	103.0	0.9	9.43
9.04	109.8	0.7	0.82	1.7	0.0	156.857	0.638	0.769	108.1	0.7	7.47
9.05	113.2	0.7	0.82	1.7	0.0	161.714	0.618	0.77	111.5	0.6	7.1
9.06	116.3	0.7	0.82	1.7	0.0	166.143	0.602	0.771	114.6	0.6	6.76
9.07	122.3	0.7	0.82	1.7	0.0	174.714	0.572	0.772	120.6	0.6	6.14
9.08	124.8	0.69	0.82	1.7	0.0	180.87	0.553	0.773	123.1	0.6	5.86
9.09	124.8	0.69	0.82	1.7	0.0	180.87	0.553	0.774	123.1	0.6	5.86
9.10	128.2	0.7	0.82	1.7	0.0	183.143	0.546	0.775	126.5	0.6	5.64
9.11	130.1	0.71	0.82	1.7	0.0	183.239	0.546	0.776	128.4	0.6	5.55
9.12	131.2	0.72	0.82	1.7	0.0	182.222	0.549	0.777	129.5	0.6	5.49
9.13	132.5	0.72	0.82	1.7	0.0	184.028	0.543	0.778	130.8	0.6	5.4
9.14	134.1	0.73	0.82	1.7	0.0	183.699	0.544	0.779	132.4	0.6	5.29
9.15	137.6	0.75	0.82	1.7	0.0	183.467	0.545	0.78	135.9	0.6	5.15
9.16	139.0	0.76	0.82	1.7	0.0	182.895	0.547	0.781	137.4	0.6	5.1
9.17	140.3	0.77	0.82	1.7	0.0	182.208	0.549	0.782	138.6	0.6	5.04
9.18	140.6	0.77	0.83	1.7	0.0	182.597	0.548	0.783	138.9	0.6	5.06
9.19	139.5	0.81	0.83	1.7	0.0	172.222	0.581	0.784	137.8	0.6	5.34
9.20	138.1	0.83	0.83	1.7	0.0	166.386	0.601	0.785	136.4	0.6	5.58
9.21	136.3	0.85	0.83	1.7	0.0	160.353	0.624	0.786	134.6	0.6	5.85
9.22	134.1	0.87	0.83	1.7	0.0	154.138	0.649	0.787	132.4	0.7	6.12
9.23	129.5	0.88	0.83	1.7	0.0	147.159	0.68	0.788	127.8	0.7	6.64
9.24	127.5	0.89	0.83	1.7	0.0	143.258	0.698	0.789	125.8	0.7	6.87
9.25	126.7	0.89	0.83	1.7	0.0	142.37	0.707	0.79	125.0	0.7	6.92
9.26	126.4	0.9	0.83	1.7	0.0	140.444	0.712	0.791	124.7	0.7	7.03
9.27	129.1	0.89	0.83	1.7	0.0	145.056	0.689	0.792	127.4	0.7	6.73
9.28	131.4	0.89	0.83	1.8	0.0	147.64	0.677	0.793	129.7	0.7	6.48
9.29	133.9	0.87	0.84	1.7	0.0	153.908	0.65	0.794	132.2	0.7	6.17
9.30	136.4	0.86	0.84	1.8	0.0	158.605	0.63	0.795	134.7	0.6	5.89
9.31	139.4	0.84	0.84	1.8	0.0	164.164	0.61	0.796	136.4	0.6	5.64
9.32	137.7	0.83	0.85	1.8	0.0	165.904	0.603	0.797	136.0	0.6	5.89
9.33	136.7	0.83	0.85	1.8	0.0	164.699	0.607	0.798	135.0	0.6	5.67
9.34	135.2	0.82	0.85	1.8	0.0	164.878	0.607	0.799	133.5	0.6	5.77
9.35	133.1	0.81	0.85	1.8	0.0	164.321	0.609	0.8	131.4	0.6	5.88
9.36	128.9	0.83	0.85	1.7	0.0	155.301	0.644	0.801	127.2	0.7	6.37
9.37	127.5	0.85	0.85	1.7	0.0	149.76	0.667	0.802	125.6	0.7	6.62
9.38	126.8	0.84	0.85	1.7	0.0	150.952	0.662	0.803	125.1	0.7	6.63
9.39	126.4	0.84	0.85	1.7	0.0	150.476	0.665	0.804	124.7	0.7	6.66
9.40	127.2	0.84	0.85	1.7	0.0	151.429	0.66	0.805	125.5	0.7	6.62
9.41	128.3	0.87	0.85	1.7	0.0	147.471	0.678	0.806	126.6	0.7	6.68
9.42	129.0	0.88	0.85	1.7	0.0	146.591	0.682	0.807	127.3	0.7	6.67
9.43	128.3	0.89	0.85	1.7	0.0	144.157	0.687	0.808	126.6	0.7	6.82
9.44	128.2	0.91	0.85	1.7	0.0	140.879	0.71	0.809	126.5	0.7	6.89
9.45	127.0	0.91	0.85	1.7	0.0	139.56	0.717	0.81	125.3	0.7	7.01
9.46	125.8	0.9	0.86	1.8	0.0	139.778	0.715	0.811	124.1	0.7	7.09
9.47	124.7	0.87	0.86	1.8	0.0	143.333	0.698	0.812	123.0	0.7	7.01
9.48	124.9	0.85	0.86	1.8	0.0	146.941	0.681	0.813	123.2	0.7	6.86
9.49	124.9	0.82	0.86	1.8	0.0	152.31	0.657	0.814	123.7	0.7	6.62
9.50	125.6	0.8	0.86	1.8	0.0	157.0	0.637	0.815	123.9	0.7	6.5
9.51	128.3	0.78	0.86	1.8	0.0	164.848	0.608	0.816	126.6	0.6	6.11
9.52	130.1	0.78	0.86	1.8	0.0	166.795	0.6	0.817	128.4	0.6	5.94

10.93	97.2	0.63	0.66	2.0	0.0	154.286	0.648	0.958	95.6	0.7	8.53
10.94	97.6	0.65	0.68	2.0	0.0	150.154	0.666	0.959	96.0	0.7	8.68
10.95	98.0	0.66	0.69	2.0	0.0	148.485	0.673	0.96	96.4	0.7	8.71
10.96	98.4	0.67	0.70	2.0	0.0	146.866	0.681	0.961	96.8	0.7	8.73
10.97	98.6	0.66	0.72	2.0	0.0	144.348	0.693	0.962	98.2	0.7	8.66
10.98	99.6	0.69	0.72	2.0	0.0	144.348	0.693	0.963	98.1	0.7	8.66
10.99	101.1	0.69	0.74	2.0	0.0	146.522	0.682	0.964	99.6	0.7	8.53
11.00	101.5	0.7	0.75	2.0	0.0	145.0	0.69	0.965	100.0	0.7	8.5
11.01	101.3	0.7	0.76	2.0	0.0	144.714	0.691	0.966	99.8	0.7	8.54
11.02	101.3	0.7	0.76	2.0	0.0	144.714	0.691	0.967	99.8	0.7	8.54
11.03	101.3	0.7	0.76	2.0	0.0	144.714	0.691	0.968	99.8	0.7	8.54
11.04	95.2	0.56	1.01	2.0	0.0	170.0	0.588	0.969	93.7	0.6	8.19
11.05	93.6	0.58	1.01	2.0	0.0	161.379	0.62	0.97	92.1	0.6	8.54
11.06	93.6	0.58	1.01	2.0	0.0	161.379	0.62	0.971	92.1	0.6	8.54
11.07	88.0	0.61	1.00	2.0	0.0	144.262	0.693	0.972	86.4	0.7	9.77
11.08	86.3	0.62	1.00	2.0	0.0	139.194	0.718	0.973	84.8	0.8	10.15
11.09	84.8	0.63	1.00	2.0	0.0	134.603	0.743	0.974	83.3	0.8	10.48
11.10	82.6	0.64	1.00	2.0	0.0	129.063	0.775	0.975	81.0	0.8	11
11.11	81.6	0.64	1.00	2.0	0.0	127.5	0.784	0.976	80.0	0.8	11.21
11.12	80.7	0.65	1.00	2.0	0.0	124.154	0.805	0.977	79.2	0.8	11.41
11.13	80.0	0.65	1.01	2.0	0.0	123.077	0.813	0.978	78.5	0.8	11.57
11.14	78.2	0.65	1.01	2.0	0.0	120.308	0.831	0.979	76.6	0.9	11.9
11.15	77.0	0.64	1.01	2.0	0.0	120.313	0.831	0.98	75.4	0.9	12.07
11.16	76.2	0.63	1.01	2.0	0.0	120.952	0.827	0.981	74.7	0.9	12.19
11.17	75.9	0.63	1.01	2.0	0.0	120.476	0.83	0.982	74.4	0.9	12.2
11.18	76.6	0.61	1.01	2.0	0.0	125.574	0.796	0.983	75.0	0.8	11.86
11.19	77.6	0.6	1.02	2.0	0.0	129.333	0.773	0.984	76.0	0.8	11.53
11.20	78.1	0.58	1.02	2.0	0.0	135.517	0.738	0.985	77.1	0.8	11.15
11.21	79.8	0.57	1.02	2.0	0.0	140.0	0.714	0.986	78.3	0.7	10.75
11.22	81.1	0.54	1.02	2.0	0.0	150.185	0.666	0.987	79.6	0.7	10.22
11.23	81.2	0.53	1.03	2.0	0.0	153.208	0.653	0.988	79.7	0.7	10.09
11.24	81.2	0.52	1.03	2.0	0.0	156.154	0.64	0.989	79.7	0.7	10.01
11.25	80.0	0.52	1.04	2.0	0.0	155.769	0.642	0.99	79.5	0.7	10
11.26	80.5	0.51	1.04	2.0	0.0	157.843	0.634	0.991	79.0	0.7	7.05
11.27	79.2	0.51	1.04	2.0	0.0	155.294	0.644	0.992	77.7	0.7	10.24
11.28	78.6	0.51	1.03	2.0	0.0	154.118	0.649	0.993	77.1	0.7	10.34
11.29	78.1	0.51	1.03	2.0	0.0	153.137	0.653	0.994	76.5	0.7	10.46
11.30	77.3	0.51	1.02	2.0	0.0	151.569	0.66	0.995	75.7	0.7	10.61
11.31	77.1	0.51	1.02	2.0	0.0	151.176	0.661	0.996	75.5	0.7	10.68
11.32	77.1	0.51	1.02	2.0	0.0	151.176	0.661	0.997	75.5	0.7	10.68
11.33	77.2	0.52	1.03	2.0	0.0	148.462	0.674	0.998	75.6	0.7	10.76
11.34	77.5	0.53	1.03	2.0	0.0	146.226	0.684	0.999	75.9	0.7	10.78
11.35	78.2	0.54	1.03	2.0	0.0	144.815	0.691	1.0	76.6	0.7	10.75
11.36	78.9	0.54	1.04	2.0	0.0	146.111	0.684	1.001	77.4	0.7	10.6
11.37	79.7	0.54	1.04	2.0	0.0	147.593	0.678	1.002	78.7	0.7	10.47
11.38	82.0	0.54	1.04	2.0	0.0	151.852	0.659	1.003	80.4	0.7	10.05
11.39	82.0	0.54	1.04	2.0	0.0	151.852	0.659	1.004	80.4	0.7	10.05
11.40	84.0	0.55	1.04	2.0	0.0	152.727	0.655	1.005	82.5	0.7	9.77
11.41	85.1	0.55	1.04	2.0	0.0	154.727	0.646	1.006	83.6	0.7	9.59
11.42	87.7	0.54	1.04	2.0	0.0	162.407	0.616	1.007	86.1	0.6	9.16
11.43	89.2	0.54	1.05	2.0	0.0	165.185	0.605	1.008	87.7	0.6	8.87
11.44	90.8	0.53	1.05	2.1	0.0	171.321	0.584	1.009	92.3	0.6	8.57
11.45	92.4	0.53	1.05	2.1	0.0	174.34	0.574	1.01	90.8	0.6	8.31
11.46	93.9	0.53	1.05	2.1	0.0	177.17	0.564	1.011	92.4	0.6	8.08
11.47	96.3	0.54	1.05	2.1	0.0	178.333	0.561	1.012	94.8	0.6	7.82
11.48	97.0	0.54	1.06	2.1	0.0	179.63	0.557	1.013	95.4	0.6	7.77
11.49	97.7	0.55	1.06	2.1	0.0	177.636	0.553	1.014	96.1	0.6	7.74
11.50	98.1	0.56	1.07	2.1	0.0	175.179	0.571	1.015	96.5	0.7	7.81
11.51	97.7	0.57	1.07	2.1	0.0	171.404	0.583	1.016	96.1	0.6	7.93
11.52	97.7	0.57	1.07	2.1	0.0	171.404	0.583	1.017	96.1	0.6	7.93
11.53	96.4	0.58	1.06	2.1	0.0	166.207	0.602	1.018	94.8	0.6	8.25
11.54	96.0	0.6	1.06	2.1	0.0	160.0	0.625	1.019	94.5	0.6	8.4
11.55	95.7	0.62	1.05	2.1	0.0	154.355	0.648	1.02	94.2	0.7	8.65
11.56	96.2	0.63	1.05	2.1	0.0	152.698	0.655	1.021	94.7	0.7	8.77
11.57	97.2	0.64	1.05	2.1	0.0	151.875	0.658	1.022	95.6	0.7	8.65
11.58	100.0	0.66	1.06	2.1	0.0	151.515	0.66	1.023	98.5	0.7	8.37
11.59	100.0	0.66	1.06	2.1	0.0	151.515	0.66	1.024	98.5	0.7	8.37
11.60	103.5	0.66	1.06	2.1	0.0	156.818	0.638	1.025	101.9	0.7	7.99
11.61	105.7	0.67	1.06	2.1	0.0	157.313	0.636	1.026	103.9	0.7	7.76
11.62	107.8	0.67	1.06	2.1	0.0	160.896	0.622	1.027	106.2	0.6	7.5

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11.63	113.5	0.67	1.06	2.1	0.0	169.403	0.59	1.028	111.9	0.6	6.87
11.64	116.2	0.67	1.07	2.1	0.0	173.433	0.577	1.029	114.7	0.6	6.59
11.65	118.8	0.67	1.07	2.1	0.0	177.313	0.564	1.03	117.3	0.6	6.31
11.66	121.3	0.67	1.07	2.1	0.0	181.045	0.552	1.031	119.8	0.6	6.05
11.67	122.9	0.66	1.07	2.1	0.0	186.212	0.537	1.032	121.3	0.6	5.89
11.68	123.8	0.67	1.07	2.1	0.0	184.776	0.541	1.033	122.2	0.6	5.82
11.69	122.1	0.67	1.07	2.1	0.0	182.239	0.549	1.034	120.5	0.6	6.01
11.70	116.7	0.69	1.07	2.1	0.0	169.13	0.591	1.035	115.1	0.6	6.69
11.71	113.4	0.71	1.07	2.1	0.0	159.718	0.626	1.036	111.8	0.6	7.15
11.72	113.4	0.71	1.07	2.1	0.0	159.718	0.626	1.037	111.8	0.6	7.15
11.73	108.9	0.74	1.07	2.1	0.0	147.162	0.68	1.038	107.4	0.7	7.89
11.74	107.6	0.75	1.08	2.1	0.0	143.467	0.697	1.039	106.0	0.7	8.13
11.75	106.1	0.77	1.08	2.1	0.0	137.792	0.726	1.04	104.6	0.8	8.48
11.76	106.1	0.78	1.08	2.1	0.0	136.026	0.735	1.041	104.6	0.8	8.55
11.77	106.6	0.79	1.08	2.1	0.0	134.937	0.741	1.042	105.0	0.8	8.55
11.78	109.0	0.8	1.08	2.1	0.0	136.25	0.734	1.043	107.5	0.8	8.3
11.79	109.0	0.8	1.08	2.1	0.0	136.25	0.734	1.044	107.5	0.8	8.3
11.80	112.7	0.8	1.09	2.1	0.0	140.875	0.71	1.045	111.1	0.7	7.87
11.81	114.5	0.79	1.09	2.1	0.0	144.937	0.69	1.046	113.0	0.7	7.63
11.82	116.2	0.79	1.09	2.1	0.0	147.089	0.68	1.047	114.7	0.7	7.42
11.83	118.5	0.78	1.09	2.1	0.0	151.923	0.658	1.048	116.9	0.7	7.13
11.84	118.5	0.79	1.09	2.1	0.0	150.0	0.667	1.049	116.9	0.7	7.16
11.85	117.9	0.79	1.09	2.1	0.0	149.241	0.67	1.05	116.3	0.7	7.22
11.86	116.8	0.79	1.09	2.1	0.0	147.848	0.676	1.051	115.2	0.7	7.34
11.87	115.1	0.79	1.09	2.1	0.0	145.696	0.686	1.052	113.6	0.7	7.54
11.88	110.5	0.8	1.09	2.1	0.0	138.125	0.724	1.053	109.0	0.8	8.17
11.89	107.9	0.81	1.09	2.1	0.0	133.21	0.751	1.054	106.3	0.8	8.58
11.90	102.6	0.84	1.09	2.1	0.0	122.143	0.819	1.055	101.0	0.8	9.46
11.91	100.2	0.85	1.09	2.1	0.0	117.882	0.848	1.056	98.7	0.9	8.88
11.92	100.2	0.85	1.09	2.1	0.0	117.882	0.848	1.057	98.7	0.9	8.88
11.93	97.5	0.87	1.09	2.2	0.0	112.069	0.892	1.058	95.9	0.9	10.4
11.94	96.2	0.87	1.09	2.2	0.0	110.575	0.904	1.059	94.7	0.9	10.63
11.95	95.1	0.87	1.09	2.2	0.0	109.31	0.915	1.06	93.6	1.0	10.83
11.96	94.8	0.87	1.09	2.2	0.0	108.966	0.918	1.061	93.3	1.0	10.89
11.97	94.7	0.87	1.10	2.2	0.0	108.851	0.919	1.062	93.2	1.0	10.89
11.98	95.2	0.86	1.10	2.2	0.0	110.698	0.903	1.063	93.7	0.9	10.72
11.99	95.2	0.86	1.10	2.2	0.0	110.698	0.903	1.064	93.7	0.9	10.72
12.00	96.5	0.84	1.10	2.2	0.0	114.881	0.87	1.065	94.9	0.9	10.37
12.01	97.6	0.83	1.10	2.2	0.0	117.59	0.85	1.066	96.0	0.9	10.14
12.02	97.6	0.83	1.10	2.2	0.0	117.59	0.85	1.067	96.0	0.9	10.14
12.03	97.6	0.83	1.10	2.2	0.0	117.59	0.85	1.068	96.0	0.9	10.14
12.04	99.4	0.65	1.12	2.2	0.0	152.923	0.651	1.069	97.9	0.7	8.44
12.05	99.8	0.67	1.11	2.2	0.0	148.955	0.67	1.07	98.3	0.7	8.5
12.06	99.2	0.67	1.11	2.2	0.0	148.06	0.675	1.071	97.7	0.7	8.64
12.07	98.5	0.67	1.11	2.2	0.0	144.853	0.669	1.069	96.9	0.7	8.8
12.08	97.7	0.69	1.11	2.2	0.0	141.594	0.706	1.073	96.1	0.7	8.98
12.09	96.0	0.7	1.11	2.2	0.0	137.143	0.729	1.074	94.5	0.8	9.34
12.10	95.0	0.71	1.11	2.2	0.0	133.803	0.747	1.075	93.5	0.8	9.54
12.11	93.7	0.72	1.11	2.2	0.0	130.139	0.768	1.076	92.2	0.8	9.79
12.12	92.3	0.73	1.11	2.2	0.0	128.147	0.78	1.077	91.0	0.8	10.08
12.13	88.6	0.73	1.11	2.2	0.0	121.37	0.824	1.078	87.1	0.9	10.73
12.14	88.6	0.73	1.11	2.2	0.0	121.37	0.824	1.079	87.1	0.9	10.73
12.15	86.3	0.73	1.11	2.2	0.0	118.219	0.846	1.08	84.7	0.9	11.14
12.16	85.6	0.73	1.11	2.2	0.0	117.26	0.853	1.081	84.1	0.9	11.3
12.17	84.8	0.73	1.11	2.2	0.0	116.164	0.861	1.082	83.3	0.9	11.46
12.18	84.2	0.74	1.11	2.2	0.0	113.79	0.879	1.083	82.7	0.9	11.67
12.19	84.4	0.74	1.11	2.2	0.0	114.054	0.877	1.084	82.9	0.9	11.62
12.20	85.3	0.74	1.11	2.2	0.0	115.27	0.868	1.085	83.8	0.9	11.43
12.21	86.4	0.74	1.12	2.2	0.0	116.757	0.856	1.086	84.8	0.9	11.19
12.22	89.8	0.72	1.13	2.2	0.0	124.722	0.802	1.087	88.3	0.8	10.49
12.23	89.8	0.72	1.13	2.2	0.0	124.722	0.802	1.088	88.3	0.8	10.49
12.24	92.5	0.72	1.12	2.2	0.0	131.67	0.799	1.089	92.3	0.8	9.78
12.25	96.3	0.7	1.12	2.2	0.0	137.571	0.727	1.09	94.7	0.8	9.28
12.26	97.1	0.7	1.11	2.2	0.0	138.714	0.721	1.091	95.5	0.7	9.15
12.27	97.5	0.7	1.11	2.2	0.0	139.286	0.718	1.092	95.5	0.7	9.08
12.28	97.2	0.7	1.11	2.2	0.0	138.857	0.72	1.093	95.6	0.7	9.13
12.29	97.0	0.71	1.11	2.2	0.0	138.571	0.722	1.094	95.4	0.7	9.2
12.30	97.0	0.71	1.10	2.2	0.0	136.62	0.732	1.095	95.4	0.8	9.27
12.31	97.5	0.71	1.10	2.2	0.0	137.324	0.728	1.096	95.6	0.8	9.23
12.32	98.2	0.72	1.10	2.2	0.0	136.389	0.733	1.097	96.9	0.8	9.14

13.73	129.4	0.91	1.28	2.4	0.0	142.198	0.703	1.238	127.9	0.7	6.84
13.74	131.7	0.91	1.28	2.4	0.0	144.725	0.691	1.239	130.1	0.7	6.62
13.75	137.6	0.9	1.29	2.4	0.0	152.889	0.654	1.241	136.0	0.7	6.09
13.76	137.6	0.9	1.29	2.4	0.0	152.889	0.654	1.241	136.0	0.7	6.09
13.77	142.7	0.9	1.29	2.4	0.0	158.556	0.631	1.242	141.1	0.7	5.68
13.78	143.0	0.91	1.29	2.4	0.0	157.582	0.635	1.243	141.8	0.7	5.63
13.79	142.4	0.92	1.29	2.4	0.0	154.348	0.648	1.244	140.4	0.7	5.83
13.80	140.8	0.93	1.29	2.4	0.0	151.398	0.661	1.245	139.3	0.7	5.97
13.81	139.1	0.93	1.29	2.4	0.0	149.57	0.669	1.246	137.6	0.7	6.13
13.82	137.1	0.94	1.29	2.4	0.0	145.851	0.686	1.247	135.5	0.7	6.32
13.83	135.5	0.94	1.29	2.4	0.0	142.021	0.694	1.248	133.9	0.7	6.68
13.84	131.8	0.95	1.29	2.4	0.0	138.737	0.721	1.249	130.2	0.7	6.87
13.85	131.8	0.95	1.29	2.4	0.0	138.737	0.721	1.25	130.2	0.7	6.87
13.86	128.0	0.97	1.29	2.4	0.0	131.959	0.758	1.251	126.4	0.8	7.33
13.87	123.9	0.98	1.30	2.4	0.0	126.429	0.791	1.252	122.4	0.8	7.83
13.88	122.3	0.99	1.30	2.4	0.0	125.535	0.809	1.253	120.7	0.8	8.07
13.89	121.3	1.0	1.30	2.4	0.0	121.3	8.824	1.254	119.7	0.9	8.22
13.90	120.8	1.01	1.30	2.4	0.0	119.604	0.836	1.255	119.3	0.9	8.33
13.91	121.7	1.01	1.30	2.4	0.0	120.495	0.83	1.256	120.1	0.9	8.26
13.92	123.0	1.01	1.30	2.4	0.0	121.782	0.821	1.257	121.4	0.8	8.09
13.93	124.6	1.0	1.30	2.4	0.0	124.6	0.803	1.258	123.1	0.8	7.85
13.94	129.2	0.97	1.31	2.4	0.0	133.196	0.751	1.259	127.7	0.8	7.22
13.95	131.2	0.95	1.31	2.4	0.0	138.105	0.724	1.26	129.7	0.8	6.95
13.96	132.3	0.94	1.31	2.4	0.0	140.745	0.711	1.261	130.7	0.7	6.78
13.97	132.3	0.94	1.31	2.4	0.0	140.745	0.711	1.262	130.7	0.7	6.74
13.98	131.1	0.93	1.31	2.4	0.0	140.968	0.709	1.263	129.6	0.7	6.82
13.99	125.8	0.93	1.30	2.4	0.0	135.269	0.739	1.264	124.3	0.8	7.31
14.00	122.3	0.93	1.30	2.4	0.0	131.72	0.759	1.265	120.0	0.8	7.66
14.01	118.8	0.93	1.30	2.4	0.0	127.742	0.783	1.266	117.2	0.8	8.09
14.02	118.8	0.93	1.30	2.4	0.0	127.742	0.783	1.267	117.2	0.8	8.09
14.03	118.8	0.93	1.30	2.4	0.0	127.742	0.783	1.268	117.2	0.8	8.09
14.04	108.9	0.76	1.33	2.4	0.0	143.289	0.698	1.269	107.7	0.7	8.05
14.05	108.3	0.81	1.31	2.4	0.0	133.704	0.748	1.27	106.7	0.8	8.56
14.06	108.9	0.83	1.31	2.4	0.0	131.205	0.762	1.271	107.4	0.8	8.55
14.07	110.2	0.83	1.31	2.4	0.0	132.771	0.753	1.272	108.7	0.8	8.44
14.08	111.8	0.84	1.31	2.4	0.0	133.095	0.751	1.273	110.2	0.8	8.28
14.09	113.5	0.84	1.31	2.4	0.0	135.119	0.74	1.274	111.9	0.8	8.07
14.10	115.8	0.85	1.31	2.4	0.0	136.235	0.734	1.275	114.3	0.8	7.88
14.11	115.9	0.85	1.31	2.4	0.0	136.353	0.733	1.276	114.4	0.8	7.92
14.12	116.1	0.85	1.31	2.4	0.0	136.588	0.732	1.277	114.6	0.8	7.89
14.13	116.3	0.85	1.32	2.4	0.0	136.824	0.731	1.278	114.7	0.8	7.84
14.14	116.7	0.85	1.32	2.4	0.0	137.294	0.728	1.279	115.1	0.8	7.79
14.15	116.8	0.85	1.31	2.4	0.0	137.412	0.728	1.28	115.2	0.8	7.8
14.16	116.4	0.84	1.31	2.4	0.0	138.571	0.722	1.281	114.8	0.8	7.79
14.17	114.1	0.84	1.31	2.4	0.0	135.833	0.736	1.282	112.6	0.8	8.04
14.18	113.1	0.85	1.31	2.4	0.0	133.059	0.752	1.283	111.1	0.8	7.92
14.19	112.6	0.85	1.31	2.4	0.0	132.471	0.755	1.284	111.0	0.8	8.28
14.20	113.1	0.86	1.31	2.4	0.0	131.512	0.76	1.285	111.5	0.8	8.27
14.21	113.1	0.86	1.31	2.4	0.0	131.512	0.76	1.286	111.5	0.8	8.27
14.22	115.0	0.86	1.32	2.4	0.0	133.721	0.748	1.287	113.5	0.8	8.08
14.23	115.9	0.86	1.32	2.4	0.0	134.767	0.742	1.288	114.4	0.8	7.98
14.24	116.1	0.86	1.32	2.4	0.0	135.0	0.741	1.289	114.6	0.8	7.94
14.25	116.1	0.86	1.32	2.4	0.0	135.0	0.741	1.289	114.6	0.8	7.94
14.26	115.9	0.86	1.32	2.4	0.0	134.767	0.742	1.291	114.4	0.8	7.95
14.27	115.7	0.86	1.32	2.4	0.0	134.535	0.743	1.292	114.2	0.8	7.97
14.28	115.8	0.86	1.32	2.4	0.0	134.07	0.746	1.293	113.8	0.8	8
14.29	114.7	0.85	1.33	2.4	0.0	134.941	0.741	1.294	113.2	0.8	8.04
14.30	114.7	0.85	1.33	2.4	0.0	134.941	0.741	1.295	113.2	0.8	8.04
14.31	114.9	0.84	1.33	2.4	0.0	136.786	0.731	1.296	113.4	0.8	7.97
14.32	115.6	0.84	1.33	2.5	0.0	137.619	0.727	1.297	114.1	0.8	7.85
14.33	116.1	0.84	1.33	2.5	0.0	138.214	0.724	1.298	114.6	0.8	7.79
14.34	116.4	0.84	1.33	2.5	0.0	138.571	0.722	1.299	114.8	0.7	7.76
14.35	117.0	0.83	1.34	2.5	0.0	140.964	0.709	1.3	115.4	0.7	7.67
14.36	117.7	0.83	1.34	2.5	0.0	141.807	0.705	1.301	116.1	0.7	7.59
14.37	119.7	0.84	1.34	2.5	0.0	142.5	0.702	1.302	118.2	0.7	7.4
14.38	121.0	0.84	1.34	2.5	0.0	144.048	0.694	1.303	119.5	0.7	7.26
14.39	124.0	0.84	1.35	2.5	0.0	147.619	0.677	1.304	122.5	0.7	6.97
14.40	125.5	0.85	1.34	2.5	0.0	147.647	0.677	1.305	124.0	0.7	6.9
14.41	125.5	0.85	1.34	2.5	0.0	147.647	0.677	1.306	124.0	0.7	6.9
14.42	127.2	0.87	1.34	2.5	0.0	146.207	0.684	1.307	125.6	0.8	8.55

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14.43	126.9	0.87	1.34	2.5	0.0	145.862	0.686	1.308	125.3	0.7	6.87
14.44	123.8	0.88	1.34	2.5	0.0	140.682	0.711	1.309	122.2	0.7	7.26
14.45	122.0	0.89	1.34	2.5	0.0	137.079	0.73	1.31	120.4	0.8	7.5
14.46	120.2	0.9	1.34	2.5	0.0	133.556	0.749	1.311	118.7	0.8	7.75
14.47	116.7	0.91	1.34	2.5	0.0	128.242	0.78	1.312	115.4	0.8	8.21
14.48	114.5	0.92	1.34	2.5	0.0	124.457	0.803	1.313	113.0	0.8	8.51
14.49	112.3	0.93	1.34	2.5	0.0	120.753	0.828	1.314	110.7	0.9	8.84
14.50	112.3	0.93	1.34	2.5	0.0	120.753	0.828	1.315	110.7	0.9	8.84
14.51	105.5	0.95	1.33	2.5	0.0	111.053	0.9	1.316	104.0	0.9	9.89
14.52	103.5	0.95	1.33	2.5	0.0	108.947	0.918	1.317	101.9	1.0	10.18
14.53	101.3	0.95	1.33	2.5	0.0	106.632	0.938	1.318	99.7	1.0	10.47
14.54	99.3	0.94	1.33	2.5	0.0	105.638	0.947	1.319	97.8	1.0	10.73
14.55	97.7	0.93	1.33	2.5	0.0	105.054	0.952	1.32	96.1	1.0	10.93
14.56	94.2	0.92	1.34	2.5	0.0	102.391	0.977	1.321	92.7	1.0	11.37
14.57	93.0	0.91	1.34	2.5	0.0	102.198	0.978	1.322	91.4	1.0	11.53
14.58	92.0	0.9	1.34	2.5	0.0	102.222	0.978	1.323	90.4	1.0	11.65
14.59	90.5	0.89	1.35	2.4	0.0	101.685	0.983	1.324	89.0	1.0	11.76
14.60	90.4	0.88	1.35	2.5	0.0	102.727	0.973	1.325	88.9	1.0	11.75
14.61	90.1	0.87	1.35	2.5	0.0	103.563	0.966	1.326	88.6	1.0	11.7
14.62	90.2	0.84	1.36	2.5	0.0	107.381	0.931	1.327	88.7	1.0	11.48
14.63	90.5	0.83	1.36	2.5	0.0	109.036	0.917	1.328	89.0	1.0	11.29
14.64	90.2	0.82	1.36	2.5	0.0	110.0	0.909	1.329	88.7	1.0	11.3
14.65	89.2	0.82	1.36	2.5	0.0	108.78	0.919	1.33	87.7	1.0	11.43
14.66	87.1	0.8	1.35	2.5	0.0	108.875	0.918	1.331	85.5	1.0	11.67
14.67	85.9	0.79	1.35	2.5	0.0	108.734	0.92	1.332	84.3	1.0	11.83
14.68	84.6	0.78	1.35	2.5	0.0	108.462	0.922	1.333	83.1	1.0	12.01
14.69	83.5	0.78	1.35	2.5	0.0	107.051	0.934	1.334	82.0	1.0	12.17
14.70	82.6	0.77	1.35	2.5	0.0	107.273	0.932	1.335	81.0	1.0	12.3
14.71	80.6	0.76	1.36	2.5	0.0	106.053	0.943	1.336	79.6	1.0	12.57
14.72	79.7	0.75	1.36	2.5	0.0	106.267	0.941	1.337	78.2	1.0	12.68
14.73	78.9	0.74	1.36	2.5	0.0	106.622	0.938	1.338	77.4	1.0	12.8
14.74	78.2	0.74	1.36	2.5	0.0	106.676	0.946	1.339	76.6	1.0	12.94
14.75	76.9	0.74	1.36	2.5	0.0	103.919	0.962	1.34	75.3	1.0	13.23
14.76	76.2	0.74	1.36	2.5	0.0	102.973	0.971	1.341	74.6	1.0	13.37
14.77	75.8	0.73	1.36	2.5	0.0	103.836	0.963	1.342	74.2	1.0	13.41
14.78	75.2	0.73	1.36	2.5	0.0	103.014	0.971	1.343	73.7	1.0	13.47
14.79	74.2	0.71	1.36	2.5	0.0	104.507	0.957	1.344	72.7	1.0	13.53
14.80	73.8	0.7	1.36	2.5	0.0	105.429	0.949	1.345	71.9	1.0	13.6
14.81	73.4	0.69	1.36	2.5	0.0	106.377	0.94	1.346	71.9	1.0	13.54
14.82	73.2	0.68	1.36	2.5	0.0	107.647	0.929	1.347	71.6	1.0	13.51
14.83	72.4	0.67	1.36	2.5	0.0	108.06	0.925	1.348	70.8	1.0	13.56
14.84	72.0	0.66	1.36	2.5	0.0	109.091	0.917	1.349	70.4	1.0	13.58
14.85	71.5	0.66	1.37	2.5	0.0	108.333	0.923	1.35	69.9	1.0	13.63
14.86	70.5	0.65	1.37	2.5	0.0	108.615	0.921	1.351	69.1	1.0	13.68
14.87	70.3	0.64	1.37	2.5	0.0	109.844	0.91	1.352	68.8	1.0	13.75
14.88	70.3	0.64	1.37	2.5	0.0	109.844	0.91	1.353	68.8	1.0	13.7
14.89	70.3	0.63	1.37	2.5	0.0	111.587	0.886	1.354	68.9	1.0	13.62
14.90	71.5	0.62	1.37	2.5	0.0	115.323	0.867	1.355	69.1	0.9	13.16
14.91	72.7	0.61	1.38	2.5	0.0	119.18	0.839	1.356	71.1	0.9	12.8
14.92	74.6	0.6	1.38	2.5	0.0	124.0	0.806	1.357	72.9	0.9	12.5
14.93	76.5	0.6	1.38	2.5	0.0	127.5	0.784	1.358	74.9	0.9	11.82
14.94	78.9	0.59	1.39	2.5	0.0	133.729	0.748	1.359	77.4	0.9	11.27
14.95	84.4	0.59	1.39	2.5	0.0	143.051	0.699	1.36	82.9	0.7	10.18
14.96	87.2	0.58	1.39	2.5	0.0	150.345	0.665	1.361	85.6	0.7	9.68
14.97	89.8	0.58	1.39	2.5	0.0	154.828	0.646	1.362	88.7	0.7	9.23
14.98	95.0	0.58	1.39	2.5	0.0	163.793	0.61	1.363	92.5	0.6	8.52
14.99	97.8	0.58	1.39	2.5	0.0	168.276	0.594	1.364	96.0	0.6	8.06
15.00	99.8	0.58	1.39	2.5	0.0	172.069	0.581	1.365	98.3	0.6	7.77
15.01	102.1	0.58	1.39	2.5	0.0	176.034	0.568	1.366	100.5	0.6	7.5
15.02	102.1	0.58	1.39	2.5	0.0	176.034	0.568	1.367	100.5	0.6	7.5
15.03	102.1	0.58	1.39	2.5	0.0	176.034	0.568	1.368	100.5	0.6	7.5
15.04	110.2	0.55	1.41	2.5	0.0	212.508	0.54	1.369	104.1	0.5	6.9
15.05	112.0	0.54	1.41	2.5	0.0	207.407	0.482	1.37	110.4	0.5	6.08
15.06	113.4	0.56	1.40	2.5	0.0	202.5	0.494	1.371	111.8	0.5	6.09
15.07	114.6	0.61	1.40	2.5	0.0	187.869	0.532	1.372	113.1	0.6	6.3
15.08	114.5	0.63	1.40	2.5	0.0	181.746	0.55	1.373	113.0	0.6	6.49
15.09	113.9	0.65	1.40	2.5	0.0	175.231	0.571	1.374	112.4	0.6	6.74
15.10	113.8	0.66	1.40	2.5	0.0	165.882	0.602	1.375	112.1	0.6	7.06
15.11	108.5	0.73	1.39	2.5	0.0	148.63	0.673	1.376	106.9	0.7	7.93
15.12	105.2	0.75	1.39	2.5	0.0	140.267	0.713	1.377	103.7	0.7	8.52

16.53	112.3	0.86	1.56	2.7	0.0	130.581	0.766	1.518	110.7	0.8	8.45
16.54	112.3	0.86	1.56	2.7	0.0	130.581	0.766	1.519	110.7	0.8	8.45
16.55	109.5	0.88	1.55	2.7	0.0	124.432	0.804	1.521	108.0	0.8	8.89
16.56	109.5	0.88	1.55	2.7	0.0	124.432	0.804	1.521	108.0	0.8	8.89
16.57	108.7	0.9	1.56	2.8	0.0	120.111	0.833	1.522	106.4	0.9	9.26
16.58	107.0	0.91	1.56	2.7	0.0	117.582	0.85	1.523	105.4	0.9	9.44
16.59	106.5	0.91	1.56	2.8	0.0	117.033	0.854	1.524	104.9	0.9	9.53
16.60	106.2	0.91	1.56	2.8	0.0	116.703	0.857	1.525	104.6	0.9	9.57
16.61	105.8	0.91	1.56	2.8	0.0	116.264	0.86	1.526	104.2	0.9	9.6
16.62	105.8	0.91	1.57	2.8	0.0	116.264	0.86	1.527	104.2	0.9	9.57
16.63	106.0	0.9	1.57	2.8	0.0	117.778	0.849	1.528	104.4	0.9	9.49
16.64	106.2	0.9	1.57	2.8	0.0	118.0	0.847	1.529	104.6	0.9	9.44
16.65	106.8	0.89	1.57	2.8	0.0	120.0	0.833	1.53	105.2	0.9	9.33
16.66	108.5	0.88	1.57	2.8	0.0	123.295	0.811	1.531	106.9	0.9	9.05
16.67	108.5	0.88	1.57	2.8	0.0	123.295	0.811	1.532	106.9	0.9	9.05
16.68	110.8	0.86	1.58	2.8	0.0	128.837	0.776	1.533	109.2	0.8	8.63
16.69	112.3	0.85	1.58	2.8	0.0	132.118	0.757	1.534	110.7	0.8	8.38
16.70	116.1	0.84	1.58	2.8	0.0	138.214	0.724	1.535	114.5	0.8	7.82
16.71	118.5	0.83	1.58	2.8	0.0	142.771	0.7	1.536	116.9	0.7	7.53
16.72	121.2	0.83	1.59	2.8	0.0	146.024	0.685	1.537	119.6	0.7	7.21
16.73	123.9	0.82	1.59	2.8	0.0	151.098	0.662	1.539	122.4	0.7	6.9
16.74	123.9	0.82	1.59	2.8	0.0	151.098	0.662	1.539	122.4	0.7	6.9
16.75	128.8	0.82	1.59	2.8	0.0	157.073	0.637	1.54	127.2	0.7	6.41
16.76	128.8	0.82	1.59	2.8	0.0	157.073	0.637	1.541	127.2	0.7	6.41
16.77	129.2	0.82	1.59	2.8	0.0	157.561	0.635	1.542	127.7	0.7	6.39
16.78	127.4	0.83	1.59	2.8	0.0	153.494	0.651	1.543	125.8	0.7	6.61
16.79	126.0	0.85	1.59	2.8	0.0	148.235	0.675	1.544	124.4	0.7	6.84
16.80	124.86	0.86	1.59	2.8	0.0	144.651	0.691	1.545	122.0	0.7	7.08
16.81	123.1	0.87	1.59	2.8	0.0	141.494	0.707	1.546	121.5	0.7	7.28
16.82	122.1	0.88	1.60	2.8	0.0	138.75	0.721	1.547	120.5	0.8	7.44
16.83	121.2	0.9	1.60	2.8	0.0	134.667	0.743	1.548	119.6	0.8	7.66
16.84	121.8	0.91	1.60	2.8	0.0	133.846	0.747	1.549	120.2	0.8	7.63
16.85	122.6	0.91	1.60	2.8	0.0	134.725	0.742	1.55	121.0	0.8	7.6
16.86	125.3	0.93	1.60	2.8	0.0	134.731	0.742	1.551	123.8	0.8	7.43
16.87	125.3	0.93	1.60	2.8	0.0	134.731	0.742	1.552	123.8	0.8	7.43
16.88	127.3	0.94	1.60	2.8	0.0	135.426	0.738	1.553	125.7	0.8	7.3
16.89	127.4	0.94	1.60	2.8	0.0	135.532	0.738	1.554	125.8	0.8	7.29
16.90	125.6	0.95	1.60	2.8	0.0	132.211	0.756	1.555	124.1	0.8	7.52
16.91	124.2	0.96	1.60	2.8	0.0	129.375	0.773	1.556	122.7	0.8	7.71
16.92	122.4	0.97	1.60	2.8	0.0	126.186	0.792	1.557	120.8	0.8	7.94
16.93	120.5	0.97	1.60	2.8	0.0	124.227	0.805	1.558	119.0	0.8	8.19
16.94	118.7	0.98	1.60	2.8	0.0	121.122	0.826	1.559	117.1	0.9	8.44
16.95	114.5	0.99	1.60	2.8	0.0	115.657	0.865	1.56	113.0	0.9	9.02
16.96	112.5	1.0	1.60	2.8	0.0	112.5	0.889	1.561	110.9	0.9	9.32
16.97	110.1	1.0	1.60	2.9	0.0	110.1	0.908	1.562	108.6	1.0	9.65
16.98	108.5	1.0	1.60	2.9	0.0	104.455	0.957	1.563	104.0	1.0	10.35
16.99	102.9	1.01	1.60	2.9	0.0	101.881	0.982	1.564	101.3	1.0	10.72
17.00	100.1	1.01	1.60	2.9	0.0	99.109	1.009	1.565	98.6	1.1	11.15
17.01	97.5	1.01	1.60	2.9	0.0	96.535	1.036	1.566	95.9	1.1	11.56
17.02	97.5	1.01	1.60	2.9	0.0	96.535	1.036	1.567	95.9	1.1	11.56
17.03	97.5	1.01	1.60	2.9	0.0	96.535	1.036	1.568	95.9	1.1	11.56
17.04	87.4	0.82	1.62	2.9	0.0	106.385	0.938	1.569	85.8	1.0	11.82
17.05	86.0	0.82	1.62	2.9	0.0	104.878	0.956	1.57	84.4	1.0	12.12
17.06	84.6	0.82	1.61	2.9	0.0	103.171	0.969	1.571	83.1	1.0	12.4
17.07	82.8	0.82	1.61	2.9	0.0	100.976	0.99	1.572	81.2	1.1	12.77
17.08	82.0	0.82	1.61	2.9	0.0	100.0	1.0	1.573	80.4	1.1	12.94
17.09	81.4	0.82	1.61	2.9	0.0	99.268	1.007	1.574	79.8	1.1	13.03
17.10	80.9	0.81	1.61	2.9	0.0	99.877	1.001	1.575	79.3	1.1	13.09
17.11	80.1	0.8	1.61	2.9	0.0	100.125	0.999	1.576	78.6	1.1	13.15
17.12	79.6	0.79	1.61	2.9	0.0	100.759	0.992	1.577	78.1	1.1	13.18
17.13	79.2	0.79	1.61	2.9	0.0	100.253	0.997	1.578	77.7	1.1	13.2
17.14	78.8	0.78	1.61	2.9	0.0	101.026	0.99	1.579	77.3	1.0	13.2
17.15	77.8	0.76	1.61	2.9	0.0	102.368	0.977	1.58	76.2	1.0	13.26
17.16	77.2	0.75	1.61	2.9	0.0	102.933	0.972	1.581	75.4	1.0	13.28
17.17	77.2	0.75	1.61	2.9	0.0	102.933	0.972	1.582	75.6	1.0	13.26
17.18	75.8	0.73	1.61	2.9	0.0	103.836	0.963	1.583	74.2	1.0	13.46
17.19	75.3	0.73	1.61	2.9	0.0	103.151	0.969	1.584	73.8	1.0	13.5
17.20	74.2	0.71	1.61	2.9	0.0	104.507	0.957	1.585	72.7	1.0	13.62
17.21	73.6	0.71	1.61	2.9	0.0	103.662	0.965	1.586	72.1	1.0	13.7
17.22	73.3	0.7	1.61	2.9	0.0	104.714	0.955	1.587	71.7	1.0	13.71

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17.23	72.6	0.69	1.61	2.9	0.0	105.217	0.95	1.588	71.0	1.0	13.74
17.24	72.4	0.68	1.61	2.9	0.0	106.471	0.939	1.589	70.8	1.0	13.73
17.25	72.3	0.68	1.61	2.9	0.0	106.324	0.941	1.59	70.7	1.0	13.7
17.26	72.3	0.68	1.61	2.9	0.0	106.324	0.941	1.591	70.7	1.0	13.7
17.27	72.6	0.69	1.61	2.9	0.0	109.577	0.92	1.592	70.2	1.0	13.52
17.28	73.2	0.65	1.62	2.9	0.0	112.615	0.888	1.593	71.6	0.9	13.17
17.29	73.5	0.64	1.62	2.9	0.0	114.844	0.871	1.594	72.0	0.9	13.03
17.30	73.9	0.64	1.63	2.9	0.0	115.469	0.866	1.595	72.4	0.9	12.88
17.31	74.2	0.63	1.63	2.9	0.0	117.778	0.849	1.596	72.7	0.9	12.77
17.32	75.0	0.62	1.63	2.9	0.0	120.968	0.827	1.597	73.5	0.9	12.51
17.33	75.3	0.62	1.63	2.9	0.0	121.613	0.822	1.598	73.8	0.9	12.39
17.34	75.7	0.62	1.63	2.9	0.0	122.097	0.819	1.599	74.1	0.9	12.28
17.35	77.1	0.61	1.63	2.9	0.0	126.393	0.791	1.6	75.5	0.8	11.94
17.36	77.9	0.61	1.63	2.9	0.0	127.705	0.783	1.601	76.3	0.8	11.71
17.37	77.9	0.61	1.63	2.9	0.0	127.705	0.783	1.602	76.3	0.8	11.71
17.38	80.5	0.61	1.64	2.9	0.0	131.148	0.761	1.603	78.5	0.8	11.26
17.39	81.3	0.61	1.64	2.9	0.0	133.279	0.75	1.604	79.7	0.8	11.02
17.40	84.2	0.61	1.64	2.9	0.0	138.033	0.724	1.605	82.7	0.8	10.48
17.41	85.5	0.61	1.64	2.9	0.0	140.164	0.713	1.606	83.9	0.8	10.27
17.42	86.3	0.61	1.64	2.9	0.0	141.475	0.707	1.607	84.7	0.8	10.15
17.43	85.5	0.61	1.64	2.9	0.0	140.164	0.713	1.608	83.9	0.8	10.33
17.44	85.5	0.61	1.64	2.9	0.0	140.164	0.713	1.609	83.9	0.8	10.33
17.45	83.7	0.62	1.64	2.9	0.0	135.0	0.741	1.61	82.2	0.8	10.74
17.46	83.7	0.62	1.64	2.9	0.0	135.0	0.741	1.611	82.2	0.8	10.74
17.47	83.4	0.63	1.64	2.9	0.0	132.381	0.755	1.612	81.9	0.8	10.9
17.48	85.0	0.65	1.64	2.9	0.0	130.769	0.765	1.613	83.5	0.8	10.74
17.49	86.7	0.65	1.65	2.9	0.0	133.385	0.75	1.614	85.1	0.8	10.5
17.50	88.8	0.66	1.65	2.9	0.0	134.545	0.741	1.615	87.3	0.8	10.17
17.51	91.4	0.66	1.65	2.9	0.0	138.485	0.722	1.616	89.8	0.8	9.7
17.52	94.0	0.66	1.66	2.9	0.0	142.424	0.702	1.617	92.5	0.7	9.33
17.53	98.5	0.66	1.66	2.9	0.0	149.242	0.67	1.618	96.9	0.7	8.68
17.54	99.5	0.66	1.66	2.9	0.0	150.758	0.663	1.619	98.0	0.7	8.56
17.55	99.8	0.66	1.65	2.9	0.0	151.212	0.661	1.62	98.3	0.7	8.54
17.56	99.0	0.67	1.65	2.9	0.0	147.761	0.677	1.621	97.5	0.7	8.73
17.57	99.0	0.67	1.65	2.9	0.0	147.761	0.677	1.622	97.5	0.7	8.74
17.58	97.7	0.69	1.65	2.9	0.0	141.594	0.706	1.623	96.1	0.7	9

19.33	110.8	0.98	1.83	3.2	0.0	113.061	0.884	1.798	109.2	0.9	9.46
19.34	110.0	0.98	1.83	3.2	0.0	112.245	0.891	1.799	108.5	0.9	9.55
19.35	110.1	0.98	1.83	3.2	0.0	112.347	0.89	1.8	108.6	0.9	9.53
19.36	110.5	0.98	1.84	3.2	0.0	112.755	0.887	1.801	109.0	0.9	9.48
19.37	111.3	0.98	1.83	3.2	0.0	113.571	0.881	1.802	109.7	0.9	9.34
19.38	114.2	0.97	1.84	3.2	0.0	117.732	0.849	1.803	112.7	0.9	8.95
19.39	114.2	0.97	1.84	3.2	0.0	117.732	0.849	1.804	112.7	0.9	8.95
19.40	119.5	0.96	1.85	3.2	0.0	124.479	0.803	1.805	121.0	0.8	8.27
19.41	123.0	0.96	1.85	3.2	0.0	128.125	0.78	1.806	121.4	0.8	7.85
19.42	130.6	0.94	1.85	3.2	0.0	138.936	0.72	1.807	129.1	0.8	6.97
19.43	134.8	0.93	1.85	3.2	0.0	144.964	0.69	1.808	133.5	0.7	6.53
19.44	139.1	0.92	1.85	3.2	0.0	151.196	0.661	1.809	137.6	0.7	6.11
19.45	147.3	0.92	1.85	3.2	0.0	160.109	0.625	1.81	145.7	0.7	5.45
19.46	150.2	0.92	1.86	3.2	0.0	163.261	0.613	1.811	148.7	0.6	5.24
19.47	152.2	0.92	1.86	3.2	0.0	165.435	0.604	1.812	150.6	0.6	5.11
19.48	152.2	0.92	1.86	3.2	0.0	165.435	0.604	1.813	150.6	0.6	5.11
19.49	153.8	0.95	1.86	3.2	0.0	161.895	0.618	1.814	152.2	0.6	5.13
19.50	154.3	0.96	1.86	3.2	0.0	160.729	0.622	1.815	152.8	0.6	5.12
19.51	154.6	0.97	1.87	3.2	0.0	159.381	0.627	1.816	153.1	0.7	5.15
19.52	155.1	0.98	1.87	3.2	0.0	158.265	0.632	1.817	153.6	0.7	5.19
19.53	155.7	1.0	1.87	3.2	0.0	155.7	0.642	1.818	154.2	0.7	5.22
19.54	156.6	1.03	1.86	3.2	0.0	152.039	0.658	1.819	155.0	0.7	5.23
19.55	156.6	1.05	1.85	3.2	0.0	149.143	0.67	1.82	155.0	0.7	5.42
19.56	156.1	1.06	1.85	3.2	0.0	147.264	0.679	1.821	154.5	0.7	5.52
19.57	152.8	1.09	1.85	3.2	0.0	140.183	0.713	1.822	151.2	0.7	5.91
19.58	149.5	1.12	1.85	3.2	0.0	133.482	0.749	1.823	148.0	0.8	6.27
19.59	145.9	1.13	1.86	3.2	0.0	129.115	0.775	1.824	144.4	0.8	6.64
19.60	142.4	1.16	1.86	3.2	0.0	124.737	0.802	1.825	140.6	0.8	6.97
19.61	137.1	1.16	1.86	3.2	0.0	118.119	0.846	1.826	135.5	0.9	7.57
19.62	135.6	1.16	1.87	3.2	0.0	116.897	0.855	1.827	134.1	0.9	7.72
19.63	134.9	1.17	1.87	3.3	0.0	115.299	0.867	1.828	133.4	0.9	7.81
19.64	136.0	1.18	1.87	3.3	0.0	115.254	0.868	1.829	134.4	0.9	7.75
19.65	137.7	1.18	1.87	3.3	0.0	116.695	0.857	1.83	136.1	0.9	7.62
19.66	140.1	1.18	1.87	3.3	0.0	118.729	0.842	1.831	138.6	0.9	7.39
19.67	143.3	1.17	1.88	3.3	0.0	122.479	0.816	1.832	141.7	0.9	7.06
19.68	146.8	1.16	1.88	3.3	0.0	126.552	0.79	1.833	145.2	0.8	6.7
19.69	154.3	1.14	1.88	3.3	0.0	135.351	0.739	1.834	152.8	0.8	6.01
19.70	157.2	1.13	1.88	3.3	0.0	139.115	0.719	1.835	155.6	0.7	5.74
19.71	159.2	1.12	1.88	3.3	0.0	142.143	0.704	1.836	157.6	0.7	5.56
19.72	160.5	1.11	1.88	3.3	0.0	144.595	0.692	1.837	159.0	0.7	5.43
19.73	160.9	1.11	1.88	3.3	0.0	144.955	0.69	1.838	159.4	0.7	5.4
19.74	160.9	1.11	1.88	3.3	0.0	144.955	0.69	1.839	159.4	0.7	5.4
19.75	159.5	1.11	1.88	3.3	0.0	143.694	0.696	1.84	158.0	0.7	5.49
19.76	159.1	1.13	1.89	3.3	0.0	140.796	0.71	1.841	157.5	0.7	5.63
19.77	160.0	1.14	1.89	3.3	0.0	140.351	0.713	1.842	158.5	0.7	5.59
19.78	161.8	1.15	1.90	3.3	0.0	140.696	0.711	1.843	160.2	0.7	5.5
19.79	163.9	1.15	1.90	3.3	0.0	142.522	0.702	1.844	162.3	0.7	5.36
19.80	166.9	1.14	1.90	3.3	0.0	146.404	0.683	1.845	165.3	0.7	5.15
19.81	169.2	1.15	1.90	3.3	0.0	147.13	0.68	1.846	167.6	0.7	5.01
19.82	171.8	1.15	1.90	3.3	0.0	149.391	0.669	1.847	170.2	0.7	4.86
19.83	177.0	1.17	1.91	3.3	0.0	151.282	0.661	1.848	175.4	0.7	4.63
19.84	178.3	1.17	1.90	3.3	0.0	152.393	0.656	1.849	176.7	0.7	4.57
19.85	178.4	1.18	1.90	3.3	0.0	151.186	0.661	1.85	176.8	0.7	4.58
19.86	177.2	1.18	1.90	3.3	0.0	150.169	0.666	1.851	175.6	0.7	4.66
19.87	173.9	1.2	1.90	3.3	0.0	144.917	0.69	1.852	172.3	0.7	4.92
19.88	171.8	1.21	1.91	3.3	0.0	141.983	0.704	1.853	170.2	0.7	5.09
19.89	169.3	1.21	1.90	3.3	0.0	139.917	0.715	1.854	167.8	0.7	5.28
19.90	164.5	1.23	1.90	3.3	0.0	133.74	0.748	1.855	163.0	0.8	5.66
19.91	163.0	1.24	1.90	3.3	0.0	131.452	0.761	1.856	161.4	0.8	5.82
19.92	162.4	1.25	1.91	3.3	0.0	129.92	0.77	1.857	160.8	0.8	5.91
19.93	162.7	1.26	1.91	3.3	0.0	129.127	0.774	1.858	161.1	0.8	5.92
19.94	163.8	1.26	1.91	3.3	0.0	130.0	0.769	1.859	162.2	0.8	5.86
19.95	166.0	1.27	1.91	3.3	0.0	130.709	0.765	1.86	164.5	0.8	5.72
19.96	166.4	1.27	1.91	3.3	0.0	131.024	0.763	1.861	164.8	0.8	5.69
19.97	166.2	1.26	1.91	3.3	0.0	131.005	0.758	1.862	164.6	0.8	5.7
19.98	165.5	1.26	1.91	3.3	0.0	131.349	0.761	1.863	164.0	0.8	5.75
19.99	164.8	1.26	1.92	3.4	0.0	130.794	0.765	1.864	163.3	0.8	5.77
20.00	164.5	1.25	1.92	3.3	0.0	131.6	0.76	1.865	163.0	0.8	5.77
20.01	164.0	1.25	1.91	3.4	0.0	131.2	0.76	1.866	162.4	0.8	5.71
20.02	164.0	1.25	1.91	3.4	0.0	131.2	0.762	1.867	162.4	0.8	5.8

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20.03	164.0	1.25	1.91	3.4	0.0	131.2	0.762	1.868	162.4	0.8	5.8
20.04	149.0	1.05	1.91	3.4	0.0	141.905	0.705	1.869	147.4	0.7	6
20.05	145.6	1.07	1.91	3.4	0.0	136.075	0.735	1.87	144.1	0.8	6.35
20.06	143.1	1.08	1.91	3.4	0.0	132.5	0.755	1.871	141.5	0.8	6.63
20.07	140.9	1.1	1.91	3.4	0.0	128.091	0.781	1.872	139.3	0.8	6.89
20.08	140.9	1.1	1.91	3.4	0.0	128.091	0.781	1.873	139.3	0.8	6.89
20.09	137.4	1.12	1.91	3.4	0.0	122.679	0.815	1.874	135.8	0.9	7.35
20.10	136.8	1.12	1.91	3.4	0.0	122.143	0.819	1.875	135.2	0.9	7.41
20.11	136.2	1.13	1.91	3.4	0.0	120.531	0.83	1.876	134.6	0.9	7.48
20.12	135.5	1.13	1.91	3.4	0.0	119.912	0.834	1.877	134.0	0.9	7.54
20.13	133.3	1.12	1.91	3.4	0.0	119.018	0.864	1.878	131.7	0.9	7.75
20.14	132.0	1.13	1.91	3.4	0.0	116.814	0.856	1.879	130.4	0.9	7.89
20.15	130.3	1.12	1.91	3.4	0.0	116.339	0.86	1.88	128.8	0.9	8.03
20.16	129.0	1.11	1.91	3.4	0.0	116.216	0.86	1.881	127.5	0.9	8.12
20.17	126.7	1.1	1.91	3.4	0.0	115.182	0.868	1.882	125.1	0.9	8.32
20.18	125.8	1.09	1.91	3.4	0.0	115.413	0.866	1.883	124.2	0.9	8.34
20.19	125.0	1.08	1.91	3.4	0.0	115.741	0.864	1.884	123.5	0.9	8.38
20.20	124.3	1.07	1.91	3.4	0.0	116.168	0.861	1.885	122.8	0.9	8.38
20.21	123.8	1.06	1.92	3.4	0.0	116.792	0.856	1.886	122.3	0.9	8.37
20.22	123.4	1.05	1.92	3.4	0.0	117.524	0.851	1.887	121.8	0.9	8.39
20.23	122.7	1.05	1.93	3.4	0.0	116.857	0.856	1.888	121.1	0.9	8.45
20.24	121.6	1.05	1.93	3.4	0.0	115.581	0.863	1.889	120.0	0.9	8.59
20.25	121.0	1.05	1.93	3.4	0.0	115.238	0.868	1.89	119.4	0.9	8.65
20.26	119.9	1.06	1.92	3.4	0.0	113.113	0.884	1.891	118.4	0.9	8.81
20.27	118.7	1.06	1.92	3.4	0.0	111.981	0.893	1.892	117.1	0.9	9
20.28	117.2	1.07	1.92	3.4	0.0	109.533	0.913	1.893	115.6	1.0	9.24
20.29	115.6	1.09	1.92	3.4	0.0	106.055	0.943	1.894	114.0	1.0	9.52
20.30	115.4	1.1	1.92	3.4	0.0	104.900	0.952	1.895	112.2	1.0	9.59
20.31	115.7	1.1	1.92	3.4	0.0	105.182	0.951	1.896	114.1	1.0	9.58
20.32	117.6	1.11	1.92	3.4	0.0	105.946	0.944	1.897	116.0	1.0	9.38
20.33	118.7	1.1	1.92	3.4	0.0	107.909	0.927	1.898	117.1	1.0	9.21
20.34	120.0	1.1	1.92	3.4	0.0	109.091	0.917	1.899	118.5	1.0	9.04
20.35	121.1	1.1	1.93	3.4	0.0	110.091	0.908	1.9	119.5	1.0	8.9
20.36	122.4	1.1	1.92	3.4	0.0	111.273	0.899	1.901	120.8	0.9	8.77
20.37	122.6	1.1	1.92	3.4	0.0	111.455	0.897	1.902	121.0	0.9	8.75
20.38	122.6	1.1	1.92	3.4	0.0	111.455	0.897	1.903	121.0	0.9	8.76
20.39	121.4	1.12	1.92	3.5	0.0	108.393	0.923	1.904	119.8	1.0	8.98
20.40	121.1	1.12	1.92	3.5	0.0	108.125	0.925	1.905	119.5	1.0	9.02
20.41	121.1	1.12	1.92	3.5	0.0	108.125	0.925	1.906	119.5	1.0	9.02
20.42	121.0	1.12	1.92	3.5	0.0	108.036	0.926	1.907	119.4	1.0	9.04
20.43	120.9	1.12	1.92	3.5	0.0	107.946	0.926	1.908	119.3	1.0	9.07
20.44	120.4	1.12	1.92	3.5	0.0	107.5	0.93	1.909	118.9	1.0	9.14
20.45	120.6	1.12	1.93	3.5	0.0	107.679	0.929	1.91	119.1	1.0	9.11
20.46	121.1	1.12	1.93	3.5	0.0	108.125	0.925	1.911	119.5	1.0	9.06
20.47	122.2	1.13	1.93	3.5	0.0	108.142	0.925	1.912	120.2	1.0	8.95
20.48	122.2	1.13	1.93	3.5	0.0	108.142	0.925	1.913	120.6	1.0	8.98
20.49	122.2	1.14	1.93	3.5	0.0	107.193	0.933	1.914	120.6	1.0	9.01
20.50	118.8	1.14	1.93	3.5	0.0	106.842	0.936	1.915	120.2	1.0	9.06
20.51	121.5	1.13	1.93	3.5	0.0	107.522	0.932	1.916	119.9	1.0	9.07
20.52	121.7	1.13	1.93	3.5	0.0	107.649	0.932	1.917	120.1	1.0	9.07
20.53	121.8	1.13	1.93	3.5	0.0	107.785	0.93	1.918	120.2	1.0	8.98
20.54	121.3	1.12	1.93	3.5	0.0	108.304	0.923	1.919	119.7	1.0	9.01
20.55	120.3	1.12	1.93	3.5	0.0	107.411	0.931	1.92	118.8	1.0	9.11
20.56	119.4	1.11	1.93	3.5	0.0	107.568	0.93	1.921	117.9	1.0	9.22
20.57	119.1	1.11	1.93	3.5	0.0	107.297	0.932	1.922	117.6	1.0	9.2
20.58	118.5	1.11	1.94	3.5	0.0	106.575	0.937	1.923	116.9	1.0	9.3
20.59	118.4	1.11	1.94	3.5	0.0	106.667	0.938	1.924	116.8	1.0	9.31
20.60	118.1	1.11	1.94	3.5	0.0	106.396	0.94	1.925	116.5	1.0	9.36
20.61	118.4	1.11	1.95	3.5	0.0	106.667	0.938	1.926	116.8	1.0	9.31
20.62	119.1	1.1	1.95	3.5	0.0	108.273	0.924	1.927	117.6	1.0	9.18
20.63	121.3	1.09	1.95	3.5	0.0	111.284	0.889	1.928	119.7	0.9	8.85
20.64	122.5	1.09	1.95	3.5	0.0	112.385	0.89	1.929	119.9	0.9	8.87
20.65	123.5	1.08	1.95	3.5	0.0	114.352	0.874	1.93	121.9	0.9	8.57
20.66	125.0	1.09	1.95	3.5	0.0	116.679	0.872	1.931	123.5	0.9	8.41
20.67	126.0	1.09	1.95	3.5	0.0	115.996	0.885	1.932	124.4	0.9	8.32
20.68	127.0	1.09	1.95	3.5	0.0	116.514	0.888	1.933	125.4	0.9	8.22
20.69	127.9	1.09	1.95	3.5	0.0	117.339	0.882	1.934	126.3	0.9	8.12
20.70	130.5	1.1	1.95	3.5	0.0	118.624	0.879	1.935	129.0	0.9	7.99
20.71	130.5	1.1	1.96	3.5	0.0	118.636	0.884	1.936	129.0	0.9	7.89
20.72	131.9	1.1	1.96	3.5	0.0	119.909	0.834	1.937	130.3	0.9	7.79

22.13	157.0	1.42	2.10	3.4	0.0	110.563	0.904	2.078	155.4	0.9	7.04
22.14	156.6	1.41	2.10	3.4	0.0	111.064	0.9	2.079	155.0	0.9	7.05
22.15	156.2	1.4	2.11	3.4	0.0	111.571	0.896	2.08	154.6	0.9	7.05
22.16	156.5	1.38	2.11	3.4	0.0	113.406	0.882	2.081	154.9	0.9	6.94
22.17	156.5	1.38	2.11	3.4	0.0	113.406	0.882	2.082	154.9	0.9	6.94
22.18	159.2	1.36	2.12	3.4	0.0	117.059	0.854	2.083	157.6	0.9	6.61
22.19	161.0	1.34	2.12	3.4	0.0	120.149	0.832	2.084	159.5	0.9	6.42
22.20	163.3	1.33	2.12	3.4	0.0	122.782	0.814	2.085	161.7	0.8	6.2
22.21	168.2	1.3	2.13	3.4	0.0	129.385	0.773	2.086	166.6	0.8	5.75
22.22	171.0	1.29	2.14	3.4	0.0	132.558	0.754	2.087	169.5	0.8	5.5
22.23	173.4	1.27	2.13	3.4	0.0	136.535	0.732	2.088	171.8	0.8	5.29
22.24	173.4	1.27	2.13	3.4	0.0	136.535	0.732	2.089	171.8	0.8	5.29
22.25	178.3	1.25	2.13	3.4	0.0	142.64	0.701	2.09	176.7	0.7	4.91
22.26	178.3	1.25	2.13	3.4	0.0	142.64	0.701	2.091	176.7	0.7	4.91
22.27	180.1	1.25	2.13	3.4	0.0	144.08	0.694	2.092	178.6	0.7	4.79
22.28	184.1	1.25	2.14	3.4	0.0	147.28	0.679	2.093	182.5	0.7	4.57
22.29	186.1	1.26	2.14	3.4	0.0	147.698	0.677	2.094	184.6	0.7	4.46
22.30	188.7	1.26	2.14	3.4	0.0	149.762	0.668	2.095	187.1	0.7	4.34
22.31	191.6	1.27	2.13	3.4	0.0	150.866	0.663	2.096	190.0	0.7	4.2
22.32	197.5	1.28	2.14	3.4	0.0	154.297	0.648	2.097	195.9	0.7	3.93
22.33	200.3	1.28	2.14	3.4	0.0	156.484	0.639	2.098	198.8	0.7	3.82
22.34	202.5	1.29	2.14	3.4	0.0	156.977	0.637	2.099	200.9	0.7	3.73
22.35	204.7	1.31	2.14	3.4	0.0	156.26	0.64	2.1	203.2	0.7	3.69
22.36	204.5	1.31	2.14	3.4	0.0	156.107	0.641	2.101	202.9	0.7	3.73
22.37	203.3	1.33	2.14	3.4	0.0	152.857	0.654	2.102	201.7	0.7	3.85
22.38	202.5	1.35	2.14	3.4	0.0	150.0	0.667	2.103	200.9	0.7	3.95
22.39	201.3	1.37	2.14	3.4	0.0	146.934	0.681	2.104	199.8	0.7	4.08
22.40	200.8	1.4	2.14	3.4	0.0	145.29	0.688	2.105	199.4	0.7	4.16
22.41	199.9	1.39	2.14	3.4	0.0	143.813	0.695	2.106	198.4	0.7	4.2
22.42	198.0	1.4	2.14	3.4	0.0	141.429	0.707	2.107	196.4	0.7	4.34
22.43	198.0	1.4	2.14	3.4	0.0	141.429	0.707	2.108	196.4	0.7	4.34
22.44	194.9	1.42	2.14	3.4	0.0	137.254	0.729	2.109	193.4	0.8	4.59
22.45	193.0	1.44	2.14	3.4	0.0	134.028	0.746	2.11	191.4	0.8	4.75
22.46	189.1	1.48	2.14	3.4	0.0	127.77	0.783	2.111	187.5	0.8	5.09
22.47	186.8	1.48	2.13	3.4	0.0	126.216	0.792	2.112	185.2	0.8	5.25
22.48	184.7	1.49	2.13	3.4	0.0	123.96	0.807	2.113	183.2	0.8	5.39
22.49	182.1	1.49	2.13	3.4	0.0	122.215	0.818	2.114	180.5	0.9	5.56
22.50	178.6	1.48	2.14	3.4	0.0	120.676	0.829	2.115	177.0	0.9	5.76
22.51	176.3	1.47	2.14	3.4	0.0	119.932	0.834	2.116	174.7	0.9	5.87
22.52	174.2	1.47	2.14	3.4	0.0	118.503	0.844	2.117	172.6	0.9	5.99
22.53	168.7	1.44	2.14	3.4	0.0	117.153	0.854	2.118	167.1	0.9	6.26
22.54	165.6	1.43	2.14	3.4	0.0	115.804	0.864	2.119	164.1	0.9	6.43
22.55	161.3	1.41	2.14	3.4	0.0	114.397	0.874	2.12	159.7	0.9	6.7
22.56	156.1	1.4	2.14	3.4	0.0	111.5	0.897	2.121	154.5	0.9	7.04
22.57	149.3	1.39	2.13	3.4	0.0	107.41	0.931	2.122	147.8	1.0	7.56
22.58	131.6	1.34	2.14	3.4	0.0	98.209	1.018	2.123	130.1	1.1	9.05
22.59	120.0	1.32	2.10	3.5	0.0	90.909	1.1	2.124	118.5	1.2	10.29
22.60	107.5	1.31	2.08	3.4	0.0	82.061	1.219	2.125	105.9	1.3	12.02
22.61	81.4	1.33	2.04	3.5	0.0	61.203	1.634	2.126	79.8	1.8	17.26
22.62	70.2	1.34	2.03	3.5	0.0	52.388	1.909	2.127	68.6	2.1	20.49
22.63	60.5	1.36	2.02	3.5	0.0	44.485	2.248	2.128	58.9	2.5	24.28
22.64	52.4	1.4	2.06	3.5	0.0	37.429	2.672	2.129	50.8	3.0	28.47
22.65	46.5	1.43	2.03	3.5	0.0	32.797	3.049	2.13	45.3	3.5	32
22.66	39.5	1.52	2.09	3.5	0.0	25.987	3.448	2.131	38.0	4.5	38.54
22.67	37.2	1.57	2.13	3.5	0.0	23.694	4.22	2.132	35.6	5.0	41.26
22.68	34.2	1.68	2.19	3.5	0.0	20.357	4.912	2.133	32.7	5.9	45.57
22.69	34.2	1.68	2.19	3.5	0.0	20.357	4.912	2.134	32.7	5.9	45.57
22.70	32.8	1.72	2.26	3.5	0.0	19.07	5.344	2.135	31.2	6.4	48.99
22.71	31.2	1.75	2.51	3.5	0.0	17.829	5.609	2.136	29.6	6.9	50.15
22.72	29.8	1.74	2.66	3.5	0.0	17.126	5.839	2.137	28.2	7.3	52
22.73	27.8	1.7	2.98	3.5	0.0	16.353	6.115	2.138	26.3	7.8	54.62
22.74	27.0	1.66	3.27	3.5	0.0	16.265	6.418	2.139	25.4	7.9	55.64
22.75	26.3	1.61	3.48	3.5	0.0	16.335	6.122	2.14	24.7	7.9	56.29
22.76	26.0	1.56	3.59	3.5	0.0	16.667	6.0	2.141	24.4	7.8	56.22
22.77	25.8	1.5	3.80	3.5	0.0	17.2	5.814	2.142	24.2	7.6	55.76
22.78	25.7	1.38	4.18	3.5	0.0	18.623	5.37	2.143	24.1	7.0	54.2
22.79	25.8	1.3	4.06	3.5	0.0	19.846	5.039	2.144	24.2	6.5	52.86
22.80	25.1	1.21	4.14	3.5	0.0	20.744	4.821	2.145	23.5	6.3	52.81
22.81	22.3	1.01	6.04	3.5	0.0	22.079	4.529	2.146	20.7	6.2	55.05
22.82	21.3	0.89	6.37	3.5	0.0	23.933	4.178	2.147	19.7	5.8	54.83

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22.83	20.8	0.79	6.77	3.5	0.0	26.329	3.798	2.148	19.2	5.3	53.65
22.84	20.0	0.69	7.46	3.6	0.0	28.986	3.45	2.149	18.4	4.9	53.1
22.85	19.3	0.61	7.71	3.6	0.0	31.639	3.161	2.15	17.8	4.5	52.5
22.86	18.8	0.49	7.86	3.6	0.0	38.367	2.606	2.151	17.3	3.8	50.02
22.87	18.9	0.44	8.12	3.6	0.0	42.955	2.328	2.152	17.4	3.4	48.12
22.88	18.6	0.39	8.06	3.6	0.0	47.692	2.097	2.153	17.1	3.1	46.88
22.89	18.2	0.37	7.96	3.6	0.0	49.189	2.033	2.154	16.7	3.0	47.02
22.90	17.7	0.33	7.40	3.6	0.0	53.636	1.864	2.155	16.2	2.8	46.63
22.91	17.6	0.32	7.23	3.6	0.0	55.0	1.818	2.156	16.0	2.7	46.35
22.92	17.4	0.3	6.82	3.6	0.0	58.0	1.724	2.157	15.8	2.7	46.36
22.93	17.0	0.31	6.50	3.6	0.0	54.839	1.824	2.158	15.4	2.8	47.59
22.94	16.6	0.31	6.31	3.6	0.0	53.548	1.867	2.159	15.0	2.9	48.85
22.95	16.3	0.3	6.38	3.6	0.0	54.333	1.84	2.16	14.7	3.0	49.3
22.96	16.1	0.29	6.39	3.6	0.0	55.517	1.801	2.161	14.5	2.9	49.26
22.97	16.0	0.28	6.48	3.6	0.0	57.143	1.75	2.162	14.4	2.8	48.96
22.98	15.6	0.27	6.89	3.6	0.0	57.778	1.731	2.163	14.0	2.8	49.49
22.99	15.6	0.26	7.05	3.6	0.0	60.0	1.667	2.164	14.0	2.7	48.78
23.00	15.5	0.24	7.19	3.6	0.0	64.583	1.548	2.165	13.9	2.6	48.37
23.01	15.5	0.24	7.19	3.6	0.0	64.583	1.548	2.166	13.9	2.6	48.37
23.02	15.5	0.24	7.19	3.6	0.0	64.583	1.548	2.167	13.9	2.6	48.37
23.03	16.0	0.17	7.21	3.6	0.0	94.118	1.063	2.168	14.4	1.8	42.35
23.04	15.9	0.18	7.26	3.6	0.0	88.333	1.132	2.169	14.3	1.8	42.76
23.05	15.8	0.18	7.52	3.6	0.0	87.778	1.139	2.17	14.2	1.8	43.01
23.06	15.9	0.18	7.52	3.6	0.0	88.333	1.132	2.171	14.3	1.8	42.95
23.07	15.9	0.18	7.51	3.6	0.0	88.333	1.132	2.172	14.3	1.8	42.91
23.08	15.9	0.18	7.49	3.6	0.0	88.333	1.132	2.173	14.3	1.8	43.17
23.09	15.9	0.19	7.39	3.6	0.0	83.684	1.195	2.174	14.3	1.9	43.66
23.10	15.8	0.19	7.32	3.6	0.0	83.158	1.203	2.175	14.2	1.9	44.22
23.11	15.7	0.19	7.17	3.6	0.0	82.632	1.21	2.176	14.1	2.0	44.57
23.12	15.5	0.2	7.06	3.6	0.0	77.5	1.29	2.177	13.9	2.1	45.37
23.13	15.3	0.2	6.88	3.6	0.0	76.5	1.307	2.178	13.7	2.2	46.14
23.14	14.9	0.2	7.08	3.6	0.0	74.5	1.342	2.179	13.3	2.3	47.5
23.15	14.8	0.21	7.17	3.6	0.0	70.476	1.419	2.18	13.2	2.4	48.11
23.16	14.8	0.21	7.17	3.6	0.0	70.476	1.419	2.181	13.2	2.4	48.12
23.17	14.7	0.2	7.48	3.6	0.0	73.5	1.361	2.182	13.1	2.4	48.28
23.18	14.7	0.2	7.54	3.6	0.0	73.5	1.361	2.183	13.1	2.3	48.19
23.19	14.8	0.2	7.72	3.6	0.0	74.0	1.351	2.184	13.3	2.3	47.72
23.20	14.9	0.1	7.82	3.6	0.0	78.421	1.275	2.185	13.3	2.2	46.94
23.21	15.2	0.19	7.90	3.6	0.0	80.0	1.25	2.186	13.6	2.1	45.81
23.22	15.5	0.19	7.75	3.6	0.0	81.579	1.226	2.187	13.9	2.0	44.67
23.23	15.5	0.18	7.56	3.5	0.0	86.111	1.161	2.188	13.9	1.9	44.22
23.24	15.5	0.18	7.22	3.5	0.0	86.111	1.161	2.189	13.9	1.9	44.01
23.25	15.5	0.18	7.22	3.5	0.0	86.111	1.161	2.19	13.9	1.9	44.02
23.26	15.5	0.18	6.70	3.5	0.0	86.111	1.161	2.191	13.9	1.9	43.8
23.27	15.4	0.18	6.83	3.5	0.0	85.556	1.169	2.192	13.8	1.9	44.23
23.28	15.3	0.18	6.73	3.5	0.0	85.0	1.176	2.193	13.7	1.9	44.52
23.29	15.2	0.18	6.55	3.5	0.0	84.844	1.184	2.194	13.6	2.0	44.91
23.30	15.1	0.18	6.65	3.5	0.0	83.889	1.192	2.195	13.5	2.0	45.33
23.31	15.1	0.18	6.80	3.5	0.0	83.889	1.192	2.196	13.5	2.0	45.63
23.32	15.2	0.19	6.59	3.5	0.0	80.0	1.25	2.197	13.7	1.9	44.52
23.33	15.3	0.19	6.46	3.5	0.0	80.526	1.242	2.198	13.7	2.0	45.38
23.34	15.3	0.19	6.66	3.5	0.0	80.526	1.242	2.199	13.7	2.1	45.8
23.35	15.3	0.21	6.71	3.5	0.0	72.857	1.373	2.2	13.7	2.3	46.71
23.36	15.3	0.21	6.71	3.5	0.0	72.857	1.373	2.201	13.7	2.3	46.71
23.37	15.2	0.23	6.65	3.5	0.0	66.087	1.513	2.202	13.6	2.5	48.24
23.38	15.2	0.23	6.65	3.5	0.0	66.087	1.513	2.203	13.6	2.5	48.24
23.39	15.1	0.24	6.62	3.5	0.0	62.917	1.589	2.204	13.5	2.7	49.41
23.40	15.2	0.25	6.58	3.5	0.0	60.8	1.645	2.205	13.6	2.7	49.7
23.41	15.3	0.25	6.49	3.5	0.0	61.2	1.634	2.206	13.7	2.7	49.59
23.42	15.6	0.26	6.89	3.5	0.0	60.0	1.667	2.207	14.0	2.7	49.01
23.43	15.8	0.26	7.03	3.5	0.0	60.769	1.646	2.208	14.2	2.7	48.6
23.44	16.1	0.27	7.14	3.5	0.0	59.63	1.677	2.209	15.0	2.7	48.6
23.45	16.6	0.25	6.88	3.5	0.0	66.4	1.506	2.21	15.4	2.4	45.92
23.46	16.8	0.26	6.67	3.5	0.0	64.615	1.548	2.211	15.2	2.4	45.54
23.47	16.8	0.27	6.65	3.5	0.0	62.222	1.607	2.212	15.2	2.5	46.25
23.48	16.9	0.28	6.58	3.5	0.0	60.357	1.657	2.213	15.3	2.6	46.63
23.49	16.9	0.28	6.46	3.5	0.0	60.357	1.657	2.214	15.3	2.6	46.79
23.50	17.0	0.29	6.69	3.5	0.0	58.621	1.706	2.215	15.7	2.7	48.6
23.51	17.0	0.3	5.79	3.5	0.0	56.667	1.765	2.216	15.4	2.7	47.13
23.52	17.0	0.3	5.65	3.5	0.0	56.667	1.765	2.217	15.4	2.8	47.44

24.93	23.1	0.48	5.69	3.6	0.0	48.125	2.078	2.358	21.6	2.9	41.48
24.94	23.3	0.48	5.68	3.5	0.0	48.542	2.068	2.359	21.8	2.9	41.16
24.95	23.6	0.51	5.73	3.5	0.0	46.275	2.161	2.36	22.1	3.0	41.45
24.96	23.4	0.52	5.73	3.5	0.0	45.50	2.222	2.361	21.9	3.1	42.06
24.97	23.2	0.55	5.74	3.5	0.0	43.396	2.304	2.362	21.2	3.2	43.01
24.98	22.2	0.55	5.63	3.5	0.0	40.364	2.477	2.363	20.6	3.5	45.15
24.99	21.8	0.55	5.57	3.6	0.0	39.636	2.523	2.364	20.2	3.6	45.93
25.00	21.8	0.55	5.57	3.6	0.0	39.636	2.523	2.365	20.2	3.6	45.94
25.01	21.8	0.55	5.57	3.6	0.0	39.636	2.523	2.366	20.2	3.6	45.94
25.02	20.1	0.59	5.88	3.6	0.0	41.02	2.438	2.367	18.5	3.6	47.65
25.03	19.3	0.51	5.74	3.6	0.0	37.843	2.642	2.368	17.7	4.0	50.11
25.04	19.3	0.51	5.74	3.6	0.0	37.843	2.642	2.369	17.7	4.0	50.12
25.05	18.8	0.5	6.18	3.6	0.0	37.3	2.66	2.37	17.2	4.0	51.07
25.06	19.3	0.49	6.39	3.6	0.0	39.388	2.539	2.371	17.7	3.8	49.61
25.07	20.2	0.49	6.75	3.6	0.0	41.224	2.426	2.372	18.6	3.6	47.05
25.08	22.7	0.48	7.40	3.6	0.0	47.292	2.115	2.373	21.2	3.0	42.05
25.09	23.7	0.47	7.09	3.6	0.0	50.426	1.983	2.374	22.2	2.7	40.19
25.10	23.9	0.47	6.36	3.6	0.0	50.851	1.967	2.375	22.3	2.7	39.83
25.11	23.9	0.47	6.36	3.6	0.0	50.851	1.967	2.376	22.3	2.7	39.83
25.12	22.8	0.46	6.04	3.6	0.0	49.565	2.018	2.377	21.3	2.8	41.33
25.13	21.6	0.46	5.95	3.6	0.0	46.957	2.13	2.378	20.0	3.1	43.63
25.14	20.5	0.48	5.94	3.6	0.0	42.708	2.341	2.379	18.9	3.4	46.45
25.15	19.5	0.5	6.06	3.6	0.0	39.0	2.564	2.38	17.9	3.8	49.31
25.16	18.1	0.49	6.60	3.6	0.0	36.939	2.707	2.381	16.6	4.2	52.54
25.17	18.1	0.47	6.85	3.6	0.0	38.511	2.597	2.382	16.6	4.0	51.7
25.18	18.5	0.45	7.53	3.6	0.0	41.111	2.432	2.383	17.0	3.7	50.11
25.19	18.7	0.43	8.32	3.6	0.0	43.488	2.299	2.384	17.1	3.5	48.9
25.20	18.2	0.48	8.48	3.6	0.0	44.286	2.258	2.385	17.3	3.5	48.66
25.21	18.0	0.39	8.13	3.6	0.0	46.154	2.167	2.386	16.5	3.4	49.11
25.22	17.7	0.38	7.64	3.6	0.0	46.579	2.147	2.387	16.2	3.3	49.29
25.23	17.6	0.36	7.25	3.6	0.0	48.889	2.045	2.388	16.0	3.3	49.26
25.24	17.4	0.36	7.00	3.6	0.0	48.333	2.069	2.389	15.8	3.3	49.66
25.25	17.3	0.37	6.90	3.6	0.0	46.757	2.139	2.39	15.7	3.5	50.55
25.26	17.0	0.42	7.03	3.6	0.0	40.476	2.471	2.391	15.4	4.0	53.29
25.27	16.8	0.42	7.10	3.6	0.0	40.0	2.5	2.392	15.2	4.1	53.85
25.28	16.8	0.4	7.17	3.6	0.0	42.0	2.381	2.393	15.2	3.9	53.28
25.29	16.9	0.37	7.25	3.6	0.0	45.676	2.189	2.394	15.3	3.5	51.36
25.30	17.0	0.35	7.16	3.5	0.0	48.571	2.059	2.395	15.4	3.3	50.28
25.31	17.0	0.35	7.16	3.5	0.0	48.571	2.059	2.396	15.4	3.3	50.28
25.32	17.4	0.33	7.01	3.6	0.0	52.727	1.897	2.397	15.8	3.1	48.34
25.33	17.7	0.33	7.01	3.6	0.0	53.636	1.864	2.398	16.1	3.0	47.71
25.34	17.8	0.35	7.07	3.6	0.0	50.857	1.966	2.399	16.3	3.1	47.76
25.35	18.6	0.37	7.07	3.6	0.0	50.27	1.989	2.4	17.0	3.1	46.76
25.36	19.0	0.38	7.09	3.6	0.0	50.0	2.0	2.401	17.4	3.1	46.29
25.37	19.5	0.4	7.10	3.6	0.0	48.75	2.051	2.402	17.9	3.1	45.77
25.38	19.8	0.4	7.08	3.6	0.0	48.293	2.071	2.403	18.2	3.1	45.48
25.39	20.0	0.41	6.94	3.6	0.0	48.78	2.05	2.404	18.4	3.1	45.28
25.40	20.1	0.42	6.60	3.6	0.0	47.857	2.09	2.405	18.5	3.1	45.2
25.41	19.8	0.42	6.40	3.6	0.0	47.143	2.121	2.406	18.2	3.1	45.89
25.42	19.7	0.42	6.40	3.6	0.0	46.905	2.132	2.407	18.1	3.2	46.13
25.43	19.6	0.42	6.29	3.6	0.0	46.667	2.143	2.408	18.0	3.2	46.4
25.44	19.4	0.44	5.98	3.6	0.0	44.091	2.268	2.409	17.8	3.4	47.52
25.45	19.8	0.45	5.93	3.6	0.0	42.0	2.381	2.41	17.3	3.7	49.26
25.46	18.6	0.45	5.99	3.6	0.0	41.333	2.419	2.411	17.0	3.8	50.11
25.47	18.1	0.46	6.03	3.6	0.0	39.348	2.541	2.412	16.6	4.0	51.62
25.48	17.8	0.46	6.34	3.6	0.0	38.696	2.584	2.413	16.3	4.1	52.57
25.49	17.7	0.45	6.55	3.6	0.0	39.333	2.542	2.414	16.2	4.0	52.32
25.50	17.8	0.44	6.66	3.6	0.0	40.455	2.472	2.415	16.3	3.9	51.64
25.51	17.9	0.43	6.77	3.6	0.0	41.628	2.402	2.416	16.4	3.8	51.08
25.52	17.9	0.43	6.77	3.6	0.0	41.628	2.402	2.417	16.4	3.8	51.08
25.53	17.9	0.41	7.05	3.6	0.0	43.659	2.291	2.418	16.4	3.6	50.11
25.54	19.0	0.38	7.42	3.6	0.0	50.0	2.0	2.419	17.4	3.1	46.39
25.55	20.4	0.39	7.66	3.6	0.0	52.308	1.912	2.42	18.8	2.8	43.48
25.56	21.9	0.39	7.91	3.6	0.0	56.154	1.781	2.421	20.3	2.6	40.79
25.57	23.8	0.39	8.21	3.6	0.0	61.026	1.639	2.422	22.2	2.3	37.62
25.58	27.3	0.38	5.95	3.6	0.0	71.842	1.392	2.423	25.7	1.9	32.6
25.59	28.0	0.39	4.15	3.6	0.0	71.795	1.393	2.424	26.5	1.8	31.77
25.60	27.9	0.41	4.30	3.6	0.0	68.049	1.47	2.425	26.4	1.9	32.48
25.61	27.1	0.44	4.38	3.6	0.0	61.591	1.654	2.426	25.3	2.3	34.85
25.62	25.4	0.47	4.43	3.6	0.0	54.043	1.85	2.427	23.8	2.5	37.53

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25.63	21.2	0.44	4.63	3.6	0.0	48.182	2.075	2.428	19.6	3.0	43.9
25.64	19.8	0.42	4.84	3.6	0.0	47.143	2.121	2.429	18.2	3.2	45.96
25.65	19.6	0.41	5.28	3.6	0.0	47.805	2.092	2.43	18.0	3.2	46.28
25.66	19.8	0.4	5.54	3.6	0.0	49.5	2.02	2.431	18.2	3.0	45.27
25.67	20.3	0.37	5.77	3.6	0.0	54.865	1.823	2.432	18.7	2.7	43.27
25.68	23.8	0.37	6.37	3.6	0.0	64.324	1.555	2.433	22.2	2.1	36.71
25.69	27.0	0.37	6.75	3.6	0.0	72.973	1.37	2.434	25.4	1.8	32.45
25.70	30.7	0.37	7.12	3.6	0.0	82.973	1.205	2.435	29.1	1.6	28.6
25.71	38.4	0.42	7.10	3.6	0.0	91.429	1.094	2.436	36.9	1.3	23.54
25.72	38.4	0.42	7.10	3.6	0.0	91.429	1.094	2.437	36.9	1.3	23.54
25.73	44.3	0.53	4.23	3.6	0.0	83.585	1.196	2.438	42.7	1.4	22.15
25.74	46.4	0.6	3.09	3.6	0.0	77.333	1.293	2.439	44.8	1.5	22.33
25.75	48.4	0.7	2.30	3.6	0.0	69.143	1.446	2.44	46.9	1.7	22.83
25.76	49.7	0.83	1.69	3.6	0.0	59.88	1.67	2.441	48.1	1.9	23.93
25.77	51.8	1.04	1.20	3.6	0.0	49.808	2.008	2.442	50.2	2.3	25.32
25.78	53.5	1.12	1.13	3.6	0.0	47.768	2.093	2.443	52.0	2.4	25.37
25.79	55.7	1.21	1.10	3.6	0.0	46.033	2.172	2.444	54.1	2.5	25.2
25.80	57.6	1.28	1.07	3.6	0.0	45.0	2.222	2.445	56.0	2.5	25.02
25.81	60.2	1.42	1.04	3.6	0.0	42.394	2.359	2.446	58.6	2.7	25.08
25.82	60.4	1.47	1.02	3.6	0.0	41.088	2.434	2.447	58.8	2.7	25.37
25.83	60.2	1.5	1.00	3.6	0.0	40.133	2.492	2.448	58.6	2.8	25.69
25.84	59.9	1.53	0.99	3.6	0.0	39.15	2.554	2.449	58.3	2.9	26.06
25.85	58.3	1.58	0.97	3.6	0.0	36.899	2.71	2.45	56.8	3.1	27.22
25.86	57.3	1.59	0.95	3.6	0.0	36.038	2.775	2.451	55.7	3.2	27.82
25.87	56.4	1.59	0.94	3.6	0.0	35.472	2.819	2.452	54.8	3.2	28.27
25.88	54.7	1.56	0.93	3.6	0.0	35.064	2.852	2.453	53.1	3.3	28.84
25.89	52.9	1.51	0.92	3.6	0.0	35.033	2.854	2.454	51.3	3.3	29.38
25.90	48.0	1.4	0.90	3.6	0.0	34.286	2.917	2.455	46.5	3.4	31.25
25.91	45.3	1.37	0.88	3.6	0.0	33.066	3.024	2.456	43.7	3.5	32.73
25.92	42.7	1.33	0.87	3.6	0.0	32.105	3.115	2.457	41.1	3.7	34.26
25.93	42.7	1.33	0.87	3.6	0.0	32.105	3.115	2.458	41.1	3.7	34.26
25.94	38.0	1.19	0.87	3.6	0.0	31.933	3.132	2.459	36.5	3.8	36.46
25.95	35.7	1.04	0.91	3.6	0.0	34.327	2.913	2.46	34.1	3.6	36.65
25.96	35.5	1.01	0.96	3.6	0.0	35.149	2.845	2.461	33.9	3.5	36.47
25.97	35.9	1.02	1.04	3.7	0.0	35.196	2.841	2.462	34.3	3.5	36.17
25.98	37.6	1.08	1.32	3.7	0.0	34.815	2.872	2.463	36.0	3.5	35.52
25.99	37.6	1.08	1.32	3.7	0.0	34.815	2.872	2.464	36.0	3.5	35.52
26.00	37.6	1.0	1.36	3.6	0.0	34.815	2.872	2.465	36.0	3.5	35.53
26.01	37.6	1.08	1.32	3.7	0.0	34.815	2.872	2.466	36.0	3.5	35.53
26.02	41.3	0.91	3.67	3.7	0.0	45.385	2.203	2.467	39.7	2.6	30.11
26.03	40.4	0.94	3.52	3.7	0.0	42.979	2.327	2.468	38.8	2.8	31.25
26.04	38.4	1.02	3.39	3.7	0.0	37.647	2.606	2.469	36.9	3.2	33.87
26.05	37.1	1.04	3.34	3.7	0.0	35.673	2.833	2.47	35.5	3.4	35.34
26.06	34.4	1.26	3.16	3.6	0.0	34.231	2.921	2.471	34.0	3.7	37.44
26.07	31.9	0.99	3.24	3.7	0.0	32.222	3.103	2.472	30.3	3.9	40.05
26.08	30.3	0.96	3.30	3.6	0.0	31.563	3.168	2.473	28.7	4.1	41.55
26.09	30.3	0.96	3.30	3.6	0.0	31.563	3.168	2.474	28.7	4.1	41.55
26.10	27.8	0.93	3.54	3.6	0.0	29.892	3.345	2.475	26.3	4.4	44.38
26.11	26.5	0.92	3.74	3.6	0.0	28.804	3.472	2.476	24.7	4.7	46.31
26.12	25.9	0.9	4.06	3.6	0.0	28.764	3.477	2.477	24.0	4.7	46.22
26.13	25.5	0.89	5.03	3.6	0.0	28.652	3.49	2.478	23.9	4.7	46.22
26.14	25.3	0.86	5.24	3.6	0.0	29.419	3.399	2.479	23.7	4.6	47.1
26.15	25.0	0.84	5.36	3.6	0.0	29.762	3.36	2.479	23.4	4.6	47.15
26.16	24.7	0.83	5.40	3.6	0.0	29.759	3.36	2.481	23.1	4.6	47.41
26.17	24.1	0.83	5.27	3.6	0.0	29.036	3.444	2.482	22.5	4.8	48.51
26.18	23.6	0.84	5.26	3.6	0.0	28.959	3.559	2.483	21.9	5.0	49.55
26.19	23.0	0.84	5.33	3.7	0.0	27.381	3.652	2.484	21.5	5.2	50.91
26.20	22.4	0.84	5.60	3.6	0.0	26.905	3.717	2.485	21.0	5.3	51.85
26.21	22.3	0.79	6.40	3.6	0.0	28.228	3.543	2.486	20.7	5.1	51.32
26.22	22.3	0.76	6.66	3.6	0.0	29.342	3.408	2.487	20.7	4.9	50.63
26.23	22.5	0.73	6.84	3.6	0.0	30.822	3.244	2.488	20.9	4.7	49.63
26.24	22.7	0.7	6.97	3.6	0.0	32.084	3.089	2.489	21.1	4.4	48.44
26.25	22.7	0.67	6.93	3.6	0.0	33.881	2.952	2.49	21.2	4.2	47.67
26.26	22.5	0.65	6.93	3.6	0.0	34.615	2.889	2.491	20.9	4.1	47.5
26.27	22.4	0.63	6.76	3.6	0.0	35.556	2.813	2.492	20.8	4.1	47.38
26.28	22.4	0.63	6.64	3.6	0.0	34.921	2.864	2.493	20.4	4.2	48.22
26.29	21.4	0.65	6.85	3.6	0.0	32.923	3.037	2.494	19.4	4.4	49.85
26.30	21.6	0.65	6.84	3.6	0.0	32.923	3.037	2.495	19.8	4.5	49.84
26.31	20.9	0.62	7.52	3.6	0.0	33.71	2.967	2.496	19.3	4.4	50.18
26.32	21.1	0.6	7.81	3.6	0.0	35.0	2.857	2.497	19.4	4.2	49.43

27.73	32.7	1,6	7,16	3,6	0,0	20,438	4,893	2,638	31,1	6,3	47,39
27.74	30,3	1,54	6,54	3,6	0,0	19,675	5,083	2,639	28,7	6,7	49,98
27.75	29,0	1,52	5,94	3,6	0,0	19,079	5,241	2,64	27,4	6,9	51,59
27.76	27,2	1,43	3,82	3,6	0,0	19,021	5,257	2,641	25,6	7,1	53,53
27.77	26,6	1,3	3,40	3,6	0,0	18,601	5,376	2,642	25,3	7,3	54,52
27.78	24,7	1,44	3,17	3,6	0,0	17,153	5,83	2,643	23,1	8,2	58,33
27.79	24,7	1,44	3,17	3,6	0,0	17,153	5,83	2,644	23,1	8,2	58,33
27.80	21,5	1,35	3,65	3,6	0,0	15,926	6,279	2,645	19,9	9,4	64,55
27.81	21,2	1,29	3,85	3,6	0,0	16,434	6,085	2,646	19,6	9,1	64,2
27.82	24,5	1,24	4,05	3,6	0,0	17,137	5,822	2,647	19,7	8,7	63,1
27.83	21,4	1,18	4,34	3,6	0,0	18,136	5,514	2,648	19,3	8,3	61,89
27.84	21,6	1,16	4,63	3,6	0,0	18,621	5,37	2,649	20,0	8,0	61
27.85	22,5	1,14	5,14	3,6	0,0	19,737	5,067	2,65	20,9	7,4	58,4
27.86	23,1	1,12	5,30	3,6	0,0	20,625	4,848	2,651	21,5	7,0	56,48
27.87	23,6	1,1	5,33	3,6	0,0	21,455	4,661	2,652	22,0	6,6	55,07
27.88	24,5	1,0	5,12	3,6	0,0	24,5	4,082	2,653	22,9	5,8	51,59
27.89	24,5	0,96	4,97	3,6	0,0	25,521	3,918	2,654	22,9	5,6	50,91
27.90	24,5	0,96	4,97	3,6	0,0	25,521	3,918	2,655	22,9	5,6	50,92
27.91	24,0	0,91	4,72	3,6	0,0	26,374	3,792	2,656	22,4	5,4	50,78
27.92	23,8	0,87	4,60	3,6	0,0	27,356	3,655	2,657	22,2	5,2	50,44
27.93	23,8	0,83	4,26	3,6	0,0	28,675	3,487	2,658	22,2	5,0	49,54
27.94	23,5	0,83	4,14	3,6	0,0	28,313	3,532	2,659	21,9	5,1	50,16
27.95	23,0	0,85	4,07	3,6	0,0	27,059	3,696	2,66	21,4	5,3	51,51
27.96	22,4	0,87	4,05	3,6	0,0	25,747	3,884	2,661	20,8	5,7	53,5
27.97	22,4	0,87	4,05	3,6	0,0	25,747	3,884	2,662	20,8	5,7	53,51
27.98	22,2	0,88	4,11	3,6	0,0	25,227	3,964	2,663	20,6	5,9	54,12
27.99	22,2	0,88	4,11	3,6	0,0	25,227	3,964	2,664	20,6	5,9	54,12
28.00	22,2	0,88	4,11	3,6	0,0	25,227	3,964	2,665	20,6	5,9	54,12
28.01	22,2	0,88	4,11	3,6	0,0	25,227	3,964	2,666	20,6	5,9	54,12
28.02	21,9	0,84	6,30	3,6	0,0	26,071	3,836	2,667	20,3	5,7	54
28.03	21,9	0,85	6,24	3,6	0,0	25,765	3,881	2,668	20,3	5,8	54,03
28.04	21,8	0,84	6,29	3,6	0,0	25,952	3,853	2,669	20,2	5,7	54,11
28.05	21,3	0,82	6,01	3,6	0,0	25,976	3,85	2,67	19,7	5,8	54,83
28.06	21,2	0,81	5,90	3,6	0,0	26,173	3,821	2,671	19,6	5,8	54,77
28.07	21,2	0,8	5,79	3,6	0,0	26,5	3,774	2,672	19,6	5,7	54,49
28.08	21,2	0,78	5,67	3,6	0,0	27,179	3,679	2,673	19,6	5,6	54,09
28.09	20,8	0,74	5,47	3,6	0,0	28,108	3,558	2,674	19,2	5,5	54,19
28.10	20,6	0,73	5,44	3,6	0,0	28,219	3,544	2,675	19,0	5,5	54,4
28.11	20,6	0,73	5,45	3,6	0,0	28,219	3,544	2,676	19,0	5,5	54,4
28.12	20,5	0,73	5,43	3,6	0,0	28,082	3,561	2,677	18,9	5,5	54,85
28.13	20,7	0,72	5,29	3,6	0,0	28,75	3,78	2,678	19,1	5,3	53,91
28.14	20,9	0,72	5,22	3,6	0,0	29,028	3,445	2,679	19,3	5,3	53,47
28.15	20,9	0,74	5,14	3,6	0,0	28,243	3,541	2,68	19,3	5,4	53,78
28.16	20,7	0,75	5,12	3,6	0,0	27,6	3,623	2,681	19,1	5,5	54,59
28.17	20,5	0,75	5,09	3,6	0,0	27,333	3,659	2,682	18,9	5,6	55,06
28.18	20,3	0,73	5,09	3,6	0,0	27,808	3,596	2,683	18,7	5,6	55,14
28.19	20,3	0,72	5,11	3,5	0,0	28,194	3,547	2,684	18,7	5,5	54,96
28.20	20,1	0,72	5,10	3,6	0,0	27,917	3,582	2,685	18,5	5,6	55,32
28.21	19,6	0,71	5,09	3,5	0,0	27,606	3,622	2,686	18,0	5,7	56,42
28.22	19,4	0,7	5,10	3,6	0,0	27,714	3,608	2,687	17,8	5,7	56,62
28.23	19,4	0,69	5,10	3,6	0,0	28,116	3,557	2,688	17,8	5,7	56,42
28.24	19,4	0,69	5,17	3,6	0,0	28,116	3,557	2,689	17,8	5,7	56,43
28.25	19,2	0,69	5,11	3,6	0,0	27,826	3,594	2,69	17,6	5,8	57,01
28.26	18,9	0,68	5,09	3,6	0,0	27,794	3,598	2,691	17,3	5,8	57,6
28.27	18,9	0,68	5,13	3,5	0,0	27,794	3,598	2,692	17,3	5,8	57,46
28.28	18,9	0,68	5,14	3,5	0,0	27,794	3,598	2,693	17,3	5,8	57,43
28.29	18,0	0,67	5,13	3,6	0,0	28,358	3,526	2,694	17,4	5,7	57,09
28.30	18,6	0,67	5,16	3,5	0,0	28,06	3,564	2,695	17,2	5,8	57,6
28.31	18,6	0,67	5,18	3,6	0,0	27,761	3,602	2,696	17,0	5,9	58,16
28.32	18,3	0,67	5,23	3,6	0,0	27,313	3,661	2,697	16,7	6,1	59,12
28.33	18,0	0,67	5,28	3,6	0,0	26,866	3,722	2,698	16,4	6,2	59,95
28.34	17,8	0,65	5,28	3,6	0,0	27,385	3,652	2,699	16,3	6,1	59,89
28.35	17,8	0,65	5,28	3,6	0,0	27,385	3,652	2,7	16,3	6,1	59,89
28.36	17,9	0,64	5,26	3,6	0,0	27,969	3,575	2,701	16,3	6,0	59,82
28.37	17,9	0,64	5,25	3,6	0,0	27,969	3,575	2,702	16,3	6,0	59,47
28.38	17,7	0,64	5,30	3,6	0,0	27,656	3,616	2,703	16,1	6,2	60,43
28.39	17,6	0,64	5,36	3,6	0,0	27,5	3,636	2,704	16,0	6,2	60,57
28.40	17,6	0,63	5,40	3,6	0,0	27,937	3,58	2,705	16,0	6,1	60,43
28.41	17,7	0,61	5,41	3,6	0,0	29,016	3,446	2,706	16,1	5,9	59,34
28.42	17,7	0,61	5,41	3,6	0,0	29,016	3,446	2,707	16,1	5,9	59,35

(Biopg s.s. di Cascine Luigi-Ampiamonte impianto zootecnico-Zerbinato di Bordone FE) 129

28.43	17,7	0,6	5,39	3,6	0,0	29,5	3,39	2,708	16,2	5,7	58,7
28.44	17,7	0,6	5,41	3,6	0,0	29,5	3,39	2,709	16,2	5,7	58,77
28.45	17,7	0,61	5,44	3,6	0,0	29,016	3,446	2,71	16,1	5,9	59,38
28.46	17,6	0,62	5,39	3,6	0,0	28,387	3,523	2,711	16,0	6,0	60,08
28.47	17,7	0,62	5,33	3,6	0,0	28,548	3,503	2,712	16,1	5,9	59,9
28.48	17,7	0,62	5,31	3,6	0,0	28,548	3,503	2,713	16,1	6,0	59,78
28.49	17,6	0,63	5,30	3,6	0,0	27,937	3,58	2,714	16,0	6,1	60,37
28.50	17,4	0,63	5,32	3,6	0,0	27,619	3,621	2,715	15,8	6,2	60,94
28.51	17,5	0,62	5,31	3,6	0,0	28,226	3,543	2,716	15,9	6,1	60,44
28.52	17,5	0,63	5,31	3,6	0,0	27,778	3,6	2,717	15,9	6,2	60,6
28.53	17,3	0,64	5,34	3,6	0,0	27,031	3,699	2,718	15,7	6,4	61,56
28.54	17,1	0,65	5,30	3,6	0,0	26,308	3,801	2,719	15,5	6,6	62,66
28.55	17,1	0,65	5,30	3,6	0,0	26,308	3,801	2,72	15,5	6,6	62,67
28.56	17,1	0,63	5,14	3,6	0,0	27,143	3,684	2,721	15,5	6,4	62,08
28.57	17,0	0,63	5,11	3,6	0,0	26,984	3,706	2,722	15,4	6,5	62,3
28.58	17,0	0,63	5,12	3,6	0,0	26,984	3,706	2,723	15,4	6,5	62,32
28.59	17,1	0,63	5,11	3,6	0,0	27,143	3,684	2,724	15,5	6,4	61,98
28.60	17,1	0,64	5,10	3,6	0,0	26,719	3,743	2,725	15,5	6,5	62,33
28.61	17,1	0,66	5,09	3,6	0,0	25,909	3,86	2,726	15,5	6,7	62,9
28.62	17,2	0,67	5,11	3,6	0,0	25,672	3,895	2,727	15,6	6,8	62,94
28.63	17,1	0,68	5,18	3,6	0,0	25,147	3,977	2,728	15,5	7,0	63,66
28.64	17,0	0,7	5,34	3,6	0,0	24,286	4,118	2,729	15,4	7,3	64,69
28.65	17,1	0,7	5,37	3,6	0,0	24,429	4,094	2,73	15,5	7,2	64,4
28.66	17,4	0,71	5,40	3,6	0,0	24,507	4,08	2,731	15,8	7,1	63,57
28.67	17,7	0,71	5,47	3,6	0,0	24,931	4,01	2,732	16,2	6,8	62,06
28.68	17,9	0,71	5,45	3,6	0,0	25,211	3,966	2,733	16,3	6,7	61,48
28.69	18,1	0,71	5,41	3,6	0,0	25,493	3,923	2,734	16,5	6,6	61,01
28.70	18,3	0,72	5,39	3,6	0,0	25,417	3,934	2,735	16,7	6,5	60,64
28.71	18,7	0,72	5,35	3,6	0,0	25,972	3,85	2,736	17,1	6,3	59,28
28.72	18,7	0,72	5,29	3,6	0,0	25,972	3,85	2,737	17,1	6,3	59,44
28.73	18,7	0,72	5,21	3,6	0,0	25,972	3,85	2,738	17,1	6,3	59,49
28.74	18,7	0,73	5,12	3,6	0,0	25,616	3,904	2,739	17,1	6,4	59,56
28.75	18,9	0,71	5,02	3,6	0,0	26,662	3,757	2,74	17,3	6,2	58,67
28.76	19,2	0,71	4,81	3,6	0,0	27,042	3,698	2,741	17,6	6,0	57,63
28.77	19,1	0,71	4,75	3,6	0,0	26,901	3,717	2,742	17,5	6,0	57,99
28.78	19,0	0,72	4,75	3,6	0,0	26,389	3,789	2,743	17,4	6,1	58,44
28.79	19,1	0,72	4,73	3,6	0,0	26,528	3,77	2,744	17,5	6,1	58,3
28.80	19,1	0,72	4,70	3,6	0,0	26,528	3,77	2,745	17,5	6,1	58,23
28.81	19,2	0,72	4,68	3,6	0,0	26,667	3,75	2,746	17,6	6,0	57,94
28.82	19,3	0,72	4,65	3,6	0,0	26,806	3,731	2,747	17,7	6,0	57,66
28.83	19,3	0,72	4,64	3,6	0,0	26,806	3,731	2,748	17,7	6,0	57,66
28.84	19,2	0,74	4,59	3,6	0,0	25,946	3,854	2,749	17,6	6,2	58,46
28.85	19,2	0,74	4,55	3,6	0,0	25,946	3,854	2,75	17,6	6,2	58,64
28.86	19,1	0,76	4,53	3,6	0,0	25,132	3,979	2,751	17,5	6,5	59,66
28.87	18,9	0,8	4,51	3,6	0,0	23,625	4,233	2,752	17,3	6,9	60,97
28.88	19,0	0,82	4,51	3,6	0,0	23,171	4,316	2,753	17,4	7,0	61,1
28.89	19,0	0,83	4,52	3,6	0,0	22,892	4,368	2,754	17,4	7,1	61,45
28.90	19,2	0,84	4,51	3,6	0,0	22,857	4,375	2,755	17,6	7,1	61,06
28.91	19,2	0,85	4,53	3,6	0,0	22,857	4,375	2,756	17,6	7,1	61,23
28.92	19,2	0,86	4,63	3,6	0,0	22,326	4,479	2,757	17,6	7,2	61,57
28.93	19,2	0,86	4,67	3,6	0,0	22,326	4,479	2,758	17,6	7,3	61,63
28.94	19,4	0,86	4,74	3,6	0,0	22,558	4,433	2,759	17,8	7,1	61,04
28.95	19,6	0,85	4,77	3,6	0,0	22,059	4,337	2,76	18,0	7,0	60,23
28.96	20,4	0,82	4,80	3,6	0,0	24,878	4,02	2,761	18,8	6,3	57,33
28.97	20,6	0,86	4,83	3,6	0,0	24,878	4,02	2,762	18,8	6,3	57,47
28.98	20,9	0,8	4,86	3,6	0,0	26,125	3,828	2,763	19,3	5,9	55,63
28.99	21,2	0,79	4,88	3,6	0,0	26,835	3,726	2,764	19,6	5,8	54,74
29.00	21,2	0,79	4,88	3,6	0,0	26,835	3,726	2,765	19,6	5,8	54,75
29.01	21,2	0,79	4,88	3,6	0,0	26,835	3,726	2,766	19,6	5,8	54,75
29.02	21,6	0,76	5,33	3,6	0,0	28,421	3,519	2,767	20,0	5,4	53,08
29.03	21,6	0,76	5,39	3,6	0,0	28,421	3,519	2,768	20,0	5,4	53,12
29.04	21,5	0,75	5,35	3,6	0,0	28,667	3,488	2,769	19,9	5,3	53,06
29.05	21,8	0,73	5,27	3,6	0,0	29,863	3,349	2,77	20,2	5,1	51,93
29.06	21,9	0,72	5,10	3,6	0,0	30,417	3,288	2,771	20,3	5,0	51,46
29.07	22,1	0,73	5,00	3,6	0,0	30,274	3,303	2,772	20,5	5,0	51,19
29.08	22,0	0,79	5,02	3,6	0,0	27,848	3,591	2,773	20,4	5,4	52,82
29.09	21,8	0,83	5,07	3,6	0,0	28,307	3,487	2,774	20,2	5,3	54,3
29.10	22,0	0,86	5,11	3,6	0,0	25,581	3,909	2,775	20,4	5,9	54,43
29.11	22,4	0,88	5,04	3,6	0,0	25,455	3,929	2,776	20,8	5,9	53,94
29.12	22,4	0,88	5,04	3,6	0,0	25,455	3,929	2,777	20,8	5,9	53,94

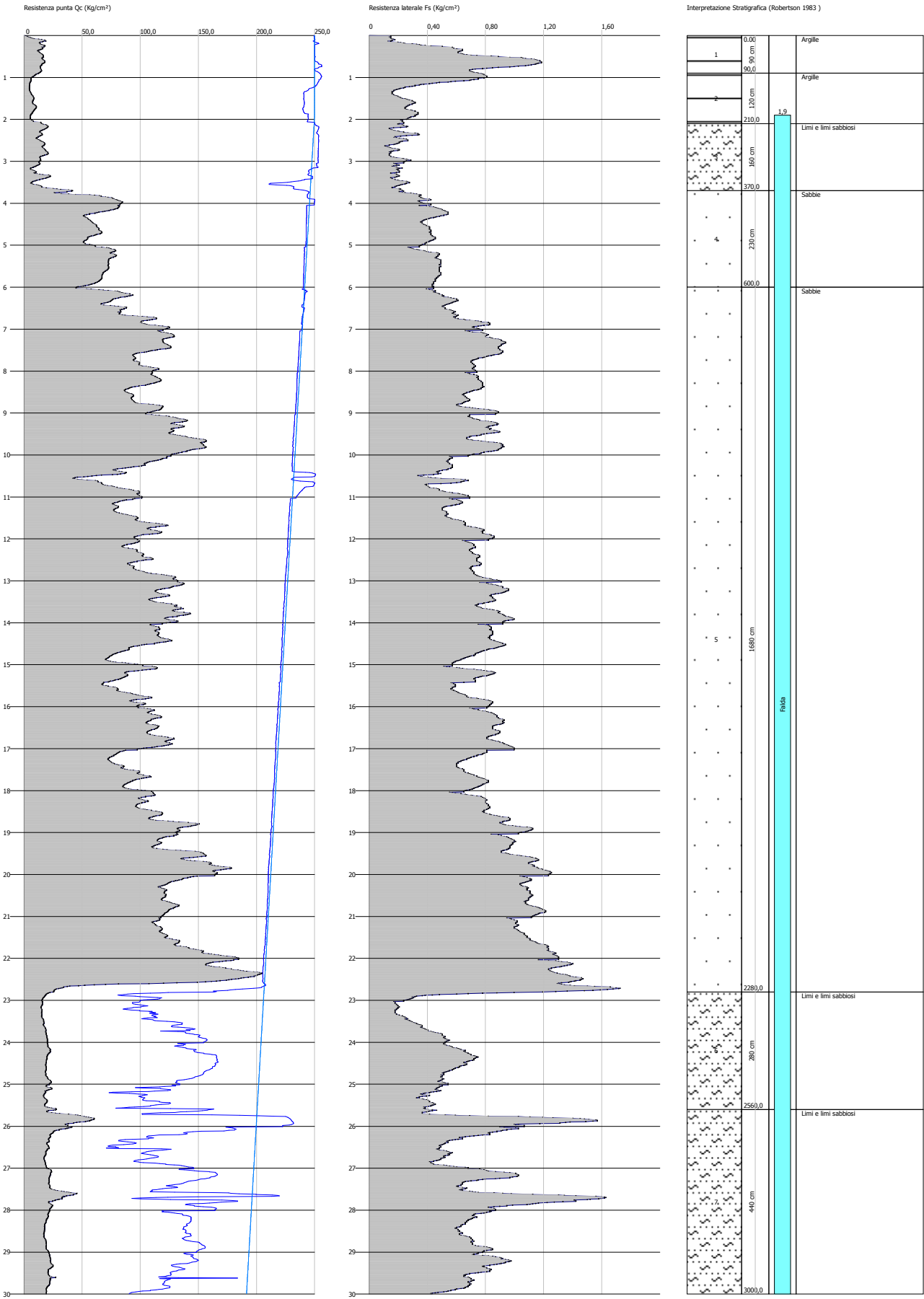
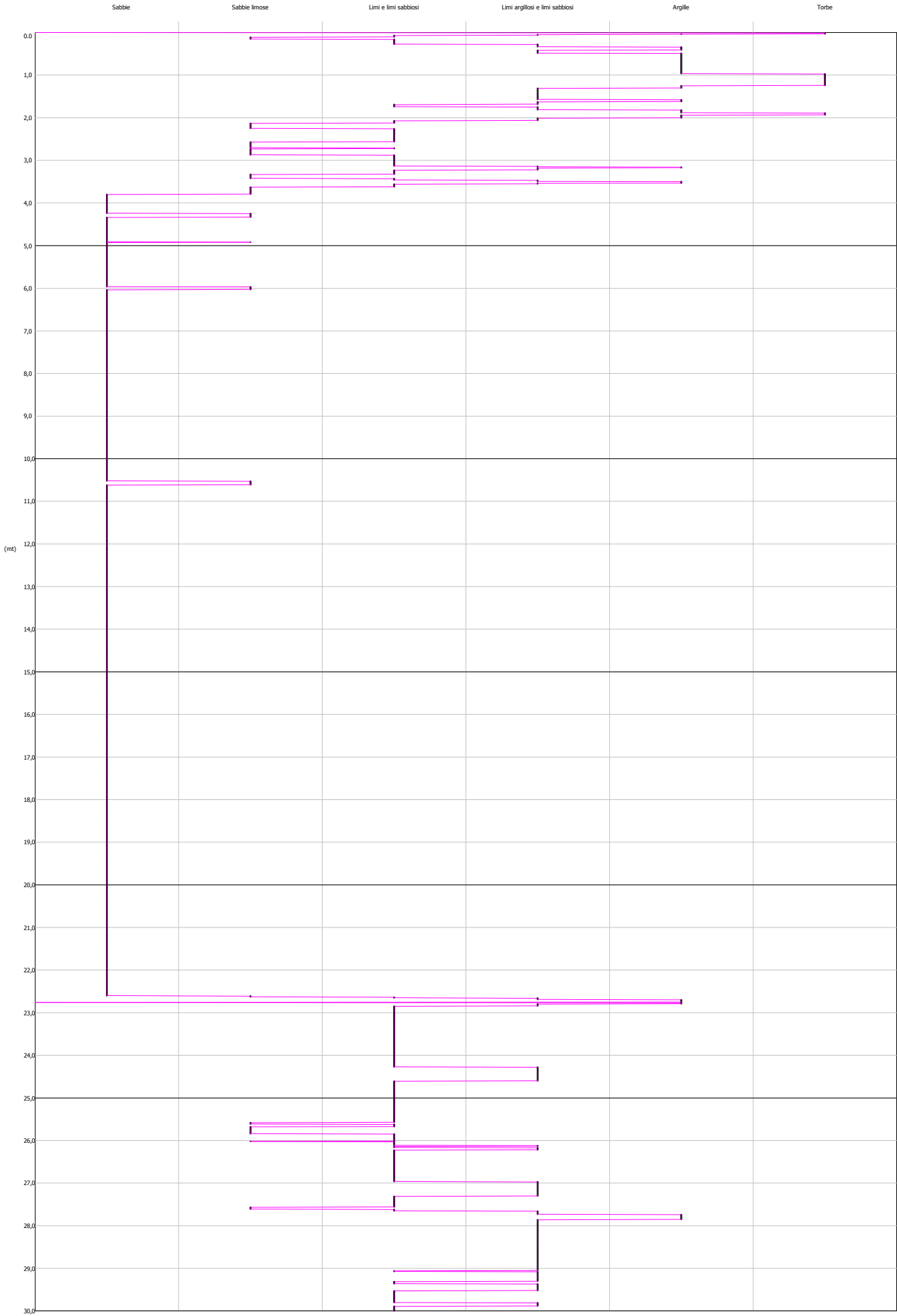


GRAFICO PROFONDITA' / VALUTAZIONI LITOLOGICHE (Robertson 1983)
PROVA: CPTU 4



STIMA PARAMETRI GEOTECNICI - CPTU 4

TERRENI COESIV I

Coesione non drenata

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Cu (Kg/cm²)
Strato 1	0,90	14,3	0,67	0,09	0,09	Terzaghi	0,72
Strato 2	2,10	7,3	0,35	0,28	0,27	Terzaghi	0,37
Strato 3	3,70	15,2	0,2	0,54	0,39	Terzaghi	0,76
Strato 6	25,60	18,8	0,46	5,24	2,96	Terzaghi	0,94
Strato 7	30,00	23,8	0,78	5,95	3,3	Terzaghi	1,19

Modulo Edometrico

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Eed (Kg/cm²)
Strato 1	0,90	14,3	0,67	0,09	0,09	Metodo generale del modulo Edometrico	48,4
Strato 2	2,10	7,3	0,35	0,28	0,27	Metodo generale del modulo Edometrico	36,23
Strato 3	3,70	15,2	0,2	0,54	0,39	Metodo generale del modulo Edometrico	48,36
Strato 6	25,60	18,8	0,46	5,24	2,96	Metodo generale del modulo Edometrico	44,55
Strato 7	30,00	23,8	0,78	5,95	3,3	Metodo generale del modulo Edometrico	47,6

Modulo di deformazione non drenato Eu

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Eu (Kg/cm²)
Strato 1	0,90	14,3	0,7	0,09	0,09	Cancelli 1980	532,99
Strato 2	2,10	7,3	0,4	0,28	0,27	Cancelli 1980	263,77
Strato 3	3,70	15,2	0,2	0,54	0,39	Cancelli 1980	555,51
Strato 6	25,60	18,8	0,5	5,24	2,96	Cancelli 1980	594,06
Strato 7	30,00	23,8	0,8	5,95	3,3	Cancelli 1980	768,67

Modulo di deformazione a taglio

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica	Tensione litostatica	Correlazione	Modulo di deformazion
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				totale (Kg/cm²)	efficace (Kg/cm²)		e a taglio (Kg/cm²)
Strato 1	0,90	14,3	0,67	0,09	0,09	Imai & Tomauchi	142,26
Strato 2	2,10	7,3	0,35	0,28	0,27	Imai & Tomauchi	94,33
Strato 3	3,70	15,2	0,2	0,54	0,39	Imai & Tomauchi	147,66
Strato 6	25,60	18,8	0,46	5,24	2,96	Imai & Tomauchi	168,14
Strato 7	30,00	23,8	0,78	5,95	3,3	Imai & Tomauchi	194,2

Grado di sovraconsolidazione

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Ocr
Strato 1	0,90	14,3	0,67	0,09	0,09	P.W.Mayne 1991	6,65
Strato 2	2,10	7,3	0,35	0,28	0,27	P.W.Mayne 1991	3,3
Strato 3	3,70	15,2	0,2	0,54	0,39	P.W.Mayne 1991	9
Strato 6	25,60	18,8	0,46	5,24	2,96	P.W.Mayne 1991	9
Strato 7	30,00	23,8	0,78	5,95	3,3	P.W.Mayne 1991	9

Peso unità di volume

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Peso unità di volume (t/m³)
Strato 1	0,90	14,3	0,67	0,09	0,09	Meyerhof	1,92
Strato 2	2,10	7,3	0,35	0,28	0,27	Meyerhof	1,8
Strato 3	3,70	15,2	0,2	0,54	0,39	Meyerhof	1,92
Strato 6	25,60	18,8	0,46	5,24	2,96	Meyerhof	1,93
Strato 7	30,00	23,8	0,78	5,95	3,3	Meyerhof	1,98

Fattori di compressibilità C Crm

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	C	Crm
Strato 1	0,90	14,3	0,67	0,09	0,09	0,16001	0,0208
Strato 2	2,10	7,3	0,35	0,28	0,27	0,24919	0,03239
Strato 3	3,70	15,2	0,2	0,54	0,39	0,1545	0,02009
Strato 6	25,60	18,8	0,46	5,24	2,96	0,13774	0,01791
Strato 7	30,00	23,8	0,78	5,95	3,3	0,12288	0,01597

Peso unità di volume saturo

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Peso unità di volume saturo (t/m³)
Strato 1	0,90	14,3	0,67	0,09	0,09	Meyerhof	2,0
Strato 2	2,10	7,3	0,35	0,28	0,27	Meyerhof	1,88
Strato 3	3,70	15,2	0,2	0,54	0,39	Meyerhof	2,0

Strato 6	25,60	18,8	0,46	5,24	2,96	Meyerhof	2,01
Strato 7	30,00	23,8	0,78	5,95	3,3	Meyerhof	2,06

Velocità onde di taglio

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Vs (m/s)
Strato 1	0,90	14,3	0,67	0,09	0,09	Jamiolkowski et al 1985	225,90
Strato 2	2,10	7,3	0,35	0,28	0,27	Jamiolkowski et al 1985	197,61
Strato 3	3,70	15,2	0,2	0,54	0,39	Jamiolkowski et al 1985	228,66
Strato 6	25,60	18,8	0,46	5,24	2,96	Jamiolkowski et al 1985	238,54
Strato 7	30,00	23,8	0,78	5,95	3,3	Jamiolkowski et al 1985	250,00

TERRENI INCOERENT I

Densità relativa

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Densità relativa (%)
Strato 3	3,70	15,2	0,2	0,54	0,39	Baldi 1978 - Schmertman n 1976	25,86
Strato 4	6,00	65,6	0,43	0,94	0,59	Baldi 1978 - Schmertman n 1976	61,32
Strato 5	22,80	111,4	0,85	3,08	1,78	Baldi 1978 - Schmertman n 1976	60,78
Strato 6	25,60	18,8	0,46	5,24	2,96	Baldi 1978 - Schmertman n 1976	5,0
Strato 7	30,00	23,8	0,78	5,95	3,3	Baldi 1978 - Schmertman n 1976	8,11

Angolo di resistenza al taglio

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Angolo d'attrito (°)
Strato 3	3,70	15,2	0,2	0,54	0,39	Caquot	28,02
Strato 4	6,00	65,6	0,43	0,94	0,59	Caquot	33,14
Strato 5	22,80	111,4	0,85	3,08	1,78	Caquot	30,32
Strato 6	25,60	18,8	0,46	5,24	2,96	Caquot	18,97
Strato 7	30,00	23,8	0,78	5,95	3,3	Caquot	19,6

Modulo di Young

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Modulo di Young (Kg/cm²)
Strato 3	3,70	15,2	0,2	0,54	0,39	Robertson & Campanella	30,4

Strato 4	6,00	65,6	0,43	0,94	0,59	1983 Robertson & Campanella	131,2
Strato 5	22,80	111,4	0,85	3,08	1,78	1983 Robertson & Campanella	222,8
Strato 6	25,60	18,8	0,46	5,24	2,96	1983 Robertson & Campanella	37,6
Strato 7	30,00	23,8	0,78	5,95	3,3	1983 Robertson & Campanella	47,6

Modulo Edometrico

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Modulo Edometrico (Kg/cm²)
Strato 3	3,70	15,2	0,2	0,54	0,39	Robertson & Campanella da Schmertmann	26,61
Strato 4	6,00	65,6	0,43	0,94	0,59	Robertson & Campanella da Schmertmann	63,7
Strato 5	22,80	111,4	0,85	3,08	1,78	Robertson & Campanella da Schmertmann	70,93
Strato 6	25,60	18,8	0,46	5,24	2,96	Robertson & Campanella da Schmertmann	39,13
Strato 7	30,00	23,8	0,78	5,95	3,3	Robertson & Campanella da Schmertmann	43,3

Modulo di deformazione a taglio

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	G (Kg/cm²)
Strato 3	3,70	15,2	0,2	0,54	0,39	Imai & Tomauchi	147,66
Strato 4	6,00	65,6	0,43	0,94	0,59	Imai & Tomauchi	360,82
Strato 5	22,80	111,4	0,85	3,08	1,78	Imai & Tomauchi	498,66
Strato 6	25,60	18,8	0,46	5,24	2,96	Imai & Tomauchi	168,14
Strato 7	30,00	23,8	0,78	5,95	3,3	Imai & Tomauchi	194,2

Grado di sovraconsolidazione

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Ocr
Strato 3	3,70	15,2	0,2	0,54	0,39	Piacentini Righi 1978	6,49
Strato 4	6,00	65,6	0,43	0,94	0,59	Piacentini	>9

Strato 5	22,80	111,4	0,85	3,08	1,78	Righi 1978 Piacentini	8,74
Strato 6	25,60	18,8	0,46	5,24	2,96	Righi 1978 Piacentini	1,41
Strato 7	30,00	23,8	0,78	5,95	3,3	Righi 1978 Piacentini	1,98

Modulo di reazione Ko

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Ko
Strato 3	3,70	15,2	0,2	0,54	0,39	Kulhawy & Mayne (1990)	0,33
Strato 4	6,00	65,6	0,43	0,94	0,59	Kulhawy & Mayne (1990)	0,65
Strato 5	22,80	111,4	0,85	3,08	1,78	Kulhawy & Mayne (1990)	0,45
Strato 6	25,60	18,8	0,46	5,24	2,96	Kulhawy & Mayne (1990)	0,00
Strato 7	30,00	23,8	0,78	5,95	3,3	Kulhawy & Mayne (1990)	0,00

Fattori di compressibilità C Crm

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	C	Crm
Strato 3	3,70	15,2	0,2	0,54	0,39	0,1545	0,02009
Strato 4	6,00	65,6	0,43	0,94	0,59	0,09987	0,01298
Strato 5	22,80	111,4	0,85	3,08	1,78	0,09396	0,01221
Strato 6	25,60	18,8	0,46	5,24	2,96	0,13774	0,01791
Strato 7	30,00	23,8	0,78	5,95	3,3	0,12288	0,01597

Peso unità di volume

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Peso unità di volume (t/m³)
Strato 3	3,70	15,2	0,2	0,54	0,39	Meyerhof	1,9
Strato 4	6,00	65,6	0,43	0,94	0,59	Meyerhof	1,9
Strato 5	22,80	111,4	0,85	3,08	1,78	Meyerhof	1,9
Strato 6	25,60	18,8	0,46	5,24	2,96	Meyerhof	1,8
Strato 7	30,00	23,8	0,78	5,95	3,3	Meyerhof	1,8

Peso unità di volume saturo

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Peso unità di volume saturo (t/m³)
Strato 3	3,70	15,2	0,2	0,54	0,39	Meyerhof	2,2
Strato 4	6,00	65,6	0,43	0,94	0,59	Meyerhof	2,2
Strato 5	22,80	111,4	0,85	3,08	1,78	Meyerhof	2,2

Strato 6	25,60	18,8	0,46	5,24	2,96	Meyerhof	2,1
Strato 7	30,00	23,8	0,78	5,95	3,3	Meyerhof	2,1

Liquefazione - Accelerazione sismica massima (g)=0,2

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Fattore di sicurezza a liquefazione
Strato 3	3,70	15,2	0,2	0,54	0,39	Robertson & Wride 1997	0,619
Strato 4	6,00	65,6	0,43	0,94	0,59	Robertson & Wride 1997	2,513
Strato 5	22,80	111,4	0,85	3,08	1,78	Robertson & Wride 1997	11,858
Strato 6	25,60	18,8	0,46	5,24	2,96	Robertson & Wride 1997	0,519
Strato 7	30,00	23,8	0,78	5,95	3,3	Robertson & Wride 1997	0,602

Velocità onde di taglio.

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Vs (m/s)
Strato 3	3,70	15,2	0,2	0,54	0,39	Jamiolkowsk i et al 1985	264,70
Strato 4	6,00	65,6	0,43	0,94	0,59	Jamiolkowsk i et al 1985	373,25
Strato 5	22,80	111,4	0,85	3,08	1,78	Jamiolkowsk i et al 1985	422,71
Strato 6	25,60	18,8	0,46	5,24	2,96	Jamiolkowsk i et al 1985	278,26
Strato 7	30,00	23,8	0,78	5,95	3,3	Jamiolkowsk i et al 1985	294,12

Permeabilità

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	K (cm/s)
Strato 1	0,90	14,3	0,67	0,09	0,09	Piacentini- Righi 1988	5,75E-09
Strato 2	2,10	7,3	0,35	0,28	0,27	Piacentini- Righi 1988	6,41E-09
Strato 3	3,70	15,2	0,2	0,54	0,39	Piacentini- Righi 1988	6,65E-03
Strato 4	6,00	65,6	0,43	0,94	0,59	Piacentini- Righi 1988	1,00E-03
Strato 5	22,80	111,4	0,85	3,08	1,78	Piacentini- Righi 1988	1,00E-03
Strato 6	25,60	18,8	0,46	5,24	2,96	Piacentini- Righi 1988	7,83E-05
Strato 7	30,00	23,8	0,78	5,95	3,3	Piacentini- Righi 1988	2,24E-06

Coefficiente di consolidazione							
	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Coefficiente di consolidazio ne (cm²/s)
	Strato 1	0,90	14,3	0,67	0,09	0,09	Piacentini- Righi 1988
	Strato 2	2,10	7,3	0,35	0,28	0,27	Piacentini- Righi 1988
	Strato 3	3,70	15,2	0,2	0,54	0,39	Piacentini- Righi 1988
	Strato 4	6,00	65,6	0,43	0,94	0,59	Piacentini- Righi 1988
	Strato 5	22,80	111,4	0,85	3,08	1,78	Piacentini- Righi 1988
	Strato 6	25,60	18,8	0,46	5,24	2,96	Piacentini- Righi 1988
	Strato 7	30,00	23,8	0,78	5,95	3,3	Piacentini- Righi 1988

PROVA CPTU 5											
Committente: Biopig s.s. di Cascone Luigi											
Strumento utilizzato: PAGANI 200 kN (CPTU)											
Prova eseguita in data: 16/10/2020											
Profondità prova: 15,00 mt											
Località: Zerbinate di Bondeno FE)											
RESISTENZE											
Profondità	qc	fs	U2	Tilt	Temp	qc/fs	Fr	Uo	qcn	fsn	FC%
qc	Resistenza punta (Kg/cm²);										
fs	Resistenza laterale (Kg/cm²);										
Tilt	Inclinazione (°)										
Temp	Temperatura (°)										
Fr	fs/qcx100 (Schmertmann)										
qcn	qc normalizzata (Kg/cm²);										
fsn	fs normalizzato (Kg/cm²);										
U2	Pressione neutrale intorno al cono (Kg/cm²);										
Fc	Pressione neutrale rilevata (Kg/cm²);										
Fc	Contenuto in materiale fine(%)										

0.01	1.9	0.05	0.00	0.0	0.0	28.10	2.632	0.0	0.9	2.8	141.45
0.02	2.4	0.1	0.00	0.5	0.0	24.0	4.167	0.0	1.4	4.1	131.51
0.03	2.4	0.12	0.00	0.5	0.0	20.0	5.0	0.0	1.4	4.9	135.87
0.04	3.4	0.14	0.00	0.4	0.0	24.286	4.118	0.0	2.4	4.2	107.89
0.05	4.1	0.13	0.00	0.4	0.0	31.538	3.171	0.0	3.1	3.2	93.76
0.06	4.2	0.13	0.00	0.4	0.0	32.308	3.095	0.0	3.2	3.0	91.14
0.07	4.7	0.13	0.00	0.4	0.0	36.154	2.766	0.0	3.7	2.8	84.77
0.08	7.1	0.13	0.01	0.4	0.0	54.615	1.831	0.0	6.1	1.8	62.92
0.09	9.2	0.13	0.01	0.3	0.0	70.769	1.413	0.0	8.2	1.4	51.52
0.10	14.6	0.13	0.00	0.5	0.0	112.308	0.89	0.0	13.6	0.9	35.84
0.11	16.3	0.12	0.00	0.5	0.0	135.833	0.736	0.0	15.3	0.8	32.33
0.12	17.1	0.11	0.00	0.4	0.0	155.455	0.643	0.0	16.1	0.7	30.13
0.13	17.0	0.11	0.00	0.4	0.0	154.545	0.647	0.0	16.0	0.7	30.3
0.14	16.7	0.12	0.00	0.4	0.0	139.167	0.719	0.0	15.7	0.7	31.67
0.15	16.2	0.13	0.04	0.4	0.0	124.615	0.802	0.0	15.2	0.8	33.32
0.16	16.0	0.13	0.01	0.4	0.0	123.077	0.813	0.0	15.0	0.8	33.42
0.17	15.5	0.13	-0.01	0.4	0.0	119.231	0.839	0.0	14.5	0.8	34.28
0.18	15.2	0.12	0.01	0.5	0.0	126.667	0.789	0.0	14.2	0.8	34.32
0.19	14.9	0.13	0.00	0.5	0.0	114.615	0.872	0.0	13.9	0.9	35.73
0.20	14.4	0.16	0.02	0.5	0.0	90.0	1.111	0.0	13.4	1.1	38.3
0.21	13.3	0.22	-0.02	0.5	0.0	60.455	1.654	0.0	12.3	1.7	44.93
0.22	12.3	0.26	-0.01	0.5	0.0	47.308	2.114	0.0	11.3	2.1	50.24
0.23	10.7	0.26	0.00	0.5	0.0	41.154	2.43	0.0	9.7	2.5	55.92
0.24	9.7	0.27	0.00	0.5	0.0	35.926	2.784	0.0	8.7	2.8	60.3
0.25	9.2	0.27	0.00	0.5	0.0	34.074	2.935	0.0	8.2	2.9	62.69
0.26	8.4	0.27	0.00	0.5	0.0	31.111	3.214	0.0	7.4	3.2	66.92
0.27	7.4	0.26	0.00	0.5	0.0	28.462	3.514	0.0	6.4	3.6	73.22
0.28	7.4	0.26	0.00	0.5	0.0	28.462	3.514	0.0	6.4	3.6	73.22
0.29	7.9	0.26	0.00	0.5	0.0	30.385	3.291	0.0	6.9	3.3	69.12
0.30	7.6	0.25	0.00	0.5	0.0	30.4	3.289	0.0	6.3	3.3	70.46
0.31	7.2	0.24	0.00	0.5	0.0	30.0	3.333	0.0	6.2	3.4	72.9
0.32	6.6	0.22	0.00	0.5	0.0	30.0	3.333	0.0	5.6	3.3	75.62
0.33	6.4	0.21	0.00	0.5	0.0	30.476	3.281	0.0	5.4	3.4	76.85
0.34	4.5	0.2	-0.01	0.6	0.0	22.5	4.444	0.0	3.5	4.5	96.3
0.35	3.4	0.18	0.00	0.5	0.0	16.304	6.133	0.0	2.4	5.4	114.11
0.36	3.2	0.17	0.00	0.5	0.0	18.889	5.294	0.0	2.4	5.4	114.11
0.37	3.6	0.15	0.00	0.5	0.0	18.824	5.313	0.0	2.3	5.3	116.62
0.38	3.3	0.13	0.00	0.5	0.0	20.4	4.167	0.0	2.6	4.3	105.5
0.39	3.5	0.12	0.00	0.5	0.0	25.385	3.939	0.0	2.3	3.9	107.7
0.40	3.1	0.1	-0.01	0.4	0.0	29.167	3.429	0.0	2.5	3.4	102.19
0.41	3.1	0.1	-0.01	0.4	0.0	31.0	3.226	0.0	2.1	3.4	108.09
0.42	3.4	0.1	0.00	0.4	0.0	30.0	3.333	0.0	2.0	3.3	109.28
						34.0	2.941	0.0	2.4	2.9	100.1

1.13	10.8	0.85	-0.03	0.4	0.0	12.706	7.87	0.0	9.8	8.0	78.16
1.14	10.6	0.84	-0.02	0.4	0.0	12.619	7.925	0.0	9.6	8.1	78.93
1.15	10.4	0.83	-0.01	0.5	0.0	12.53	7.981	0.0	9.4	8.2	79.66
1.16	10.2	0.82	0.00	0.5	0.0	12.439	8.039	0.0	9.2	8.2	80.46
1.17	10.0	0.81	0.05	0.5	0.0	12.346	8.1	0.0	9.0	8.3	81.26
1.18	9.6	0.78	0.19	0.5	0.0	12.308	8.125	0.0	8.6	8.3	82.39
1.19	9.6	0.75	0.20	0.4	0.0	12.8	7.813	0.0	8.6	8.0	81.59
1.20	9.2	0.69	0.19	0.5	0.0	13.333	7.5	0.0	8.2	7.7	82.08
1.21	8.9	0.67	-0.06	0.5	0.0	13.284	7.528	0.0	7.9	7.7	83.2
1.22	8.4	0.65	0.06	0.5	0.0	12.923	7.738	0.0	7.4	7.9	85.4
1.23	8.2	0.62	0.10	0.4	0.0	13.226	7.561	0.0	7.2	7.7	85.73
1.24	8.0	0.57	0.14	0.5	0.0	14.035	7.125	0.0	7.0	7.3	85.07
1.25	7.8	0.54	0.14	0.5	0.0	14.444	6.923	0.0	6.8	7.1	85.5
1.26	7.7	0.52	0.14	0.4	0.0	14.808	6.753	0.0	6.7	6.9	85.31
1.27	7.5	0.48	0.15	0.4	0.0	15.625	6.4	0.0	6.5	6.6	85.48
1.28	7.5	0.46	0.15	0.4	0.0	16.304	6.133	0.0	6.5	6.3	84.56
1.29	7.5	0.46	0.15	0.4	0.0	16.304	6.133	0.0	6.5	6.3	84.56
1.30	7.3	0.43	0.17	0.4	0.0	16.977	5.89	0.0	6.3	6.1	84.49
1.31	7.5	0.4	0.19	0.4	0.0	18.75	5.333	0.0	6.5	5.5	81.46
1.32	7.7	0.38	0.20	0.3	0.0	20.263	4.935	0.0	6.7	5.1	78.45
1.33	8.2	0.37	0.21	0.4	0.0	22.162	4.512	0.0	7.2	4.7	74.73
1.34	9.9	0.36	0.24	0.36	0.0	27.5	3.636	0.0	8.9	3.7	64.84
1.35	10.7	0.35	0.24	0.4	0.0	30.571	3.271	0.0	9.7	3.4	61.02
1.36	11.5	0.34	0.22	0.4	0.0	33.824	2.957	0.0	10.5	3.1	57.5
1.37	12.2	0.34	0.18	0.4	0.0	35.882	2.787	0.0	11.2	2.8	54.77
1.38	12.5	0.34	-0.22	0.3	0.0	36.765	2.72	0.0	11.5	2.8	53.68
1.39	12.5	0.33	-0.21	0.4	0.0	37.879	2.64	0.0	11.5	2.8	53.67
1.40	12.4	0.33	-0.21	0.3	0.0	37.576	2.661	0.0	11.4	2.8	53.95
1.41	11.3	0.34	-0.20	0.3	0.0	33.235	3.009	0.001	10.3	3.3	57.98
1.42	10.7	0.34	-0.19	0.3	0.0	31.471	3.178	0.002	9.7	3.3	60.7
1.43	10.0	0.35	-0.19	0.3	0.0	28.571	3.5	0.003	9.0	3.6	64.16
1.44	9.2	0.36	-0.18	0.3	0.0	25.556	3.913	0.004	8.2	4.0	68.42
1.45	7.8	0.37	-0.18	0.3	0.0	21.081	4.744	0.005	6.8	4.9	77.3
1.46	7.3	0.37	-0.18	0.3	0.0	19.73	5.088	0.006	6.2	5.3	81.71
1.47	7.0	0.37	-0.17	0.3	0.0	18.919	5.286	0.007	5.9	5.5	84.07
1.48	6.9	0.36	-0.17	0.3	0.0	19.167	5.217	0.008	5.8	5.5	84.53
1.49	6.1	0.32	-0.15	0.3	0.0	19.063	5.246	0.009	5.0	5.4	88.66
1.50	5.9	0.3	-0.09	0.3	0.0	19.667	5.085	0.01	4.8	5.4	89.78
1.51	6.0	0.29	-0.04	0.3	0.0	20.69	4.833	0.011	4.9	5.1	87.88
1.52	5.5	0.26	0.29	0.3	0.0	21.154	4.727	0.012	4.4	4.9	90.46
1.53	5.6	0.24	0.49	0.3	0.0	23.333	4.286	0.013	4.5	4.6	88.27
1.54	5.6	0.24	0.65	0.3	0.0	23.333	4.286	0.014	4.5	4.4	87.63
1.55	5.6	0.23	0.84	0.3	0.0	24.348	4.107	0.015	4.5	4.3	87.08
1.56	5.6	0.21	1.09	0.3	0.0	26.667	3.75	0.016	4.5	4.0	85.24
1.57	5.7	0.2	1.20	0.3	0.0	28.5	3.509	0.017	4.6	3.6	82.94
1.58	5.7	0.18	1.22	0.3	0.0	31.667	3.158	0.018	4.6	3.4	81.81
1.59	6.0	0.17	1.22	0.3	0.0	35.294	2.833	0.019	4.9	2.9	74.08
1.60	6.0	0.16	1.22	0.3	0.0	37.5	2.667	0.02	4.9	2.9	76.61
1.61	6.2	0.16	1.22	0.3	0.0	38.75	2.581	0.021	5.1	2.8	75
1.62	6.2	0.17	1.22	0.3	0.0	36.471	2.742	0.022	5.1	2.8	75.14
1.63	6.5	0.15	1.21	0.3	0.0	43.333	2.309	0.023	5.4	2.4	70.93
1.64	6.8	0.14	1.20	0.3	0.0	48.571	2.059	0.024	5.7	2.2	68.2
1.65	7.0	0.14	1.19	0.3	0.0	50.0	2.0	0.025	5.9	2.2	66.61
1.66	7.3	0.14	1.21	0.3	0.0	52.143	1.918	0.026	6.2	2.0	64.47
1.67	7.4	0.15	1.21	0.3	0.0	49.333	2.027	0.027	6.3	2.1	64.34
1.68	7.5	0.15	1.22	0.3	0.0	50.0	2.0	0.028	6.4	2.1	64.13
1.69	7.7	0.15	1.22	0.3	0.0	51.333	1.949	0.029	6.6	2.1	63.55
1.70	8.2	0.16	1.18	0.3	0.0	51.25	1.951	0.03	7.1	2.1	60.71
1.71	8.2	0.17	1.01	0.2	0.0	48.235	2.073	0.031	7.1	2.2	61.41
1.72	8.4	0.18	1.03	0.3	0.0	46.667	2.143	0.032	7.3	2.2	61.32
1.73	8.1	0.19	0.81	0.2	0.0	42.632	2.346	0.033	7.4	2.4	63.6
1.74	8.2	0.2	0.81	0.3	0.0	41.0	2.439	0.034	7.1	2.5	63.86
1.75	8.0	0.21	0.84	0.2	0.0	38.09	2.642	0.035	6.9	2.8	66.2
1.76	7.9	0.22	0.84	0.2	0.0	35.909	2.785	0.036	6.8	2.9	67.31
1.77	7.8	0.24	0.83	0.2	0.0	32.5	3.077	0.037	6.7	3.2	69.37
1.78	7.5	0.25	0.82	0.2	0.0	31.2	3.205	0.038	6.7	3.3	70.09
1.79	7.7	0.26	0.82	0.2	0.0	29.615	3.377	0.039	6.6	3.5	71.56
1.80	7.8	0.28	0.80	0.2	0.0	27.143	3.684	0.04	6.4	3.8	74.23
1.81	7.4	0.28	0.79	0.2	0.0	26.429	3.784	0.041	6.2	4.0	75.99
1.82	7.4	0.29	0.78	0.2	0.0	25.517	3.919	0.042	6.2	4.1	76.52

2.53	14.4	0.32	-0.19	0.2	0.0	45.00	2.222	0.113	13.1	2.3	47.96
2.54	12.9	0.28	-0.20	0.2	0.0	46.071	2.171	0.114	11.6	2.3	50.34
2.55	12.0	0.26	-0.20	0.2	0.0	46.154	2.167	0.115	10.6	2.2	52.25
2.56	11.0	0.24	-0.20	0.2	0.0	45.833	2.182	0.116	9.7	2.3	54.91
2.57	10.2	0.22	-0.20	0.2	0.0	44.348	2.255	0.117	8.9	2.2	57.66
2.58	8.7	0.22	-0.20	0.2	0.0	39.545	2.529	0.118	7.4	2.6	63.54
2.59	8.2	0.22	-0.19	0.2	0.0	37.273	2.683	0.119	6.9	2.8	66.77
2.60	7.1	0.25	-0.17	0.2	0.0	28.4	3.521	0.12	5.7	3.9	77.66
2.61	6.6	0.28	-0.14	0.2	0.0	23.571	4.242	0.121	5.2	4.6	84.08
2.62	6.3	0.3	-0.19	0.2	0.0	21.0	4.762	0.122	4.9	5.2	88.25
2.63	6.1	0.31	-0.05	0.2	0.0	19.677	5.082	0.123	4.7	5.6	91.23
2.64	6.4	0.31	0.09	0.2	0.0	20.645	4.844	0.124	5.0	5.3	88.08
2.65	6.9	0.29	0.16	0.2	0.0	23.793	4.203	0.125	5.5	4.5	81.96
2.66	7.3	0.26	0.25	0.2	0.0	28.077	3.562	0.126	5.9	3.9	76.91
2.67	8.0	0.23	0.46	0.2	0.0	34.783	2.875	0.127	6.7	3.1	69.12
2.68	8.1	0.23	0.55	0.2	0.0	35.217	2.84	0.128	6.8	3.0	68.04
2.69	8.1	0.23	0.55	0.2	0.0	35.217	2.84	0.129	6.8	3.0	68.05
2.70	7.8	0.22	0.57	0.2	0.0	35.455	2.821	0.13	6.5	3.0	69.09
2.71	7.4	0.17	0.33	0.2	0.0	43.529	2.297	0.131	6.0	2.5	68.38
2.72	7.3	0.16	0.55	0.2	0.0	45.625	2.192	0.132	5.9	2.3	67.71
2.73	7.7	0.15	0.75	0.2	0.0	53.333	1.948	0.133	6.4	2.1	64.12
2.74	8.4	0.15	0.90	0.2	0.0	56.0	1.786	0.134	7.1	1.8	59.28
2.75	9.4	0.15	0.64	0.2	0.0	62.667	1.596	0.135	8.1	1.6	54.33
2.76	11.0	0.15	1.02	0.2	0.0	73.333	1.364	0.136	9.6	1.5	48.82
2.77	13.3	0.17	1.13	0.2	0.0	78.235	1.278	0.137	12.0	1.3	42.89
2.78	18.5	0.23	0.01	0.2	0.0	80.435	1.243	0.138	17.2	1.3	35.1
2.79	20.0	0.25	-0.43	0.2	0.0	80.0	1.25	0.139	18.6	1.3	34.04
2.80	20.3	0.28	-0.20	0.2	0.0	72.5	1.379	0.14	18.9	1.0	34.80
2.81	20.6	0.25	-0.51	0.2	0.0	82.4	1.214	0.141	19.2	1.2	32.95
2.82	20.5	0.24	-0.47	0.2	0.0	85.417	1.171	0.142	19.1	1.2	32.77
2.83	20.4	0.24	-0.45	0.2	0.0	85.0	1.176	0.143	19.0	1.2	32.91
2.84	19.6	0.22	-0.42	0.2	0.0	89.091	1.122	0.144	18.2	1.2	33.36
2.85	19.0	0.21	-0.40	0.2	0.0	90.476	1.105	0.145	17.6	1.1	33.55
2.86	18.7	0.2	-0.39	0.2	0.0	93.5	1.07	0.146	17.4	1.1	33.31
2.87	19.0	0.2	-0.32	0.2	0.0	95.0	1.053	0.147	17.6	1.1	33.27
2.88	19.0	0.2	-0.32	0.2	0.0	95.0	1.053	0.148	17.6	1.1	33.27
2.89	20.2	0.22	-0.16	0.2	0.0	91.818	1.089	0.149	18.8	1.1	32.1
2.90	20.6	0.22	-0.14	0.2	0.0	93.636	1.068	0.15	19.2	1.1	31.81
2.91	21.4	0.21	-0.11	0.2	0.0	101.905	0.981	0.151	20.0	1.0	30.47
2.92	21.8	0.21	-0.10	0.2	0.0	103.81	0.963	0.152	20.4	1.5	29.93
2.93	22.1	0.21	-0.09	0.2	0.0	105.238	0.95	0.153	20.7	1.0	29.32
2.94	22.6	0.22	-0.09	0.2	0.0	102.727	0.973	0.154	21.2	1.0	29.25
2.95	22.6	0.22	-0.09	0.2	0.0	102.727	0.973	0.155	21.2	1.0	29.25
2.96	22.6	0.24	-0.10	0.2	0.0	94.167	1.062	0.156	21.2	1.1	30.01
2.97	23.3	0.24	-0.11	0.2	0.0	92.917	1.076	0.157	20.9	1.1	30.5
2.98	21.3	0.22	-0.12	0.2	0.0	96.818	1.033	0.158	19.1	1.3	30.87
2.99	20.6	0.19	-0.11	0.2	0.0	108.421	0.922	0.159	19.2	1.0	30.4
3.00	19.9	0.17	-0.11	0.2	0.0	117.059	0.854	0.16	18.5	0.9	30.36
3.01	19.1	0.15	-0.11	0.2	0.0	127.333	0.785	0.161	17.7	0.8	30.56
3.02	19.1	0.15	-0.11	0.2	0.0	127.333	0.785	0.162	17.7	0.8	30.56
3.03	19.1	0.15	-0.11	0.2	0.0	127.333	0.785	0.163	17.7	0.8	30.56
3.04	17.04	0.18	-0.09	0.2	0.0	96.667	1.034	0.164	16.0	1.1	34.88
3.05	16.8	0.2	-0.45	0.2	0.0	84.0	1.19	0.165	15.4	1.2	36.84
3.06	15.5	0.23	-0.54	0.2	0.0	67.391	1.484	0.166	14.1	1.6	41.42
3.07	14.8	0.25	-0.56	0.2	0.0	59.2	1.689	0.167	13.4	1.8	44.06
3.08	14.3	0.27	-0.56	0.2	0.0	52.963	1.888	0.168	12.9	2.0	46.25
3.09	13.6	0.28	-0.56	0.2	0.0	48.571	2.059	0.169	12.2	2.2	48.79
3.10	12.1	0.29	-0.55	0.2	0.0	41.724	2.397	0.17	10.6	2.6	54.27
3.11	11.2	0.29	-0.55	0.2	0.0	38.621	2.589	0.171	9.8	2.7	57.24
3.12	10.5	0.27	-0.54	0.2	0.0	38.889	2.571	0.172	9.1	2.7	58.81
3.13	9.5	0.22	-0.52	0.2	0.0	43.182	2.316	0.173	8.1	2.5	60.44
3.14	9.0	0.2	-0.52	0.3	0.0	45.0	2.222	0.174	7.6	2.4	61.33
3.15	8.3	0.2	-0.50	0.2	0.0	41.5	2.41	0.175	6.9	2.6	65.3
3.16	8.3	0.2	-0.50	0.2	0.0	41.5	2.41	0.176	6.9	2.6	65.31
3.17	8.6	0.23	-0.46	0.3	0.0	37.391	2.674	0.177	7.2	2.9	66.07
3.18	9.0	0.23	-0.44	0.3	0.0	39.13	2.556	0.178	7.6	2.7	63.5
3.19	9.4	0.22	-0.43	0.3	0.0	42.727	2.34	0.179	8.0	2.5	60.98
3.20	9.9	0.21	-0.41	0.3	0.0	47.143	2.121	0.18	8.5	2.2	57.68
3.21	10.2	0.2	-0.39	0.3	0.0	50.5	1.98	0.181	8.7	2.1	56.26
3.22	10.2	0.19	-0.38	0.3	0.0	53.684	1.863	0.182	8.8	2.0	55.31

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3.23	10.3	0.18	-0.35	0.3	0.0	57.222	1.748	0.183	8.9	1.8	53.55
3.24	10.1	0.17	-0.33	0.3	0.0	59.412	1.683	0.184	8.7	1.8	53.63
3.25	9.9	0.15	-0.29	0.2	0.0	66.0	1.515	0.185	8.5	1.7	53.33
3.26	9.7	0.12	-0.23	0.2	0.0	80.833	1.237	0.186	8.3	1.4	51.32
3.27	9.5	0.12	-0.23	0.2	0.0	80.833	1.237	0.187	8.3	1.4	50.45
3.28	9.8	0.11	-0.17	0.2	0.0	89.091	1.122	0.188	8.4	1.2	49.94
3.29	9.8	0.11	-0.17	0.2	0.0	89.091	1.122	0.189	8.4	1.2	49.95
3.30	9.6	0.11	-0.05	0.2	0.0	87.273	1.146	0.19	8.2	1.3	50.57
3.31	9.5	0.11	-0.03	0.2	0.0	86.364	1.158	0.191	8.1	1.3	50.85
3.32	9.3	0.11	-0.02	0.2	0.0	84.545	1.183	0.192	7.9	1.3	51.98
3.33	8.7	0.11	0.01	0.2	0.0	79.091	1.264	0.193	7.3	1.4	54.63
3.34	8.4	0.11	0.03	0.3	0.0	76.364	1.31	0.194	7.0	1.4	55.44
3.35	8.1	0.1	0.05	0.2	0.0	81.0	1.235	0.195	6.7	1.4	56.55
3.36	7.7	0.1	0.07	0.2	0.0	77.0	1.299	0.196	6.3	1.4	58.44
3.37	7.2	0.09	0.12	0.3	0.0	80.0	1.25	0.197	5.7	1.4	61.25
3.38	7.0	0.09	0.19	0.3	0.0	77.778	1.286	0.198	5.5	1.4	61.74
3.39	6.5	0.08	0.35	0.3	0.0	81.25	1.231	0.199	5.0	1.4	64.18
3.40	5.8	0.07	0.57	0.3	0.0	82.857	1.207	0.2	4.3	1.5	69.4
3.41	5.4	0.07	0.67	0.3	0.0	77.143	1.296	0.201	3.9	1.5	73.1
3.42	5.2	0.07	0.77	0.3	0.0	74.286	1.346	0.202	3.7	1.6	75.26
3.43	5.1	0.08	0.80	0.3	0.0	63.75	1.569	0.203	3.6	1.7	77.05
3.44	5.2	0.09	0.84	0.3	0.0	57.778	1.726	0.204	3.7	1.9	78.17
3.45	5.3	0.09	0.86	0.3	0.0	58.889	1.698	0.205	3.8	2.0	77.7
3.46	5.4	0.1	0.84	0.3	0.0	54.0	1.852	0.206	3.9	2.1	77.7
3.47	5.2	0.1	0.88	0.3	0.0	52.0	1.923	0.207	3.7	2.2	80.55
3.48	5.2	0.1	0.88	0.3	0.0	52.0	1.923	0.208	3.7	2.2	80.57
3.49	5.4	0.11	0.91	0.3	0.0	49.091	2.037	0.209	3.9	2.3	79.37
3.50	4.5	0.12	0.90	0.3	0.0	45.833	2.182	0.21	4.0	2.4	79.73
3.51	6.0	0.12	0.90	0.3	0.0	50.0	2.0	0.211	4.5	2.3	75.03
3.52	6.2	0.12	0.89	0.3	0.0	51.667	1.935	0.212	4.7	2.1	72.89
3.53	6.4	0.12	0.88	0.3	0.0	53.333	1.875	0.213	4.9	2.0	70.91
3.54	6.9	0.12	0.74	0.3	0.0	57.5	1.739	0.214	5.4	2.0	67.88
3.55	6.9	0.13	0.59	0.3	0.0	53.077	1.884	0.215	5.4	2.0	68.1
3.56	6.6	0.12	0.49	0.3	0.0	55.0	1.818	0.216	5.1	2.1	70.03
3.57	6.4	0.11	0.45	0.3	0.0	58.182	1.719	0.217	4.9	2.0	70.65
3.58	6.1	0.11	0.48	0.3	0.0	55.455	1.803	0.218	4.6	2.1	72.92
3.59	6.1	0.11	0.51	0.3	0.0	55.455	1.803	0.219	4.6	2.1	73.32
3.60	6.2	0.11	0.47	0.3	0.0	56.364	1.774	0.22	4.7	2.0	72.18
3.61	6.2	0.11	0.44	0.4	0.0	56.364	1.774	0.221	4.7	2.1	72.34
3.62	5.8	0.11	0.40	0.4	0.0	52.727	1.897	0.222	4.3	2.2	76.19
3.63	6.1	0.12	0.50	0.4	0.0	50.833	1.967	0.223	4.6	2.2	74.02
3.64	7.0	0.12	0.67	0.3	0.0	58.333	1.714	0.224	5.5	2.0	67.08
3.65	10.3	0.14	0.92	0.4	0.0	73.571	1.319	0.225	8.8	1.4	50.48
3.66	12.0	0.15	0.88	0.4	0.0	80.0	1.25	0.226	10.3	1.5	45.78
3.67	13.0	0.16	0.71	0.3	0.0	81.25	1.31	0.227	11.5	1.3	43.81
3.68	13.0	0.16	0.71	0.3	0.0	81.25	1.31	0.228	11.5	1.3	43.81
3.69	12.6	0.17	0.15	0.3	0.0	74.118	1.349	0.229	11.1	1.4	45.12
3.70	11.9	0.16	0.09	0.3	0.0	74.375	1.345	0.23	10.4	1.4	46.7
3.71	10.0	0.14	0.03	0.3	0.0	71.429	1.4	0.231	8.5	1.5	51.68
3.72	9.2	0.12	0.02	0.4	0.0	76.667	1.424	0.232	7.8	1.5	53.27
3.73	8.4	0.11	0.02	0.4	0.0	76.364	1.31	0.233	6.5	1.5	56.77
3.74	7.8	0.13	0.04	0.4	0.0	60.0	1.667	0.234	6.3	1.8	62.18
3.75	7.5	0.15	0.11	0.3	0.0	50.0	2.0	0.235	5.9	2.3	67.31
3.76	7.0	0.19	0.41	0.3	0.0	36.842	2.714	0.236	5.5	3.0	74.29
3.77	6.9	0.19	0.47	0.3	0.0	36.316	2.754	0.237	5.4	3.1	74.49
3.78	6.9	0.17	0.56	0.3	0.0	40.588	2.464	0.238	5.8	2.8	72.40
3.79	7.1	0.17	0.56	0.4	0.0	41.765	2.394	0.239	5.5	2.7	72.15
3.80	7.4	0.18	0.54	0.3	0.0	41.111	2.432	0.24	5.8	2.8	70.98
3.81	7.4	0.18	0.54	0.3	0.0	41.111	2.432	0.241	5.8	2.8	70.99
3.82	7.4	0.19	0.39	0.4	0.0	38.947	2.568	0.242	5.8	2.8	71.28
3.83	7.2	0.18	0.39	0.4	0.0	40.0	2.432	0.243	5.6	2.8	72.14
3.84	7.0	0.17	0.40	0.3	0.0	41.176	2.429	0.244	6.2	2.7	72.57
3.85	6.5	0.14	0.44	0.3	0.0	46.429	2.154	0.245	5.0	2.4	73.25
3.86	6.2	0.12	0.47	0.3	0.0	51.667	1.935	0.246	4.7	2.1	73.04
3.87	6.2	0.12	0.47	0.3	0.0	51.667	1.935	0.247	4.7	2.1	73.05
3.88	6.2	0.09	0.63	0.4	0.0	68.889	1.452	0.248	4.7	1.6	68.98
3.89	6.0	0.09	0.87	0.4	0.0	85.556	1.169	0.249	6.0	1.3	57.66
3.90	8.7	0.09	0.95	0.3	0.0	96.860	1.034	0.25	7.2	1.2	52.9
3.91	9.9	0.11	0.97	0.3	0.0	99.0	1.01	0.251	8.1	1.1	48.57
3.92	11.7	0.11	0.32	0.3	0.0	106.364	0.94	0.252	10.1	1.0	43.39

5.33	4.5	0.09	1.29	0.6	0.0	50.0	2.0	0.393	2.8	2.4	91.35
5.34	4.5	0.09	1.31	0.6	0.0	50.0	2.0	0.394	2.8	2.5	91.8
5.35	4.4	0.09	1.34	0.6	0.0	48.889	2.045	0.395	2.7	2.6	93.78
5.36	4.4	0.09	1.29	0.6	0.0	48.889	2.045	0.396	2.7	2.7	94.7
5.37	4.1	0.2	1.20	0.6	0.0	44.0	2.273	0.397	2.7	2.3	95.11
5.38	4.4	0.1	1.19	0.6	0.0	44.0	2.273	0.398	2.7	2.8	95.47
5.39	4.4	0.1	1.23	0.7	0.0	44.0	2.273	0.399	2.7	3.0	97.01
5.40	4.3	0.11	1.20	0.7	0.0	39.091	2.558	0.4	2.6	3.2	99.56
5.41	4.3	0.11	1.18	0.7	0.0	39.091	2.558	0.401	2.6	3.4	100.86
5.42	4.3	0.11	1.18	0.7	0.0	39.091	2.558	0.402	2.6	3.4	100.88
5.43	4.3	0.12	1.37	0.7	0.0	35.833	1.791	0.403	2.7	3.7	102.3
5.44	4.3	0.12	1.42	0.7	0.0	35.833	1.791	0.404	2.6	3.7	102.67
5.45	4.4	0.13	1.49	0.7	0.0	33.846	2.955	0.405	2.7	3.7	101.23
5.46	4.5	0.13	1.48	0.7	0.0	34.615	2.889	0.406	2.8	3.6	99.33
5.47	4.5	0.13	1.46	0.7	0.0	34.615	2.889	0.407	2.8	3.6	99.28
5.48	4.7	0.12	1.38	0.7	0.0	39.167	2.553	0.408	3.0	3.4	95.48
5.49	4.8	0.12	1.37	0.7	0.0	40.0	2.5	0.409	3.1	3.3	93.86
5.50	4.8	0.13	1.36	0.7	0.0	36.923	2.708	0.41	3.1	3.3	94.14
5.51	4.8	0.13	1.33	0.7	0.0	36.923	2.708	0.411	3.1	3.4	94.78
5.52	4.8	0.13	1.25	0.7	0.0	36.923	2.708	0.412	3.1	3.5	95.51
5.53	4.8	0.14	1.22	0.7	0.0	34.286	2.917	0.413	3.1	3.6	96.07
5.54	4.8	0.14	1.21	0.7	0.0	34.286	2.917	0.414	3.1	3.7	96.58
5.55	4.9	0.14	1.17	0.7	0.0	35.0	2.857	0.415	3.2	3.7	95.37
5.56	5.1	0.15	0.99	0.7	0.0	34.0	2.941	0.416	3.4	3.6	92.61
5.57	5.2	0.15	1.02	0.7	0.0	34.667	2.885	0.417	3.5	3.6	91.68
5.58	5.2	0.15	1.01	0.7	0.0	34.667	2.885	0.418	3.5	3.7	92.26
5.59	5.3	0.17	1.09	0.7	0.0	31.176	3.208	0.419	3.6	3.9	92.38
5.60	5.3	0.17	1.04	0.7	0.0	31.765	3.148	0.42	3.6	3.9	91.79
5.61	5.4	0.18	0.88	0.7	0.0	30.0	3.333	0.421	3.7	4.1	92.47
5.62	5.4	0.18	0.88	0.7	0.0	30.0	3.333	0.422	3.7	4.1	92.48
5.63	5.5	0.2	0.94	0.7	0.0	27.5	3.636	0.423	3.8	4.4	93.41
5.64	5.5	0.2	0.94	0.7	0.0	27.5	3.636	0.424	3.8	4.4	93.43
5.65	5.4	0.21	1.05	0.7	0.0	25.714	3.899	0.425	3.7	4.7	95.8
5.66	5.5	0.21	1.09	0.7	0.0	26.19	3.818	0.426	3.8	4.6	94.34
5.67	5.5	0.21	1.11	0.7	0.0	26.19	3.818	0.427	3.8	4.6	94.56
5.68	5.5	0.21	1.08	0.7	0.0	26.19	3.818	0.428	3.8	4.7	94.72
5.69	5.6	0.21	1.04	0.7	0.0	26.667	3.75	0.429	3.9	4.6	93.63
5.70	5.7	0.21	1.02	0.7	0.0	27.143	3.684	0.43	4.0	4.6	92.55
5.71	5.7	0.21	1.00	0.7	0.0	27.143	3.684	0.431	4.0	4.6	92.6
5.72	5.6	0.21	0.96	0.7	0.0	26.667	3.75	0.432	3.9	4.7	94.02
5.73	5.6	0.21	0.96	0.8	0.0	26.667	3.75	0.433	3.9	4.6	93.63
5.74	5.6	0.21	0.92	0.8	0.0	26.667	3.75	0.434	3.9	4.6	93.37
5.75	5.6	0.21	0.90	0.8	0.0	26.667	3.75	0.435	3.9	4.6	93.39
5.76	5.5	0.2	0.91	0.8	0.0	27.5	3.636	0.436	3.8	4.6	94.42
5.77	5.5	0.2	0.92	0.8	0.0	27.5	3.636	0.437	3.8	4.6	94.37
5.78	5.6	0.2	1.12	0.8	0.0	28.0	3.571	0.438	3.9	4.5	93.15
5.79	5.6	0.2	1.20	0.8	0.0	28.0	3.571	0.439	3.9	4.5	93.07
5.80	5.6	0.2	1.21	0.8	0.0	28.0	3.571	0.44	3.9	4.5	93.18
5.81	5.6	0.21	1.22	0.8	0.0	26.667	3.75	0.441	3.9	4.5	93.24
5.82	5.6	0.21	1.20	0.8	0.0	26.667	3.75	0.442	3.9	4.5	93.29
5.83	5.6	0.2	1.14	0.8	0.0	28.0	3.571	0.443	3.9	4.4	92.54
5.84	5.6	0.2	1.15	0.8	0.0	28.0	3.571	0.444	3.9	4.4	92.44
5.85	5.6	0.2	0.98	0.8	0.0	28.0	3.571	0.445	3.9	4.4	92.49
5.86	5.5	0.2	0.99	0.8	0.0	27.5	3.636	0.446	3.8	4.5	94.19
5.87	5.4	0.21	1.00	0.8	0.0	25.714	3.889	0.447	3.7	4.8	96.09
5.88	5.4	0.21	1.09	0.8	0.0	25.714	3.889	0.448	3.7	4.8	96.28
5.89	5.8	0.2	1.38	0.8	0.0	29.0	3.448	0.449	4.1	4.2	90.09
5.90	6.3	0.6	0.62	1.0	0.0	31.5	1.75	0.45	3.8	84.25	
5.91	7.1	0.19	2.25	0.8	0.0	37.368	2.676	0.451	5.3	3.2	76.42
5.92	9.6	0.18	1.51	0.8	0.0	53.333	1.875	0.452	7.9	2.2	58.93
5.93	11.2	0.18	1.31	0.8	0.0	62.222	1.607	0.453	9.4	1.8	51.99
5.94	13.1	0.18	0.79	0.8	0.0	72.778	1.374	0.454	11.4	1.5	44.96
5.95	15.4	0.58	0.62	1.0	0.0	85.556	1.169	0.455	13.7	1.3	39.39
5.96	18.8	0.19	0.21	0.8	0.0	98.947	1.011	0.456	17.1	1.1	33.57
5.97	20.0	0.19	0.03	0.9	0.0	105.263	0.95	0.457	18.3	1.0	31.87
5.98	21.1	0.18	0.72	0.9	0.0	117.222	0.853	0.458	19.3	0.9	29.52
5.99	21.5	0.15	0.81	0.9	0.0	143.333	0.698	0.459	19.7	0.8	27.94
6.00	22.3	0.14	0.85	0.9	0.0	159.286	0.628	0.46	20.5	0.7	26.4
6.01	22.3	0.14	0.85	0.9	0.0	159.286	0.628	0.461	20.5	0.7	26.4
6.02	22.3	0.14	0.85	0.9	0.0	159.286	0.628	0.462	20.5	0.7	26.4

(Biopg s.s. di Cascine Luigi-Ampilamento impianto zootecnico-Zerbinato di Bordenno FE) 141

6.73	88.9	0.61	0.60	1.0	0.0	145.738	0.686	0.533	87.2	0.7	9.47
6.74	89.6	0.61	0.60	1.0	0.0	146.885	0.681	0.534	87.7	0.7	9.38
6.75	90.1	0.61	0.60	1.0	0.0	147.705	0.677	0.535	88.4	0.7	9.35
6.76	90.5	0.62	0.59	1.0	0.0	145.968	0.685	0.536	88.7	0.7	9.36
6.77	90.2	0.63	0.59	1.0	0.0	143.175	0.698	0.537	88.5	0.7	9.45
6.78	89.4	0.63	0.59	1.0	0.0	141.905	0.705	0.538	87.7	0.7	9.64
6.79	89.2	0.63	0.59	1.0	0.0	141.587	0.706	0.539	87.5	0.7	9.65
6.80	89.2	0.63	0.59	1.0	0.0	141.587	0.706	0.54	87.5	0.7	9.61
6.81	89.6	0.62	0.60	1.0	0.0	144.516	0.692	0.541	87.9	0.7	9.52
6.82	90.2	0.62	0.60	1.0	0.0	145.484	0.687	0.542	88.5	0.7	9.42
6.83	91.1	0.62	0.61	1.0	0.0	146.935	0.681	0.543	89.3	0.7	9.27
6.84	93.5	0.62	0.62	1.0	0.0	150.806	0.663	0.544	91.7	0.7	8.92
6.85	95.1	0.62	0.63	1.0	0.0	153.387	0.652	0.545	93.7	0.7	8.68
6.86	97.1	0.62	0.63	1.0	0.0	156.613	0.639	0.546	95.3	0.7	8.42
6.87	101.9	0.61	0.63	1.0	0.0	167.049	0.599	0.547	100.1	0.6	7.7
6.88	105.1	0.6	0.62	1.0	0.0	175.167	0.571	0.548	103.4	0.6	7.22
6.89	110.1	0.58	0.62	1.0	0.0	189.828	0.527	0.549	108.4	0.5	6.49
6.90	111.6	0.58	0.62	1.0	0.0	192.414	0.522	0.55	109.8	0.5	6.3
6.91	113.1	0.57	0.61	1.0	0.0	198.421	0.504	0.551	111.3	0.5	6.12
6.92	112.8	0.57	0.61	1.0	0.0	197.895	0.505	0.552	111.0	0.5	6.14
6.93	111.9	0.58	0.60	1.0	0.0	192.931	0.518	0.553	110.1	0.5	6.26
6.94	110.5	0.58	0.59	1.0	0.0	190.517	0.525	0.554	108.8	0.5	6.43
6.95	107.3	0.59	0.59	1.0	0.0	181.864	0.55	0.555	105.5	0.6	6.91
6.96	105.3	0.6	0.58	1.0	0.0	175.5	0.57	0.556	103.6	0.6	7.2
6.97	100.1	0.61	0.57	1.0	0.0	164.098	0.609	0.557	98.4	0.6	7.91
6.98	96.7	0.62	0.57	1.0	0.0	155.968	0.641	0.558	94.9	0.7	8.45
6.99	93.3	0.63	0.55	1.0	0.0	148.095	0.675	0.559	91.5	0.7	9.02
7.00	89.4	0.65	0.55	1.0	0.0	137.538	0.727	0.56	87.7	0.7	9.76
7.01	89.6	0.65	0.55	1.0	0.0	137.538	0.727	0.561	87.7	0.7	9.76
7.02	89.4	0.65	0.55	1.0	0.0	137.538	0.727	0.562	87.7	0.7	9.76
7.03	74.4	0.58	0.59	1.0	0.0	128.276	0.78	0.563	72.7	0.8	11.87
7.04	73.3	0.59	0.60	1.0	0.0	124.237	0.805	0.564	71.6	0.8	12.28
7.05	73.2	0.61	0.60	1.0	0.0	120.0	0.833	0.565	71.4	0.9	12.5
7.06	76.0	0.64	0.62	1.0	0.0	118.75	0.842	0.566	74.2	0.9	12.18
7.07	79.4	0.65	0.62	1.0	0.0	122.154	0.819	0.567	77.7	0.8	11.63
7.08	89.6	0.67	0.62	1.0	0.0	133.731	0.748	0.568	87.9	0.8	9.95
7.09	94.9	0.66	0.62	1.0	0.0	143.788	0.695	0.569	93.2	0.7	9.08
7.10	99.7	0.65	0.60	1.0	0.0	153.385	0.652	0.57	98.0	0.7	8.27
7.11	105.2	0.63	0.25	1.0	0.0	166.984	0.599	0.571	103.5	0.6	7.47
7.12	106.3	0.63	0.12	1.0	0.0	168.73	0.593	0.572	104.5	0.6	7.3
7.13	107.1	0.62	0.12	1.0	0.0	172.742	0.579	0.573	105.3	0.6	7.11
7.14	107.8	0.59	-0.04	1.0	0.0	182.711	0.541	0.574	106.6	0.6	6.83
7.15	107.8	0.59	-0.04	1.0	0.0	182.712	0.547	0.575	106.0	0.6	6.83
7.16	107.3	0.58	-0.05	1.0	0.0	185.0	0.541	0.576	105.5	0.6	6.78
7.17	103.1	0.56	0.25	1.0	0.0	184.107	0.543	0.577	101.3	0.6	7.15
7.18	101.7	0.57	0.41	1.0	0.0	178.421	0.556	0.578	99.9	0.6	7.36
7.19	100.0	0.58	0.51	1.0	0.0	173.793	0.575	0.579	99.1	0.6	7.54
7.20	100.0	0.6	0.58	1.0	0.0	166.667	0.6	0.58	98.3	0.6	7.81
7.21	100.1	0.61	0.59	1.0	0.0	163.931	0.6	0.581	98.6	0.6	7.93
7.22	100.2	0.62	0.60	1.0	0.0	161.613	0.619	0.582	98.5	0.6	7.99
7.23	100.6	0.62	0.61	1.0	0.0	162.258	0.616	0.583	98.9	0.6	7.97
7.24	101.4	0.62	0.61	1.0	0.0	163.548	0.611	0.584	99.6	0.6	7.85
7.25	101.3	0.62	0.61	1.0	0.0	163.387	0.612	0.585	99.5	0.6	7.87
7.26	100.4	0.66	0.61	1.0	0.0	152.121	0.657	0.586	98.7	0.7	8.26
7.27	99.7	0.68	0.61	1.0	0.0	146.885	0.681	0.587	97.7	0.7	8.5
7.28	99.1	0.7	0.61	1.0	0.0	141.571	0.706	0.588	97.4	0.7	8.8
7.29	98.2	0.72	0.61	1.0	0.0	136.389	0.733	0.589	96.4	0.7	9.06
7.30	96.6	0.72	0.61	1.0	0.0	134.167	0.745	0.59	94.8	0.8	9.34
7.31	95.9	0.72	0.61	1.0	0.0	133.194	0.751	0.591	94.1	0.8	9.43
7.32	95.0	0.72	0.62	1.0	0.0	131.944	0.758	0.592	93.3	0.8	9.53
7.33	93.8	0.72	0.62	1.0	0.0	130.078	0.768	0.593	92.6	0.8	9.69
7.34	93.8	0.72	0.62	1.0	0.0	130.272	0.768	0.594	92.1	0.8	9.69
7.35	93.4	0.72	0.62	1.0	0.0	129.722	0.771	0.595	91.6	0.8	9.8
7.36	93.0	0.72	0.61	1.0	0.0	129.167	0.774	0.596	91.2	0.8	9.89
7.37	93.1	0.73	0.62	1.0	0.0	127.534	0.784	0.597	91.3	0.8	9.9
7.38	93.1	0.73	0.62	1.0	0.0	127.534	0.784	0.598	91.3	0.8	9.91
7.39	93.8	0.73	0.63	1.0	0.0	128.493	0.778	0.599	92.1	0.8	9.77
7.40	94.4	0.72	0.63	1.0	0.0	131.944	0.761	0.6	92.6	0.8	9.65
7.41	94.6	0.72	0.63	1.0	0.0	131.389	0.761	0.601	92.9	0.8	9.57
7.42	94.7	0.71	0.63	1.0	0.0	133.38	0.75	0.602	93.0	0.8	9.53

8.13	71.8	0.5	0.68	1.0	0.0	143.6	0.696	0.673	70.0	0.7	11.54
8.14	76.5	0.48	0.70	1.0	0.0	159.375	0.627	0.674	74.7	0.7	10.4
8.15	78.5	0.48	0.71	1.0	0.0	163.542	0.611	0.675	76.8	0.6	9.96
8.16	80.9	0.48	0.74	1.0	0.0	168.542	0.593	0.676	79.1	0.6	9.5
8.17	81.8	0.48	0.74	1.0	0.0	168.542	0.593	0.677	79.4	0.7	9.48
8.18	87.7	0.47	0.70	1.0	0.0	186.596	0.536	0.678	85.9	0.5	8.32
8.19	87.7	0.47	0.70	1.0	0.0	186.596	0.536	0.679	85.9	0.5	8.32
8.20	92.1	0.48	0.70	1.0	0.0	191.875	0.521	0.68	90.3	0.5	7.75
8.21	93.2	0.48	0.70	1.0	0.0	194.167	0.515	0.681	91.4	0.5	7.67
8.22	95.2	0.5	0.71	1.0	0.0	190.4	0.525	0.682	93.2	0.7	7.56
8.23	95.2	0.5	0.71	1.0	0.0	190.5	0.525	0.683	93.5	0.5	7.56
8.24	98.2	0.52	0.71	1.0	0.0	188.846	0.533	0.684	96.4	0.5	7.4
8.25	99.2	0.53	0.71	1.0	0.0	187.17	0.534	0.685	97.5	0.5	7.35
8.26	100.9	0.56	0.71	1.0	0.0	180.179	0.555	0.686	99.1	0.6	7.4
8.27	101.9	0.58	0.71	1.0	0.0	175.69	0.569	0.687	100.1	0.6	7.43
8.28	104.1	0.61	0.71	1.0	0.0	170.656	0.586	0.688	102.4	0.6	7.44
8.29	104.1	0.61	0.71	1.0	0.0	170.656	0.586	0.689	102.4	0.6	7.44
8.30	105.6	0.65	0.72	1.0	0.0	162.462	0.616	0.69	103.8	0.6	7.53
8.31	106.1	0.66	0.72	1.0	0.0	160.758	0.622	0.691	104.3	0.6	7.57
8.32	106.3	0.67	0.72	1.0	0.0	158.657	0.63	0.692	104.5	0.6	7.67
8.33	106.3	0.68	0.72	1.0	0.0	156.324	0.64	0.693	104.5	0.7	7.68
8.34	106.3	0.68	0.72	1.0	0.0	156.324	0.64	0.694	104.5	0.7	7.68
8.35	106.1	0.69	0.72	1.0	0.0	153.768	0.65	0.695	104.3	0.7	7.81
8.36	106.1	0.72	0.73	1.0	0.0	147.361	0.679	0.696	104.3	0.7	8.03
8.37	106.3	0.73	0.73	1.0	0.0	145.616	0.687	0.697	104.5	0.7	8.08
8.38	107.1	0.75	0.73	1.0	0.0	142.8	0.7	0.698	105.3	0.7	8.12
8.39	107.5	0.75	0.73	1.0	0.0	143.333	0.698	0.699	105.7	0.7	8.13
8.40	107.6	0.75	0.73	1.1	0.0	141.184	0.708	0.7	105.5	0.7	8.19
8.41	107.2	0.77	0.73	1.1	0.0	139.221	0.718	0.701	105.4	0.7	8.31
8.42	107.2	0.78	0.73	1.0	0.0	137.436	0.728	0.702	105.4	0.7	8.37
8.43	107.4	0.79	0.73	1.0	0.0	135.949	0.736	0.703	105.6	0.8	8.39
8.44	108.2	0.81	0.73	1.0	0.0	133.58	0.749	0.704	106.4	0.8	8.42
8.45	108.6	0.81	0.73	1.1	0.0	134.074	0.746	0.705	106.8	0.8	8.41
8.46	108.6	0.82	0.73	1.1	0.0	132.439	0.755	0.706	106.8	0.8	8.46
8.47	107.7	0.83	0.73	1.1	0.0	129.759	0.771	0.707	105.9	0.8	8.64
8.48	106.9	0.83	0.73	1.1	0.0	128.795	0.776	0.708	105.1	0.8	8.78
8.49	106.2	0.84	0.74	1.0	0.0	126.429	0.791	0.709	104.4	0.8	8.9
8.50	105.3	0.85	0.74	1.1	0.0	123.882	0.807	0.71	103.6	0.8	9.07
8.51	105.1	0.86	0.74	1.1	0.0	122.209	0.818	0.711	103.4	0.8	9.17
8.52	105.2	0.86	0.74	1.1	0.0	122.326	0.817	0.712	103.5	0.8	9.2
8.53	105.4	0.87	0.74	1.1	0.0	121.149	0.825	0.713	103.6	0.8	9.23
8.54	105.4	0.87	0.74	1.1	0.0	121.149	0.825	0.714	103.6	0.8	9.23
8.55	105.4	0.87	0.74	1.1	0.0	121.149	0.825	0.715	103.6	0.8	9.22
8.56	104.8	0.87	0.74	1.1	0.0	120.46	0.83	0.716	103.1	0.8	9.3
8.57	104.2	0.87	0.74	1.1	0.0	118.621	0.843	0.717	101.4	0.8	9.53
8.58	102.2	0.87	0.73	1.1	0.0	117.471	0.851	0.718	100.4	0.7	9.67
8.59	100.1	0.87	0.74	1.1	0.0	115.057	0.869	0.719	98.4	0.9	9.99
8.60	98.9	0.87	0.74	1.1	0.0	113.678	0.88	0.72	97.2	0.9	10.17
8.61	98.1	0.87	0.74	1.1	0.0	112.759	0.887	0.721	96.3	0.9	10.3
8.62	97.5	0.87	0.75	1.1	0.0	112.069	0.892	0.722	95.7	0.9	10.38
8.63	96.8	0.87	0.75	1.1	0.0	111.264	0.899	0.723	95.0	0.9	10.48
8.64	96.4	0.87	0.75	1.1	0.0	110.805	0.902	0.724	94.6	0.9	10.44
8.65	95.9	0.87	0.75	1.1	0.0	110.23	0.907	0.725	94.1	0.9	10.6
8.66	95.6	0.87	0.75	1.1	0.0	109.885	0.91	0.726	93.8	0.9	10.63
8.67	95.4	0.87	0.75	1.1	0.0	109.655	0.912	0.727	93.6	0.9	10.66
8.68	95.3	0.86	0.75	1.1	0.0	110.814	0.902	0.728	93.5	0.9	10.65
8.69	95.5	0.86	0.75	1.1	0.0	111.047	0.901	0.729	93.7	0.9	10.58
8.70	95.7	0.85	0.75	1.1	0.0	111.588	0.888	0.73	93.9	0.9	10.51
8.71	95.6	0.84	0.75	1.1	0.0	113.81	0.879	0.731	93.8	0.9	10.46
8.72	95.4	0.84	0.76	1.1	0.0	113.571	0.881	0.732	93.6	0.9	10.46
8.73	95.4	0.84	0.76	1.1	0.0	113.571	0.881	0.733	93.6	0.9	10.46
8.74	94.7	0.83	0.76	1.1	0.0	114.096	0.876	0.734	93.9	0.9	10.48
8.75	95.1	0.83	0.77	1.1	0.0	115.976	0.862	0.735	93.4	0.9	10.45
8.76	95.9	0.82	0.78	1.1	0.0	116.951	0.855	0.736	94.1	0.9	10.2
8.77	97.3	0.81	0.78	1.1	0.0	120.123	0.832	0.737	95.5	0.9	9.94
8.78	101.4	0.8	0.79	1.1	0.0	126.75	0.789	0.738	99.6	0.8	9.24
8.79	103.9	0.79	0.77	1.1	0.0	131.519	0.76	0.739	102.2	0.8	8.82
8.80	106.4	0.78	0.76	1.1	0.0	136.41	0.733	0.74	104.6	0.7	8.45
8.81	109.8	0.76	0.77	1.1	0.0	144.474	0.692	0.741	108.1	0.7	7.92
8.82	110.4	0.76	0.77	1.1	0.0	145.263	0.688	0.742	108.6	0.7	7.85

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8.83	110.1	0.76	0.76	1.1	0.0	144.868	0.69	0.743	108.4	0.7	7.89
8.84	108.9	0.77	0.70	1.1	0.0	141.429	0.707	0.744	107.2	0.7	8.09
8.85	108.3	0.77	0.77	1.1	0.0	140.649	0.711	0.745	106.5	0.7	8.14
8.86	107.1	0.77	0.77	1.1	0.0	139.091	0.719	0.746	105.3	0.7	8.33
8.87	104.4	0.78	0.76	1.1	0.0	133.846	0.747	0.747	102.7	0.8	8.74
8.88	103.1	0.79	0.77	1.1	0.0	130.506	0.766	0.748	101.3	0.8	8.96
8.89	101.5	0.8	0.77	1.1	0.0	126.875	0.788	0.749	99.7	0.8	9.27
8.90	101.4	0.81	0.77	1.1	0.0	125.185	0.799	0.75	99.6	0.8	9.35
8.91	101.5	0.82	0.77	1.1	0.0	123.78	0.808	0.751	99.7	0.8	9.41
8.92	102.3	0.83	0.78	1.1	0.0	123.253	0.811	0.752	100.5	0.8	9.35
8.93	104.7	0.83	0.78	1.1	0.0	126.145	0.793	0.753	103.0	0.8	9.06
8.94	104.7	0.83	0.78	1.1	0.0	126.145	0.793	0.754	103.0	0.8	9.06
8.95	106.7	0.83	0.78	1.1	0.0	128.554	0.778	0.755	104.9	0.8	8.78
8.96	106.3	0.83	0.78	1.1	0.0	128.072	0.781	0.756	104.5	0.8	8.83
8.97	105.8	0.83	0.78	1.1	0.0	127.47	0.784	0.757	104.0	0.8	8.88
8.98	105.5	0.83	0.78	1.1	0.0	127.108	0.787	0.758	103.7	0.8	8.91
8.99	105.6	0.82	0.78	1.1	0.0	128.78	0.777	0.759	103.8	0.8	8.84
9.00	105.6	0.82	0.78	1.1	0.0	128.78	0.777	0.76	103.8	0.8	8.84
9.01	105.6	0.82	0.78	1.1	0.0	128.78	0.777	0.761	103.8	0.8	8.84
9.02	103.5	0.67	0.80	1.1	0.0	154.478	0.647	0.762	101.7	0.7	8.03
9.03	102.5	0.7	0.79	1.1	0.0	146.429	0.683	0.763	100.7	0.7	8.38
9.04	101.5	0.72	0.79	1.1	0.0	140.972	0.709	0.764	99.7	0.7	8.64
9.05	100.8	0.73	0.79	1.1	0.0	138.082	0.724	0.765	99.0	0.7	8.85
9.06	99.7	0.77	0.81	1.1	0.0	129.481	0.772	0.766	98.0	0.8	9.28
9.07	99.5	0.78	0.80	1.1	0.0	127.564	0.784	0.767	97.8	0.8	9.41
9.08	99.5	0.79	0.80	1.1	0.0	125.949	0.794	0.768	97.8	0.8	9.47
9.09	100.1	0.81	0.79	1.1	0.0	123.58	0.809	0.769	98.4	0.8	9.52
9.10	100.6	0.82	0.78	1.1	0.0	122.683	0.815	0.77	98.8	0.8	9.51
9.11	101.2	0.82	0.79	1.1	0.0	123.415	0.81	0.771	99.4	0.8	9.48
9.12	103.0	0.83	0.80	1.1	0.0	124.096	0.806	0.772	101.2	0.8	9.28
9.13	103.7	0.83	0.80	1.1	0.0	124.94	0.8	0.773	102.0	0.8	9.19
9.14	104.4	0.83	0.80	1.1	0.0	125.783	0.795	0.774	102.7	0.8	9.11
9.15	105.0	0.84	0.80	1.1	0.0	125.0	0.8	0.775	103.3	0.8	9.09
9.16	105.3	0.85	0.80	1.1	0.0	123.882	0.807	0.776	103.5	0.8	9.09
9.17	105.3	0.85	0.80	1.1	0.0	123.882	0.807	0.777	103.5	0.8	9.11
9.18	105.5	0.85	0.81	1.1	0.0	124.118	0.806	0.778	103.7	0.8	9.1
9.19	105.7	0.85	0.81	1.1	0.0	124.353	0.804	0.779	103.9	0.8	9.06
9.20	106.0	0.85	0.81	1.1	0.0	124.706	0.802	0.78	104.2	0.8	8.99
9.21	106.9	0.85	0.80	1.1	0.0	125.765	0.795	0.781	105.1	0.8	8.9
9.22	107.9	0.85	0.79	1.1	0.0	126.941	0.788	0.782	106.1	0.8	8.77
9.23	108.7	0.85	0.80	1.1	0.0	127.882	0.782	0.783	106.9	0.8	8.65
9.24	110.5	0.85	0.80	1.1	0.0	130.0	0.769	0.784	108.7	0.8	8.42
9.25	112.1	0.85	0.85	1.1	0.0	130.0	0.764	0.785	109.4	0.8	8.36
9.26	112.6	0.86	0.82	1.1	0.0	130.93	0.764	0.786	110.8	0.8	8.27
9.27	113.7	0.87	0.82	1.1	0.0	130.69	0.765	0.787	111.9	0.8	8.18
9.28	115.1	0.87	0.82	1.1	0.0	132.299	0.756	0.788	113.4	0.8	8.03
9.29	119.3	0.87	0.83	1.1	0.0	137.126	0.729	0.789	117.9	0.7	7.56
9.30	121.7	0.86	0.82	1.1	0.0	141.512	0.707	0.79	119.9	0.7	7.29
9.31	124.1	0.86	0.86	1.1	0.0	144.301	0.692	0.791	122.4	0.7	7.01
9.32	127.3	0.85	0.82	1.1	0.0	149.765	0.668	0.792	125.5	0.7	6.63
9.33	127.3	0.85	0.82	1.1	0.0	149.765	0.668	0.793	125.5	0.7	6.63
9.34	126.1	0.85	0.82	1.1	0.0	148.353	0.664	0.794	124.3	0.7	6.78
9.35	123.8	0.86	0.81	1.1	0.0	143.953	0.695	0.795	122.1	0.7	7.04
9.36	119.2	0.87	0.82	1.1	0.0	137.011	0.73	0.796	117.7	0.7	7.58
9.37	117.3	0.88	0.83	1.1	0.0	133.291	0.729	0.797	115.5	0.7	7.85
9.38	114.5	0.91	0.82	1.1	0.0	125.824	0.795	0.798	112.8	0.8	8.37
9.39	114.5	0.91	0.82	1.1	0.0	125.824	0.795	0.799	112.8	0.8	8.37
9.40	113.8	0.93	0.82	1.1	0.0	122.366	0.817	0.8	112.1	0.8	8.59
9.41	114.7	0.95	0.83	1.1	0.0	120.737	0.838	0.801	113.0	0.8	8.57
9.42	115.9	0.95	0.83	1.1	0.0	122.0	0.82	0.802	114.1	0.8	8.46
9.43	117.7	0.95	0.83	1.1	0.0	123.553	0.809	0.81	115.9	0.8	8.28
9.44	122.1	0.95	0.83	1.1	0.0	128.526	0.778	0.804	120.3	0.8	7.77
9.45	124.3	0.94	0.83	1.1	0.0	132.324	0.756	0.805	122.6	0.8	7.5
9.46	125.8	0.94	0.83	1.1	0.0	133.83	0.747	0.806	124.0	0.8	7.33
9.47	125.3	0.92	0.83	1.1	0.0	136.196	0.734	0.807	123.6	0.8	7.28
9.48	123.5	0.92	0.83	1.1	0.0	134.239	0.745	0.808	121.7	0.8	7.44
9.49	121.0	0.91	0.83	1.1	0.0	131.96	0.752	0.809	119.2	0.8	7.65
9.50	116.0	0.9	0.83	1.1	0.0	128.889	0.776	0.81	114.2	0.8	8.14
9.51	113.8	0.9	0.83	1.1	0.0	126.444	0.791	0.811	112.1	0.8	8.38
9.52	111.8	0.9	0.84	1.1	0.0	124.222	0.805	0.812	110.0	0.8	8.62

10.93	109.9	0.96	0.97	1.2	0.0	114.479	0.874	0.953	108.4	0.9	9.29
10.94	109.2	0.96	0.96	1.2	0.0	113.75	0.879	0.954	107.7	0.9	9.38
10.95	107.5	0.96	0.97	1.2	0.0	111.979	0.893	0.955	105.9	0.9	9.63
10.96	106.7	0.96	0.97	1.2	0.0	111.146	0.9	0.956	105.1	0.9	9.73
10.97	105.5	0.96	0.96	1.2	0.0	109.89	0.91	0.957	103.9	0.9	9.89
10.98	103.7	0.97	0.95	1.2	0.0	106.907	0.935	0.958	102.2	1.0	10.17
10.99	99.2	0.97	0.94	1.2	0.0	102.268	0.978	0.959	97.7	1.0	10.84
11.00	99.2	0.97	0.94	1.2	0.0	102.268	0.978	0.96	97.7	1.0	10.84
11.01	99.2	0.97	0.94	1.2	0.0	102.268	0.978	0.961	97.7	1.0	10.84
11.02	91.9	0.8	0.97	1.2	0.0	114.875	0.871	0.962	90.2	0.9	10.79
11.03	91.1	0.81	0.98	1.2	0.0	112.469	0.863	0.963	89.5	0.9	10.96
11.04	90.4	0.81	0.98	1.2	0.0	111.605	0.886	0.964	88.8	0.9	11.09
11.05	89.6	0.82	0.98	1.2	0.0	109.268	0.915	0.965	88.1	0.9	11.28
11.06	88.7	0.82	0.98	1.2	0.0	108.171	0.924	0.966	87.2	1.0	11.44
11.07	88.5	0.82	0.98	1.2	0.0	107.927	0.927	0.967	87.0	1.0	11.49
11.08	88.4	0.81	0.98	1.2	0.0	109.136	0.916	0.968	86.8	1.0	11.49
11.09	88.5	0.81	0.98	1.2	0.0	109.259	0.915	0.969	87.0	0.9	11.43
11.10	88.7	0.81	0.98	1.2	0.0	109.506	0.913	0.97	87.2	0.9	11.36
11.11	88.8	0.8	0.98	1.2	0.0	111.0	0.901	0.971	87.3	0.9	11.32
11.12	89.2	0.8	0.98	1.2	0.0	111.5	0.897	0.972	87.7	0.9	11.22
11.13	90.3	0.79	0.99	1.2	0.0	114.304	0.875	0.973	88.7	0.9	10.93
11.14	91.1	0.78	0.98	1.2	0.0	116.795	0.856	0.974	89.5	0.9	10.74
11.15	93.4	0.78	0.99	1.2	0.0	119.744	0.833	0.975	91.8	0.9	10.33
11.16	95.0	0.77	0.99	1.2	0.0	123.377	0.815	0.976	93.4	0.8	10.05
11.17	96.9	0.77	0.99	1.2	0.0	125.844	0.795	0.977	95.3	0.8	9.77
11.18	99.1	0.77	0.99	1.2	0.0	128.701	0.775	0.978	97.6	0.8	9.42
11.19	104.7	0.77	1.00	1.2	0.0	135.974	0.735	0.979	103.2	0.8	8.61
11.20	107.6	0.76	1.00	1.3	0.0	141.579	0.706	0.98	106.0	0.7	8.23
11.21	110.2	0.76	1.00	1.3	0.0	145.0	0.69	0.981	108.6	0.7	7.89
11.22	114.6	0.76	1.00	1.2	0.0	150.789	0.663	0.982	113.1	0.7	7.37
11.23	116.7	0.76	1.00	1.2	0.0	153.553	0.651	0.983	115.1	0.7	7.14
11.24	118.8	0.76	1.00	1.2	0.0	156.316	0.64	0.984	117.3	0.7	6.93
11.25	121.2	0.76	1.00	1.2	0.0	159.474	0.627	0.985	119.6	0.7	6.72
11.26	126.0	0.77	1.00	1.3	0.0	163.636	0.611	0.986	124.4	0.6	6.31
11.27	128.3	0.78	1.01	1.3	0.0	164.487	0.608	0.987	126.7	0.6	6.13
11.28	131.2	0.78	1.01	1.3	0.0	168.205	0.595	0.988	129.6	0.6	5.88
11.29	131.4	0.77	1.03	1.3	0.0	170.649	0.586	0.989	129.8	0.6	5.83
11.30	131.8	0.8	1.01	1.2	0.0	164.75	0.607	0.99	130.2	0.6	5.93
11.31	132.0	0.81	1.00	1.3	0.0	162.963	0.614	0.991	130.4	0.6	5.98
11.32	131.3	0.84	1.01	1.3	0.0	156.31	0.64	0.992	129.7	0.7	6.23
11.33	129.9	0.86	1.01	1.3	0.0	151.047	0.662	0.993	128.4	0.7	6.46
11.34	127.7	0.87	1.00	1.3	0.0	146.782	0.681	0.994	126.1	0.7	6.77
11.35	120.6	0.91	0.99	1.3	0.0	132.527	0.755	0.995	119.0	0.8	7.72
11.36	116.7	0.93	1.00	1.3	0.0	125.484	0.797	0.996	115.1	0.8	8.26
11.37	113.0	0.94	1.00	1.3	0.0	120.213	0.832	0.997	111.4	0.9	8.8
11.38	109.6	0.96	1.00	1.2	0.0	114.167	0.876	0.998	108.1	0.9	9.33
11.39	104.7	0.99	1.01	1.3	0.0	105.758	0.946	0.999	103.2	1.0	10.19
11.40	103.0	1.0	1.01	1.3	0.0	103.0	0.971	1.0	101.4	1.0	10.55
11.41	100.2	1.02	1.01	1.3	0.0	98.235	1.018	1.001	98.6	1.1	11.09
11.42	99.2	1.03	1.01	1.3	0.0	96.311	1.038	1.002	97.7	1.1	11.26
11.43	98.4	1.02	1.01	1.3	0.0	96.471	1.037	1.003	96.8	1.1	11.38
11.44	97.6	1.02	1.02	1.3	0.0	95.686	1.045	1.004	96.0	1.1	11.47
11.45	97.0	1.01	1.02	1.3	0.0	96.04	1.041	1.005	95.4	1.1	11.54
11.46	96.5	1.0	1.02	1.3	0.0	96.5	1.036	1.006	94.9	1.1	11.51
11.47	96.5	0.99	1.01	1.3	0.0	97.475	1.026	1.007	94.9	1.1	11.44
11.48	96.5	0.96	1.02	1.3	0.0	100.521	0.995	1.008	94.9	1.0	11.23
11.49	96.5	0.96	1.02	1.3	0.0	100.521	0.995	1.009	94.9	1.0	11.23
11.50	96.8	0.92	1.02	1.3	0.0	105.217	0.95	1.017	95.2	1.0	10.93
11.51	97.0	0.91	1.02	1.3	0.0	106.953	0.938	1.011	95.4	1.0	10.78
11.52	97.2	0.88	1.03	1.3	0.0	110.455	0.905	1.012	95.6	0.9	10.58
11.53	97.3	0.88	1.02	1.3	0.0	110.568	0.904	1.013	95.7	0.9	10.51
11.54	97.7	0.87	1.03	1.3	0.0	112.299	0.89	1.014	96.1	0.9	10.37
11.55	98.3	0.85	1.03	1.3	0.0	115.647	0.865	1.015	96.7	0.9	10.27
11.56	98.6	0.85	1.03	1.3	0.0	116.0	0.862	1.016	97.1	0.9	10.08
11.57	99.2	0.84	1.03	1.3	0.0	118.095	0.847	1.017	97.7	0.9	9.96
11.58	99.7	0.84	1.03	1.3	0.0	118.69	0.843	1.018	98.2	0.9	9.85
11.59	101.5	0.83	1.03	1.3	0.0	122.289	0.818	1.019	99.9	0.8	9.55
11.60	102.5	0.83	1.03	1.3	0.0	123.494	0.81	1.02	100.9	0.8	9.38
11.61	103.0	0.82	1.03	1.3	0.0	125.61	0.796	1.021	101.4	0.8	9.28
11.62	102.9	0.82	1.03	1.3	0.0	125.488	0.797	1.022	101.3	0.8	9.27

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11.63	100.8	0.82	1.03	1.3	0.0	122.927	0.813	1.023	99.2	0.8	9.56
11.64	99.5	0.82	1.03	1.3	0.0	121.341	0.824	1.024	98.0	0.9	9.73
11.65	98.4	0.82	1.03	1.3	0.0	120.0	0.833	1.025	96.8	0.9	9.92
11.66	96.5	0.82	1.03	1.3	0.0	117.683	0.85	1.026	94.9	0.9	10.22
11.67	95.2	0.83	1.03	1.3	0.0	115.301	0.867	1.027	94.1	0.9	10.36
11.68	95.2	0.82	1.03	1.3	0.0	116.098	0.861	1.028	93.6	0.9	10.41
11.69	95.2	0.82	1.03	1.3	0.0	116.098	0.861	1.029	93.6	0.9	10.41
11.70	92.5	0.82	1.04	1.3	0.0	112.805	0.886	1.03	90.9	0.9	10.82
11.71	91.7	0.81	1.04	1.3	0.0	113.231	0.883	1.031	90.1	0.9	10.91
11.72	90.2	0.81	1.04	1.3	0.0	111.358	0.898	1.032	88.6	0.9	11.11
11.73	89.5	0.8	1.04	1.3	0.0	111.875	0.894	1.033	88.0	0.9	11.21
11.74	89.2	0.8	1.04	1.3	0.0	111.5	0.897	1.034	87.7	0.9	11.24
11.75	89.0	0.8	1.04	1.3	0.0	111.25	0.899	1.035	87.5	0.9	11.25
11.76	88.7	0.79	1.04	1.3	0.0	112.278	0.891	1.036	87.2	0.9	11.27
11.77	88.5	0.78	1.04	1.3	0.0	113.462	0.881	1.037	87.0	0.9	11.2
11.78	88.6	0.78	1.04	1.3	0.0	113.59	0.88	1.038	87.1	0.9	11.17
11.79	88.9	0.77	1.05	1.3	0.0	115.455	0.866	1.039	87.4	0.9	11.06
11.80	89.0	0.77	1.05	1.3	0.0	115.584	0.865	1.04	87.5	0.9	11.02
11.81	89.2	0.77	1.05	1.3	0.0	115.844	0.863	1.041	87.7	0.9	10.97
11.82	89.4	0.77	1.05	1.3	0.0	116.104	0.861	1.042	87.9	0.9	10.92
11.83	89.7	0.76	1.05	1.3	0.0	118.026	0.847	1.043	88.2	0.9	10.83
11.84	89.8	0.76	1.05	1.3	0.0	118.158	0.846	1.044	88.2	0.9	10.83
11.85	90.1	0.77	1.05	1.3	0.0	117.013	0.855	1.045	88.5	0.9	10.8
11.86	90.4	0.77	1.06	1.3	0.0	117.403	0.852	1.046	88.8	0.9	10.76
11.87	90.6	0.77	1.06	1.3	0.0	117.662	0.85	1.047	89.0	0.9	10.71
11.88	90.9	0.77	1.05	1.3	0.0	118.052	0.847	1.048	89.3	0.9	10.69
11.89	91.2	0.77	1.05	1.3	0.0	118.442	0.844	1.049	89.6	0.9	10.64
11.90	92.3	0.77	1.06	1.3	0.0	119.87	0.83	1.05	90.7	0.9	10.45
11.91	92.9	0.77	1.06	1.3	0.0	120.649	0.829	1.051	91.3	0.9	10.37
11.92	93.5	0.77	1.06	1.3	0.0	121.429	0.824	1.052	92.0	0.9	10.26
11.93	95.5	0.77	1.07	1.3	0.0	124.026	0.806	1.053	93.9	0.8	9.92
11.94	96.5	0.77	1.06	1.3	0.0	125.325	0.798	1.054	94.9	0.8	9.78
11.95	97.5	0.77	1.06	1.3	0.0	126.623	0.79	1.055	95.9	0.8	9.66
11.96	98.2	0.77	1.07	1.3	0.0	127.532	0.784	1.056	96.6	0.8	9.57
11.97	100.3	0.77	1.07	1.3	0.0	130.26	0.768	1.057	98.7	0.8	9.26
11.98	101.9	0.77	1.07	1.3	0.0	132.338	0.756	1.058	100.3	0.8	9.03
11.99	103.6	0.77	1.07	1.3	0.0	134.545	0.743	1.059	102.0	0.8	8.82
12.00	103.6	0.77	1.07	1.3	0.0	134.545	0.743	1.06	102.0	0.8	8.82
12.01	103.6	0.77	1.07	1.3	0.0	134.545	0.743	1.061	102.0	0.8	8.82
12.02	113.1	0.66	1.08	1.3	0.0	171.364	0.584	1.062	111.5	0.6	6.82
12.03	116.2	0.67	1.07	1.3	0.0	173.433	0.577	1.063	114.6	0.6	6.56
12.04	123.0	0.68	1.08	1.3	0.0	180.882	0.553	1.064	121.4	0.6	6.01
12.05	126.6	0.69	1.08	1.3	0.0	183.478	0.545	1.065	125.0	0.6	5.72
12.06	129.4	0.7	1.08	1.3	0.0	184.857	0.541	1.066	127.6	0.6	5.52
12.07	133.5	0.73	1.08	1.3	0.0	182.877	0.547	1.067	131.9	0.6	5.39
12.08	133.5	0.73	1.08	1.3	0.0	182.877	0.547	1.068	131.9	0.6	5.39
12.09	140.1	0.77	1.09	1.3	0.0	181.948	0.55	1.069	138.6	0.6	5.1
12.10	142.1	0.78	1.09	1.3	0.0	182.179	0.549	1.07	140.5	0.6	5
12.11	143.8	0.78	1.09	1.3	0.0	182.025	0.549	1.071	142.2	0.6	4.96
12.12	144.4	0.8	1.09	1.3	0.0	180.5	0.554	1.072	142.9	0.6	4.97
12.13	143.9	0.85	1.09	1.3	0.0	169.294	0.591	1.073	142.3	0.6	5.29
12.14	143.9	0.85	1.09	1.3	0.0	169.294	0.591	1.074	142.3	0.6	5.29
12.15	144.1	0.9	1.09	1.3	0.0	160.111	0.625	1.075	142.5	0.6	5.51
12.16	145.1	0.91	1.10	1.3	0.0	159.451	0.625	1.076	143.6	0.6	5.52
12.17	149.5	0.95	1.11	1.3	0.0	156.947	0.637	1.077	146.7	0.6	5.39
12.18	151.1	0.96	1.10	1.3	0.0	157.396	0.635	1.078	149.5	0.6	5.32
12.19	152.2	0.98	1.10	1.3	0.0	155.306	0.644	1.079	150.6	0.7	5.31
12.20	153.3	0.99	1.10	1.3	0.0	154.848	0.646	1.08	151.7	0.7	5.3
12.21	154.2	1.01	1.11	1.3	0.0	152.673	0.655	1.081	152.7	0.7	5.31
12.22	154.2	1.01	1.11	1.3	0.0	152.673	0.655	1.082	152.7	0.7	5.31
12.23	154.2	1.01	1.11	1.3	0.0	146.346	0.663	1.083	150.6	0.6	5.62
12.24	150.3	1.05	1.11	1.3	0.0	143.143	0.699	1.084	148.8	0.7	6.11
12.25	144.7	1.07	1.11	1.3	0.0	137.757	0.726	1.085	145.8	0.7	5.81
12.26	143.7	1.07	1.11	1.3	0.0	134.299	0.745	1.086	142.1	0.8	6.46
12.27	136.1	1.09	1.11	1.3	0.0	124.862	0.801	1.087	134.5	0.8	7.21
12.28	133.1	1.09	1.10	1.3	0.0	122.11	0.819	1.088	133.5	0.8	7.51
12.29	133.1	1.09	1.10	1.3	0.0	122.11	0.819	1.089	133.5	0.8	7.51
12.30	126.0	1.12	1.11	1.3	0.0	112.5	0.889	1.09	124.4	0.9	8.37
12.31	123.5	1.13	1.11	1.3	0.0	109.292	0.915	1.091	121.9	0.9	8.72
12.32	122.0	1.15	1.11	1.3	0.0	105.217	0.95	1.092	119.4	1.0	9.09

13,73	130,3	0,98	1,27	1,5	0,0	132,959	0,752	1,233	128,7	0,8	7,15
13,74	129,9	0,98	1,25	1,5	0,0	132,551	0,754	1,234	128,4	0,8	7,22
13,75	128,8	0,99	1,25	1,5	0,0	130,101	0,769	1,235	127,2	0,8	7,4
13,76	126,3	1,02	1,26	1,5	0,0	123,824	0,808	1,236	124,7	0,8	7,78
13,77	125,4	1,03	1,26	1,5	0,0	121,748	0,821	1,237	123,8	0,8	7,94
13,78	125,3	1,04	1,27	1,5	0,0	120,481	0,83	1,238	123,7	0,9	8,02
13,79	127,5	1,06	1,27	1,5	0,0	120,283	0,831	1,239	125,9	0,9	7,9
13,80	127,5	1,06	1,27	1,5	0,0	120,283	0,831	1,24	125,9	0,9	7,9
13,81	132,3	1,07	1,26	1,5	0,0	123,645	0,809	1,241	130,7	0,8	7,46
13,82	135,1	1,06	1,27	1,5	0,0	127,453	0,785	1,242	133,6	0,8	7,15
13,83	138,5	1,05	1,27	1,5	0,0	131,905	0,758	1,243	136,9	0,8	6,81
13,84	138,9	1,05	1,26	1,5	0,0	132,286	0,756	1,244	137,3	0,8	6,77
13,85	137,4	1,06	1,27	1,5	0,0	129,623	0,771	1,245	135,8	0,8	6,94
13,86	136,9	1,06	1,25	1,5	0,0	129,151	0,774	1,246	135,3	0,8	7
13,87	136,7	1,07	1,27	1,5	0,0	127,757	0,783	1,247	135,1	0,8	7,07
13,88	136,9	1,08	1,28	1,5	0,0	126,759	0,789	1,248	135,3	0,8	7,11
13,89	139,0	1,09	1,27	1,5	0,0	127,523	0,784	1,249	137,5	0,8	6,97
13,90	139,5	1,09	1,28	1,5	0,0	127,982	0,781	1,25	138,0	0,8	6,92
13,91	138,7	1,1	1,27	1,5	0,0	126,091	0,793	1,251	137,1	0,8	7,05
13,92	137,9	1,11	1,26	1,5	0,0	124,234	0,805	1,252	136,3	0,8	7,16
13,93	136,6	1,12	1,25	1,5	0,0	121,964	0,82	1,253	135,0	0,8	7,32
13,94	135,2	1,13	1,26	1,5	0,0	119,646	0,836	1,254	133,6	0,9	7,52
13,95	134,0	1,14	1,26	1,5	0,0	117,544	0,851	1,255	132,5	0,9	7,69
13,96	133,4	1,17	1,27	1,5	0,0	114,017	0,877	1,256	131,8	0,9	7,88
13,97	133,6	1,17	1,28	1,5	0,0	114,188	0,876	1,257	132,0	0,9	7,86
13,98	134,7	1,17	1,29	1,5	0,0	115,128	0,869	1,258	133,2	0,9	7,75
13,99	134,7	1,17	1,29	1,5	0,0	115,128	0,869	1,259	133,2	0,9	7,75
14,00	134,7	1,17	1,29	1,5	0,0	115,128	0,869	1,26	133,2	0,9	7,75
14,01	138,5	0,98	1,28	1,5	0,0	141,327	0,708	1,261	136,9	0,7	6,41
14,02	140,6	0,98	1,28	1,5	0,0	143,469	0,697	1,262	139,0	0,7	6,25
14,03	143,1	0,98	1,27	1,5	0,0	146,02	0,685	1,263	141,5	0,7	6,07
14,04	146,2	0,99	1,28	1,5	0,0	147,677	0,677	1,264	144,6	0,7	5,86
14,05	146,9	1,0	1,29	1,5	0,0	146,9	0,681	1,265	145,3	0,7	5,84
14,06	149,0	1,0	1,28	1,5	0,0	149,0	0,671	1,266	147,4	0,7	5,71
14,07	150,1	1,01	1,29	1,5	0,0	148,614	0,673	1,267	148,6	0,7	5,64
14,08	151,8	1,0	1,28	1,5	0,0	151,8	0,659	1,268	150,2	0,7	5,48
14,09	153,5	1,0	1,29	1,5	0,0	153,5	0,651	1,269	151,9	0,7	5,35
14,10	156,9	1,0	1,29	1,5	0,0	156,9	0,637	1,27	155,3	0,7	5,14
14,11	159,2	1,01	1,29	1,5	0,0	157,624	0,634	1,271	157,6	0,7	5
14,12	161,6	1,01	1,31	1,5	0,0	160,0	0,625	1,272	160,0	0,6	4,85
14,13	165,5	1,01	1,30	1,5	0,0	163,861	0,61	1,273	164,0	0,6	4,62
14,14	166,8	1,02	1,29	1,5	0,0	163,529	0,612	1,274	165,2	0,6	4,55
14,15	166,7	1,03	1,29	1,5	0,0	161,845	0,618	1,275	165,1	0,6	4,59
14,16	166,3	1,04	1,29	1,5	0,0	159,904	0,625	1,276	164,7	0,6	4,66
14,17	164,5	1,05	1,27	1,5	0,0	156,667	0,638	1,277	163,0	0,7	4,82
14,18	163,8	1,06	1,29	1,5	0,0	154,528	0,647	1,278	162,2	0,7	4,92
14,19	163,9	1,07	1,30	1,5	0,0	153,178	0,653	1,279	162,3	0,7	4,96
14,20	163,9	1,07	1,30	1,5	0,0	153,178	0,653	1,28	162,3	0,7	4,96
14,21	163,8	1,07	1,30	1,5	0,0	153,084	0,653	1,281	162,2	0,7	4,97
14,22	163,7	1,07	1,32	1,5	0,0	152,991	0,654	1,282	162,1	0,7	4,99
14,23	162,9	1,08	1,30	1,5	0,0	150,833	0,663	1,283	161,3	0,7	5,07
14,24	162,2	1,08	1,30	1,5	0,0	150,185	0,666	1,284	160,6	0,7	5,11
14,25	161,1	1,08	1,29	1,5	0,0	149,167	0,67	1,285	159,5	0,7	5,22
14,26	159,4	1,08	1,30	1,5	0,0	147,593	0,678	1,286	157,9	0,7	5,31
14,27	158,4	1,07	1,30	1,5	0,0	148,037	0,676	1,287	156,8	0,7	5,36
14,28	158,0	1,07	1,31	1,5	0,0	147,664	0,677	1,288	156,4	0,7	5,35
14,29	159,6	1,04	1,31	1,5	0,0	153,462	0,652	1,289	158,1	0,7	5,09
14,30	159,4	1,01	1,30	1,5	0,0	157,822	0,634	1,29	157,9	0,7	5,01
14,31	159,3	0,99	1,31	1,5	0,0	160,909	0,621	1,291	157,8	0,6	4,9
14,32	157,9	0,96	1,30	1,5	0,0	164,479	0,608	1,292	156,3	0,6	4,84
14,33	155,4	0,95	1,30	1,5	0,0	163,579	0,611	1,293	153,9	0,6	4,97
14,34	152,6	0,94	1,31	1,5	0,0	162,34	0,616	1,294	151,0	0,6	5,14
14,35	148,0	0,93	1,31	1,5	0,0	159,14	0,628	1,295	146,4	0,7	5,44
14,36	139,9	0,92	1,30	1,5	0,0	152,065	0,658	1,296	138,4	0,7	5,99
14,37	136,4	0,91	1,31	1,5	0,0	149,89	0,667	1,297	134,8	0,7	6,22
14,38	133,9	0,9	1,30	1,5	0,0	148,778	0,672	1,298	132,3	0,7	6,4
14,39	131,9	0,9	1,31	1,5	0,0	146,556	0,682	1,299	130,3	0,7	6,57
14,40	129,4	0,89	1,32	1,5	0,0	145,393	0,688	1,3	127,9	0,7	6,77
14,41	128,7	0,9	1,33	1,5	0,0	143,0	0,699	1,301	127,1	0,7	6,85
14,42	128,1	0,89	1,32	1,5	0,0	143,933	0,695	1,302	126,5	0,7	6,88

14.43	127.5	0.9	1.33	1.5	0.0	141.667	0.706	1.303	125.9	0.7	6.99
14.44	127.3	0.9	1.33	1.5	0.0	141.444	0.707	1.304	125.7	0.7	7.03
14.45	127.1	0.91	1.32	1.5	0.0	139.67	0.716	1.305	125.5	0.7	7.06
14.46	126.7	0.91	1.32	1.5	0.0	139.231	0.718	1.306	125.1	0.7	7.13
14.47	125.7	0.92	1.32	1.5	0.0	136.63	0.732	1.307	124.1	0.8	7.3
14.48	125.7	0.92	1.32	1.5	0.0	136.63	0.732	1.308	124.1	0.8	7.3
14.49	122.5	0.94	1.32	1.5	0.0	130.319	0.767	1.309	120.9	0.8	7.76
14.50	121.6	0.95	1.33	1.5	0.0	128.0	0.781	1.31	120.0	0.8	7.87
14.51	120.5	0.95	1.32	1.5	0.0	126.842	0.788	1.311	118.9	0.8	8.01
14.52	119.6	0.95	1.32	1.5	0.0	125.895	0.794	1.312	118.1	0.8	8.14
14.53	117.9	0.96	1.33	1.5	0.0	122.813	0.814	1.313	116.3	0.8	8.37
14.54	117.9	0.96	1.33	1.5	0.0	122.813	0.814	1.314	116.3	0.8	8.37
14.55	116.6	0.96	1.33	1.5	0.0	121.458	0.823	1.315	115.0	0.9	8.52
14.56	115.5	0.96	1.33	1.5	0.0	120.313	0.831	1.316	113.9	0.9	8.63
14.57	115.3	0.95	1.33	1.5	0.0	121.368	0.824	1.317	113.7	0.9	8.62
14.58	114.9	0.95	1.32	1.5	0.0	120.947	0.827	1.318	113.4	0.9	8.65
14.59	114.5	0.94	1.32	1.5	0.0	121.809	0.821	1.319	113.0	0.9	8.66
14.60	114.6	0.94	1.33	1.5	0.0	121.915	0.82	1.32	113.1	0.8	8.6
14.61	114.8	0.93	1.33	1.6	0.0	123.441	0.81	1.321	113.3	0.8	8.52
14.62	115.3	0.91	1.33	1.6	0.0	126.703	0.789	1.322	113.7	0.8	8.33
14.63	115.5	0.9	1.33	1.5	0.0	128.333	0.779	1.323	113.9	0.8	8.26
14.64	115.7	0.9	1.33	1.5	0.0	128.556	0.778	1.324	114.1	0.8	8.22
14.65	116.1	0.89	1.33	1.6	0.0	130.449	0.767	1.325	114.5	0.8	8.12
14.66	117.3	0.88	1.33	1.6	0.0	133.295	0.75	1.326	115.7	0.8	7.91
14.67	117.3	0.88	1.33	1.6	0.0	133.295	0.75	1.327	115.7	0.8	7.91
14.68	119.3	0.87	1.33	1.6	0.0	137.126	0.729	1.328	117.8	0.8	7.62
14.69	121.0	0.85	1.34	1.6	0.0	142.353	0.702	1.329	119.4	0.7	7.35
14.70	121.8	0.84	1.34	1.6	0.0	145.0	0.69	1.33	120.2	0.7	7.21
14.71	122.6	0.84	1.35	1.6	0.0	145.952	0.685	1.331	121.0	0.7	7.1
14.72	123.0	0.83	1.34	1.6	0.0	148.193	0.675	1.332	121.4	0.7	7.04
14.73	125.0	0.83	1.34	1.6	0.0	150.602	0.664	1.333	123.5	0.7	6.8
14.74	125.8	0.83	1.35	1.6	0.0	151.566	0.66	1.334	124.2	0.7	6.72
14.75	126.9	0.83	1.35	1.6	0.0	152.892	0.654	1.335	125.3	0.7	6.6
14.76	127.5	0.83	1.34	1.6	0.0	153.614	0.651	1.336	125.9	0.7	6.56
14.77	127.5	0.83	1.34	1.6	0.0	153.614	0.651	1.337	125.9	0.7	6.55
14.78	127.1	0.83	1.34	1.6	0.0	153.133	0.653	1.338	125.5	0.7	6.61
14.79	125.1	0.84	1.35	1.6	0.0	148.929	0.671	1.339	123.5	0.7	6.85
14.80	124.4	0.84	1.34	1.6	0.0	148.095	0.675	1.34	122.9	0.7	6.95
14.81	124.5	0.84	1.35	1.6	0.0	146.629	0.683	1.341	123.7	0.7	6.84
14.82	124.9	0.86	1.35	1.6	0.0	145.233	0.689	1.342	123.4	0.7	6.99
14.83	126.0	0.86	1.36	1.6	0.0	146.512	0.683	1.343	124.4	0.7	6.92
14.84	127.1	0.87	1.35	1.6	0.0	146.092	0.685	1.344	125.5	0.7	6.84
14.85	130.8	0.87	1.36	1.6	0.0	150.345	0.665	1.345	129.2	0.7	6.52
14.86	130.8	0.87	1.36	1.6	0.0	150.345	0.665	1.346	129.2	0.7	6.52
14.87	134.7	0.84	1.37	1.6	0.0	154.368	0.646	1.347	134.8	0.6	6.19
14.88	135.4	0.88	1.38	1.6	0.0	153.864	0.65	1.348	133.7	0.7	6.16
14.89	134.4	0.89	1.37	1.6	0.0	151.011	0.662	1.349	132.9	0.7	6.3
14.90	133.4	0.9	1.37	1.6	0.0	148.222	0.675	1.35	131.8	0.7	6.45
14.91	132.5	0.91	1.37	1.6	0.0	145.804	0.687	1.351	130.9	0.7	6.6
14.92	132.2	0.92	1.37	1.6	0.0	140.638	0.71	1.352	129.6	0.7	6.76
14.93	132.7	0.94	1.37	1.6	0.0	141.17	0.708	1.353	131.1	0.7	6.76
14.94	133.7	0.96	1.38	1.6	0.0	139.271	0.718	1.354	132.1	0.7	6.77
14.95	130.7	0.98	1.38	1.7	0.0	139.796	0.715	1.355	134.5	0.7	6.59
14.96	139.2	1.0	1.37	1.7	0.0	139.2	0.718	1.356	137.7	0.7	6.46
14.97	141.3	1.0	1.38	1.7	0.0	141.3	0.708	1.357	139.7	0.7	6.33
14.98	142.9	1.0	1.37	1.7	0.0	140.098	0.71	1.358	141.3	0.7	6.26
14.99	144.0	1.01	1.38	1.7	0.0	142.574	0.701	1.359	144.2	0.7	6.12
15.00	145.3	1.01	1.38	1.7	0.0	143.861	0.695	0.0	144.3	0.7	6.02

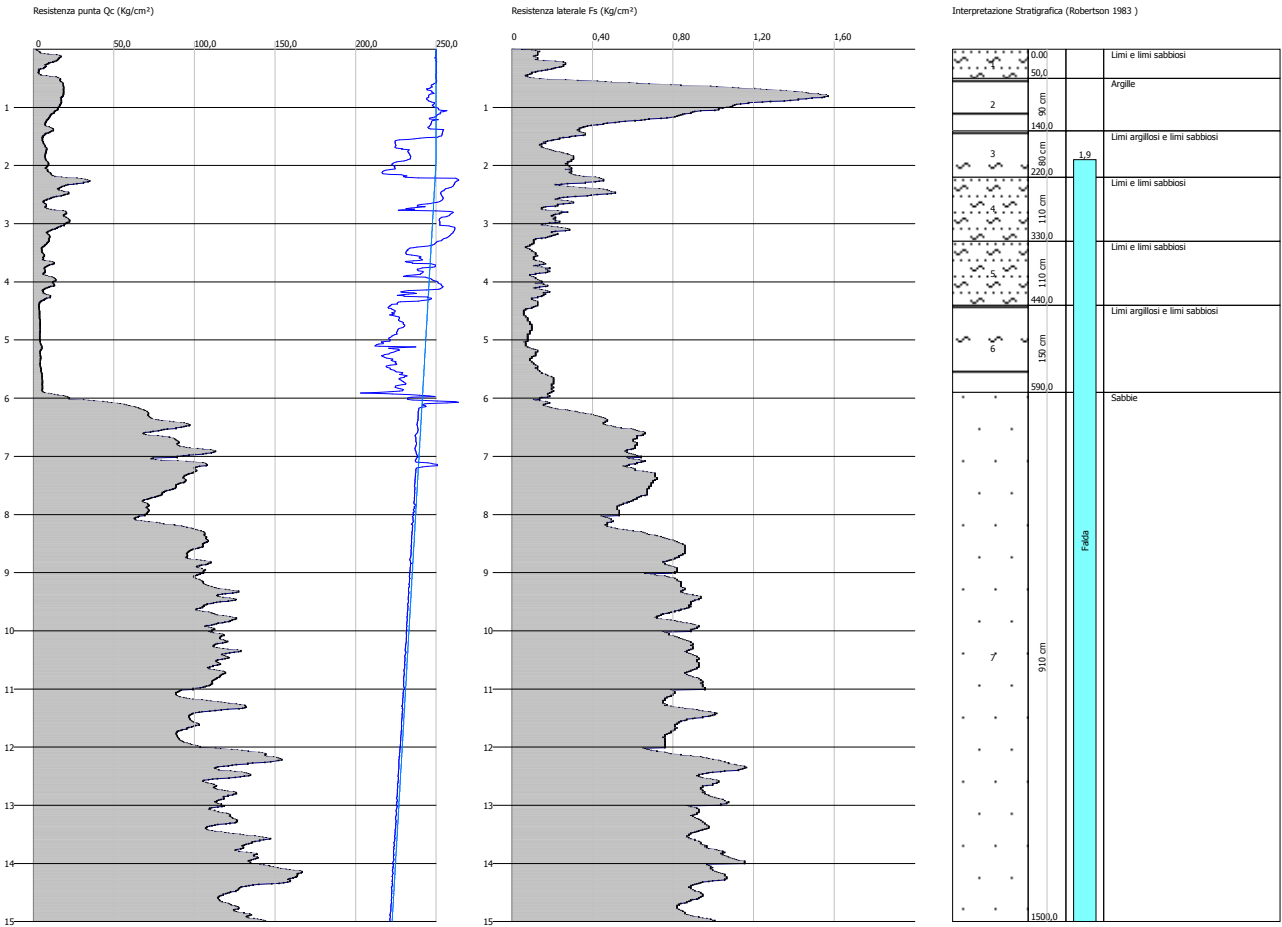
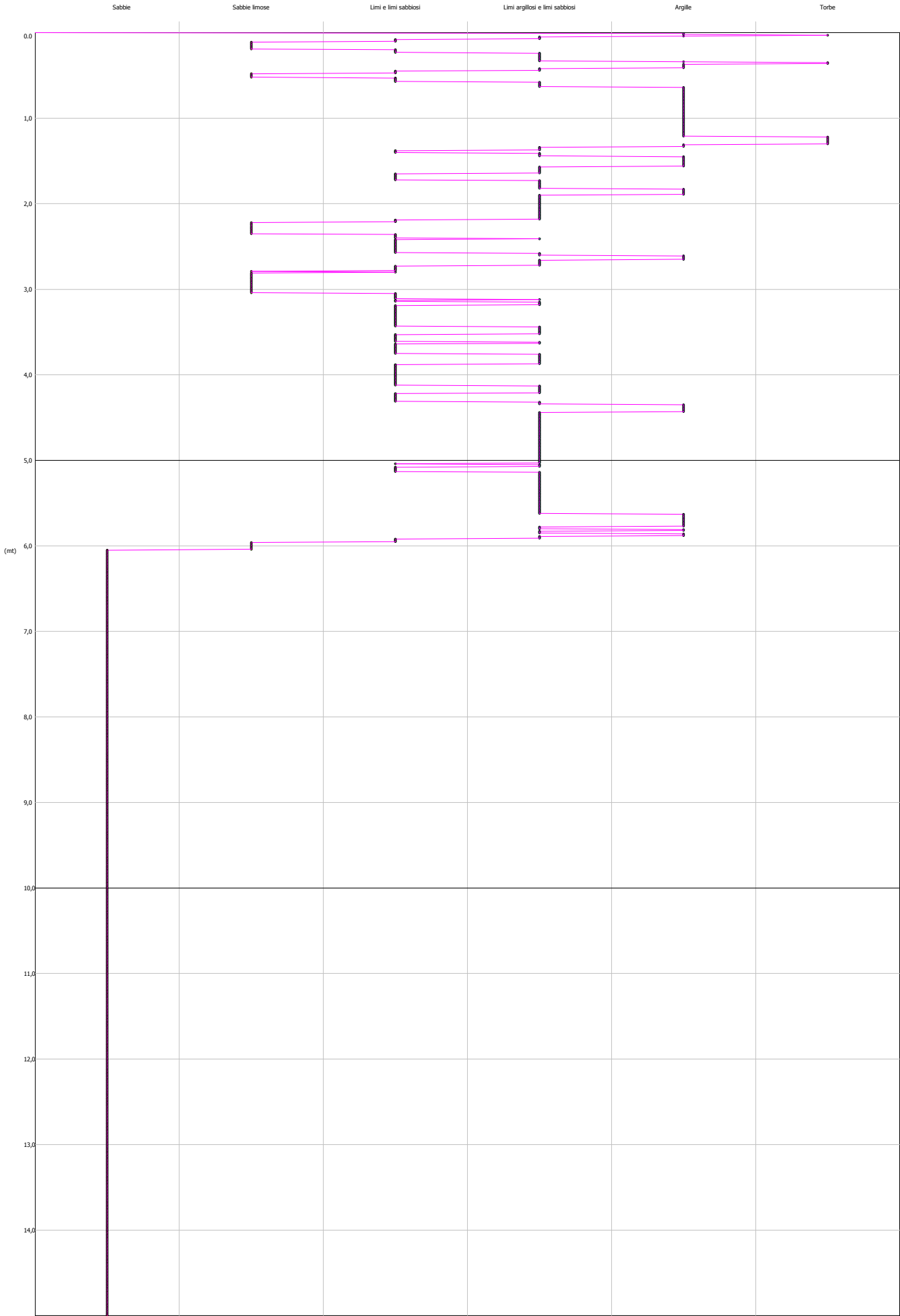


GRAFICO PROFONDITA' / VALUTAZIONI LITOLOGICHE (Robertson 1983)
PROVA: CPTU 5



STIMA PARAMETRI GEOTECNICI - CPTU 5

TERRENI COESIV I

Coesione non drenata

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Cu (Kg/cm²)
Strato 1	0,50	8,7	0,15	0,05	0,05	Terzaghi	0,43
Strato 2	1,40	14,6	0,92	0,18	0,18	Terzaghi	0,73
Strato 3	2,20	8,2	0,27	0,34	0,3	Terzaghi	0,41
Strato 4	3,30	16,2	0,27	0,51	0,38	Terzaghi	0,81
Strato 5	4,40	8,1	0,13	0,72	0,47	Terzaghi	0,41
Strato 6	5,90	4,6	0,12	0,94	0,57	Terzaghi	0,23

Modulo Edometrico

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Eed (Kg/cm²)
Strato 1	0,50	8,7	0,15	0,05	0,05	Metodo generale del modulo Edometrico	40,43
Strato 2	1,40	14,6	0,92	0,18	0,18	Metodo generale del modulo Edometrico	48,43
Strato 3	2,20	8,2	0,27	0,34	0,3	Metodo generale del modulo Edometrico	39,04
Strato 4	3,30	16,2	0,27	0,51	0,38	Metodo generale del modulo Edometrico	47,89
Strato 5	4,40	8,1	0,13	0,72	0,47	Metodo generale del modulo Edometrico	38,74
Strato 6	5,90	4,6	0,12	0,94	0,57	Metodo generale del modulo Edometrico	25,63

Modulo di deformazione non drenato Eu

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Eu (Kg/cm²)
Strato 1	0,50	8,7	0,2	0,05	0,05	Cancelli 1980	324,54
Strato 2	1,40	14,6	0,9	0,18	0,18	Cancelli 1980	540,86
Strato 3	2,20	8,2	0,3	0,34	0,3	Cancelli 1980	296,43
Strato 4	3,30	16,2	0,3	0,51	0,38	Cancelli 1980	593,31
Strato 5	4,40	8,1	0,1	0,72	0,47	Cancelli	286,02

Strato 6	5,90	4,6	0,1	0,94	0,57	1980 Cancelli 1980	151,15
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Modulo di deformazione a taglio

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Modulo di deformazion e a taglio (Kg/cm²)
Strato 1	0,50	8,7	0,15	0,05	0,05	Imai & Tomauchi	105,0
Strato 2	1,40	14,6	0,92	0,18	0,18	Imai & Tomauchi	144,07
Strato 3	2,20	8,2	0,27	0,34	0,3	Imai & Tomauchi	101,27
Strato 4	3,30	16,2	0,27	0,51	0,38	Imai & Tomauchi	153,52
Strato 5	4,40	8,1	0,13	0,72	0,47	Imai & Tomauchi	100,52
Strato 6	5,90	4,6	0,12	0,94	0,57	Imai & Tomauchi	71,14

Grado di sovraconsolidazione

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Ocr
Strato 1	0,50	8,7	0,15	0,05	0,05	P.W.Mayne 1991	3,85
Strato 2	1,40	14,6	0,92	0,18	0,18	P.W.Mayne 1991	6,8
Strato 3	2,20	8,2	0,27	0,34	0,3	P.W.Mayne 1991	4,01
Strato 4	3,30	16,2	0,27	0,51	0,38	P.W.Mayne 1991	9
Strato 5	4,40	8,1	0,13	0,72	0,47	P.W.Mayne 1991	5
Strato 6	5,90	4,6	0,12	0,94	0,57	P.W.Mayne 1991	2,44

Peso unità di volume

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	Correlazione	Peso unità di volume (t/m³)
Strato 1	0,50	8,7	0,15	0,05	0,05	Meyerhof	1,83
Strato 2	1,40	14,6	0,92	0,18	0,18	Meyerhof	1,92
Strato 3	2,20	8,2	0,27	0,34	0,3	Meyerhof	1,82
Strato 4	3,30	16,2	0,27	0,51	0,38	Meyerhof	1,93
Strato 5	4,40	8,1	0,13	0,72	0,47	Meyerhof	1,81
Strato 6	5,90	4,6	0,12	0,94	0,57	Meyerhof	1,7

Fattori di compressibilità C Crm

	Prof. Strato (m)	qc (Kg/cm²)	fs (Kg/cm²)	Tensione litostatica totale (Kg/cm²)	Tensione litostatica efficace (Kg/cm²)	C	Crm
Strato 1	0,50	8,7	0,15	0,05	0,05	0,21987	0,02858
Strato 2	1,40	14,6	0,92	0,18	0,18	0,1581	0,02055

Strato 3	2,20	8,2	0,27	0,34	0,3	0,2292	0,0298
Strato 4	3,30	16,2	0,27	0,51	0,38	0,1491	0,01938
Strato 5	4,40	8,1	0,13	0,72	0,47	0,2312	0,03006
Strato 6	5,90	4,6	0,12	0,94	0,57	0,35613	0,0463

Peso unità di volume saturo

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Peso unità di volume saturo (t/m ³)
Strato 1	0,50	8,7	0,15	0,05	0,05	Meyerhof	1,91
Strato 2	1,40	14,6	0,92	0,18	0,18	Meyerhof	2,0
Strato 3	2,20	8,2	0,27	0,34	0,3	Meyerhof	1,9
Strato 4	3,30	16,2	0,27	0,51	0,38	Meyerhof	2,01
Strato 5	4,40	8,1	0,13	0,72	0,47	Meyerhof	1,89
Strato 6	5,90	4,6	0,12	0,94	0,57	Meyerhof	1,78

Velocità onde di taglio

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Vs (m/s)
Strato 1	0,50	8,7	0,15	0,05	0,05	Jamiolkowski i et al 1985	204,63
Strato 2	1,40	14,6	0,92	0,18	0,18	Jamiolkowski i et al 1985	226,84
Strato 3	2,20	8,2	0,27	0,34	0,3	Jamiolkowski i et al 1985	202,23
Strato 4	3,30	16,2	0,27	0,51	0,38	Jamiolkowski i et al 1985	231,58
Strato 5	4,40	8,1	0,13	0,72	0,47	Jamiolkowski i et al 1985	201,74
Strato 6	5,90	4,6	0,12	0,94	0,57	Jamiolkowski i et al 1985	180,26

TERRENI INCOERENT I

Densità relativa

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Densità relativa (%)
Strato 1	0,50	8,7	0,15	0,05	0,05	Baldi 1978 - Schmertman n 1976	40,4
Strato 3	2,20	8,2	0,27	0,34	0,3	Baldi 1978 - Schmertman n 1976	12,14
Strato 4	3,30	16,2	0,27	0,51	0,38	Baldi 1978 - Schmertman n 1976	27,97
Strato 5	4,40	8,1	0,13	0,72	0,47	Baldi 1978 - Schmertman n 1976	5,1
Strato 6	5,90	4,6	0,12	0,94	0,57	Baldi 1978 - Schmertman n 1976	5,0
Strato 7	15,00	107,3	0,81	2,1	1,19	Baldi 1978 - Schmertman n 1976	65,41

Angolo di resistenza al taglio

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Angolo d'attrito (°)
Strato 1	0,50	8,7	0,15	0,05	0,05	Caquot	35,86
Strato 3	2,20	8,2	0,27	0,34	0,3	Caquot	26,29
Strato 4	3,30	16,2	0,27	0,51	0,38	Caquot	28,44
Strato 5	4,40	8,1	0,13	0,72	0,47	Caquot	23,89
Strato 6	5,90	4,6	0,12	0,94	0,57	Caquot	20,16
Strato 7	15,00	107,3	0,81	2,1	1,19	Caquot	32,13

Modulo di Young

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Modulo di Young (Kg/cm ²)
Strato 1	0,50	8,7	0,15	0,05	0,05	Robertson & Campanella 1983	17,4
Strato 3	2,20	8,2	0,27	0,34	0,3	Robertson & Campanella 1983	16,4
Strato 4	3,30	16,2	0,27	0,51	0,38	Robertson & Campanella 1983	32,4
Strato 5	4,40	8,1	0,13	0,72	0,47	Robertson & Campanella 1983	16,2
Strato 6	5,90	4,6	0,12	0,94	0,57	Robertson & Campanella 1983	9,2
Strato 7	15,00	107,3	0,81	2,1	1,19	Robertson & Campanella 1983	214,6

Modulo Edometrico

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Modulo Edometrico (Kg/cm ²)
Strato 1	0,50	8,7	0,15	0,05	0,05	Robertson & Campanella da Schmertmann	51,75
Strato 3	2,20	8,2	0,27	0,34	0,3	Robertson & Campanella da Schmertmann	13,2
Strato 4	3,30	16,2	0,27	0,51	0,38	Robertson & Campanella da Schmertmann	28,83
Strato 5	4,40	8,1	0,13	0,72	0,47	Robertson & Campanella da Schmertmann	9,73
Strato 6	5,90	4,6	0,12	0,94	0,57	Robertson & Campanella da Schmertmann	10,75
Strato 7	15,00	107,3	0,81	2,1	1,19	Robertson & Campanella da	71,37

Schmertmann

Modulo di deformazione a taglio

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	G (Kg/cm ²)
Strato 1	0,50	8,7	0,15	0,05	0,05	Imai & Tomauchi	105,0
Strato 3	2,20	8,2	0,27	0,34	0,3	Imai & Tomauchi	101,27
Strato 4	3,30	16,2	0,27	0,51	0,38	Imai & Tomauchi	153,52
Strato 5	4,40	8,1	0,13	0,72	0,47	Imai & Tomauchi	100,52
Strato 6	5,90	4,6	0,12	0,94	0,57	Imai & Tomauchi	71,14
Strato 7	15,00	107,3	0,81	2,1	1,19	Imai & Tomauchi	487,37

Grado di sovraconsolidazione

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Ocr
Strato 1	0,50	8,7	0,15	0,05	0,05	Piacentini Righi 1978	>9
Strato 3	2,20	8,2	0,27	0,34	0,3	Piacentini Righi 1978	8,19
Strato 4	3,30	16,2	0,27	0,51	0,38	Piacentini Righi 1978	8,03
Strato 5	4,40	8,1	0,13	0,72	0,47	Piacentini Righi 1978	3,09
Strato 6	5,90	4,6	0,12	0,94	0,57	Piacentini Righi 1978	1,95
Strato 7	15,00	107,3	0,81	2,1	1,19	Piacentini Righi 1978	>9

Modulo di reazione Ko

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Ko
Strato 1	0,50	8,7	0,15	0,05	0,05	Kulhawy & Mayne (1990)	0,92
Strato 3	2,20	8,2	0,27	0,34	0,3	Kulhawy & Mayne (1990)	0,26
Strato 4	3,30	16,2	0,27	0,51	0,38	Kulhawy & Mayne (1990)	0,35
Strato 5	4,40	8,1	0,13	0,72	0,47	Kulhawy & Mayne (1990)	0,00
Strato 6	5,90	4,6	0,12	0,94	0,57	Kulhawy & Mayne (1990)	0,00
Strato 7	15,00	107,3	0,81	2,1	1,19	Kulhawy & Mayne (1990)	0,57

Mayne
(1990)

Fattori di compressibilità C Crm

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	C	Crm
Strato 1	0,50	8,7	0,15	0,05	0,05	0,21987	0,02858
Strato 3	2,20	8,2	0,27	0,34	0,3	0,2292	0,0298
Strato 4	3,30	16,2	0,27	0,51	0,38	0,1491	0,01938
Strato 5	4,40	8,1	0,13	0,72	0,47	0,2312	0,03006
Strato 6	5,90	4,6	0,12	0,94	0,57	0,35613	0,0463
Strato 7	15,00	107,3	0,81	2,1	1,19	0,0941	0,01223

Peso unità di volume

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Peso unità di volume (t/m ³)
Strato 1	0,50	8,7	0,15	0,05	0,05	Meyerhof	1,8
Strato 3	2,20	8,2	0,27	0,34	0,3	Meyerhof	1,8
Strato 4	3,30	16,2	0,27	0,51	0,38	Meyerhof	1,8
Strato 5	4,40	8,1	0,13	0,72	0,47	Meyerhof	1,9
Strato 6	5,90	4,6	0,12	0,94	0,57	Meyerhof	1,8
Strato 7	15,00	107,3	0,81	2,1	1,19	Meyerhof	1,9

Peso unità di volume saturo

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Peso unità di volume saturo (t/m ³)
Strato 1	0,50	8,7	0,15	0,05	0,05	Meyerhof	2,1
Strato 3	2,20	8,2	0,27	0,34	0,3	Meyerhof	2,1
Strato 4	3,30	16,2	0,27	0,51	0,38	Meyerhof	2,1
Strato 5	4,40	8,1	0,13	0,72	0,47	Meyerhof	2,2
Strato 6	5,90	4,6	0,12	0,94	0,57	Meyerhof	2,1
Strato 7	15,00	107,3	0,81	2,1	1,19	Meyerhof	2,2

Liquefazione - Accelerazione sismica massima (g)=0,2

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Fattore di sicurezza a liquefazione
Strato 3	2,20	8,2	0,27	0,34	0,3	Robertson & Wride 1997	0,652
Strato 4	3,30	16,2	0,27	0,51	0,38	Robertson & Wride 1997	0,77
Strato 5	4,40	8,1	0,13	0,72	0,47	Robertson & Wride 1997	0,397
Strato 6	5,90	4,6	0,12	0,94	0,57	Robertson & Wride 1997	0,308
Strato 7	15,00	107,3	0,81	2,1	1,19	Robertson & Wride 1997	7,796

Velocità onde di taglio.

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica	Tensione litostatica	Correlazione	Vs (m/s)
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				totale (Kg/cm ²)	efficace (Kg/cm ²)		
Strato 1	0,50	8,7	0,15	0,05	0,05	Jamiolkowski et al 1985	232,17
Strato 3	2,20	8,2	0,27	0,34	0,3	Jamiolkowski et al 1985	228,97
Strato 4	3,30	16,2	0,27	0,51	0,38	Jamiolkowski et al 1985	268,70
Strato 5	4,40	8,1	0,13	0,72	0,47	Jamiolkowski et al 1985	228,31
Strato 6	5,90	4,6	0,12	0,94	0,57	Jamiolkowski et al 1985	199,88
Strato 7	15,00	107,3	0,81	2,1	1,19	Jamiolkowski et al 1985	419,00

Permeabilità


	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	K (cm/s)
Strato 1	0,50	8,7	0,15	0,05	0,05	Piacentini-Righi 1988	1,40E-03
Strato 2	1,40	14,6	0,92	0,18	0,18	Piacentini-Righi 1988	1,00E-11
Strato 3	2,20	8,2	0,27	0,34	0,3	Piacentini-Righi 1988	3,03E-06
Strato 4	3,30	16,2	0,27	0,51	0,38	Piacentini-Righi 1988	1,72E-03
Strato 5	4,40	8,1	0,13	0,72	0,47	Piacentini-Righi 1988	2,21E-03
Strato 6	5,90	4,6	0,12	0,94	0,57	Piacentini-Righi 1988	4,73E-05
Strato 7	15,00	107,3	0,81	2,1	1,19	Piacentini-Righi 1988	1,00E-03

Coefficiente di consolidazione

	Prof. Strato (m)	qc (Kg/cm ²)	fs (Kg/cm ²)	Tensione litostatica totale (Kg/cm ²)	Tensione litostatica efficace (Kg/cm ²)	Correlazione	Coefficiente di consolidazione (cm ² /s)
Strato 1	0,50	8,7	0,15	0,05	0,05	Piacentini-Righi 1988	0
Strato 2	1,40	14,6	0,92	0,18	0,18	Piacentini-Righi 1988	4,38E-07
Strato 3	2,20	8,2	0,27	0,34	0,3	Piacentini-Righi 1988	7,464828E-02
Strato 4	3,30	16,2	0,27	0,51	0,38	Piacentini-Righi 1988	0
Strato 5	4,40	8,1	0,13	0,72	0,47	Piacentini-Righi 1988	0
Strato 6	5,90	4,6	0,12	0,94	0,57	Piacentini-Righi 1988	0,6522699
Strato 7	15,00	107,3	0,81	2,1	1,19	Piacentini-Righi 1988	0

Allegato 2

Report verifica a liquefazione



LIQUEFACTION ANALYSIS REPORT

Location :

Project title :
CPT file : CPTU 3

Input parameters and analysis data

Analysis method: B&I (2014) G.W.T. (m-slu): 1.30 m Use fill: No
Fines correction method: B&I (2014) G.W.T. (earthq.): 1.00 m Fill height: N/A
Points to test: Based on Ic value Average results interval: 5 Trans. detect. applied: Yes
Earthquake magnitude M_w : 6.14 Ic cut-off value: 2.60 K_s applied: Yes
Peak ground acceleration: 0.17 Unit weight calculation: Based on SBT MSF method: Method based

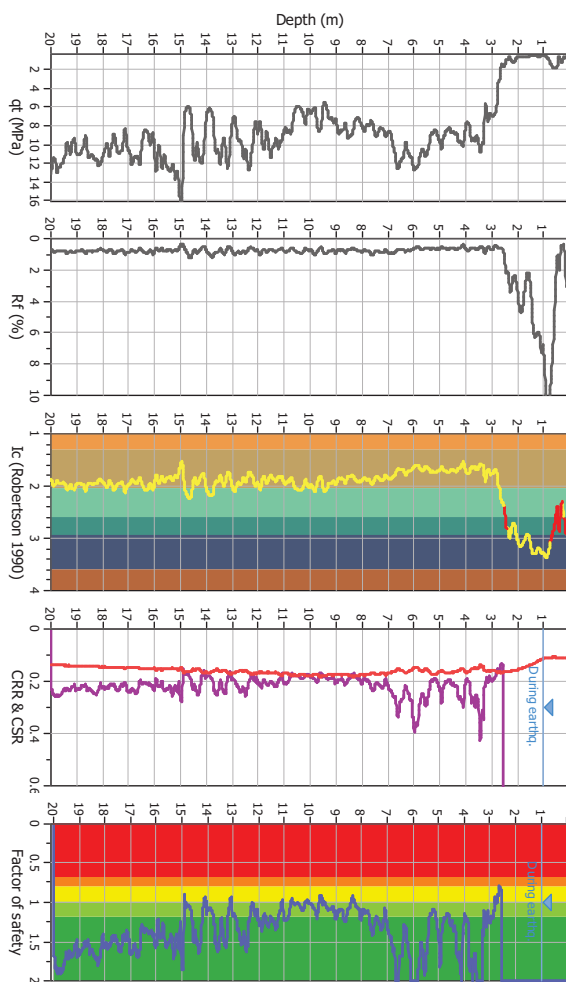
Cone resistance

Friction Ratio

SBTn Plot

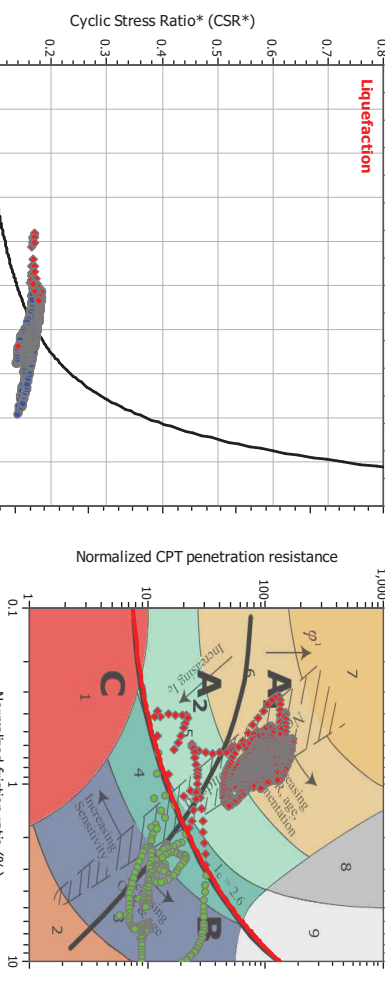
CRR Plot

FS Plot



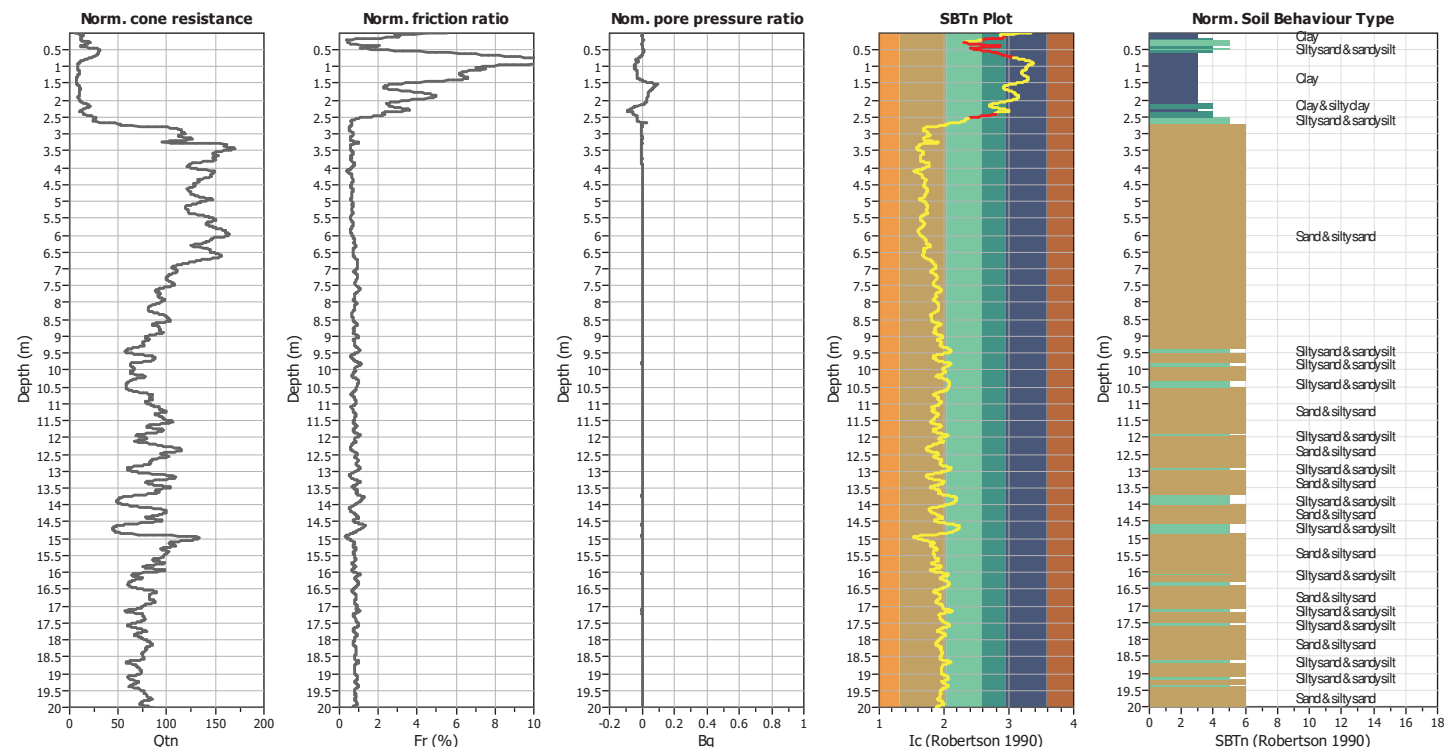
$M_w = 7^{1/2}$, $\sigma_{vm} = 1$ atm base curve

Summary of liquefaction potential



Zone A: Cyclic liquefaction likely depending on size and duration of cyclic loading geometry
Zone A₂: Cyclic liquefaction and strength loss likely depending on loading and ground
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots (normalized)



Input parameters and analysis data

Analysis method: B&I (2014)
Fines correction method: B&I (2014)
Points to test: Based on Ic value
Earthquake magnitude M_w : 6.14
Peak ground acceleration: 0.17
Depth to water table (insitu): 1.30 m

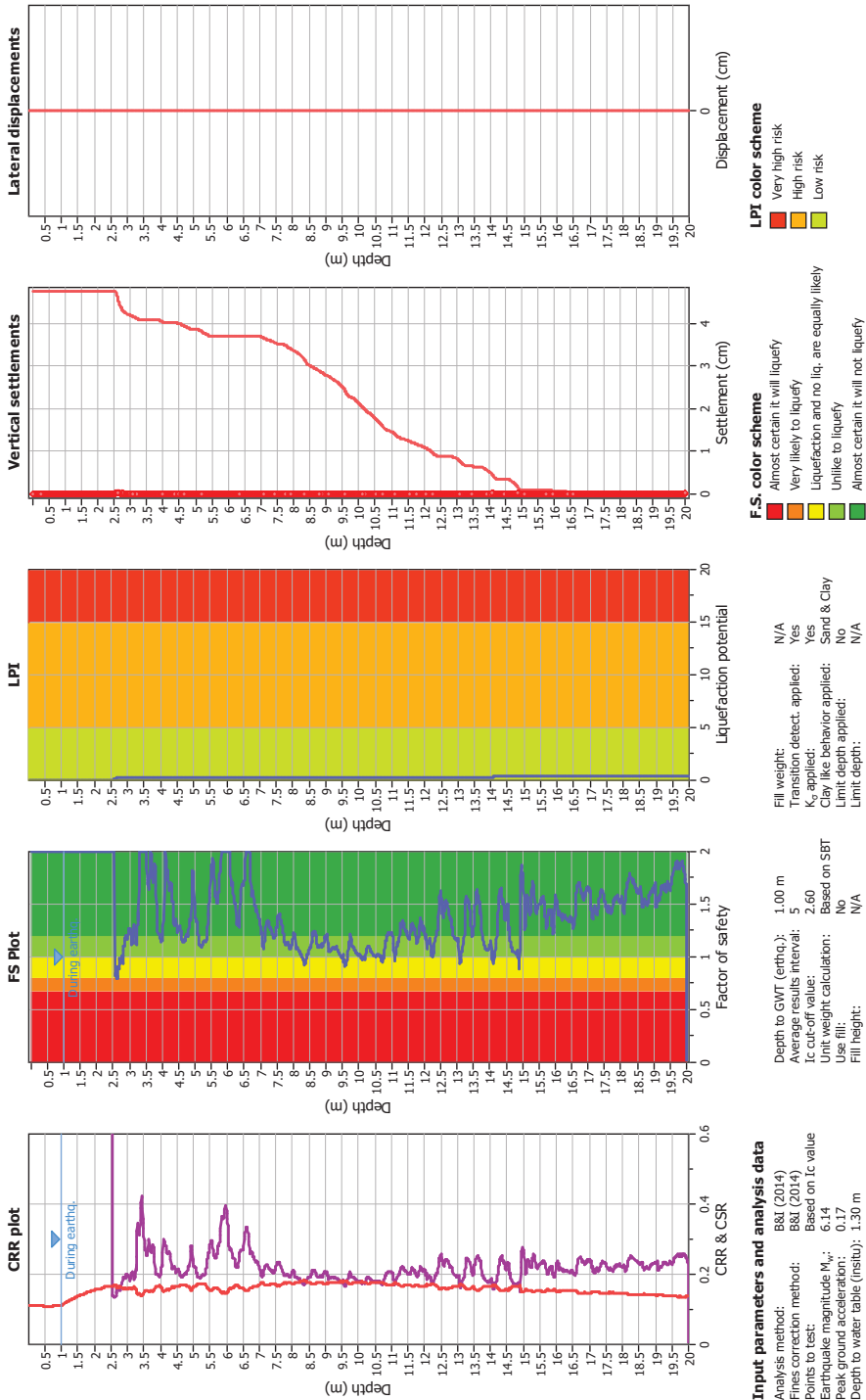
Depth to GWT (earthq.): 1.00 m
Average results interval: 5
Ic cut-off value: 2.60
Unit weight calculation: Based on SBT
Use fill: No
Fill height: N/A

Fill weight: N/A
Transition detect. applied: Yes
 K_s applied: Yes
Clay like behavior applied: Sand & Clay
Limit depth applied: No
Limit depth: N/A

SBTn legend

- 1. Sensitive fine grained
- 2. Organic material
- 3. Clay to silty clay
- 4. Clayey silt to silty
- 5. Silty sand to sandy silt
- 6. Clean sand to silty sand
- 7. Gravely sand to sand
- 8. Very stiff sand to
- 9. Very stiff fine grained

Liquefaction analysis overall plots



CLiQ v1.7.6.49 - CPT Liquefaction Assessment Software - Report created on: 19/10/2020, 16:05:55

Project file: C:\Users\silvia\Desktop\liquef_ampl_biopig.ciq

:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
0.01	2.00	0.00	9.99	0.01	0.00	0.02	2.00	0.00	9.99	0.01	0.00
0.03	2.00	0.00	9.98	0.01	0.00	0.04	2.00	0.00	9.98	0.01	0.00
0.05	2.00	0.00	9.97	0.01	0.00	0.06	2.00	0.00	9.97	0.01	0.00
0.07	2.00	0.00	9.96	0.01	0.00	0.08	2.00	0.00	9.96	0.01	0.00
0.09	2.00	0.00	9.96	0.01	0.00	0.10	2.00	0.00	9.95	0.01	0.00
0.11	2.00	0.00	9.95	0.01	0.00	0.12	2.00	0.00	9.94	0.01	0.00
0.13	2.00	0.00	9.94	0.01	0.00	0.14	2.00	0.00	9.93	0.01	0.00
0.15	2.00	0.00	9.93	0.01	0.00	0.16	2.00	0.00	9.92	0.01	0.00
0.17	2.00	0.00	9.91	0.01	0.00	0.18	2.00	0.00	9.91	0.01	0.00
0.19	2.00	0.00	9.90	0.01	0.00	0.20	2.00	0.00	9.90	0.01	0.00
0.21	2.00	0.00	9.89	0.01	0.00	0.22	2.00	0.00	9.89	0.01	0.00
0.23	2.00	0.00	9.88	0.01	0.00	0.24	2.00	0.00	9.88	0.01	0.00
0.25	2.00	0.00	9.88	0.01	0.00	0.26	2.00	0.00	9.87	0.01	0.00
0.27	2.00	0.00	9.87	0.01	0.00	0.28	2.00	0.00	9.86	0.01	0.00
0.29	2.00	0.00	9.86	0.01	0.00	0.30	2.00	0.00	9.85	0.01	0.00
0.31	2.00	0.00	9.85	0.01	0.00	0.32	2.00	0.00	9.84	0.01	0.00
0.33	2.00	0.00	9.84	0.01	0.00	0.34	2.00	0.00	9.83	0.01	0.00
0.35	2.00	0.00	9.82	0.01	0.00	0.36	2.00	0.00	9.82	0.01	0.00
0.37	2.00	0.00	9.81	0.01	0.00	0.38	2.00	0.00	9.81	0.01	0.00
0.39	2.00	0.00	9.80	0.01	0.00	0.40	2.00	0.00	9.80	0.01	0.00
0.41	2.00	0.00	9.79	0.01	0.00	0.42	2.00	0.00	9.79	0.01	0.00
0.43	2.00	0.00	9.79	0.01	0.00	0.44	2.00	0.00	9.78	0.01	0.00
0.45	2.00	0.00	9.78	0.01	0.00	0.46	2.00	0.00	9.77	0.01	0.00
0.47	2.00	0.00	9.77	0.01	0.00	0.48	2.00	0.00	9.76	0.01	0.00
0.49	2.00	0.00	9.76	0.01	0.00	0.50	2.00	0.00	9.75	0.01	0.00
0.51	2.00	0.00	9.74	0.01	0.00	0.52	2.00	0.00	9.74	0.01	0.00
0.53	2.00	0.00	9.73	0.01	0.00	0.54	2.00	0.00	9.73	0.01	0.00
0.55	2.00	0.00	9.72	0.01	0.00	0.56	2.00	0.00	9.72	0.01	0.00
0.57	2.00	0.00	9.71	0.01	0.00	0.58	2.00	0.00	9.71	0.01	0.00
0.59	2.00	0.00	9.71	0.01	0.00	0.60	2.00	0.00	9.70	0.01	0.00
0.61	2.00	0.00	9.70	0.01	0.00	0.62	2.00	0.00	9.69	0.01	0.00
0.63	2.00	0.00	9.69	0.01	0.00	0.64	2.00	0.00	9.68	0.01	0.00
0.65	2.00	0.00	9.68	0.01	0.00	0.66	2.00	0.00	9.67	0.01	0.00
0.67	2.00	0.00	9.66	0.01	0.00	0.68	2.00	0.00	9.66	0.01	0.00
0.69	2.00	0.00	9.65	0.01	0.00	0.70	2.00	0.00	9.65	0.01	0.00
0.71	2.00	0.00	9.64	0.01	0.00	0.72	2.00	0.00	9.64	0.01	0.00
0.73	2.00	0.00	9.63	0.01	0.00	0.74	2.00	0.00	9.63	0.01	0.00
0.75	2.00	0.00	9.63	0.01	0.00	0.76	2.00	0.00	9.62	0.01	0.00
0.77	2.00	0.00	9.62	0.01	0.00	0.78	2.00	0.00	9.61	0.01	0.00
0.79	2.00	0.00	9.61	0.01	0.00	0.80	2.00	0.00	9.60	0.01	0.00
0.81	2.00	0.00	9.60	0.01	0.00	0.82	2.00	0.00	9.59	0.01	0.00
0.83	2.00	0.00	9.59	0.01	0.00	0.84	2.00	0.00	9.58	0.01	0.00
0.85	2.00	0.00	9.57	0.01	0.00	0.86	2.00	0.00	9.57	0.01	0.00
0.87	2.00	0.00	9.56	0.01	0.00	0.88	2.00	0.00	9.56	0.01	0.00
0.89	2.00	0.00	9.55	0.01	0.00	0.90	2.00	0.00	9.55	0.01	0.00
0.91	2.00	0.00	9.54	0.01	0.00	0.92	2.00	0.00	9.54	0.01	0.00
0.93	2.00	0.00	9.54	0.01	0.00	0.94	2.00	0.00	9.53	0.01	0.00
0.95	2.00	0.00	9.53	0.01	0.00	0.96	2.00	0.00	9.52	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
0.97	2.00	0.00	9.52	0.01	0.00	0.98	2.00	0.00	9.51	0.01	0.00
0.99	2.00	0.00	9.51	0.01	0.00	1.00	2.00	0.00	9.50	0.01	0.00
1.01	2.00	0.00	9.49	0.01	0.00	1.02	2.00	0.00	9.49	0.01	0.00
1.03	2.00	0.00	9.48	0.01	0.00	1.04	2.00	0.00	9.48	0.01	0.00
1.05	2.00	0.00	9.47	0.01	0.00	1.06	2.00	0.00	9.47	0.01	0.00
1.07	2.00	0.00	9.46	0.01	0.00	1.08	2.00	0.00	9.46	0.01	0.00
1.09	2.00	0.00	9.46	0.01	0.00	1.10	2.00	0.00	9.45	0.01	0.00
1.11	2.00	0.00	9.45	0.01	0.00	1.12	2.00	0.00	9.44	0.01	0.00
1.13	2.00	0.00	9.44	0.01	0.00	1.14	2.00	0.00	9.43	0.01	0.00
1.15	2.00	0.00	9.43	0.01	0.00	1.16	2.00	0.00	9.42	0.01	0.00
1.17	2.00	0.00	9.41	0.01	0.00	1.18	2.00	0.00	9.41	0.01	0.00
1.19	2.00	0.00	9.40	0.01	0.00	1.20	2.00	0.00	9.40	0.01	0.00
1.21	2.00	0.00	9.39	0.01	0.00	1.22	2.00	0.00	9.39	0.01	0.00
1.23	2.00	0.00	9.38	0.01	0.00	1.24	2.00	0.00	9.38	0.01	0.00
1.25	2.00	0.00	9.38	0.01	0.00	1.26	2.00	0.00	9.37	0.01	0.00
1.27	2.00	0.00	9.37	0.01	0.00	1.28	2.00	0.00	9.36	0.01	0.00
1.29	2.00	0.00	9.36	0.01	0.00	1.30	2.00	0.00	9.35	0.01	0.00
1.31	2.00	0.00	9.35	0.01	0.00	1.32	2.00	0.00	9.34	0.01	0.00
1.33	2.00	0.00	9.34	0.01	0.00	1.34	2.00	0.00	9.33	0.01	0.00
1.35	2.00	0.00	9.32	0.01	0.00	1.36	2.00	0.00	9.32	0.01	0.00
1.37	2.00	0.00	9.31	0.01	0.00	1.38	2.00	0.00	9.31	0.01	0.00
1.39	2.00	0.00	9.30	0.01	0.00	1.40	2.00	0.00	9.30	0.01	0.00
1.41	2.00	0.00	9.29	0.01	0.00	1.42	2.00	0.00	9.29	0.01	0.00
1.43	2.00	0.00	9.29	0.01	0.00	1.44	2.00	0.00	9.28	0.01	0.00
1.45	2.00	0.00	9.28	0.01	0.00	1.46	2.00	0.00	9.27	0.01	0.00
1.47	2.00	0.00	9.27	0.01	0.00	1.48	2.00	0.00	9.26	0.01	0.00
1.49	2.00	0.00	9.26	0.01	0.00	1.50	2.00	0.00	9.25	0.01	0.00
1.51	2.00	0.00	9.24	0.01	0.00	1.52	2.00	0.00	9.24	0.01	0.00
1.53	2.00	0.00	9.23	0.01	0.00	1.54	2.00	0.00	9.23	0.01	0.00
1.55	2.00	0.00	9.22	0.01	0.00	1.56	2.00	0.00	9.22	0.01	0.00
1.57	2.00	0.00	9.21	0.01	0.00	1.58	2.00	0.00	9.21	0.01	0.00
1.59	2.00	0.00	9.21	0.01	0.00	1.60	2.00	0.00	9.20	0.01	0.00
1.61	2.00	0.00	9.20	0.01	0.00	1.62	2.00	0.00	9.19	0.01	0.00
1.63	2.00	0.00	9.19	0.01	0.00	1.64	2.00	0.00	9.18	0.01	0.00
1.65	2.00	0.00	9.18	0.01	0.00	1.66	2.00	0.00	9.17	0.01	0.00
1.67	2.00	0.00	9.16	0.01	0.00	1.68	2.00	0.00	9.16	0.01	0.00
1.69	2.00	0.00	9.15	0.01	0.00	1.70	2.00	0.00	9.15	0.01	0.00
1.71	2.00	0.00	9.14	0.01	0.00	1.72	2.00	0.00	9.14	0.01	0.00
1.73	2.00	0.00	9.13	0.01	0.00	1.74	2.00	0.00	9.13	0.01	0.00
1.75	2.00	0.00	9.13	0.01	0.00	1.76	2.00	0.00	9.12	0.01	0.00
1.77	2.00	0.00	9.12	0.01	0.00	1.78	2.00	0.00	9.11	0.01	0.00
1.79	2.00	0.00	9.11	0.01	0.00	1.80	2.00	0.00	9.10	0.01	0.00
1.81	2.00	0.00	9.10	0.01	0.00	1.82	2.00	0.00	9.09	0.01	0.00
1.83	2.00	0.00	9.09	0.01	0.00	1.84	2.00	0.00	9.08	0.01	0.00
1.85	2.00	0.00	9.07	0.01	0.00	1.86	2.00	0.00	9.07	0.01	0.00
1.87	2.00	0.00	9.06	0.01	0.00	1.88	2.00	0.00	9.06	0.01	0.00
1.89	2.00	0.00	9.05	0.01	0.00	1.90	2.00	0.00	9.05	0.01	0.00
1.91	2.00	0.00	9.04	0.01	0.00	1.92	2.00	0.00	9.04	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
1.93	2.00	0.00	9.04	0.01	0.00	1.94	2.00	0.00	9.03	0.01	0.00
1.95	2.00	0.00	9.03	0.01	0.00	1.96	2.00	0.00	9.02	0.01	0.00
1.97	2.00	0.00	9.02	0.01	0.00	1.98	2.00	0.00	9.01	0.01	0.00
1.99	2.00	0.00	9.01	0.01	0.00	2.00	2.00	0.00	9.00	0.01	0.00
2.01	2.00	0.00	8.99	0.01	0.00	2.02	2.00	0.00	8.99	0.01	0.00
2.03	2.00	0.00	8.98	0.01	0.00	2.04	2.00	0.00	8.98	0.01	0.00
2.05	2.00	0.00	8.97	0.01	0.00	2.06	2.00	0.00	8.97	0.01	0.00
2.07	2.00	0.00	8.96	0.01	0.00	2.08	2.00	0.00	8.96	0.01	0.00
2.09	2.00	0.00	8.96	0.01	0.00	2.10	2.00	0.00	8.95	0.01	0.00
2.11	2.00	0.00	8.95	0.01	0.00	2.12	2.00	0.00	8.94	0.01	0.00
2.13	2.00	0.00	8.94	0.01	0.00	2.14	2.00	0.00	8.93	0.01	0.00
2.15	2.00	0.00	8.93	0.01	0.00	2.16	2.00	0.00	8.92	0.01	0.00
2.17	2.00	0.00	8.91	0.01	0.00	2.18	2.00	0.00	8.91	0.01	0.00
2.19	2.00	0.00	8.90	0.01	0.00	2.20	2.00	0.00	8.90	0.01	0.00
2.21	2.00	0.00	8.89	0.01	0.00	2.22	2.00	0.00	8.89	0.01	0.00
2.23	2.00	0.00	8.88	0.01	0.00	2.24	2.00	0.00	8.88	0.01	0.00
2.25	2.00	0.00	8.88	0.01	0.00	2.26	2.00	0.00	8.87	0.01	0.00
2.27	2.00	0.00	8.87	0.01	0.00	2.28	2.00	0.00	8.86	0.01	0.00
2.29	2.00	0.00	8.86	0.01	0.00	2.30	2.00	0.00	8.85	0.01	0.00
2.31	2.00	0.00	8.85	0.01	0.00	2.32	2.00	0.00	8.84	0.01	0.00
2.33	2.00	0.00	8.84	0.01	0.00	2.34	2.00	0.00	8.83	0.01	0.00
2.35	2.00	0.00	8.82	0.01	0.00	2.36	2.00	0.00	8.82	0.01	0.00
2.37	2.00	0.00	8.81	0.01	0.00	2.38	2.00	0.00	8.81	0.01	0.00
2.39	2.00	0.00	8.80	0.01	0.00	2.40	2.00	0.00	8.80	0.01	0.00
2.41	2.00	0.00	8.79	0.01	0.00	2.42	2.00	0.00	8.79	0.01	0.00
2.43	2.00	0.00	8.79	0.01	0.00	2.44	2.00	0.00	8.78	0.01	0.00
2.45	2.00	0.00	8.78	0.01	0.00	2.46	2.00	0.00	8.77	0.01	0.00
2.47	2.00	0.00	8.77	0.01	0.00	2.48	2.00	0.00	8.76	0.01	0.00
2.49	2.00	0.00	8.76	0.01	0.00	2.50	2.00	0.00	8.75	0.01	0.00
2.51	2.00	0.00	8.74	0.01	0.00	2.52	2.00	0.00	8.74	0.01	0.00
2.53	2.00	0.00	8.73	0.01	0.00	2.54	2.00	0.00	8.73	0.01	0.00
2.55	0.85	0.15	8.72	0.01	0.01	2.56	0.84	0.16	8.72	0.01	0.01
2.57	0.83	0.17	8.71	0.01	0.01	2.58	0.83	0.17	8.71	0.01	0.02
2.59	0.82	0.18	8.71	0.01	0.02	2.60	0.81	0.19	8.70	0.01	0.02
2.61	0.81	0.19	8.70	0.01	0.02	2.62	0.80	0.20	8.69	0.01	0.02
2.63	0.79	0.21	8.69	0.01	0.02	2.64	0.80	0.20	8.68	0.01	0.02
2.65	0.82	0.18	8.68	0.01	0.02	2.66	0.91	0.09	8.67	0.01	0.01
2.67	0.89	0.11	8.66	0.01	0.01	2.68	0.98	0.02	8.66	0.01	0.00
2.69	0.99	0.01	8.65	0.01	0.00	2.70	0.99	0.01	8.65	0.01	0.00
2.71	0.98	0.02	8.64	0.01	0.00	2.72	0.95	0.05	8.64	0.01	0.00
2.73	0.95	0.05	8.63	0.01	0.00	2.74	0.94	0.06	8.63	0.01	0.01
2.75	0.93	0.07	8.63	0.01	0.01	2.76	1.01	0.00	8.62	0.01	0.00
2.77	0.99	0.01	8.62	0.01	0.00	2.78	0.97	0.03	8.61	0.01	0.00
2.79	1.01	0.00	8.61	0.01	0.00	2.80	0.93	0.07	8.60	0.01	0.01
2.81	1.01	0.00	8.60	0.01	0.00	2.82	1.06	0.00	8.59	0.01	0.00
2.83	1.10	0.00	8.59	0.01	0.00	2.84	1.10	0.00	8.58	0.01	0.00
2.85	1.11	0.00	8.57	0.01	0.00	2.86	1.15	0.00	8.57	0.01	0.00
2.87	1.18	0.00	8.56	0.01	0.00	2.88	1.20	0.00	8.56	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
2.89	1.20	0.00	8.55	0.01	0.00	2.90	1.20	0.00	8.55	0.01	0.00
2.91	1.18	0.00	8.54	0.01	0.00	2.92	1.17	0.00	8.54	0.01	0.00
2.93	1.17	0.00	8.54	0.01	0.00	2.94	1.18	0.00	8.53	0.01	0.00
2.95	1.20	0.00	8.53	0.01	0.00	2.96	1.22	0.00	8.52	0.01	0.00
2.97	1.26	0.00	8.52	0.01	0.00	2.98	1.26	0.00	8.51	0.01	0.00
2.99	1.26	0.00	8.51	0.01	0.00	3.00	1.27	0.00	8.50	0.01	0.00
3.01	1.23	0.00	8.49	0.01	0.00	3.02	1.23	0.00	8.49	0.01	0.00
3.03	1.23	0.00	8.48	0.01	0.00	3.04	1.22	0.00	8.48	0.01	0.00
3.05	1.19	0.00	8.47	0.01	0.00	3.06	1.17	0.00	8.47	0.01	0.00
3.07	1.11	0.00	8.46	0.01	0.00	3.08	1.12	0.00	8.46	0.01	0.00
3.09	1.13	0.00	8.46	0.01	0.00	3.10	1.16	0.00	8.45	0.01	0.00
3.11	1.23	0.00	8.45	0.01	0.00	3.12	1.25	0.00	8.44	0.01	0.00
3.13	1.29	0.00	8.44	0.01	0.00	3.14	1.29	0.00	8.43	0.01	0.00
3.15	1.31	0.00	8.43	0.01	0.00	3.16	1.30	0.00	8.42	0.01	0.00
3.17	1.24	0.00	8.41	0.01	0.00	3.18	1.19	0.00	8.41	0.01	0.00
3.19	1.14	0.00	8.40	0.01	0.00	3.20	1.13	0.00	8.40	0.01	0.00
3.21	1.11	0.00	8.39	0.01	0.00	3.22	1.20	0.00	8.39	0.01	0.00
3.23	1.27	0.00	8.38	0.01	0.00	3.24	1.30	0.00	8.38	0.01	0.00
3.25	1.31	0.00	8.38	0.01	0.00	3.26	1.42	0.00	8.37	0.01	0.00
3.27	1.34	0.00	8.37	0.01	0.00	3.28	1.44	0.00	8.36	0.01	0.00
3.29	1.64	0.00	8.36	0.01	0.00	3.30	2.00	0.00	8.35	0.01	0.00
3.31	2.00	0.00	8.35	0.01	0.00	3.32	2.00	0.00	8.34	0.01	0.00
3.33	2.00	0.00	8.34	0.01	0.00	3.34	2.00	0.00	8.33	0.01	0.00
3.35	2.00	0.00	8.32	0.01	0.00	3.36	2.00	0.00	8.32	0.01	0.00
3.37	2.00	0.00	8.31	0.01	0.00	3.38	2.00	0.00	8.31	0.01	0.00
3.39	2.00	0.00	8.30	0.01	0.00	3.40	2.00	0.00	8.30	0.01	0.00
3.41	2.00	0.00	8.29	0.01	0.00	3.42	2.00	0.00	8.29	0.01	0.00
3.43	2.00	0.00	8.29	0.01	0.00	3.44	2.00	0.00	8.28	0.01	0.00
3.45	2.00	0.00	8.28	0.01	0.00	3.46	2.00	0.00	8.27	0.01	0.00
3.47	2.00	0.00	8.27	0.01	0.00	3.48	2.00	0.00	8.26	0.01	0.00
3.49	2.00	0.00	8.26	0.01	0.00	3.50	2.00	0.00	8.25	0.01	0.00
3.51	2.00	0.00	8.24	0.01	0.00	3.52	1.92	0.00	8.24	0.01	0.00
3.53	1.85	0.00	8.23	0.01	0.00	3.54	1.76	0.00	8.23	0.01	0.00
3.55	1.73	0.00	8.22	0.01	0.00	3.56	1.71	0.00	8.22	0.01	0.00
3.57	1.69	0.00	8.21	0.01	0.00	3.58	1.65	0.00	8.21	0.01	0.00
3.59	1.64	0.00	8.21	0.01	0.00	3.60	1.64	0.00	8.20	0.01	0.00
3.61	1.72	0.00	8.20	0.01	0.00	3.62	1.79	0.00	8.19	0.01	0.00
3.63	1.88	0.00	8.19	0.01	0.00	3.64	1.88	0.00	8.18	0.01	0.00
3.65	2.00	0.00	8.18	0.01	0.00	3.66	1.98	0.00	8.17	0.01	0.00
3.67	1.86	0.00	8.16	0.01	0.00	3.68	1.81	0.00	8.16	0.01	0.00
3.69	1.76	0.00	8.15	0.01	0.00	3.70	1.73	0.00	8.15	0.01	0.00
3.71	1.71	0.00	8.14	0.01	0.00	3.72	1.72	0.00	8.14	0.01	0.00
3.73	1.73	0.00	8.13	0.01	0.00	3.74	1.77	0.00	8.13	0.01	0.00
3.75	1.80	0.00	8.13	0.01	0.00	3.76	1.84	0.00	8.12	0.01	0.00
3.77	1.83	0.00	8.12	0.01	0.00	3.78	1.88	0.00	8.11	0.01	0.00
3.79	1.86	0.00	8.11	0.01	0.00	3.80	1.81	0.00	8.10	0.01	0.00
3.81	1.68	0.00	8.10	0.01	0.00	3.82	1.59	0.00	8.09	0.01	0.00
3.83	1.49	0.00	8.09	0.01	0.00	3.84	1.33	0.00	8.08	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
3.85	1.27	0.00	8.07	0.01	0.00	3.86	1.25	0.00	8.07	0.01	0.00
3.87	1.22	0.00	8.06	0.01	0.00	3.88	1.22	0.00	8.06	0.01	0.00
3.89	1.22	0.00	8.05	0.01	0.00	3.90	1.21	0.00	8.05	0.01	0.00
3.91	1.22	0.00	8.04	0.01	0.00	3.92	1.22	0.00	8.04	0.01	0.00
3.93	1.21	0.00	8.04	0.01	0.00	3.94	1.18	0.00	8.03	0.01	0.00
3.95	1.17	0.00	8.03	0.01	0.00	3.96	1.16	0.00	8.02	0.01	0.00
3.97	1.14	0.00	8.02	0.01	0.00	3.98	1.15	0.00	8.01	0.01	0.00
3.99	1.16	0.00	8.01	0.01	0.00	4.00	1.21	0.00	8.00	0.01	0.00
4.01	1.25	0.00	8.00	0.01	0.00	4.02	1.30	0.00	7.99	0.01	0.00
4.03	1.34	0.00	7.99	0.01	0.00	4.04	1.40	0.00	7.98	0.01	0.00
4.05	1.39	0.00	7.97	0.01	0.00	4.06	1.39	0.00	7.97	0.01	0.00
4.07	1.69	0.00	7.96	0.01	0.00	4.08	1.92	0.00	7.96	0.01	0.00
4.09	1.98	0.00	7.96	0.01	0.00	4.10	1.98	0.00	7.95	0.01	0.00
4.11	2.00	0.00	7.95	0.01	0.00	4.12	1.91	0.00	7.94	0.01	0.00
4.13	1.91	0.00	7.93	0.01	0.00	4.14	1.83	0.00	7.93	0.01	0.00
4.15	1.83	0.00	7.92	0.01	0.00	4.16	1.82	0.00	7.92	0.01	0.00
4.17	1.78	0.00	7.92	0.01	0.00	4.18	1.74	0.00	7.91	0.01	0.00
4.19	1.74	0.00	7.91	0.01	0.00	4.20	1.68	0.00	7.90	0.01	0.00
4.21	1.65	0.00	7.89	0.01	0.00	4.22	1.63	0.00	7.89	0.01	0.00
4.23	1.65	0.00	7.88	0.01	0.00	4.24	1.65	0.00	7.88	0.01	0.00
4.25	1.68	0.00	7.88	0.01	0.00	4.26	1.70	0.00	7.87	0.01	0.00
4.27	1.71	0.00	7.87	0.01	0.00	4.28	1.69	0.00	7.86	0.01	0.00
4.29	1.64	0.00	7.86	0.01	0.00	4.30	1.57	0.00	7.85	0.01	0.00
4.31	1.53	0.00	7.84	0.01	0.00	4.32	1.52	0.00	7.84	0.01	0.00
4.33	1.39	0.00	7.83	0.01	0.00	4.34	1.35	0.00	7.83	0.01	0.00
4.35	1.33	0.00	7.83	0.01	0.00	4.36	1.30	0.00	7.82	0.01	0.00
4.37	1.30	0.00	7.82	0.01	0.00	4.38	1.31	0.00	7.81	0.01	0.00
4.39	1.31	0.00	7.80	0.01	0.00	4.40	1.34	0.00	7.80	0.01	0.00
4.41	1.36	0.00	7.79	0.01	0.00	4.42	1.36	0.00	7.79	0.01	0.00
4.43	1.36	0.00	7.79	0.01	0.00	4.44	1.33	0.00	7.78	0.01	0.00
4.45	1.30	0.00	7.78	0.01	0.00	4.46	1.25	0.00	7.77	0.01	0.00
4.47	1.24	0.00	7.76	0.01	0.00	4.48	1.23	0.00	7.76	0.01	0.00
4.49	1.25	0.00	7.75	0.01	0.00	4.50	1.26	0.00	7.75	0.01	0.00
4.51	1.26	0.00	7.75	0.01	0.00	4.52	1.27	0.00	7.74	0.01	0.00
4.53	1.30	0.00	7.74	0.01	0.00	4.54	1.30	0.00	7.73	0.01	0.00
4.55	1.27	0.00	7.72	0.01	0.00	4.56	1.26	0.00	7.72	0.01	0.00
4.57	1.24	0.00	7.71	0.01	0.00	4.58	1.22	0.00	7.71	0.01	0.00
4.59	1.18	0.00	7.71	0.01	0.00	4.60	1.16	0.00	7.70	0.01	0.00
4.61	1.15	0.00	7.70	0.01	0.00	4.62	1.14	0.00	7.69	0.01	0.00
4.63	1.14	0.00	7.68	0.01	0.00	4.64	1.14	0.00	7.68	0.01	0.00
4.65	1.14	0.00	7.67	0.01	0.00	4.66	1.15	0.00	7.67	0.01	0.00
4.67	1.16	0.00	7.67	0.01	0.00	4.68	1.16	0.00	7.66	0.01	0.00
4.69	1.17	0.00	7.66	0.01	0.00	4.70	1.16	0.00	7.65	0.01	0.00
4.71	1.17	0.00	7.64	0.01	0.00	4.72	1.19	0.00	7.64	0.01	0.00
4.73	1.20	0.00	7.63	0.01	0.00	4.74	1.21	0.00	7.63	0.01	0.00
4.75	1.22	0.00	7.63	0.01	0.00	4.76	1.22	0.00	7.62	0.01	0.00
4.77	1.20	0.00	7.62	0.01	0.00	4.78	1.19	0.00	7.61	0.01	0.00
4.79	1.19	0.00	7.61	0.01	0.00	4.80	1.20	0.00	7.60	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
4.81	1.25	0.00	7.59	0.01	0.00	4.82	1.28	0.00	7.59	0.01	0.00
4.83	1.30	0.00	7.58	0.01	0.00	4.84	1.33	0.00	7.58	0.01	0.00
4.85	1.35	0.00	7.58	0.01	0.00	4.86	1.35	0.00	7.57	0.01	0.00
4.87	1.37	0.00	7.57	0.01	0.00	4.88	1.40	0.00	7.56	0.01	0.00
4.89	1.39	0.00	7.55	0.01	0.00	4.90	1.50	0.00	7.55	0.01	0.00
4.91	1.69	0.00	7.54	0.01	0.00	4.92	1.77	0.00	7.54	0.01	0.00
4.93	1.82	0.00	7.54	0.01	0.00	4.94	1.81	0.00	7.53	0.01	0.00
4.95	1.80	0.00	7.53	0.01	0.00	4.96	1.71	0.00	7.52	0.01	0.00
4.97	1.64	0.00	7.51	0.01	0.00	4.98	1.52	0.00	7.51	0.01	0.00
4.99	1.47	0.00	7.50	0.01	0.00	5.00	1.43	0.00	7.50	0.01	0.00
5.01	1.37	0.00	7.50	0.01	0.00	5.02	1.36	0.00	7.49	0.01	0.00
5.03	1.35	0.00	7.49	0.01	0.00	5.04	1.33	0.00	7.48	0.01	0.00
5.05	1.33	0.00	7.47	0.01	0.00	5.06	1.33	0.00	7.47	0.01	0.00
5.07	1.23	0.00	7.46	0.01	0.00	5.08	1.22	0.00	7.46	0.01	0.00
5.09	1.22	0.00	7.46	0.01	0.00	5.10	1.21	0.00	7.45	0.01	0.00
5.11	1.20	0.00	7.45	0.01	0.00	5.12	1.15	0.00	7.44	0.01	0.00
5.13	1.13	0.00	7.43	0.01	0.00	5.14	1.12	0.00	7.43	0.01	0.00
5.15	1.11	0.00	7.42	0.01	0.00	5.16	1.11	0.00	7.42	0.01	0.00
5.17	1.11	0.00	7.42	0.01	0.00	5.18	1.10	0.00	7.41	0.01	0.00
5.19	1.10	0.00	7.41	0.01	0.00	5.20	1.10	0.00	7.40	0.01	0.00
5.21	1.10	0.00	7.39	0.01	0.00	5.22	1.10	0.00	7.39	0.01	0.00
5.23	1.12	0.00	7.38	0.01	0.00	5.24	1.13	0.00	7.38	0.01	0.00
5.25	1.14	0.00	7.38	0.01	0.00	5.26	1.14	0.00	7.37	0.01	0.00
5.27	1.15	0.00	7.37	0.01	0.00	5.28	1.15	0.00	7.36	0.01	0.00
5.29	1.16	0.00	7.36	0.01	0.00	5.30	1.16	0.00	7.35	0.01	0.00
5.31	1.15	0.00	7.34	0.01	0.00	5.32	1.14	0.00	7.34	0.01	0.00
5.33	1.14	0.00	7.33	0.01	0.00	5.34	1.14	0.00	7.33	0.01	0.00
5.35	1.17	0.00	7.33	0.01	0.00	5.36	1.18	0.00	7.32	0.01	0.00
5.37	1.21	0.00	7.32	0.01	0.00	5.38	1.28	0.00	7.31	0.01	0.00
5.39	1.32	0.00	7.30	0.01	0.00	5.40	1.41	0.00	7.30	0.01	0.00
5.41	1.40	0.00	7.29	0.01	0.00	5.42	1.49	0.00	7.29	0.01	0.00
5.43	1.52	0.00	7.29	0.01	0.00	5.44	1.57	0.00	7.28	0.01	0.00
5.45	1.60	0.00	7.28	0.01	0.00	5.46	1.66	0.00	7.27	0.01	0.00
5.47	1.65	0.00	7.26	0.01	0.00	5.48	1.74	0.00	7.26	0.01	0.00
5.49	1.77	0.00	7.25	0.01	0.00	5.50	1.83	0.00	7.25	0.01	0.00
5.51	1.87	0.00	7.25	0.01	0.00	5.52	1.88	0.00	7.24	0.01	0.00
5.53	1.90	0.00	7.24	0.01	0.00	5.54	1.93	0.00	7.23	0.01	0.00
5.55	1.93	0.00	7.22	0.01	0.00	5.56	1.89	0.00	7.22	0.01	0.00
5.57	1.87	0.00	7.21	0.01	0.00	5.58	1.84	0.00	7.21	0.01	0.00
5.59	1.76	0.00	7.21	0.01	0.00	5.60	1.72	0.00	7.20	0.01	0.00
5.61	1.67	0.00	7.20	0.01	0.00	5.62	1.62	0.00	7.19	0.01	0.00
5.63	1.57	0.00	7.18	0.01	0.00	5.64	1.56	0.00	7.18	0.01	0.00
5.65	1.54	0.00	7.17	0.01	0.00	5.66	1.53	0.00	7.17	0.01	0.00
5.67	1.52	0.00	7.17	0.01	0.00	5.68	1.52	0.00	7.16	0.01	0.00
5.69	1.54	0.00	7.16	0.01	0.00	5.70	1.56	0.00	7.15	0.01	0.00
5.71	1.62	0.00	7.14	0.01	0.00	5.72	1.61	0.00	7.14	0.01	0.00
5.73	1.69	0.00	7.13	0.01	0.00	5.74	1.73	0.00	7.13	0.01	0.00
5.75	1.78	0.00	7.13	0.01	0.00	5.76	1.80	0.00	7.12	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
5.77	1.82	0.00	7.12	0.01	0.00	5.78	1.85	0.00	7.11	0.01	0.00
5.79	1.86	0.00	7.11	0.01	0.00	5.80	1.89	0.00	7.10	0.01	0.00
5.81	2.00	0.00	7.09	0.01	0.00	5.82	2.00	0.00	7.09	0.01	0.00
5.83	2.00	0.00	7.08	0.01	0.00	5.84	2.00	0.00	7.08	0.01	0.00
5.85	2.00	0.00	7.08	0.01	0.00	5.86	2.00	0.00	7.07	0.01	0.00
5.87	2.00	0.00	7.07	0.01	0.00	5.88	2.00	0.00	7.06	0.01	0.00
5.89	2.00	0.00	7.05	0.01	0.00	5.90	2.00	0.00	7.05	0.01	0.00
5.91	2.00	0.00	7.04	0.01	0.00	5.92	2.00	0.00	7.04	0.01	0.00
5.93	2.00	0.00	7.04	0.01	0.00	5.94	2.00	0.00	7.03	0.01	0.00
5.95	2.00	0.00	7.03	0.01	0.00	5.96	2.00	0.00	7.02	0.01	0.00
5.97	2.00	0.00	7.01	0.01	0.00	5.98	2.00	0.00	7.01	0.01	0.00
5.99	2.00	0.00	7.00	0.01	0.00	6.00	2.00	0.00	7.00	0.01	0.00
6.01	2.00	0.00	7.00	0.01	0.00	6.02	2.00	0.00	6.99	0.01	0.00
6.03	2.00	0.00	6.99	0.01	0.00	6.04	2.00	0.00	6.98	0.01	0.00
6.05	2.00	0.00	6.97	0.01	0.00	6.06	2.00	0.00	6.97	0.01	0.00
6.07	1.83	0.00	6.96	0.01	0.00	6.08	1.78	0.00	6.96	0.01	0.00
6.09	1.74	0.00	6.96	0.01	0.00	6.10	1.71	0.00	6.95	0.01	0.00
6.11	1.68	0.00	6.95	0.01	0.00	6.12	1.68	0.00	6.94	0.01	0.00
6.13	1.69	0.00	6.93	0.01	0.00	6.14	1.71	0.00	6.93	0.01	0.00
6.15	1.70	0.00	6.92	0.01	0.00	6.16	1.68	0.00	6.92	0.01	0.00
6.17	1.60	0.00	6.92	0.01	0.00	6.18	1.57	0.00	6.91	0.01	0.00
6.19	1.55	0.00	6.91	0.01	0.00	6.20	1.52	0.00	6.90	0.01	0.00
6.21	1.51	0.00	6.89	0.01	0.00	6.22	1.51	0.00	6.89	0.01	0.00
6.23	1.51	0.00	6.88	0.01	0.00	6.24	1.51	0.00	6.88	0.01	0.00
6.25	1.48	0.00	6.88	0.01	0.00	6.26	1.38	0.00	6.87	0.01	0.00
6.27	1.34	0.00	6.87	0.01	0.00	6.28	1.32	0.00	6.86	0.01	0.00
6.29	1.31	0.00	6.86	0.01	0.00	6.30	1.29	0.00	6.85	0.01	0.00
6.31	1.30	0.00	6.84	0.01	0.00	6.32	1.35	0.00	6.84	0.01	0.00
6.33	1.33	0.00	6.83	0.01	0.00	6.34	1.29	0.00	6.83	0.01	0.00
6.35	1.37	0.00	6.83	0.01	0.00	6.36	1.39	0.00	6.82	0.01	0.00
6.37	1.44	0.00	6.82	0.01	0.00	6.38	1.54	0.00	6.81	0.01	0.00
6.39	1.59	0.00	6.80	0.01	0.00	6.40	1.62	0.00	6.80	0.01	0.00
6.41	1.65	0.00	6.79	0.01	0.00	6.42	1.69	0.00	6.79	0.01	0.00
6.43	1.69	0.00	6.79	0.01	0.00	6.44	1.69	0.00	6.78	0.01	0.00
6.45	1.68	0.00	6.78	0.01	0.00	6.46	1.68	0.00	6.77	0.01	0.00
6.47	1.68	0.00	6.76	0.01	0.00	6.48	1.68	0.00	6.76	0.01	0.00
6.49	1.68	0.00	6.75	0.01	0.00	6.50	1.72	0.00	6.75	0.01	0.00
6.51	1.74	0.00	6.75	0.01	0.00	6.52	1.77	0.00	6.74	0.01	0.00
6.53	1.76	0.00	6.74	0.01	0.00	6.54	1.92	0.00	6.73	0.01	0.00
6.55	1.97	0.00	6.72	0.01	0.00	6.56	2.00	0.00	6.72	0.01	0.00
6.57	2.00	0.00	6.71	0.01	0.00	6.58	2.00	0.00	6.71	0.01	0.00
6.59	2.00	0.00	6.71	0.01	0.00	6.60	2.00	0.00	6.70	0.01	0.00
6.61	2.00	0.00	6.70	0.01	0.00	6.62	2.00	0.00	6.69	0.01	0.00
6.63	2.00	0.00	6.68	0.01	0.00	6.64	2.00	0.00	6.68	0.01	0.00
6.65	2.00	0.00	6.67	0.01	0.00	6.66	2.00	0.00	6.67	0.01	0.00
6.67	1.98	0.00	6.67	0.01	0.00	6.68	1.87	0.00	6.66	0.01	0.00
6.69	1.78	0.00	6.66	0.01	0.00	6.70	1.72	0.00	6.65	0.01	0.00
6.71	1.66	0.00	6.64	0.01	0.00	6.72	1.58	0.00	6.64	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
6.73	1.60	0.00	6.63	0.01	0.00	6.74	1.60	0.00	6.63	0.01	0.00
6.75	1.62	0.00	6.63	0.01	0.00	6.76	1.63	0.00	6.62	0.01	0.00
6.77	1.63	0.00	6.62	0.01	0.00	6.78	1.60	0.00	6.61	0.01	0.00
6.79	1.60	0.00	6.61	0.01	0.00	6.80	1.54	0.00	6.60	0.01	0.00
6.81	1.54	0.00	6.59	0.01	0.00	6.82	1.53	0.00	6.59	0.01	0.00
6.83	1.49	0.00	6.58	0.01	0.00	6.84	1.49	0.00	6.58	0.01	0.00
6.85	1.48	0.00	6.58	0.01	0.00	6.86	1.44	0.00	6.57	0.01	0.00
6.87	1.44	0.00	6.57	0.01	0.00	6.88	1.45	0.00	6.56	0.01	0.00
6.89	1.42	0.00	6.55	0.01	0.00	6.90	1.43	0.00	6.55	0.01	0.00
6.91	1.43	0.00	6.54	0.01	0.00	6.92	1.40	0.00	6.54	0.01	0.00
6.93	1.40	0.00	6.54	0.01	0.00	6.94	1.39	0.00	6.53	0.01	0.00
6.95	1.37	0.00	6.53	0.01	0.00	6.96	1.36	0.00	6.52	0.01	0.00
6.97	1.34	0.00	6.51	0.01	0.00	6.98	1.32	0.00	6.51	0.01	0.00
6.99	1.31	0.00	6.50	0.01	0.00	7.00	1.28	0.00	6.50	0.01	0.00
7.01	1.28	0.00	6.50	0.01	0.00	7.02	1.25	0.00	6.49	0.01	0.00
7.03	1.22	0.00	6.49	0.01	0.00	7.04	1.24	0.00	6.48	0.01	0.00
7.05	1.18	0.00	6.47	0.01	0.00	7.06	1.13	0.00	6.47	0.01	0.00
7.07	1.11	0.00	6.46	0.01	0.00	7.08	1.09	0.00	6.46	0.01	0.00
7.09	1.08	0.00	6.46	0.01	0.00	7.10	1.11	0.00	6.45	0.01	0.00
7.11	1.12	0.00	6.45	0.01	0.00	7.12	1.15	0.00	6.44	0.01	0.00
7.13	1.21	0.00	6.43	0.01	0.00	7.14	1.23	0.00	6.43	0.01	0.00
7.15	1.26	0.00	6.42	0.01	0.00	7.16	1.28	0.00	6.42	0.01	0.00
7.17	1.31	0.00	6.42	0.01	0.00	7.18	1.31	0.00	6.41	0.01	0.00
7.19	1.34	0.00	6.41	0.01	0.00	7.20	1.33	0.00	6.40	0.01	0.00
7.21	1.34	0.00	6.39	0.01	0.00	7.22	1.34	0.00	6.39	0.01	0.00
7.23	1.35	0.00	6.38	0.01	0.00	7.24	1.34	0.00	6.38	0.01	0.00
7.25	1.33	0.00	6.38	0.01	0.00	7.26	1.31	0.00	6.37	0.01	0.00
7.27	1.29	0.00	6.37	0.01	0.00	7.28	1.28	0.00	6.36	0.01	0.00
7.29	1.28	0.00	6.36	0.01	0.00	7.30	1.27	0.00	6.35	0.01	0.00
7.31	1.26	0.00	6.34	0.01	0.00	7.32	1.25	0.00	6.34	0.01	0.00
7.33	1.25	0.00	6.33	0.01	0.00	7.34	1.24	0.00	6.33	0.01	0.00
7.35	1.22	0.00	6.33	0.01	0.00	7.36	1.22	0.00	6.32	0.01	0.00
7.37	1.22	0.00	6.32	0.01	0.00	7.38	1.21	0.00	6.31	0.01	0.00
7.39	1.19	0.00	6.30	0.01	0.00	7.40	1.19	0.00	6.30	0.01	0.00
7.41	1.20	0.00	6.29	0.01	0.00	7.42	1.19	0.00	6.29	0.01	0.00
7.43	1.18	0.00	6.29	0.01	0.00	7.44	1.19	0.00	6.28	0.01	0.00
7.45	1.20	0.00	6.28	0.01	0.00	7.46	1.21	0.00	6.27	0.01	0.00
7.47	1.22	0.00	6.26	0.01	0.00	7.48	1.24	0.00	6.26	0.01	0.00
7.49	1.28	0.00	6.25	0.01	0.00	7.50	1.28	0.00	6.25	0.01	0.00
7.51	1.31	0.00	6.25	0.01	0.00	7.52	1.36	0.00	6.24	0.01	0.00
7.53	1.39	0.00	6.24	0.01	0.00	7.54	1.38	0.00	6.23	0.01	0.00
7.55	1.40	0.00	6.22	0.01	0.00	7.56	1.38	0.00	6.22	0.01	0.00
7.57	1.40	0.00	6.21	0.01	0.00	7.58	1.40	0.00	6.21	0.01	0.00
7.59	1.40	0.00	6.21	0.01	0.00	7.60	1.42	0.00	6.20	0.01	0.00
7.61	1.36	0.00	6.20	0.01	0.00	7.62	1.35	0.00	6.19	0.01	0.00
7.63	1.34	0.00	6.18	0.01	0.00	7.64	1.32	0.00	6.18	0.01	0.00
7.65	1.30	0.00	6.17	0.01	0.00	7.66	1.29	0.00	6.17	0.01	0.00
7.67	1.28	0.00	6.17	0.01	0.00	7.68	1.23	0.00	6.16	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
7.69	1.23	0.00	6.16	0.01	0.00	7.70	1.22	0.00	6.15	0.01	0.00
7.71	1.19	0.00	6.14	0.01	0.00	7.72	1.16	0.00	6.14	0.01	0.00
7.73	1.15	0.00	6.13	0.01	0.00	7.74	1.14	0.00	6.13	0.01	0.00
7.75	1.13	0.00	6.13	0.01	0.00	7.76	1.11	0.00	6.12	0.01	0.00
7.77	1.11	0.00	6.12	0.01	0.00	7.78	1.12	0.00	6.11	0.01	0.00
7.79	1.12	0.00	6.11	0.01	0.00	7.80	1.12	0.00	6.10	0.01	0.00
7.81	1.13	0.00	6.09	0.01	0.00	7.82	1.13	0.00	6.09	0.01	0.00
7.83	1.14	0.00	6.08	0.01	0.00	7.84	1.13	0.00	6.08	0.01	0.00
7.85	1.12	0.00	6.08	0.01	0.00	7.86	1.11	0.00	6.07	0.01	0.00
7.87	1.12	0.00	6.07	0.01	0.00	7.88	1.10	0.00	6.06	0.01	0.00
7.89	1.08	0.00	6.05	0.01	0.00	7.90	1.09	0.00	6.05	0.01	0.00
7.91	1.09	0.00	6.04	0.01	0.00	7.92	1.09	0.00	6.04	0.01	0.00
7.93	1.08	0.00	6.04	0.01	0.00	7.94	1.10	0.00	6.03	0.01	0.00
7.95	1.11	0.00	6.03	0.01	0.00	7.96	1.12	0.00	6.02	0.01	0.00
7.97	1.14	0.00	6.01	0.01	0.00	7.98	1.16	0.00	6.01	0.01	0.00
7.99	1.19	0.00	6.00	0.01	0.00	8.00	1.20	0.00	6.00	0.01	0.00
8.01	1.21	0.00	6.00	0.01	0.00	8.02	1.23	0.00	5.99	0.01	0.00
8.03	1.20	0.00	5.99	0.01	0.00	8.04	1.22	0.00	5.98	0.01	0.00
8.05	1.21	0.00	5.97	0.01	0.00	8.06	1.20	0.00	5.97	0.01	0.00
8.07	1.11	0.00	5.96	0.01	0.00	8.08	1.09	0.00	5.96	0.01	0.00
8.09	1.08	0.00	5.96	0.01	0.00	8.10	1.08	0.00	5.95	0.01	0.00
8.11	1.09	0.00	5.95	0.01	0.00	8.12	1.09	0.00	5.94	0.01	0.00
8.13	1.09	0.00	5.93	0.01	0.00	8.14	1.08	0.00	5.93	0.01	0.00
8.15	1.07	0.00	5.92	0.01	0.00	8.16	1.07	0.00	5.92	0.01	0.00
8.17	1.06	0.00	5.92	0.01	0.00	8.18	1.06	0.00	5.91	0.01	0.00
8.19	1.05	0.00	5.91	0.01	0.00	8.20	1.05	0.00	5.90	0.01	0.00
8.21	1.05	0.00	5.89	0.01	0.00	8.22	1.04	0.00	5.89	0.01	0.00
8.23	1.03	0.00	5.88	0.01	0.00	8.24	1.02	0.00	5.88	0.01	0.00
8.25	1.02	0.00	5.88	0.01	0.00	8.26	1.01	0.00	5.87	0.01	0.00
8.27	1.01	0.00	5.87	0.01	0.00	8.28	0.99	0.01	5.86	0.01	0.00
8.29	0.97	0.03	5.86	0.01	0.00	8.30	0.98	0.02	5.85	0.01	0.00
8.31	0.97	0.03	5.84	0.01	0.00	8.32	0.95	0.05	5.84	0.01	0.00
8.33	0.92	0.08	5.83	0.01	0.00	8.34	0.95	0.05	5.83	0.01	0.00
8.35	0.95	0.05	5.83	0.01	0.00	8.36	0.94	0.06	5.82	0.01	0.00
8.37	0.95	0.05	5.82	0.01	0.00	8.38	0.96	0.04	5.81	0.01	0.00
8.39	0.97	0.03	5.80	0.01	0.00	8.40	0.98	0.02	5.80	0.01	0.00
8.41	1.00	0.00	5.79	0.01	0.00	8.42	1.01	0.00	5.79	0.01	0.00
8.43	1.02	0.00	5.79	0.01	0.00	8.44	1.03	0.00	5.78	0.01	0.00
8.45	1.04	0.00	5.78	0.01	0.00	8.46	1.06	0.00	5.77	0.01	0.00
8.47	1.07	0.00	5.76	0.01	0.00	8.48	1.07	0.00	5.76	0.01	0.00
8.49	1.08	0.00	5.75	0.01	0.00	8.50	1.09	0.00	5.75	0.01	0.00
8.51	1.09	0.00	5.75	0.01	0.00	8.52	1.08	0.00	5.74	0.01	0.00
8.53	1.08	0.00	5.74	0.01	0.00	8.54	1.09	0.00	5.73	0.01	0.00
8.55	1.10	0.00	5.72	0.01	0.00	8.56	1.12	0.00	5.72	0.01	0.00
8.57	1.15	0.00	5.71	0.01	0.00	8.58	1.15	0.00	5.71	0.01	0.00
8.59	1.19	0.00	5.71	0.01	0.00	8.60	1.23	0.00	5.70	0.01	0.00
8.61	1.20	0.00	5.70	0.01	0.00	8.62	1.23	0.00	5.69	0.01	0.00
8.63	1.24	0.00	5.68	0.01	0.00	8.64	1.23	0.00	5.68	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
8.65	1.23	0.00	5.67	0.01	0.00	8.66	1.22	0.00	5.67	0.01	0.00
8.67	1.25	0.00	5.67	0.01	0.00	8.68	1.23	0.00	5.66	0.01	0.00
8.69	1.21	0.00	5.66	0.01	0.00	8.70	1.19	0.00	5.65	0.01	0.00
8.71	1.16	0.00	5.64	0.01	0.00	8.72	1.13	0.00	5.64	0.01	0.00
8.73	1.11	0.00	5.63	0.01	0.00	8.74	1.10	0.00	5.63	0.01	0.00
8.75	1.10	0.00	5.63	0.01	0.00	8.76	1.09	0.00	5.62	0.01	0.00
8.77	1.08	0.00	5.62	0.01	0.00	8.78	1.09	0.00	5.61	0.01	0.00
8.79	1.09	0.00	5.61	0.01	0.00	8.80	1.09	0.00	5.60	0.01	0.00
8.81	1.10	0.00	5.59	0.01	0.00	8.82	1.11	0.00	5.59	0.01	0.00
8.83	1.11	0.00	5.58	0.01	0.00	8.84	1.11	0.00	5.58	0.01	0.00
8.85	1.10	0.00	5.58	0.01	0.00	8.86	1.11	0.00	5.57	0.01	0.00
8.87	1.12	0.00	5.57	0.01	0.00	8.88	1.09	0.00	5.56	0.01	0.00
8.89	1.10	0.00	5.55	0.01	0.00	8.90	1.11	0.00	5.55	0.01	0.00
8.91	1.10	0.00	5.54	0.01	0.00	8.92	1.13	0.00	5.54	0.01	0.00
8.93	1.12	0.00	5.54	0.01	0.00	8.94	1.14	0.00	5.53	0.01	0.00
8.95	1.18	0.00	5.53	0.01	0.00	8.96	1.20	0.00	5.52	0.01	0.00
8.97	1.17	0.00	5.51	0.01	0.00	8.98	1.19	0.00	5.51	0.01	0.00
8.99	1.21	0.00	5.50	0.01	0.00	9.00	1.18	0.00	5.50	0.01	0.00
9.01	1.21	0.00	5.50	0.01	0.00	9.02	1.19	0.00	5.49	0.01	0.00
9.03	1.19	0.00	5.49	0.01	0.00	9.04	1.21	0.00	5.48	0.01	0.00
9.05	1.17	0.00	5.47	0.01	0.00	9.06	1.11	0.00	5.47	0.01	0.00
9.07	1.13	0.00	5.46	0.01	0.00	9.08	1.09	0.00	5.46	0.01	0.00
9.09	1.05	0.00	5.46	0.01	0.00	9.10	1.05	0.00	5.45	0.01	0.00
9.11	1.06	0.00	5.45	0.01	0.00	9.12	1.07	0.00	5.44	0.01	0.00
9.13	1.05	0.00	5.43	0.01	0.00	9.14	1.06	0.00	5.43	0.01	0.00
9.15	1.07	0.00	5.42	0.01	0.00	9.16	1.08	0.00	5.42	0.01	0.00
9.17	1.08	0.00	5.42	0.01	0.00	9.18	1.08	0.00	5.41	0.01	0.00
9.19	1.09	0.00	5.41	0.01	0.00	9.20	1.09	0.00	5.40	0.01	0.00
9.21	1.09	0.00	5.39	0.01	0.00	9.22	1.09	0.00	5.39	0.01	0.00
9.23	1.09	0.00	5.38	0.01	0.00	9.24	1.08	0.00	5.38	0.01	0.00
9.25	1.08	0.00	5.38	0.01	0.00	9.26	1.08	0.00	5.37	0.01	0.00
9.27	1.08	0.00	5.37	0.01	0.00	9.28	1.08	0.00	5.36	0.01	0.00
9.29	1.09	0.00	5.36	0.01	0.00	9.30	1.09	0.00	5.35	0.01	0.00
9.31	1.10	0.00	5.34	0.01	0.00	9.32	1.08	0.00	5.34	0.01	0.00
9.33	1.08	0.00	5.33	0.01	0.00	9.34	1.08	0.00	5.33	0.01	0.00
9.35	1.07	0.00	5.33	0.01	0.00	9.36	1.05	0.00	5.32	0.01	0.00
9.37	1.07	0.00	5.32	0.01	0.00	9.38	1.05	0.00	5.31	0.01	0.00
9.39	1.03	0.00	5.30	0.01	0.00	9.40	1.03	0.00	5.30	0.01	0.00
9.41	1.02	0.00	5.29	0.01	0.00	9.42	1.02	0.00	5.29	0.01	0.00
9.43	1.01	0.00	5.29	0.01	0.00	9.44	1.01	0.00	5.28	0.01	0.00
9.45	1.00	0.00	5.28	0.01	0.00	9.46	1.00	0.00	5.27	0.01	0.00
9.47	1.00	0.00	5.26	0.01	0.00	9.48	0.99	0.01	5.26	0.01	0.00
9.49	0.99	0.01	5.25	0.01	0.00	9.50	1.00	0.00	5.25	0.01	0.00
9.51	0.99	0.01	5.25	0.01	0.00	9.52	1.03	0.00	5.24	0.01	0.00
9.53	1.01	0.00	5.24	0.01	0.00	9.54	0.95	0.05	5.23	0.01	0.00
9.55	0.97	0.03	5.22	0.01	0.00	9.56	0.97	0.03	5.22	0.01	0.00
9.57	0.93	0.07	5.21	0.01	0.00	9.58	0.91	0.09	5.21	0.01	0.00
9.59	0.92	0.08	5.21	0.01	0.00	9.60	0.92	0.08	5.20	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
9.61	0.92	0.08	5.20	0.01	0.00	9.62	0.93	0.07	5.19	0.01	0.00
9.63	0.95	0.05	5.18	0.01	0.00	9.64	0.98	0.02	5.18	0.01	0.00
9.65	1.00	0.00	5.17	0.01	0.00	9.66	1.02	0.00	5.17	0.01	0.00
9.67	1.05	0.00	5.17	0.01	0.00	9.68	1.07	0.00	5.16	0.01	0.00
9.69	1.09	0.00	5.16	0.01	0.00	9.70	1.12	0.00	5.15	0.01	0.00
9.71	1.14	0.00	5.14	0.01	0.00	9.72	1.15	0.00	5.14	0.01	0.00
9.73	1.20	0.00	5.13	0.01	0.00	9.74	1.20	0.00	5.13	0.01	0.00
9.75	1.21	0.00	5.13	0.01	0.00	9.76	1.16	0.00	5.12	0.01	0.00
9.77	1.16	0.00	5.12	0.01	0.00	9.78	1.16	0.00	5.11	0.01	0.00
9.79	1.11	0.00	5.11	0.01	0.00	9.80	1.10	0.00	5.10	0.01	0.00
9.81	1.10	0.00	5.09	0.01	0.00	9.82	1.09	0.00	5.09	0.01	0.00
9.83	1.09	0.00	5.08	0.01	0.00	9.84	1.09	0.00	5.08	0.01	0.00
9.85	1.09	0.00	5.08	0.01	0.00	9.86	1.08	0.00	5.07	0.01	0.00
9.87	1.07	0.00	5.07	0.01	0.00	9.88	1.06	0.00	5.06	0.01	0.00
9.89	1.06	0.00	5.05	0.01	0.00	9.90	1.05	0.00	5.05	0.01	0.00
9.91	1.05	0.00	5.04	0.01	0.00	9.92	1.04	0.00	5.04	0.01	0.00
9.93	1.04	0.00	5.04	0.01	0.00	9.94	1.03	0.00	5.03	0.01	0.00
9.95	1.02	0.00	5.03	0.01	0.00	9.96	1.02	0.00	5.02	0.01	0.00
9.97	1.02	0.00	5.01	0.01	0.00	9.98	1.02	0.00	5.01	0.01	0.00
9.99	1.02	0.00	5.00	0.01	0.00	10.00	1.02	0.00	5.00	0.01	0.00
10.01	1.03	0.00	5.00	0.01	0.00	10.02	1.02	0.00	4.99	0.01	0.00
10.03	1.02	0.00	4.99	0.01	0.00	10.04	1.02	0.00	4.98	0.01	0.00
10.05	1.01	0.00	4.97	0.01	0.00	10.06	1.01	0.00	4.97	0.01	0.00
10.07	0.98	0.02	4.96	0.01	0.00	10.08	0.98	0.02	4.96	0.01	0.00
10.09	0.97	0.03	4.96	0.01	0.00	10.10	0.98	0.02	4.95	0.01	0.00
10.11	0.99	0.01	4.95	0.01	0.00	10.12	0.98	0.02	4.94	0.01	0.00
10.13	0.99	0.01	4.93	0.01	0.00	10.14	0.98	0.02	4.93	0.01	0.00
10.15	1.00	0.00	4.92	0.01	0.00	10.16	0.98	0.02	4.92	0.01	0.00
10.17	0.99	0.01	4.92	0.01	0.00	10.18	0.98	0.02	4.91	0.01	0.00
10.19	0.98	0.02	4.91	0.01	0.00	10.20	1.01	0.00	4.90	0.01	0.00
10.21	1.01	0.00	4.89	0.01	0.00	10.22	1.03	0.00	4.89	0.01	0.00
10.23	1.06	0.00	4.88	0.01	0.00	10.24	1.06	0.00	4.88	0.01	0.00
10.25	1.07	0.00	4.88	0.01	0.00	10.26	1.09	0.00	4.87	0.01	0.00
10.27	1.10	0.00	4.87	0.01	0.00	10.28	1.09	0.00	4.86	0.01	0.00
10.29	1.10	0.00	4.86	0.01	0.00	10.30	1.10	0.00	4.85	0.01	0.00
10.31	1.10	0.00	4.84	0.01	0.00	10.32	1.09	0.00	4.84	0.01	0.00
10.33	1.08	0.00	4.83	0.01	0.00	10.34	1.08	0.00	4.83	0.01	0.00
10.35	1.07	0.00	4.83	0.01	0.00	10.36	1.07	0.00	4.82	0.01	0.00
10.37	1.06	0.00	4.82	0.01	0.00	10.38	1.06	0.00	4.81	0.01	0.00
10.39	1.05	0.00	4.80	0.01	0.00	10.40	1.05	0.00	4.80	0.01	0.00
10.41	1.03	0.00	4.79	0.01	0.00	10.42	1.03	0.00	4.79	0.01	0.00
10.43	1.03	0.00	4.79	0.01	0.00	10.44	1.03	0.00	4.78	0.01	0.00
10.45	1.02	0.00	4.78	0.01	0.00	10.46	1.02	0.00	4.77	0.01	0.00
10.47	1.01	0.00	4.76	0.01	0.00	10.48	1.01	0.00	4.76	0.01	0.00
10.49	1.01	0.00	4.75	0.01	0.00	10.50	1.01	0.00	4.75	0.01	0.00
10.51	1.01	0.00	4.75	0.01	0.00	10.52	1.01	0.00	4.74	0.01	0.00
10.53	1.01	0.00	4.74	0.01	0.00	10.54	1.01	0.00	4.73	0.01	0.00
10.55	1.01	0.00	4.72	0.01	0.00	10.56	1.01	0.00	4.72	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
10.57	1.01	0.00	4.71	0.01	0.00	10.58	1.02	0.00	4.71	0.01	0.00
10.59	1.01	0.00	4.71	0.01	0.00	10.60	1.02	0.00	4.70	0.01	0.00
10.61	1.03	0.00	4.70	0.01	0.00	10.62	1.03	0.00	4.69	0.01	0.00
10.63	1.02	0.00	4.68	0.01	0.00	10.64	1.01	0.00	4.68	0.01	0.00
10.65	1.02	0.00	4.67	0.01	0.00	10.66	1.00	0.00	4.67	0.01	0.00
10.67	1.01	0.00	4.67	0.01	0.00	10.68	0.99	0.01	4.66	0.01	0.00
10.69	0.97	0.03	4.66	0.01	0.00	10.70	0.96	0.04	4.65	0.01	0.00
10.71	0.97	0.03	4.64	0.01	0.00	10.72	0.95	0.05	4.64	0.01	0.00
10.73	0.96	0.04	4.63	0.01	0.00	10.74	0.98	0.02	4.63	0.01	0.00
10.75	0.99	0.01	4.63	0.01	0.00	10.76	1.01	0.00	4.62	0.01	0.00
10.77	1.04	0.00	4.62	0.01	0.00	10.78	1.06	0.00	4.61	0.01	0.00
10.79	1.09	0.00	4.61	0.01	0.00	10.80	1.11	0.00	4.60	0.01	0.00
10.81	1.13	0.00	4.59	0.01	0.00	10.82	1.15	0.00	4.59	0.01	0.00
10.83	1.15	0.00	4.58	0.01	0.00	10.84	1.18	0.00	4.58	0.01	0.00
10.85	1.19	0.00	4.58	0.01	0.00	10.86	1.20	0.00	4.57	0.01	0.00
10.87	1.20	0.00	4.57	0.01	0.00	10.88	1.21	0.00	4.56	0.01	0.00
10.89	1.22	0.00	4.55	0.01	0.00	10.90	1.23	0.00	4.55	0.01	0.00
10.91	1.23	0.00	4.54	0.01	0.00	10.92	1.23	0.00	4.54	0.01	0.00
10.93	1.22	0.00	4.54	0.01	0.00	10.94	1.23	0.00	4.53	0.01	0.00
10.95	1.23	0.00	4.53	0.01	0.00	10.96	1.23	0.00	4.52	0.01	0.00
10.97	1.23	0.00	4.51	0.01	0.00	10.98	1.23	0.00	4.51	0.01	0.00
10.99	1.22	0.00	4.50	0.01	0.00	11.00	1.23	0.00	4.50	0.01	0.00
11.01	1.22	0.00	4.50	0.01	0.00	11.02	1.21	0.00	4.49	0.01	0.00
11.03	1.20	0.00	4.49	0.01	0.00	11.04	1.19	0.00	4.48	0.01	0.00
11.05	1.13	0.00	4.47	0.01	0.00	11.06	1.07	0.00	4.47	0.01	0.00
11.07	1.06	0.00	4.46	0.01	0.00	11.08	1.02	0.00	4.46	0.01	0.00
11.09	0.96	0.04	4.46	0.01	0.00	11.10	0.99	0.01	4.45	0.01	0.00
11.11	1.01	0.00	4.45	0.01	0.00	11.12	1.02	0.00	4.44	0.01	0.00
11.13	1.04	0.00	4.43	0.01	0.00	11.14	1.05	0.00	4.43	0.01	0.00
11.15	1.08	0.00	4.42	0.01	0.00	11.16	1.10	0.00	4.42	0.01	0.00
11.17	1.11	0.00	4.42	0.01	0.00	11.18	1.13	0.00	4.41	0.01	0.00
11.19	1.12	0.00	4.41	0.01	0.00	11.20	1.14	0.00	4.40	0.01	0.00
11.21	1.14	0.00	4.39	0.01	0.00	11.22	1.16	0.00	4.39	0.01	0.00
11.23	1.17	0.00	4.38	0.01	0.00	11.24	1.18	0.00	4.38	0.01	0.00
11.25	1.22	0.00	4.38	0.01	0.00	11.26	1.21	0.00	4.37	0.01	0.00
11.27	1.24	0.00	4.37	0.01	0.00	11.28	1.32	0.00	4.36	0.01	0.00
11.29	1.29	0.00	4.36	0.01	0.00	11.30	1.31	0.00	4.35	0.01	0.00
11.31	1.31	0.00	4.34	0.01	0.00	11.32	1.32	0.00	4.34	0.01	0.00
11.33	1.35	0.00	4.33	0.01	0.00	11.34	1.32	0.00	4.33	0.01	0.00
11.35	1.33	0.00	4.33	0.01	0.00	11.36	1.31	0.00	4.32	0.01	0.00
11.37	1.32	0.00	4.32	0.01	0.00	11.38	1.29	0.00	4.31	0.01	0.00
11.39	1.27	0.00	4.30	0.01	0.00	11.40	1.27	0.00	4.30	0.01	0.00
11.41	1.26	0.00	4.29	0.01	0.00	11.42	1.25	0.00	4.29	0.01	0.00
11.43	1.25	0.00	4.29	0.01	0.00	11.44	1.24	0.00	4.28	0.01	0.00
11.45	1.24	0.00	4.28	0.01	0.00	11.46	1.24	0.00	4.27	0.01	0.00
11.47	1.23	0.00	4.26	0.01	0.00	11.48	1.21	0.00	4.26	0.01	0.00
11.49	1.19	0.00	4.25	0.01	0.00	11.50	1.20	0.00	4.25	0.01	0.00
11.51	1.19	0.00	4.25	0.01	0.00	11.52	1.19	0.00	4.24	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
11.53	1.18	0.00	4.24	0.01	0.00	11.54	1.18	0.00	4.23	0.01	0.00
11.55	1.19	0.00	4.22	0.01	0.00	11.56	1.17	0.00	4.22	0.01	0.00
11.57	1.20	0.00	4.21	0.01	0.00	11.58	1.25	0.00	4.21	0.01	0.00
11.59	1.24	0.00	4.21	0.01	0.00	11.60	1.28	0.00	4.20	0.01	0.00
11.61	1.31	0.00	4.20	0.01	0.00	11.62	1.28	0.00	4.19	0.01	0.00
11.63	1.30	0.00	4.18	0.01	0.00	11.64	1.32	0.00	4.18	0.01	0.00
11.65	1.29	0.00	4.17	0.01	0.00	11.66	1.29	0.00	4.17	0.01	0.00
11.67	1.29	0.00	4.17	0.01	0.00	11.68	1.28	0.00	4.16	0.01	0.00
11.69	1.26	0.00	4.16	0.01	0.00	11.70	1.25	0.00	4.15	0.01	0.00
11.71	1.27	0.00	4.14	0.01	0.00	11.72	1.21	0.00	4.14	0.01	0.00
11.73	1.22	0.00	4.13	0.01	0.00	11.74	1.18	0.00	4.13	0.01	0.00
11.75	1.19	0.00	4.13	0.01	0.00	11.76	1.16	0.00	4.12	0.01	0.00
11.77	1.13	0.00	4.12	0.01	0.00	11.78	1.14	0.00	4.11	0.01	0.00
11.79	1.14	0.00	4.11	0.01	0.00	11.80	1.15	0.00	4.10	0.01	0.00
11.81	1.17	0.00	4.09	0.01	0.00	11.82	1.19	0.00	4.09	0.01	0.00
11.83	1.23	0.00	4.08	0.01	0.00	11.84	1.25	0.00	4.08	0.01	0.00
11.85	1.28	0.00	4.08	0.01	0.00	11.86	1.34	0.00	4.07	0.01	0.00
11.87	1.37	0.00	4.07	0.01	0.00	11.88	1.31	0.00	4.06	0.01	0.00
11.89	1.32	0.00	4.05	0.01	0.00	11.90	1.34	0.00	4.05	0.01	0.00
11.91	1.33	0.00	4.04	0.01	0.00	11.92	1.27	0.00	4.04	0.01	0.00
11.93	1.26	0.00	4.04	0.01	0.00	11.94	1.25	0.00	4.03	0.01	0.00
11.95	1.25	0.00	4.03	0.01	0.00	11.96	1.25	0.00	4.02	0.01	0.00
11.97	1.29	0.00	4.01	0.01	0.00	11.98	1.29	0.00	4.01	0.01	0.00
11.99	1.27	0.00	4.00	0.01	0.00	12.00	1.26	0.00	4.00	0.01	0.00
12.01	1.27	0.00	4.00	0.01	0.00	12.02	1.24	0.00	3.99	0.01	0.00
12.03	1.17	0.00	3.98	0.01	0.00	12.04	1.18	0.00	3.98	0.01	0.00
12.05	1.20	0.00	3.98	0.01	0.00	12.06	1.22	0.00	3.97	0.01	0.00
12.07	1.08	0.00	3.96	0.01	0.00	12.08	1.09	0.00	3.96	0.01	0.00
12.09	1.10	0.00	3.96	0.01	0.00	12.10	1.11	0.00	3.95	0.01	0.00
12.11	1.13	0.00	3.94	0.01	0.00	12.12	1.14	0.00	3.94	0.01	0.00
12.13	1.14	0.00	3.94	0.01	0.00	12.14	1.14	0.00	3.93	0.01	0.00
12.15	1.18	0.00	3.92	0.01	0.00	12.16	1.15	0.00	3.92	0.01	0.00
12.17	1.12	0.00	3.92	0.01	0.00	12.18	1.15	0.00	3.91	0.01	0.00
12.19	1.11	0.00	3.90	0.01	0.00	12.20	1.07	0.00	3.90	0.01	0.00
12.21	1.05	0.00	3.90	0.01	0.00	12.22	1.03	0.00	3.89	0.01	0.00
12.23	1.02	0.00	3.88	0.01	0.00	12.24	1.02	0.00	3.88	0.01	0.00
12.25	1.01	0.00	3.88	0.01	0.00	12.26	1.01	0.00	3.87	0.01	0.00
12.27	1.01	0.00	3.87	0.01	0.00	12.28	1.03	0.00	3.86	0.01	0.00
12.29	1.05	0.00	3.85	0.01	0.00	12.30	1.10	0.00	3.85	0.01	0.00
12.31	1.13	0.00	3.85	0.01	0.00	12.32	1.15	0.00	3.84	0.01	0.00
12.33	1.16	0.00	3.83	0.01	0.00	12.34	1.18	0.00	3.83	0.01	0.00
12.35	1.19	0.00	3.83	0.01	0.00	12.36	1.21	0.00	3.82	0.01	0.00
12.37	1.22	0.00	3.81	0.01	0.00	12.38	1.23	0.00	3.81	0.01	0.00
12.39	1.25	0.00	3.81	0.01	0.00	12.40	1.25	0.00	3.80	0.01	0.00
12.41	1.30	0.00	3.79	0.01	0.00	12.42	1.38	0.00	3.79	0.01	0.00
12.43	1.38	0.00	3.79	0.01	0.00	12.44	1.46	0.00	3.78	0.01	0.00
12.45	1.56	0.00	3.77	0.01	0.00	12.46	1.55	0.00	3.77	0.01	0.00
12.47	1.58	0.00	3.77	0.01	0.00	12.48	1.60	0.00	3.76	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
12.49	1.61	0.00	3.75	0.01	0.00	12.50	1.63	0.00	3.75	0.01	0.00
12.51	1.59	0.00	3.75	0.01	0.00	12.52	1.50	0.00	3.74	0.01	0.00
12.53	1.55	0.00	3.73	0.01	0.00	12.54	1.49	0.00	3.73	0.01	0.00
12.55	1.44	0.00	3.73	0.01	0.00	12.56	1.41	0.00	3.72	0.01	0.00
12.57	1.40	0.00	3.71	0.01	0.00	12.58	1.40	0.00	3.71	0.01	0.00
12.59	1.37	0.00	3.71	0.01	0.00	12.60	1.48	0.00	3.70	0.01	0.00
12.61	1.45	0.00	3.69	0.01	0.00	12.62	1.43	0.00	3.69	0.01	0.00
12.63	1.49	0.00	3.69	0.01	0.00	12.64	1.53	0.00	3.68	0.01	0.00
12.65	1.51	0.00	3.67	0.01	0.00	12.66	1.53	0.00	3.67	0.01	0.00
12.67	1.54	0.00	3.67	0.01	0.00	12.68	1.52	0.00	3.66	0.01	0.00
12.69	1.52	0.00	3.65	0.01	0.00	12.70	1.51	0.00	3.65	0.01	0.00
12.71	1.49	0.00	3.65	0.01	0.00	12.72	1.47	0.00	3.64	0.01	0.00
12.73	1.45	0.00	3.63	0.01	0.00	12.74	1.44	0.00	3.63	0.01	0.00
12.75	1.41	0.00	3.63	0.01	0.00	12.76	1.39	0.00	3.62	0.01	0.00
12.77	1.38	0.00	3.62	0.01	0.00	12.78	1.36	0.00	3.61	0.01	0.00
12.79	1.37	0.00	3.60	0.01	0.00	12.80	1.36	0.00	3.60	0.01	0.00
12.81	1.34	0.00	3.60	0.01	0.00	12.82	1.35	0.00	3.59	0.01	0.00
12.83	1.35	0.00	3.58	0.01	0.00	12.84	1.29	0.00	3.58	0.01	0.00
12.85	1.28	0.00	3.58	0.01	0.00	12.86	1.28	0.00	3.57	0.01	0.00
12.87	1.22	0.00	3.56	0.01	0.00	12.88	1.21	0.00	3.56	0.01	0.00
12.89	1.21	0.00	3.56	0.01	0.00	12.90	1.20	0.00	3.55	0.01	0.00
12.91	1.18	0.00	3.54	0.01	0.00	12.92	1.18	0.00	3.54	0.01	0.00
12.93	1.18	0.00	3.54	0.01	0.00	12.94	1.17	0.00	3.53	0.01	0.00
12.95	1.17	0.00	3.52	0.01	0.00	12.96	1.16	0.00	3.52	0.01	0.00
12.97	1.18	0.00	3.52	0.01	0.00	12.98	1.15	0.00	3.51	0.01	0.00
12.99	1.16	0.00	3.50	0.01	0.00	13.00	1.17	0.00	3.50	0.01	0.00
13.01	1.16	0.00	3.50	0.01	0.00	13.02	1.14	0.00	3.49	0.01	0.00
13.03	1.14	0.00	3.48	0.01	0.00	13.04	1.18	0.00	3.48	0.01	0.00
13.05	1.10	0.00	3.48	0.01	0.00	13.06	1.01	0.00	3.47	0.01	0.00
13.07	1.06	0.00	3.46	0.01	0.00	13.08	0.99	0.01	3.46	0.01	0.00
13.09	0.94	0.06	3.46	0.01	0.00	13.10	0.97	0.03	3.45	0.01	0.00
13.11	0.94	0.06	3.44	0.01	0.00	13.12	1.01	0.00	3.44	0.01	0.00
13.13	1.03	0.00	3.44	0.01	0.00	13.14	1.05	0.00	3.43	0.01	0.00
13.15	1.07	0.00	3.42	0.01	0.00	13.16	1.09	0.00	3.42	0.01	0.00
13.17	1.09	0.00	3.42	0.01	0.00	13.18	1.13	0.00	3.41	0.01	0.00
13.19	1.14	0.00	3.40	0.01	0.00	13.20	1.15	0.00	3.40	0.01	0.00
13.21	1.18	0.00	3.40	0.01	0.00	13.22	1.22	0.00	3.39	0.01	0.00
13.23	1.31	0.00	3.38	0.01	0.00	13.24	1.35	0.00	3.38	0.01	0.00
13.25	1.44	0.00	3.38	0.01	0.00	13.26	1.53	0.00	3.37	0.01	0.00
13.27	1.57	0.00	3.37	0.01	0.00	13.28	1.51	0.00	3.36	0.01	0.00
13.29	1.54	0.00	3.35	0.01	0.00	13.30	1.56	0.00	3.35	0.01	0.00
13.31	1.54	0.00	3.35	0.01	0.00	13.32	1.53	0.00	3.34	0.01	0.00
13.33	1.55	0.00	3.33	0.01	0.00	13.34	1.54	0.00	3.33	0.01	0.00
13.35	1.52	0.00	3.33	0.01	0.00	13.36	1.48	0.00	3.32	0.01	0.00
13.37	1.49	0.00	3.31	0.01	0.00	13.38	1.47	0.00	3.31	0.01	0.00
13.39	1.44	0.00	3.31	0.01	0.00	13.40	1.36	0.00	3.30	0.01	0.00
13.41	1.34	0.00	3.29	0.01	0.00	13.42	1.29	0.00	3.29	0.01	0.00
13.43	1.28	0.00	3.29	0.01	0.00	13.44	1.23	0.00	3.28	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
13.45	1.23	0.00	3.27	0.01	0.00	13.46	1.19	0.00	3.27	0.01	0.00
13.47	1.20	0.00	3.27	0.01	0.00	13.48	1.22	0.00	3.26	0.01	0.00
13.49	1.25	0.00	3.25	0.01	0.00	13.50	1.28	0.00	3.25	0.01	0.00
13.51	1.30	0.00	3.25	0.01	0.00	13.52	1.42	0.00	3.24	0.01	0.00
13.53	1.44	0.00	3.23	0.01	0.00	13.54	1.49	0.00	3.23	0.01	0.00
13.55	1.50	0.00	3.23	0.01	0.00	13.56	1.54	0.00	3.22	0.01	0.00
13.57	1.59	0.00	3.21	0.01	0.00	13.58	1.61	0.00	3.21	0.01	0.00
13.59	1.61	0.00	3.21	0.01	0.00	13.60	1.61	0.00	3.20	0.01	0.00
13.61	1.64	0.00	3.19	0.01	0.00	13.62	1.64	0.00	3.19	0.01	0.00
13.63	1.61	0.00	3.19	0.01	0.00	13.64	1.58	0.00	3.18	0.01	0.00
13.65	1.58	0.00	3.17	0.01	0.00	13.66	1.58	0.00	3.17	0.01	0.00
13.67	1.51	0.00	3.17	0.01	0.00	13.68	1.53	0.00	3.16	0.01	0.00
13.69	1.52	0.00	3.15	0.01	0.00	13.70	1.41	0.00	3.15	0.01	0.00
13.71	1.51	0.00	3.15	0.01	0.00	13.72	1.38	0.00	3.14	0.01	0.00
13.73	1.28	0.00	3.13	0.01	0.00	13.74	1.28	0.00	3.13	0.01	0.00
13.75	1.26	0.00	3.13	0.01	0.00	13.76	1.20	0.00	3.12	0.01	0.00
13.77	1.19	0.00	3.12	0.01	0.00	13.78	1.18	0.00	3.11	0.01	0.00
13.79	1.16	0.00	3.10	0.01	0.00	13.80	1.14	0.00	3.10	0.01	0.00
13.81	1.13	0.00	3.10	0.01	0.00	13.82	1.12	0.00	3.09	0.01	0.00
13.83	1.11	0.00	3.08	0.01	0.00	13.84	1.10	0.00	3.08	0.01	0.00
13.85	1.10	0.00	3.08	0.01	0.00	13.86	1.09	0.00	3.07	0.01	0.00
13.87	1.08	0.00	3.06	0.01	0.00	13.88	1.07	0.00	3.06	0.01	0.00
13.89	1.07	0.00	3.06	0.01	0.00	13.90	1.07	0.00	3.05	0.01	0.00
13.91	1.06	0.00	3.04	0.01	0.00	13.92	1.06	0.00	3.04	0.01	0.00
13.93	1.06	0.00	3.04	0.01	0.00	13.94	1.07	0.00	3.03	0.01	0.00
13.95	1.07	0.00	3.02	0.01	0.00	13.96	1.07	0.00	3.02	0.01	0.00
13.97	1.07	0.00	3.02	0.01	0.00	13.98	1.09	0.00	3.01	0.01	0.00
13.99	1.08	0.00	3.00	0.01	0.00	14.00	1.11	0.00	3.00	0.01	0.00
14.01	1.11	0.00	3.00	0.01	0.00	14.02	1.10	0.00	2.99	0.01	0.00
14.03	1.10	0.00	2.98	0.01	0.00	14.04	1.16	0.00	2.98	0.01	0.00
14.05	1.07	0.00	2.98	0.01	0.00	14.06	0.98	0.02	2.97	0.01	0.00
14.07	1.05	0.00	2.96	0.01	0.00	14.08	0.99	0.01	2.96	0.01	0.00
14.09	0.93	0.07	2.96	0.01	0.00	14.10	0.93	0.07	2.95	0.01	0.00
14.11	0.95	0.05	2.94	0.01	0.00	14.12	0.95	0.05	2.94	0.01	0.00
14.13	1.00	0.00	2.94	0.01	0.00	14.14	1.01	0.00	2.93	0.01	0.00
14.15	1.03	0.00	2.92	0.01	0.00	14.16	1.06	0.00	2.92	0.01	0.00
14.17	1.07	0.00	2.92	0.01	0.00	14.18	1.10	0.00	2.91	0.01	0.00
14.19	1.13	0.00	2.90	0.01	0.00	14.20	1.16	0.00	2.90	0.01	0.00
14.21	1.21	0.00	2.90	0.01	0.00	14.22	1.25	0.00	2.89	0.01	0.00
14.23	1.31	0.00	2.88	0.01	0.00	14.24	1.38	0.00	2.88	0.01	0.00
14.25	1.41	0.00	2.88	0.01	0.00	14.26	1.45	0.00	2.87	0.01	0.00
14.27	1.50	0.00	2.87	0.01	0.00	14.28	1.56	0.00	2.86	0.01	0.00
14.29	1.57	0.00	2.85	0.01	0.00	14.30	1.63	0.00	2.85	0.01	0.00
14.31	1.64	0.00	2.85	0.01	0.00	14.32	1.64	0.00	2.84	0.01	0.00
14.33	1.56	0.00	2.83	0.01	0.00	14.34	1.65	0.00	2.83	0.01	0.00
14.35	1.57	0.00	2.83	0.01	0.00	14.36	1.55	0.00	2.82	0.01	0.00
14.37	1.55	0.00	2.81	0.01	0.00	14.38	1.55	0.00	2.81	0.01	0.00
14.39	1.52	0.00	2.81	0.01	0.00	14.40	1.50	0.00	2.80	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
14.41	1.54	0.00	2.79	0.01	0.00	14.42	1.49	0.00	2.79	0.01	0.00
14.43	1.48	0.00	2.79	0.01	0.00	14.44	1.42	0.00	2.78	0.01	0.00
14.45	1.36	0.00	2.77	0.01	0.00	14.46	1.35	0.00	2.77	0.01	0.00
14.47	1.35	0.00	2.77	0.01	0.00	14.48	1.36	0.00	2.76	0.01	0.00
14.49	1.36	0.00	2.75	0.01	0.00	14.50	1.43	0.00	2.75	0.01	0.00
14.51	1.50	0.00	2.75	0.01	0.00	14.52	1.45	0.00	2.74	0.01	0.00
14.53	1.48	0.00	2.73	0.01	0.00	14.54	1.50	0.00	2.73	0.01	0.00
14.55	1.49	0.00	2.73	0.01	0.00	14.56	1.37	0.00	2.72	0.01	0.00
14.57	1.34	0.00	2.71	0.01	0.00	14.58	1.25	0.00	2.71	0.01	0.00
14.59	1.28	0.00	2.71	0.01	0.00	14.60	1.21	0.00	2.70	0.01	0.00
14.61	1.18	0.00	2.69	0.01	0.00	14.62	1.15	0.00	2.69	0.01	0.00
14.63	1.14	0.00	2.69	0.01	0.00	14.64	1.11	0.00	2.68	0.01	0.00
14.65	1.11	0.00	2.67	0.01	0.00	14.66	1.09	0.00	2.67	0.01	0.00
14.67	1.09	0.00	2.67	0.01	0.00	14.68	1.07	0.00	2.66	0.01	0.00
14.69	1.06	0.00	2.65	0.01	0.00	14.70	1.06	0.00	2.65	0.01	0.00
14.71	1.05	0.00	2.65	0.01	0.00	14.72	1.05	0.00	2.64	0.01	0.00
14.73	1.05	0.00	2.63	0.01	0.00	14.74	1.05	0.00	2.63	0.01	0.00
14.75	1.04	0.00	2.63	0.01	0.00	14.76	1.04	0.00	2.62	0.01	0.00
14.77	1.04	0.00	2.62	0.01	0.00	14.78	1.04	0.00	2.61	0.01	0.00
14.79	1.03	0.00	2.60	0.01	0.00	14.80	1.03	0.00	2.60	0.01	0.00
14.81	1.04	0.00	2.60	0.01	0.00	14.82	1.04	0.00	2.59	0.01	0.00
14.83	1.06	0.00	2.58	0.01	0.00	14.84	1.03	0.00	2.58	0.01	0.00
14.85	1.03	0.00	2.58	0.01	0.00	14.86	1.00	0.00	2.57	0.01	0.00
14.87	0.98	0.02	2.56	0.01	0.00	14.88	0.89	0.11	2.56	0.01	0.00
14.89	0.91	0.09	2.56	0.01	0.00	14.90	0.97	0.03	2.55	0.01	0.00
14.91	1.06	0.00	2.54	0.01	0.00	14.92	1.28	0.00	2.54	0.01	0.00
14.93	1.41	0.00	2.54	0.01	0.00	14.94	1.54	0.00	2.53	0.01	0.00
14.95	1.77	0.00	2.52	0.01	0.00	14.96	1.84	0.00	2.52	0.01	0.00
14.97	1.87	0.00	2.52	0.01	0.00	14.98	1.85	0.00	2.51	0.01	0.00
14.99	1.81	0.00	2.50	0.01	0.00	15.00	1.79	0.00	2.50	0.01	0.00
15.01	1.75	0.00	2.50	0.01	0.00	15.02	1.70	0.00	2.49	0.01	0.00
15.03	1.64	0.00	2.48	0.01	0.00	15.04	1.57	0.00	2.48	0.01	0.00
15.05	1.57	0.00	2.48	0.01	0.00	15.06	1.57	0.00	2.47	0.01	0.00
15.07	1.25	0.00	2.46	0.01	0.00	15.08	1.29	0.00	2.46	0.01	0.00
15.09	1.41	0.00	2.46	0.01	0.00	15.10	1.46	0.00	2.45	0.01	0.00
15.11	1.53	0.00	2.44	0.01	0.00	15.12	1.59	0.00	2.44	0.01	0.00
15.13	1.58	0.00	2.44	0.01	0.00	15.14	1.57	0.00	2.43	0.01	0.00
15.15	1.55	0.00	2.42	0.01	0.00	15.16	1.56	0.00	2.42	0.01	0.00
15.17	1.50	0.00	2.42	0.01	0.00	15.18	1.44	0.00	2.41	0.01	0.00
15.19	1.43	0.00	2.40	0.01	0.00	15.20	1.41	0.00	2.40	0.01	0.00
15.21	1.40	0.00	2.40	0.01	0.00	15.22	1.42	0.00	2.39	0.01	0.00
15.23	1.45	0.00	2.38	0.01	0.00	15.24	1.43	0.00	2.38	0.01	0.00
15.25	1.48	0.00	2.38	0.01	0.00	15.26	1.57	0.00	2.37	0.01	0.00
15.27	1.62	0.00	2.37	0.01	0.00	15.28	1.63	0.00	2.36	0.01	0.00
15.29	1.66	0.00	2.35	0.01	0.00	15.30	1.71	0.00	2.35	0.01	0.00
15.31	1.72	0.00	2.35	0.01	0.00	15.32	1.71	0.00	2.34	0.01	0.00
15.33	1.68	0.00	2.33	0.01	0.00	15.34	1.65	0.00	2.33	0.01	0.00
15.35	1.61	0.00	2.33	0.01	0.00	15.36	1.58	0.00	2.32	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
15.37	1.51	0.00	2.31	0.01	0.00	15.38	1.48	0.00	2.31	0.01	0.00
15.39	1.46	0.00	2.31	0.01	0.00	15.40	1.43	0.00	2.30	0.01	0.00
15.41	1.41	0.00	2.29	0.01	0.00	15.42	1.41	0.00	2.29	0.01	0.00
15.43	1.43	0.00	2.29	0.01	0.00	15.44	1.43	0.00	2.28	0.01	0.00
15.45	1.46	0.00	2.27	0.01	0.00	15.46	1.47	0.00	2.27	0.01	0.00
15.47	1.48	0.00	2.27	0.01	0.00	15.48	1.49	0.00	2.26	0.01	0.00
15.49	1.50	0.00	2.25	0.01	0.00	15.50	1.50	0.00	2.25	0.01	0.00
15.51	1.50	0.00	2.25	0.01	0.00	15.52	1.50	0.00	2.24	0.01	0.00
15.53	1.51	0.00	2.23	0.01	0.00	15.54	1.50	0.00	2.23	0.01	0.00
15.55	1.52	0.00	2.23	0.01	0.00	15.56	1.54	0.00	2.22	0.01	0.00
15.57	1.57	0.00	2.21	0.01	0.00	15.58	1.53	0.00	2.21	0.01	0.00
15.59	1.55	0.00	2.21	0.01	0.00	15.60	1.57	0.00	2.20	0.01	0.00
15.61	1.55	0.00	2.19	0.01	0.00	15.62	1.57	0.00	2.19	0.01	0.00
15.63	1.56	0.00	2.19	0.01	0.00	15.64	1.54	0.00	2.18	0.01	0.00
15.65	1.52	0.00	2.17	0.01	0.00	15.66	1.53	0.00	2.17	0.01	0.00
15.67	1.49	0.00	2.17	0.01	0.00	15.68	1.43	0.00	2.16	0.01	0.00
15.69	1.38	0.00	2.15	0.01	0.00	15.70	1.38	0.00	2.15	0.01	0.00
15.71	1.33	0.00	2.15	0.01	0.00	15.72	1.29	0.00	2.14	0.01	0.00
15.73	1.26	0.00	2.13	0.01	0.00	15.74	1.29	0.00	2.13	0.01	0.00
15.75	1.33	0.00	2.13	0.01	0.00	15.76	1.32	0.00	2.12	0.01	0.00
15.77	1.38	0.00	2.12	0.01	0.00	15.78	1.44	0.00	2.11	0.01	0.00
15.79	1.40	0.00	2.10	0.01	0.00	15.80	1.43	0.00	2.10	0.01	0.00
15.81	1.45	0.00	2.10	0.01	0.00	15.82	1.44	0.00	2.09	0.01	0.00
15.83	1.44	0.00	2.08	0.01	0.00	15.84	1.44	0.00	2.08	0.01	0.00
15.85	1.44	0.00	2.08	0.01	0.00	15.86	1.42	0.00	2.07	0.01	0.00
15.87	1.45	0.00	2.06	0.01	0.00	15.88	1.42	0.00	2.06	0.01	0.00
15.89	1.29	0.00	2.06	0.01	0.00	15.90	1.30	0.00	2.05	0.01	0.00
15.91	1.30	0.00	2.04	0.01	0.00	15.92	1.23	0.00	2.04	0.01	0.00
15.93	1.23	0.00	2.04	0.01	0.00	15.94	1.22	0.00	2.03	0.01	0.00
15.95	1.23	0.00	2.02	0.01	0.00	15.96	1.28	0.00	2.02	0.01	0.00
15.97	1.30	0.00	2.02	0.01	0.00	15.98	1.41	0.00	2.01	0.01	0.00
15.99	1.54	0.00	2.00	0.01	0.00	16.00	1.49	0.00	2.00	0.01	0.00
16.01	1.54	0.00	2.00	0.01	0.00	16.02	1.58	0.00	1.99	0.01	0.00
16.03	1.49	0.00	1.99	0.01	0.00	16.04	1.49	0.00	1.98	0.01	0.00
16.05	1.53	0.00	1.98	0.01	0.00	16.06	1.54	0.00	1.97	0.01	0.00
16.07	1.40	0.00	1.97	0.01	0.00	16.08	1.40	0.00	1.96	0.01	0.00
16.09	1.40	0.00	1.96	0.01	0.00	16.10	1.42	0.00	1.95	0.01	0.00
16.11	1.41	0.00	1.95	0.01	0.00	16.12	1.40	0.00	1.94	0.01	0.00
16.13	1.44	0.00	1.94	0.01	0.00	16.14	1.41	0.00	1.93	0.01	0.00
16.15	1.39	0.00	1.93	0.01	0.00	16.16	1.40	0.00	1.92	0.01	0.00
16.17	1.38	0.00	1.92	0.01	0.00	16.18	1.38	0.00	1.91	0.01	0.00
16.19	1.38	0.00	1.91	0.01	0.00	16.20	1.35	0.00	1.90	0.01	0.00
16.21	1.41	0.00	1.90	0.01	0.00	16.22	1.36	0.00	1.89	0.01	0.00
16.23	1.37	0.00	1.89	0.01	0.00	16.24	1.39	0.00	1.88	0.01	0.00
16.25	1.39	0.00	1.88	0.01	0.00	16.26	1.38	0.00	1.87	0.01	0.00
16.27	1.39	0.00	1.86	0.01	0.00	16.28	1.39	0.00	1.86	0.01	0.00
16.29	1.39	0.00	1.85	0.01	0.00	16.30	1.40	0.00	1.85	0.01	0.00
16.31	1.38	0.00	1.84	0.01	0.00	16.32	1.37	0.00	1.84	0.01	0.00

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:: Liquefaction Potential Index calculation data :: (continued)												:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
16.33	1.37	0.00	1.83	0.01	0.00	16.34	1.36	0.00	1.83	0.01	0.00	17.29	1.43	0.00	1.35	0.01	0.00	17.30	1.44	0.00	1.35	0.01	0.00
16.35	1.35	0.00	1.82	0.01	0.00	16.36	1.35	0.00	1.82	0.01	0.00	17.31	1.47	0.00	1.34	0.01	0.00	17.32	1.48	0.00	1.34	0.01	0.00
16.37	1.35	0.00	1.81	0.01	0.00	16.38	1.35	0.00	1.81	0.01	0.00	17.33	1.52	0.00	1.33	0.01	0.00	17.34	1.55	0.00	1.33	0.01	0.00
16.39	1.35	0.00	1.80	0.01	0.00	16.40	1.35	0.00	1.80	0.01	0.00	17.35	1.56	0.00	1.32	0.01	0.00	17.36	1.57	0.00	1.32	0.01	0.00
16.41	1.35	0.00	1.79	0.01	0.00	16.42	1.33	0.00	1.79	0.01	0.00	17.37	1.59	0.00	1.31	0.01	0.00	17.38	1.61	0.00	1.31	0.01	0.00
16.43	1.36	0.00	1.78	0.01	0.00	16.44	1.38	0.00	1.78	0.01	0.00	17.39	1.64	0.00	1.30	0.01	0.00	17.40	1.64	0.00	1.30	0.01	0.00
16.45	1.37	0.00	1.77	0.01	0.00	16.46	1.36	0.00	1.77	0.01	0.00	17.41	1.61	0.00	1.29	0.01	0.00	17.42	1.61	0.00	1.29	0.01	0.00
16.47	1.38	0.00	1.76	0.01	0.00	16.48	1.36	0.00	1.76	0.01	0.00	17.43	1.63	0.00	1.28	0.01	0.00	17.44	1.61	0.00	1.28	0.01	0.00
16.49	1.34	0.00	1.75	0.01	0.00	16.50	1.37	0.00	1.75	0.01	0.00	17.45	1.61	0.00	1.27	0.01	0.00	17.46	1.62	0.00	1.27	0.01	0.00
16.51	1.34	0.00	1.75	0.01	0.00	16.52	1.31	0.00	1.74	0.01	0.00	17.47	1.59	0.00	1.26	0.01	0.00	17.48	1.59	0.00	1.26	0.01	0.00
16.53	1.34	0.00	1.74	0.01	0.00	16.54	1.30	0.00	1.73	0.01	0.00	17.49	1.59	0.00	1.25	0.01	0.00	17.50	1.53	0.00	1.25	0.01	0.00
16.55	1.27	0.00	1.73	0.01	0.00	16.56	1.30	0.00	1.72	0.01	0.00	17.51	1.53	0.00	1.25	0.01	0.00	17.52	1.52	0.00	1.24	0.01	0.00
16.57	1.31	0.00	1.72	0.01	0.00	16.58	1.32	0.00	1.71	0.01	0.00	17.53	1.48	0.00	1.24	0.01	0.00	17.54	1.48	0.00	1.23	0.01	0.00
16.59	1.34	0.00	1.71	0.01	0.00	16.60	1.40	0.00	1.70	0.01	0.00	17.55	1.47	0.00	1.23	0.01	0.00	17.56	1.45	0.00	1.22	0.01	0.00
16.61	1.47	0.00	1.70	0.01	0.00	16.62	1.49	0.00	1.69	0.01	0.00	17.57	1.45	0.00	1.22	0.01	0.00	17.58	1.44	0.00	1.21	0.01	0.00
16.63	1.55	0.00	1.69	0.01	0.00	16.64	1.60	0.00	1.68	0.01	0.00	17.59	1.43	0.00	1.21	0.01	0.00	17.60	1.44	0.00	1.20	0.01	0.00
16.65	1.62	0.00	1.68	0.01	0.00	16.66	1.65	0.00	1.67	0.01	0.00	17.61	1.43	0.00	1.20	0.01	0.00	17.62	1.48	0.00	1.19	0.01	0.00
16.67	1.67	0.00	1.67	0.01	0.00	16.68	1.68	0.00	1.66	0.01	0.00	17.63	1.48	0.00	1.19	0.01	0.00	17.64	1.47	0.00	1.18	0.01	0.00
16.69	1.69	0.00	1.66	0.01	0.00	16.70	1.70	0.00	1.65	0.01	0.00	17.65	1.46	0.00	1.18	0.01	0.00	17.66	1.44	0.00	1.17	0.01	0.00
16.71	1.71	0.00	1.65	0.01	0.00	16.72	1.71	0.00	1.64	0.01	0.00	17.67	1.42	0.00	1.17	0.01	0.00	17.68	1.43	0.00	1.16	0.01	0.00
16.73	1.70	0.00	1.64	0.01	0.00	16.74	1.69	0.00	1.63	0.01	0.00	17.69	1.43	0.00	1.16	0.01	0.00	17.70	1.42	0.00	1.15	0.01	0.00
16.75	1.68	0.00	1.63	0.01	0.00	16.76	1.66	0.00	1.62	0.01	0.00	17.71	1.41	0.00	1.15	0.01	0.00	17.72	1.44	0.00	1.14	0.01	0.00
16.77	1.65	0.00	1.61	0.01	0.00	16.78	1.62	0.00	1.61	0.01	0.00	17.73	1.44	0.00	1.14	0.01	0.00	17.74	1.45	0.00	1.13	0.01	0.00
16.79	1.61	0.00	1.60	0.01	0.00	16.80	1.62	0.00	1.60	0.01	0.00	17.75	1.46	0.00	1.13	0.01	0.00	17.76	1.50	0.00	1.12	0.01	0.00
16.81	1.60	0.00	1.59	0.01	0.00	16.82	1.58	0.00	1.59	0.01	0.00	17.77	1.54	0.00	1.11	0.01	0.00	17.78	1.51	0.00	1.11	0.01	0.00
16.83	1.59	0.00	1.58	0.01	0.00	16.84	1.56	0.00	1.58	0.01	0.00	17.79	1.54	0.00	1.10	0.01	0.00	17.80	1.56	0.00	1.10	0.01	0.00
16.85	1.53	0.00	1.57	0.01	0.00	16.86	1.54	0.00	1.57	0.01	0.00	17.81	1.53	0.00	1.09	0.01	0.00	17.82	1.54	0.00	1.09	0.01	0.00
16.87	1.54	0.00	1.56	0.01	0.00	16.88	1.55	0.00	1.56	0.01	0.00	17.83	1.55	0.00	1.08	0.01	0.00	17.84	1.55	0.00	1.08	0.01	0.00
16.89	1.58	0.00	1.55	0.01	0.00	16.90	1.62	0.00	1.55	0.01	0.00	17.85	1.55	0.00	1.07	0.01	0.00	17.86	1.57	0.00	1.07	0.01	0.00
16.91	1.59	0.00	1.54	0.01	0.00	16.92	1.61	0.00	1.54	0.01	0.00	17.87	1.58	0.00	1.06	0.01	0.00	17.88	1.57	0.00	1.06	0.01	0.00
16.93	1.64	0.00	1.53	0.01	0.00	16.94	1.66	0.00	1.53	0.01	0.00	17.89	1.56	0.00	1.05	0.01	0.00	17.90	1.59	0.00	1.05	0.01	0.00
16.95	1.63	0.00	1.52	0.01	0.00	16.96	1.65	0.00	1.52	0.01	0.00	17.91	1.56	0.00	1.04	0.01	0.00	17.92	1.55	0.00	1.04	0.01	0.00
16.97	1.66	0.00	1.51	0.01	0.00	16.98	1.67	0.00	1.51	0.01	0.00	17.93	1.53	0.00	1.03	0.01	0.00	17.94	1.52	0.00	1.03	0.01	0.00
16.99	1.67	0.00	1.50	0.01	0.00	17.00	1.67	0.00	1.50	0.01	0.00	17.95	1.52	0.00	1.02	0.01	0.00	17.96	1.54	0.00	1.02	0.01	0.00
17.01	1.66	0.00	1.50	0.01	0.00	17.02	1.66	0.00	1.49	0.01	0.00	17.97	1.53	0.00	1.01	0.01	0.00	17.98	1.52	0.00	1.01	0.01	0.00
17.03	1.61	0.00	1.49	0.01	0.00	17.04	1.62	0.00	1.48	0.01	0.00	17.99	1.54	0.00	1.00	0.01	0.00	18.00	1.53	0.00	1.00	0.01	0.00
17.05	1.62	0.00	1.48	0.01	0.00	17.06	1.62	0.00	1.47	0.01	0.00	18.01	1.53	0.00	0.99	0.01	0.00	18.02	1.57	0.00	0.99	0.01	0.00
17.07	1.48	0.00	1.47	0.01	0.00	17.08	1.49	0.00	1.46	0.01	0.00	18.03	1.57	0.00	0.98	0.01	0.00	18.04	1.57	0.00	0.98	0.01	0.00
17.09	1.45	0.00	1.46	0.01	0.00	17.10	1.46	0.00	1.45	0.01	0.00	18.05	1.52	0.00	0.97	0.01	0.00	18.06	1.47	0.00	0.97	0.01	0.00
17.11	1.39	0.00	1.45	0.01	0.00	17.12	1.38	0.00	1.44	0.01	0.00	18.07	1.45	0.00	0.96	0.01	0.00	18.08	1.43	0.00	0.96	0.01	0.00
17.13	1.37	0.00	1.44	0.01	0.00	17.14	1.36	0.00	1.43	0.01	0.00	18.09	1.40	0.00	0.95	0.01	0.00	18.10	1.44	0.00	0.95	0.01	0.00
17.15	1.36	0.00	1.43	0.01	0.00	17.16	1.36	0.00	1.42	0.01	0.00	18.11	1.47	0.00	0.94	0.01	0.00	18.12	1.50	0.00	0.94	0.01	0.00
17.17	1.42	0.00	1.42	0.01	0.00	17.18	1.44	0.00	1.41	0.01	0.00	18.13	1.54	0.00	0.94	0.01	0.00	18.14	1.55	0.00	0.93	0.01	0.00

This software is licensed to: GAIA snc												CPT name: CPTU 3											
:: Liquefaction Potential Index calculation data :: (continued)												:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
18.25	1.76	0.00	0.88	0.01	0.00	18.26	1.80	0.00	0.87	0.01	0.00	19.21	1.60	0.00	0.40	0.01	0.00	19.22	1.61	0.00	0.39	0.01	0.00
18.27	1.79	0.00	0.86	0.01	0.00	18.28	1.75	0.00	0.86	0.01	0.00	19.23	1.67	0.00	0.39	0.01	0.00	19.24	1.67	0.00	0.38	0.01	0.00
18.29	1.75	0.00	0.85	0.01	0.00	18.30	1.76	0.00	0.85	0.01	0.00	19.25	1.68	0.00	0.38	0.01	0.00	19.26	1.64	0.00	0.37	0.01	0.00
18.31	1.74	0.00	0.85	0.01	0.00	18.32	1.74	0.00	0.84	0.01	0.00	19.27	1.65	0.00	0.36	0.01	0.00	19.28	1.66	0.00	0.36	0.01	0.00
18.33	1.74	0.00	0.84	0.01	0.00	18.34	1.74	0.00	0.83	0.01	0.00	19.29	1.67	0.00	0.35	0.01	0.00	19.30	1.66	0.00	0.35	0.01	0.00
18.35	1.71	0.00	0.82	0.01	0.00	18.36	1.70	0.00	0.82	0.01	0.00	19.31	1.68	0.00	0.35	0.01	0.00	19.32	1.69	0.00	0.34	0.01	0.00
18.37	1.71	0.00	0.81	0.01	0.00	18.38	1.73	0.00	0.81	0.01	0.00	19.33	1.65	0.00	0.34	0.01	0.00	19.34	1.64	0.00	0.33	0.01	0.00
18.39	1.69	0.00	0.81	0.01	0.00	18.40	1.69	0.00	0.80	0.01	0.00	19.35	1.64	0.00	0.32	0.01	0.00	19.36	1.63	0.00	0.32	0.01	0.00
18.41	1.69	0.00	0.80	0.01	0.00	18.42	1.69	0.00	0.79	0.01	0.00	19.37	1.62	0.00	0.32	0.01	0.00	19.38	1.63	0.00	0.31	0.01	0.00
18.43	1.68	0.00	0.79	0.01	0.00	18.44	1.67	0.00	0.78	0.01	0.00	19.39	1.62	0.00	0.30	0.01	0.00	19.40	1.62	0.00	0.30	0.01	0.00
18.45	1.66	0.00	0.78	0.01	0.00	18.46	1.65	0.00	0.77	0.01	0.00	19.41	1.67	0.00	0.29	0.01	0.00	19.42	1.67	0.00	0.29	0.01	0.00
18.47	1.64	0.00	0.77	0.01	0.00	18.48	1.62	0.00	0.76	0.01	0.00	19.43	1.72	0.00	0.28	0.01	0.00	19.44	1.71	0.00	0.28	0.01	0.00
18.49	1.62	0.00	0.76	0.01	0.00	18.50	1.61	0.00	0.75	0.01	0.00	19.45	1.69	0.00	0.28	0.01	0.00	19.46	1.69	0.00	0.27	0.01	0.00
18.51	1.61	0.00	0.74	0.01	0.00	18.52	1.60	0.00	0.74	0.01	0.00	19.47	1.68	0.00	0.27	0.01	0.00	19.48	1.66	0.00	0.26	0.01	0.00
18.53	1.60	0.00	0.73	0.01	0.00	18.54	1.60	0.00	0.73	0.01	0.00	19.49	1.63	0.00	0.26	0.01	0.00	19.50	1.68	0.00	0.25	0.01	0.00
18.55	1.61	0.00	0.72	0.01	0.00	18.56	1.62	0.00	0.72	0.01	0.00	19.51	1.69	0.00	0.24	0.01	0.00	19.52	1.68	0.00	0.24	0.01	0.00
18.57	1.64	0.00	0.71	0.01	0.00	18.58	1.66	0.00	0.71	0.01	0.00	19.53	1.69	0.00	0.23	0.01	0.00	19.54	1.72	0.00	0.23	0.01	0.00
18.59	1.63	0.00	0.70	0.01	0.00	18.60	1.65	0.00	0.70	0.01	0.00	19.55	1.74	0.00	0.23	0.01	0.00	19.56	1.76	0.00	0.22	0.01	0.00
18.61	1.66	0.00	0.69	0.01	0.00	18.62	1.55	0.00	0.69	0.01	0.00	19.57	1.78	0.00	0.21	0.01	0.00	19.58	1.79	0.00	0.21	0.01	0.00
18.63	1.54	0.00	0.69	0.01	0.00	18.64	1.53	0.00	0.68	0.01	0.00	19.59	1.78	0.00	0.20	0.01	0.00	19.60	1.79	0.00	0.20	0.01	0.00
18.65	1.51	0.00	0.68	0.01	0.00	18.66	1.47	0.00	0.67	0.01	0.00	19.61	1.83	0.00	0.20	0.01	0.00	19.62	1.83	0.00	0.19	0.01	0.00
18.67	1.47	0.00	0.66	0.01	0.00	18.68	1.50	0.00	0.66	0.01	0.00	19.63	1.85	0.00	0.18	0.01	0.00	19.64	1.85	0.00	0.18	0.01	0.00
18.69	1.50	0.00	0.65	0.01	0.00	18.70	1.51	0.00	0.65	0.01	0.00	19.65	1.86	0.00	0.18	0.01	0.00	19.66	1.87	0.00	0.17	0.01	0.00
18.71	1.52	0.00	0.65	0.01	0.00	18.72	1.56	0.00	0.64	0.01	0.00	19.67	1.90	0.00	0.16	0.01	0.00	19.68	1.90	0.00	0.16	0.01	0.00
18.73	1.54	0.00	0.64	0.01	0.00	18.74	1.51	0.00	0.63	0.01	0.00	19.69	1.88	0.00	0.15	0.01	0.00	19.70	1.86	0.00	0.15	0.01	0.00
18.75	1.52	0.00	0.63	0.01	0.00	18.76	1.51	0.00	0.62	0.01	0.00	19.71	1.85	0.00	0.14	0.01	0.00	19.72	1.84	0.00	0.14	0.01	0.00
18.77	1.50	0.00	0.61	0.01	0.00	18.78	1.50	0.00	0.61	0.01	0.00	19.73	1.91	0.00	0.14	0.01	0.00	19.74	1.84	0.00	0.13	0.01	0.00
18.79	1.49	0.00	0.60	0.01	0.00	18.80	1.51	0.00	0.60	0.01	0.00	19.75	1.89	0.00	0.13	0.01	0.00	19.76	1.88	0.00	0.12	0.01	0.00
18.81	1.52	0.00	0.60	0.01	0.00	18.82	1.52	0.00	0.59	0.01	0.00	19.77	1.86	0.00	0.12	0.01	0.00	19.78	1.89	0.00	0.11	0.01	0.00
18.83	1.51	0.00	0.59	0.01	0.00	18.84	1.58	0.00	0.58	0.01	0.00	19.79	1.89	0.00	0.10	0.01	0.00	19.80	1.84	0.00	0.10	0.01	0.00
18.85	1.58	0.00	0.57	0.01	0.00	18.86	1.58	0.00	0.57	0.01	0.00	19.81	1.87	0.00	0.10	0.01	0.00	19.82	1.88	0.00	0.09	0.01	0.00
18.87	1.59	0.00	0.56	0.01	0.00	18.88	1.59	0.00	0.56	0.01	0.00	19.83	1.87	0.00	0.09	0.01	0.00	19.84	1.88	0.00	0.08	0.01	0.00
18.89	1.60	0.00	0.56	0.01	0.00	18.90	1.62	0.00	0.55	0.01	0.00	19.85	1.90	0.00	0.07	0.01	0.00	19.86	1.91	0.00	0.07	0.01	0.00
18.91	1.62	0.00	0.55	0.01	0.00	18.92	1.62	0.00	0.54	0.01	0.00	19.87	1.88	0.00	0.06	0.01	0.00	19.88	1.87	0.00	0.06	0.01	0.00
18.93	1.63	0.00	0.54	0.01	0.00	18.94	1.63	0.00	0.53	0.01	0.00	19.89	1.86	0.00	0.05	0.01	0.00	19.90	1.86	0.00	0.05	0.01	0.00
18.95	1.62	0.00	0.53	0.01	0.00	18.96	1.62	0.00	0.52	0.01	0.00	19.91	1.83	0.00	0.04	0.01	0.00	19.92	1.80	0.00	0.04	0.01	0.00
18.97	1.64	0.00	0.52	0.01	0.00	18.98	1.65	0.00	0.51	0.01	0.00	19.93	1.83	0.00	0.04	0.01	0.00	19.94	1.78	0.00	0.03	0.01	0.00
18.99	1.66	0.00	0.51	0.01	0.00	19.00	1.65	0.00	0.50	0.01	0.00	19.95	1.74	0.00	0.03	0.01	0.00	19.96	1.74	0.00	0.02	0.01	0.00
19.01	1.66	0.00	0.49	0.01	0.00	19.02	1.68	0.00	0.49	0.01	0.00	19.97	1.70	0.00	0.02	0.01	0.00	19.98	1.69	0.00	0.01	0.01	0.00
19.03	1.68	0.00	0.48	0.01	0.00	19.04	1.60	0.00	0.48	0.01	0.00	19.99	1.68	0.00	0.01	0.01	0.00	20.00	0.00	1.00	0.00	0.01	0.00
19.05	1.65	0.00	0.47	0.01	0.00	19.06	1.70	0.00	0.47	0.01	0.00												
19.07	1.47	0.00	0.47	0.01	0.00	19.08	1.47	0.00	0.46	0.01	0.00												
19.09	1.48	0.00	0.46	0.01	0.00	19.10	1.49	0.00	0.45	0.01	0.00												
19.11	1.51	0.00	0.45	0.01	0.00	19.12	1.52	0.00	0.44	0.01	0.00												
19.13	1.56	0.00	0.43	0.01	0.00	19.14	1.56	0.00	0.43	0.01	0.00												
19.15	1.57	0.00	0.43	0.01	0.00	19.16	1.57	0.00	0.42	0.01	0.00												
19.17	1.55	0.00	0.41	0.01	0.00	19.18	1.54	0.00	0.41	0.01	0.00												
19.19	1.58	0.00	0.40	0.01	0.00	19.20	1.59	0.00	0.40	0.01	0.00												
CLiq v.1.7.6.49 - CPT Liquefaction Assessment Software - Report created on: 19/10/2020, 16:05:55												CLiq v.1.7.6.49 - CPT Liquefaction Assessment Software - Report created on: 19/10/2020, 16:05:55											
Project file: C:\Users\silvia\Desktop\liquef_ampl_biopig.clg												Project file: C:\Users\silvia\Desktop\liquef_ampl_biopig.clg											

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
Overall liquefaction potential: 0.33											

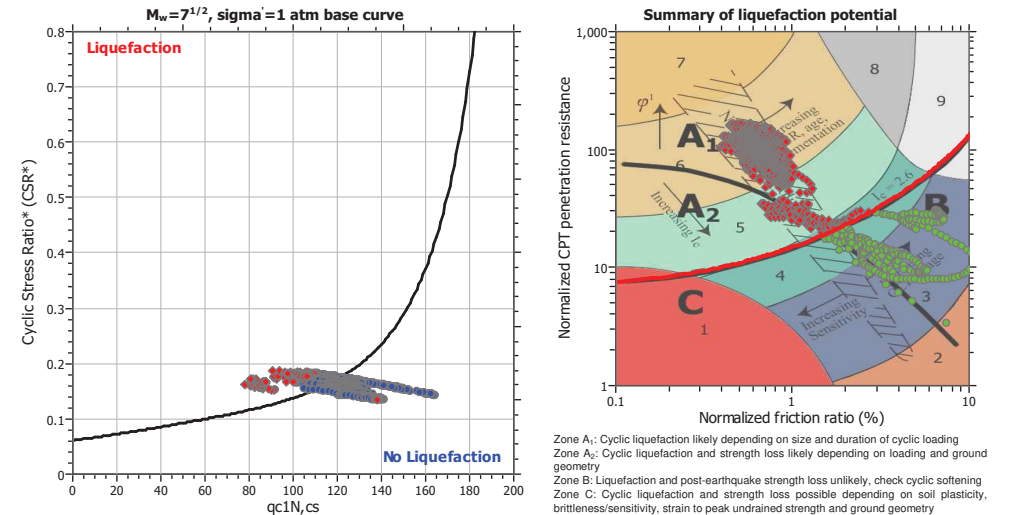
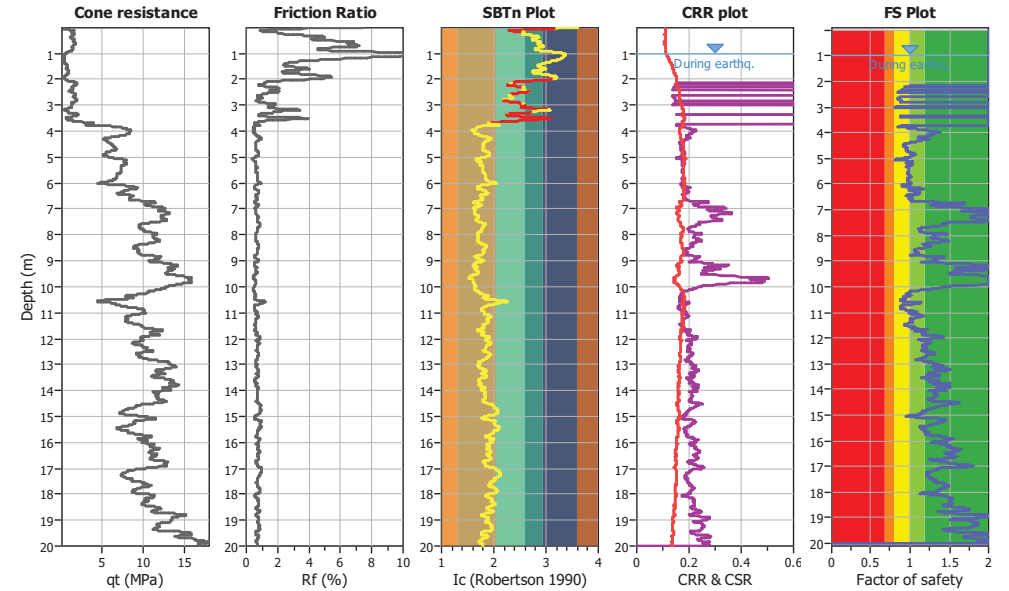
LPI = 0.00 - Liquefaction risk very low
LPI between 0.00 and 5.00 - Liquefaction risk low
LPI between 5.00 and 15.00 - Liquefaction risk high
LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
F_L: 1 - FS
w_z: Function value of the extend of soil liquefaction according to depth
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

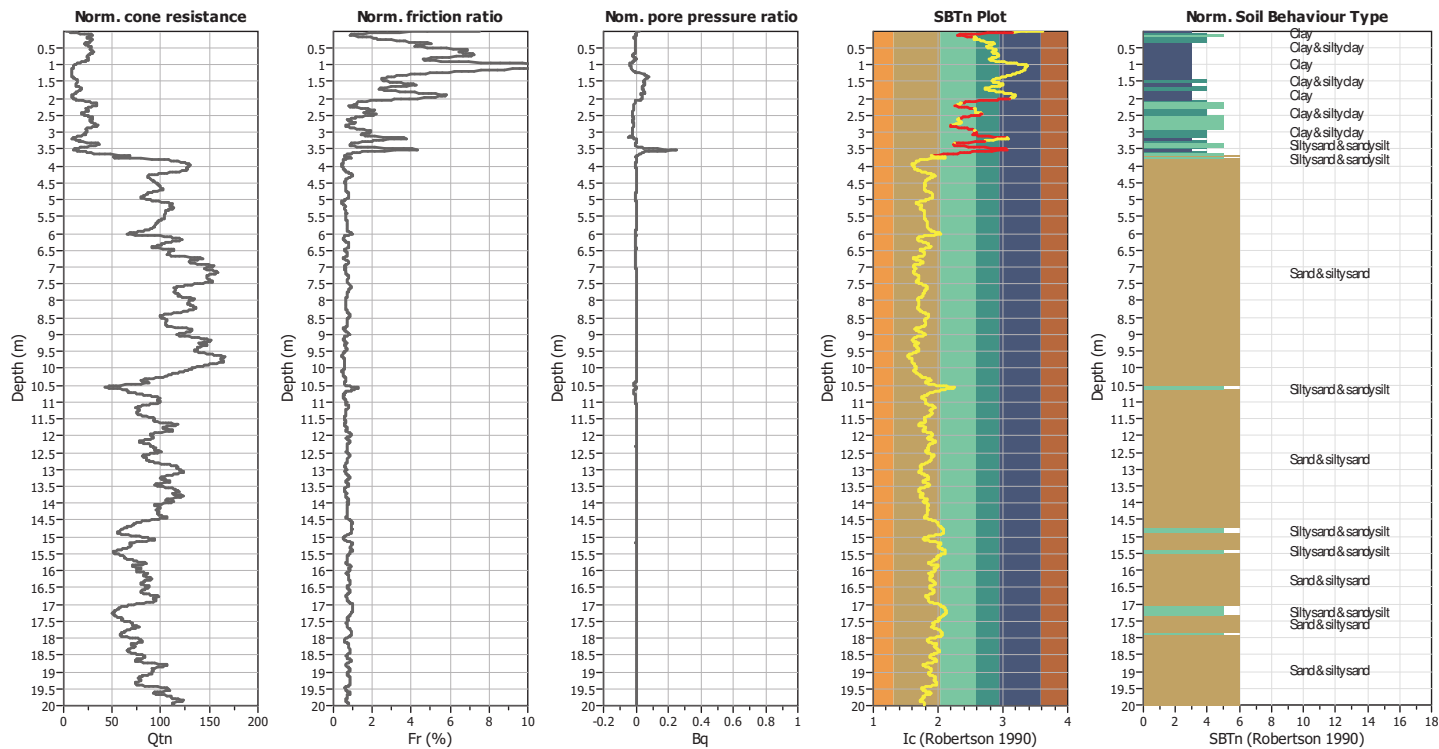
LIQUEFACTION ANALYSIS REPORT

Project title :			Location :				
CPT file : CPTU 4							
Input parameters and analysis data							
Analysis method:	B&I (2014)	G.W.T. (in-situ):	1.30 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	1.00 m	Fill height:	N/A	applied:	Sand & Clay
Points to test:	Based on Ic value	Average results interval:	5	Fill weight:	N/A	Limit depth applied:	No
Earthquake magnitude M_w :	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	Limit depth:	N/A
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based



Zone A₁: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A₂: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots (normalized)



Input parameters and analysis data

Analysis method: B&I (2014)
Fines correction method: B&I (2014)
Points to test: Based on Ic value
Earthquake magnitude M_w : 6.14
Peak ground acceleration: 0.17
Depth to water table (insitu): 1.30 m

Depth to GWT (earthq.): 1.00 m
Average results interval: 5
Ic cut-off value: 2.60
Unit weight calculation: Based on SBT
Use fill: No
Fill height: N/A

Fill weight: N/A
Transition detect. applied: Yes
 K_a applied: Yes
Clay like behavior applied: Sand & Clay
Limit depth applied: No
Limit depth: N/A

SBTn legend

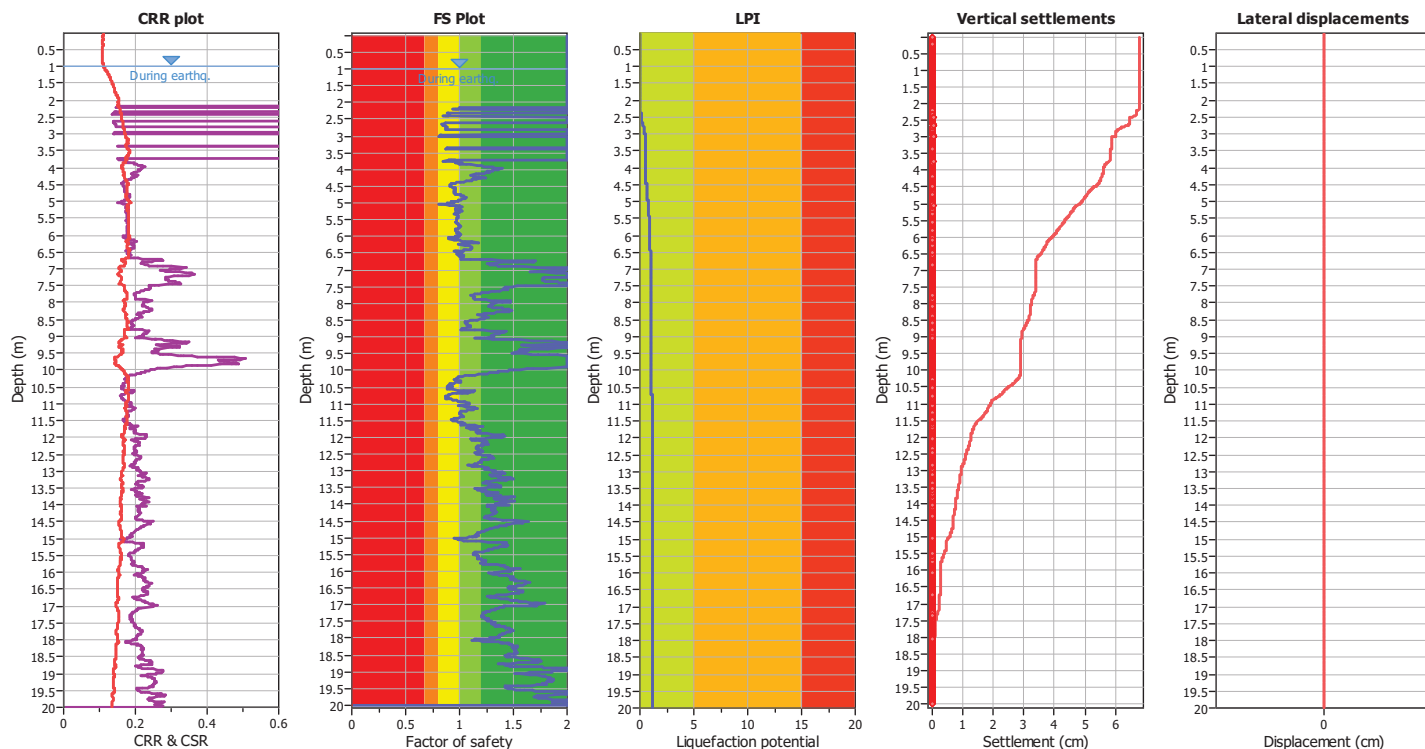
- | | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

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Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method: B&I (2014)
Fines correction method: B&I (2014)
Points to test: Based on Ic value
Earthquake magnitude M_w : 6.14
Peak ground acceleration: 0.17
Depth to water table (insitu): 1.30 m

Depth to GWT (earthq.): 1.00 m
Average results interval: 5
Ic cut-off value: 2.60
Unit weight calculation: Based on SBT
Use fill: No
Fill height: N/A

Fill weight: N/A
Transition detect. applied: Yes
 K_a applied: Yes
Clay like behavior applied: Sand & Clay
Limit depth applied: No
Limit depth: N/A

F.S. color scheme

- | |
|---|
| Almost certain it will liquefy |
| Very likely to liquefy |
| Liquefaction and no liq. are equally likely |
| Unlike to liquefy |
| Almost certain it will not liquefy |

LPI color scheme

- | |
|----------------|
| Very high risk |
| High risk |
| Low risk |

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Project file: C:\Users\silvia\Desktop\liquef_ampl_biopig.cliq

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:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
0.01	2.00	0.00	9.99	0.01	0.00	0.02	2.00	0.00	9.99	0.01	0.00
0.03	2.00	0.00	9.98	0.01	0.00	0.04	2.00	0.00	9.98	0.01	0.00
0.05	2.00	0.00	9.97	0.01	0.00	0.06	2.00	0.00	9.97	0.01	0.00
0.07	2.00	0.00	9.96	0.01	0.00	0.08	2.00	0.00	9.96	0.01	0.00
0.09	2.00	0.00	9.96	0.01	0.00	0.10	2.00	0.00	9.95	0.01	0.00
0.11	2.00	0.00	9.95	0.01	0.00	0.12	2.00	0.00	9.94	0.01	0.00
0.13	2.00	0.00	9.94	0.01	0.00	0.14	2.00	0.00	9.93	0.01	0.00
0.15	2.00	0.00	9.93	0.01	0.00	0.16	2.00	0.00	9.92	0.01	0.00
0.17	2.00	0.00	9.91	0.01	0.00	0.18	2.00	0.00	9.91	0.01	0.00
0.19	2.00	0.00	9.90	0.01	0.00	0.20	2.00	0.00	9.90	0.01	0.00
0.21	2.00	0.00	9.89	0.01	0.00	0.22	2.00	0.00	9.89	0.01	0.00
0.23	2.00	0.00	9.88	0.01	0.00	0.24	2.00	0.00	9.88	0.01	0.00
0.25	2.00	0.00	9.88	0.01	0.00	0.26	2.00	0.00	9.87	0.01	0.00
0.27	2.00	0.00	9.87	0.01	0.00	0.28	2.00	0.00	9.86	0.01	0.00
0.29	2.00	0.00	9.86	0.01	0.00	0.30	2.00	0.00	9.85	0.01	0.00
0.31	2.00	0.00	9.85	0.01	0.00	0.32	2.00	0.00	9.84	0.01	0.00
0.33	2.00	0.00	9.84	0.01	0.00	0.34	2.00	0.00	9.83	0.01	0.00
0.35	2.00	0.00	9.82	0.01	0.00	0.36	2.00	0.00	9.82	0.01	0.00
0.37	2.00	0.00	9.81	0.01	0.00	0.38	2.00	0.00	9.81	0.01	0.00
0.39	2.00	0.00	9.80	0.01	0.00	0.40	2.00	0.00	9.80	0.01	0.00
0.41	2.00	0.00	9.79	0.01	0.00	0.42	2.00	0.00	9.79	0.01	0.00
0.43	2.00	0.00	9.79	0.01	0.00	0.44	2.00	0.00	9.78	0.01	0.00
0.45	2.00	0.00	9.78	0.01	0.00	0.46	2.00	0.00	9.77	0.01	0.00
0.47	2.00	0.00	9.77	0.01	0.00	0.48	2.00	0.00	9.76	0.01	0.00
0.49	2.00	0.00	9.76	0.01	0.00	0.50	2.00	0.00	9.75	0.01	0.00
0.51	2.00	0.00	9.74	0.01	0.00	0.52	2.00	0.00	9.74	0.01	0.00
0.53	2.00	0.00	9.73	0.01	0.00	0.54	2.00	0.00	9.73	0.01	0.00
0.55	2.00	0.00	9.72	0.01	0.00	0.56	2.00	0.00	9.72	0.01	0.00
0.57	2.00	0.00	9.71	0.01	0.00	0.58	2.00	0.00	9.71	0.01	0.00
0.59	2.00	0.00	9.71	0.01	0.00	0.60	2.00	0.00	9.70	0.01	0.00
0.61	2.00	0.00	9.70	0.01	0.00	0.62	2.00	0.00	9.69	0.01	0.00
0.63	2.00	0.00	9.69	0.01	0.00	0.64	2.00	0.00	9.68	0.01	0.00
0.65	2.00	0.00	9.68	0.01	0.00	0.66	2.00	0.00	9.67	0.01	0.00
0.67	2.00	0.00	9.66	0.01	0.00	0.68	2.00	0.00	9.66	0.01	0.00
0.69	2.00	0.00	9.65	0.01	0.00	0.70	2.00	0.00	9.65	0.01	0.00
0.71	2.00	0.00	9.64	0.01	0.00	0.72	2.00	0.00	9.64	0.01	0.00
0.73	2.00	0.00	9.63	0.01	0.00	0.74	2.00	0.00	9.63	0.01	0.00
0.75	2.00	0.00	9.63	0.01	0.00	0.76	2.00	0.00	9.62	0.01	0.00
0.77	2.00	0.00	9.62	0.01	0.00	0.78	2.00	0.00	9.61	0.01	0.00
0.79	2.00	0.00	9.61	0.01	0.00	0.80	2.00	0.00	9.60	0.01	0.00
0.81	2.00	0.00	9.60	0.01	0.00	0.82	2.00	0.00	9.59	0.01	0.00
0.83	2.00	0.00	9.59	0.01	0.00	0.84	2.00	0.00	9.58	0.01	0.00
0.85	2.00	0.00	9.57	0.01	0.00	0.86	2.00	0.00	9.57	0.01	0.00
0.87	2.00	0.00	9.56	0.01	0.00	0.88	2.00	0.00	9.56	0.01	0.00
0.89	2.00	0.00	9.55	0.01	0.00	0.90	2.00	0.00	9.55	0.01	0.00
0.91	2.00	0.00	9.54	0.01	0.00	0.92	2.00	0.00	9.54	0.01	0.00
0.93	2.00	0.00	9.54	0.01	0.00	0.94	2.00	0.00	9.53	0.01	0.00
0.95	2.00	0.00	9.53	0.01	0.00	0.96	2.00	0.00	9.52	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
0.97	2.00	0.00	9.52	0.01	0.00	0.98	2.00	0.00	9.51	0.01	0.00
0.99	2.00	0.00	9.51	0.01	0.00	1.00	2.00	0.00	9.50	0.01	0.00
1.01	2.00	0.00	9.49	0.01	0.00	1.02	2.00	0.00	9.49	0.01	0.00
1.03	2.00	0.00	9.48	0.01	0.00	1.04	2.00	0.00	9.48	0.01	0.00
1.05	2.00	0.00	9.47	0.01	0.00	1.06	2.00	0.00	9.47	0.01	0.00
1.07	2.00	0.00	9.46	0.01	0.00	1.08	2.00	0.00	9.46	0.01	0.00
1.09	2.00	0.00	9.46	0.01	0.00	1.10	2.00	0.00	9.45	0.01	0.00
1.11	2.00	0.00	9.45	0.01	0.00	1.12	2.00	0.00	9.44	0.01	0.00
1.13	2.00	0.00	9.44	0.01	0.00	1.14	2.00	0.00	9.43	0.01	0.00
1.15	2.00	0.00	9.43	0.01	0.00	1.16	2.00	0.00	9.42	0.01	0.00
1.17	2.00	0.00	9.41	0.01	0.00	1.18	2.00	0.00	9.41	0.01	0.00
1.19	2.00	0.00	9.40	0.01	0.00	1.20	2.00	0.00	9.40	0.01	0.00
1.21	2.00	0.00	9.39	0.01	0.00	1.22	2.00	0.00	9.39	0.01	0.00
1.23	2.00	0.00	9.38	0.01	0.00	1.24	2.00	0.00	9.38	0.01	0.00
1.25	2.00	0.00	9.38	0.01	0.00	1.26	2.00	0.00	9.37	0.01	0.00
1.27	2.00	0.00	9.37	0.01	0.00	1.28	2.00	0.00	9.36	0.01	0.00
1.29	2.00	0.00	9.36	0.01	0.00	1.30	2.00	0.00	9.35	0.01	0.00
1.31	2.00	0.00	9.35	0.01	0.00	1.32	2.00	0.00	9.34	0.01	0.00
1.33	2.00	0.00	9.34	0.01	0.00	1.34	2.00	0.00	9.33	0.01	0.00
1.35	2.00	0.00	9.32	0.01	0.00	1.36	2.00	0.00	9.32	0.01	0.00
1.37	2.00	0.00	9.31	0.01	0.00	1.38	2.00	0.00	9.31	0.01	0.00
1.39	2.00	0.00	9.30	0.01	0.00	1.40	2.00	0.00	9.30	0.01	0.00
1.41	2.00	0.00	9.29	0.01	0.00	1.42	2.00	0.00	9.29	0.01	0.00
1.43	2.00	0.00	9.29	0.01	0.00	1.44	2.00	0.00	9.28	0.01	0.00
1.45	2.00	0.00	9.28	0.01	0.00	1.46	2.00	0.00	9.27	0.01	0.00
1.47	2.00	0.00	9.27	0.01	0.00	1.48	2.00	0.00	9.26	0.01	0.00
1.49	2.00	0.00	9.26	0.01	0.00	1.50	2.00	0.00	9.25	0.01	0.00
1.51	2.00	0.00	9.24	0.01	0.00	1.52	2.00	0.00	9.24	0.01	0.00
1.53	2.00	0.00	9.23	0.01	0.00	1.54	2.00	0.00	9.23	0.01	0.00
1.55	2.00	0.00	9.22	0.01	0.00	1.56	2.00	0.00	9.22	0.01	0.00
1.57	2.00	0.00	9.21	0.01	0.00	1.58	2.00	0.00	9.21	0.01	0.00
1.59	2.00	0.00	9.21	0.01	0.00	1.60	2.00	0.00	9.20	0.01	0.00
1.61	2.00	0.00	9.20	0.01	0.00	1.62	2.00	0.00	9.19	0.01	0.00
1.63	2.00	0.00	9.19	0.01	0.00	1.64	2.00	0.00	9.18	0.01	0.00
1.65	2.00	0.00	9.18	0.01	0.00	1.66	2.00	0.00	9.17	0.01	0.00
1.67	2.00	0.00	9.16	0.01	0.00	1.68	2.00	0.00	9.16	0.01	0.00
1.69	2.00	0.00	9.15	0.01	0.00	1.70	2.00	0.00	9.15	0.01	0.00
1.71	2.00	0.00	9.14	0.01	0.00	1.72	2.00	0.00	9.14	0.01	0.00
1.73	2.00	0.00	9.13	0.01	0.00	1.74	2.00	0.00	9.13	0.01	0.00
1.75	2.00	0.00	9.13	0.01	0.00	1.76	2.00	0.00	9.12	0.01	0.00
1.77	2.00	0.00	9.12	0.01	0.00	1.78	2.00	0.00	9.11	0.01	0.00
1.79	2.00	0.00	9.11	0.01	0.00	1.80	2.00	0.00	9.10	0.01	0.00
1.81	2.00	0.00	9.10	0.01	0.00	1.82	2.00	0.00	9.09	0.01	0.00
1.83	2.00	0.00	9.09	0.01	0.00	1.84	2.00	0.00	9.08	0.01	0.00
1.85	2.00	0.00	9.07	0.01	0.00	1.86	2.00	0.00	9.07	0.01	0.00
1.87	2.00	0.00	9.06	0.01	0.00	1.88	2.00	0.00	9.06	0.01	0.00
1.89	2.00	0.00	9.05	0.01	0.00	1.90	2.00	0.00	9.05	0.01	0.00
1.91	2.00	0.00	9.04	0.01	0.00	1.92	2.00	0.00	9.04	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
1.93	2.00	0.00	9.04	0.01	0.00	1.94	2.00	0.00	9.03	0.01	0.00
1.95	2.00	0.00	9.03	0.01	0.00	1.96	2.00	0.00	9.02	0.01	0.00
1.97	2.00	0.00	9.02	0.01	0.00	1.98	2.00	0.00	9.01	0.01	0.00
1.99	2.00	0.00	9.01	0.01	0.00	2.00	2.00	0.00	9.00	0.01	0.00
2.01	2.00	0.00	8.99	0.01	0.00	2.02	2.00	0.00	8.99	0.01	0.00
2.03	2.00	0.00	8.98	0.01	0.00	2.04	2.00	0.00	8.98	0.01	0.00
2.05	2.00	0.00	8.97	0.01	0.00	2.06	2.00	0.00	8.97	0.01	0.00
2.07	2.00	0.00	8.96	0.01	0.00	2.08	2.00	0.00	8.96	0.01	0.00
2.09	2.00	0.00	8.96	0.01	0.00	2.10	2.00	0.00	8.95	0.01	0.00
2.11	2.00	0.00	8.95	0.01	0.00	2.12	2.00	0.00	8.94	0.01	0.00
2.13	2.00	0.00	8.94	0.01	0.00	2.14	2.00	0.00	8.93	0.01	0.00
2.15	2.00	0.00	8.93	0.01	0.00	2.16	1.00	0.00	8.92	0.01	0.00
2.17	1.00	0.00	8.91	0.01	0.00	2.18	0.99	0.01	8.91	0.01	0.00
2.19	0.98	0.02	8.90	0.01	0.00	2.20	0.96	0.04	8.90	0.01	0.00
2.21	0.94	0.06	8.89	0.01	0.01	2.22	2.00	0.00	8.89	0.01	0.00
2.23	2.00	0.00	8.88	0.01	0.00	2.24	2.00	0.00	8.88	0.01	0.00
2.25	2.00	0.00	8.88	0.01	0.00	2.26	2.00	0.00	8.87	0.01	0.00
2.27	2.00	0.00	8.87	0.01	0.00	2.28	2.00	0.00	8.86	0.01	0.00
2.29	2.00	0.00	8.86	0.01	0.00	2.30	2.00	0.00	8.85	0.01	0.00
2.31	2.00	0.00	8.85	0.01	0.00	2.32	0.89	0.11	8.84	0.01	0.01
2.33	0.90	0.10	8.84	0.01	0.01	2.34	0.91	0.09	8.83	0.01	0.01
2.35	0.91	0.09	8.82	0.01	0.01	2.36	0.91	0.09	8.82	0.01	0.01
2.37	0.91	0.09	8.81	0.01	0.01	2.38	0.89	0.11	8.81	0.01	0.01
2.39	0.88	0.12	8.80	0.01	0.01	2.40	0.87	0.13	8.80	0.01	0.01
2.41	0.84	0.16	8.79	0.01	0.01	2.42	0.84	0.16	8.79	0.01	0.01
2.43	2.00	0.00	8.79	0.01	0.00	2.44	2.00	0.00	8.78	0.01	0.00
2.45	2.00	0.00	8.78	0.01	0.00	2.46	2.00	0.00	8.77	0.01	0.00
2.47	2.00	0.00	8.77	0.01	0.00	2.48	2.00	0.00	8.76	0.01	0.00
2.49	2.00	0.00	8.76	0.01	0.00	2.50	2.00	0.00	8.75	0.01	0.00
2.51	2.00	0.00	8.74	0.01	0.00	2.52	2.00	0.00	8.74	0.01	0.00
2.53	2.00	0.00	8.73	0.01	0.00	2.54	2.00	0.00	8.73	0.01	0.00
2.55	2.00	0.00	8.72	0.01	0.00	2.56	2.00	0.00	8.72	0.01	0.00
2.57	2.00	0.00	8.71	0.01	0.00	2.58	2.00	0.00	8.71	0.01	0.00
2.59	2.00	0.00	8.71	0.01	0.00	2.60	2.00	0.00	8.70	0.01	0.00
2.61	0.87	0.13	8.70	0.01	0.01	2.62	0.87	0.13	8.69	0.01	0.01
2.63	0.85	0.15	8.69	0.01	0.01	2.64	0.84	0.16	8.68	0.01	0.01
2.65	0.84	0.16	8.68	0.01	0.01	2.66	0.84	0.16	8.67	0.01	0.01
2.67	0.84	0.16	8.66	0.01	0.01	2.68	0.85	0.15	8.66	0.01	0.01
2.69	0.86	0.14	8.65	0.01	0.01	2.70	0.87	0.13	8.65	0.01	0.01
2.71	0.87	0.13	8.64	0.01	0.01	2.72	0.88	0.12	8.64	0.01	0.01
2.73	0.89	0.11	8.63	0.01	0.01	2.74	0.88	0.12	8.63	0.01	0.01
2.75	0.88	0.12	8.63	0.01	0.01	2.76	0.88	0.12	8.62	0.01	0.01
2.77	0.87	0.13	8.62	0.01	0.01	2.78	0.88	0.12	8.61	0.01	0.01
2.79	0.88	0.12	8.61	0.01	0.01	2.80	0.88	0.12	8.60	0.01	0.01
2.81	0.88	0.12	8.60	0.01	0.01	2.82	2.00	0.00	8.59	0.01	0.00
2.83	2.00	0.00	8.59	0.01	0.00	2.84	2.00	0.00	8.58	0.01	0.00
2.85	2.00	0.00	8.57	0.01	0.00	2.86	2.00	0.00	8.57	0.01	0.00
2.87	2.00	0.00	8.56	0.01	0.00	2.88	2.00	0.00	8.56	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
2.89	2.00	0.00	8.55	0.01	0.00	2.90	2.00	0.00	8.55	0.01	0.00
2.91	2.00	0.00	8.54	0.01	0.00	2.92	2.00	0.00	8.54	0.01	0.00
2.93	2.00	0.00	8.54	0.01	0.00	2.94	2.00	0.00	8.53	0.01	0.00
2.95	2.00	0.00	8.53	0.01	0.00	2.96	0.83	0.17	8.52	0.01	0.01
2.97	0.83	0.17	8.52	0.01	0.01	2.98	0.83	0.17	8.51	0.01	0.01
2.99	0.82	0.18	8.51	0.01	0.02	3.00	0.81	0.19	8.50	0.01	0.02
3.01	0.81	0.19	8.49	0.01	0.02	3.02	2.00	0.00	8.49	0.01	0.00
3.03	2.00	0.00	8.48	0.01	0.00	3.04	2.00	0.00	8.48	0.01	0.00
3.05	2.00	0.00	8.47	0.01	0.00	3.06	2.00	0.00	8.47	0.01	0.00
3.07	2.00	0.00	8.46	0.01	0.00	3.08	2.00	0.00	8.46	0.01	0.00
3.09	2.00	0.00	8.46	0.01	0.00	3.10	2.00	0.00	8.45	0.01	0.00
3.11	2.00	0.00	8.45	0.01	0.00	3.12	2.00	0.00	8.44	0.01	0.00
3.13	2.00	0.00	8.44	0.01	0.00	3.14	2.00	0.00	8.43	0.01	0.00
3.15	2.00	0.00	8.43	0.01	0.00	3.16	2.00	0.00	8.42	0.01	0.00
3.17	2.00	0.00	8.41	0.01	0.00	3.18	2.00	0.00	8.41	0.01	0.00
3.19	2.00	0.00	8.40	0.01	0.00	3.20	2.00	0.00	8.40	0.01	0.00
3.21	2.00	0.00	8.39	0.01	0.00	3.22	2.00	0.00	8.39	0.01	0.00
3.23	2.00	0.00	8.38	0.01	0.00	3.24	2.00	0.00	8.38	0.01	0.00
3.25	2.00	0.00	8.38	0.01	0.00	3.26	2.00	0.00	8.37	0.01	0.00
3.27	2.00	0.00	8.37	0.01	0.00	3.28	2.00	0.00	8.36	0.01	0.00
3.29	2.00	0.00	8.36	0.01	0.00	3.30	2.00	0.00	8.35	0.01	0.00
3.31	2.00	0.00	8.35	0.01	0.00	3.32	2.00	0.00	8.34	0.01	0.00
3.33	2.00	0.00	8.34	0.01	0.00	3.34	2.00	0.00	8.33	0.01	0.00
3.35	2.00	0.00	8.32	0.01	0.00	3.36	0.88	0.12	8.32	0.01	0.01
3.37	0.87	0.13	8.31	0.01	0.01	3.38	2.00	0.00	8.31	0.01	0.00
3.39	2.00	0.00	8.30	0.01	0.00	3.40	2.00	0.00	8.30	0.01	0.00
3.41	2.00	0.00	8.29	0.01	0.00	3.42	2.00	0.00	8.29	0.01	0.00
3.43	2.00	0.00	8.29	0.01	0.00	3.44	2.00	0.00	8.28	0.01	0.00
3.45	2.00	0.00	8.28	0.01	0.00	3.46	2.00	0.00	8.27	0.01	0.00
3.47	2.00	0.00	8.27	0.01	0.00	3.48	2.00	0.00	8.26	0.01	0.00
3.49	2.00	0.00	8.26	0.01	0.00	3.50	2.00	0.00	8.25	0.01	0.00
3.51	2.00	0.00	8.24	0.01	0.00	3.52	2.00	0.00	8.24	0.01	0.00
3.53	2.00	0.00	8.23	0.01	0.00	3.54	2.00	0.00	8.23	0.01	0.00
3.55	2.00	0.00	8.22	0.01	0.00	3.56	2.00	0.00	8.22	0.01	0.00
3.57	2.00	0.00	8.21	0.01	0.00	3.58	2.00	0.00	8.21	0.01	0.00
3.59	2.00	0.00	8.21	0.01	0.00	3.60	2.00	0.00	8.20	0.01	0.00
3.61	2.00	0.00	8.20	0.01	0.00	3.62	2.00	0.00	8.19	0.01	0.00
3.63	2.00	0.00	8.19	0.01	0.00	3.64	2.00	0.00	8.18	0.01	0.00
3.65	2.00	0.00	8.18	0.01	0.00	3.66	2.00	0.00	8.17	0.01	0.00
3.67	2.00	0.00	8.16	0.01	0.00	3.68	2.00	0.00	8.16	0.01	0.00
3.69	2.00	0.00	8.15	0.01	0.00	3.70	2.00	0.00	8.15	0.01	0.00
3.71	0.92	0.08	8.14	0.01	0.01	3.72	0.90	0.10	8.14	0.01	0.01
3.73	0.96	0.04	8.13	0.01	0.00	3.74	0.90	0.10	8.13	0.01	0.01
3.75	0.85	0.15	8.13	0.01	0.01	3.76	0.87	0.13	8.12	0.01	0.01
3.77	0.94	0.06	8.12	0.01	0.00	3.78	0.98	0.02	8.11	0.01	0.00
3.79	0.96	0.04	8.11	0.01	0.00	3.80	1.02	0.00	8.10	0.01	0.00
3.81	0.97	0.03	8.10	0.01	0.00	3.82	0.98	0.02	8.09	0.01	0.00
3.83	1.00	0.00	8.09	0.01	0.00	3.84	0.99	0.01	8.08	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
3.85	1.06	0.00	8.07	0.01	0.00	3.86	1.10	0.00	8.07	0.01	0.00
3.87	1.17	0.00	8.06	0.01	0.00	3.88	1.19	0.00	8.06	0.01	0.00
3.89	1.19	0.00	8.05	0.01	0.00	3.90	1.21	0.00	8.05	0.01	0.00
3.91	1.23	0.00	8.04	0.01	0.00	3.92	1.26	0.00	8.04	0.01	0.00
3.93	1.28	0.00	8.04	0.01	0.00	3.94	1.31	0.00	8.03	0.01	0.00
3.95	1.34	0.00	8.03	0.01	0.00	3.96	1.37	0.00	8.02	0.01	0.00
3.97	1.39	0.00	8.02	0.01	0.00	3.98	1.38	0.00	8.01	0.01	0.00
3.99	1.36	0.00	8.01	0.01	0.00	4.00	1.34	0.00	8.00	0.01	0.00
4.01	1.32	0.00	8.00	0.01	0.00	4.02	1.31	0.00	7.99	0.01	0.00
4.03	1.31	0.00	7.99	0.01	0.00	4.04	1.31	0.00	7.98	0.01	0.00
4.05	1.26	0.00	7.97	0.01	0.00	4.06	1.26	0.00	7.97	0.01	0.00
4.07	1.28	0.00	7.96	0.01	0.00	4.08	1.28	0.00	7.96	0.01	0.00
4.09	1.27	0.00	7.96	0.01	0.00	4.10	1.25	0.00	7.95	0.01	0.00
4.11	1.24	0.00	7.95	0.01	0.00	4.12	1.23	0.00	7.94	0.01	0.00
4.13	1.20	0.00	7.93	0.01	0.00	4.14	1.17	0.00	7.93	0.01	0.00
4.15	1.15	0.00	7.92	0.01	0.00	4.16	1.11	0.00	7.92	0.01	0.00
4.17	1.10	0.00	7.92	0.01	0.00	4.18	1.10	0.00	7.91	0.01	0.00
4.19	1.11	0.00	7.91	0.01	0.00	4.20	1.14	0.00	7.90	0.01	0.00
4.21	1.13	0.00	7.89	0.01	0.00	4.22	1.15	0.00	7.89	0.01	0.00
4.23	1.18	0.00	7.88	0.01	0.00	4.24	1.24	0.00	7.88	0.01	0.00
4.25	1.16	0.00	7.88	0.01	0.00	4.26	1.21	0.00	7.87	0.01	0.00
4.27	1.19	0.00	7.87	0.01	0.00	4.28	1.15	0.00	7.86	0.01	0.00
4.29	1.15	0.00	7.86	0.01	0.00	4.30	1.13	0.00	7.85	0.01	0.00
4.31	1.12	0.00	7.84	0.01	0.00	4.32	1.11	0.00	7.84	0.01	0.00
4.33	1.09	0.00	7.83	0.01	0.00	4.34	1.07	0.00	7.83	0.01	0.00
4.35	1.06	0.00	7.83	0.01	0.00	4.36	1.04	0.00	7.82	0.01	0.00
4.37	1.02	0.00	7.82	0.01	0.00	4.38	0.99	0.01	7.81	0.01	0.00
4.39	0.98	0.02	7.80	0.01	0.00	4.40	0.97	0.03	7.80	0.01	0.00
4.41	0.95	0.05	7.79	0.01	0.00	4.42	0.94	0.06	7.79	0.01	0.01
4.43	0.92	0.08	7.79	0.01	0.01	4.44	0.92	0.08	7.78	0.01	0.01
4.45	0.92	0.08	7.78	0.01	0.01	4.46	0.91	0.09	7.77	0.01	0.01
4.47	0.91	0.09	7.76	0.01	0.01	4.48	0.91	0.09	7.76	0.01	0.01
4.49	0.91	0.09	7.75	0.01	0.01	4.50	0.92	0.08	7.75	0.01	0.01
4.51	0.93	0.07	7.75	0.01	0.01	4.52	0.93	0.07	7.74	0.01	0.01
4.53	0.93	0.07	7.74	0.01	0.01	4.54	0.94	0.06	7.73	0.01	0.00
4.55	0.95	0.05	7.72	0.01	0.00	4.56	0.96	0.04	7.72	0.01	0.00
4.57	0.96	0.04	7.71	0.01	0.00	4.58	0.95	0.05	7.71	0.01	0.00
4.59	0.96	0.04	7.71	0.01	0.00	4.60	0.96	0.04	7.70	0.01	0.00
4.61	0.96	0.04	7.70	0.01	0.00	4.62	0.96	0.04	7.69	0.01	0.00
4.63	0.95	0.05	7.68	0.01	0.00	4.64	0.95	0.05	7.68	0.01	0.00
4.65	0.95	0.05	7.67	0.01	0.00	4.66	0.96	0.04	7.67	0.01	0.00
4.67	0.96	0.04	7.67	0.01	0.00	4.68	0.95	0.05	7.66	0.01	0.00
4.69	0.95	0.05	7.66	0.01	0.00	4.70	0.95	0.05	7.65	0.01	0.00
4.71	0.95	0.05	7.64	0.01	0.00	4.72	0.96	0.04	7.64	0.01	0.00
4.73	0.97	0.03	7.63	0.01	0.00	4.74	0.96	0.04	7.63	0.01	0.00
4.75	0.97	0.03	7.63	0.01	0.00	4.76	1.00	0.00	7.62	0.01	0.00
4.77	1.02	0.00	7.62	0.01	0.00	4.78	1.01	0.00	7.61	0.01	0.00
4.79	1.03	0.00	7.61	0.01	0.00	4.80	1.04	0.00	7.60	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
4.81	1.04	0.00	7.59	0.01	0.00	4.82	1.05	0.00	7.59	0.01	0.00
4.83	1.06	0.00	7.58	0.01	0.00	4.84	1.06	0.00	7.58	0.01	0.00
4.85	1.06	0.00	7.58	0.01	0.00	4.86	1.05	0.00	7.57	0.01	0.00
4.87	1.05	0.00	7.57	0.01	0.00	4.88	1.04	0.00	7.56	0.01	0.00
4.89	1.02	0.00	7.55	0.01	0.00	4.90	1.02	0.00	7.55	0.01	0.00
4.91	1.01	0.00	7.54	0.01	0.00	4.92	1.00	0.00	7.54	0.01	0.00
4.93	0.99	0.01	7.54	0.01	0.00	4.94	0.99	0.01	7.53	0.01	0.00
4.95	0.98	0.02	7.53	0.01	0.00	4.96	0.96	0.04	7.52	0.01	0.00
4.97	0.93	0.07	7.51	0.01	0.01	4.98	0.95	0.05	7.51	0.01	0.00
4.99	0.92	0.08	7.50	0.01	0.01	5.00	0.89	0.11	7.50	0.01	0.01
5.01	0.89	0.11	7.50	0.01	0.01	5.02	0.88	0.12	7.49	0.01	0.01
5.03	0.83	0.17	7.49	0.01	0.01	5.04	0.80	0.20	7.48	0.01	0.01
5.05	0.86	0.14	7.47	0.01	0.01	5.06	0.91	0.09	7.47	0.01	0.01
5.07	0.94	0.06	7.46	0.01	0.00	5.08	0.96	0.04	7.46	0.01	0.00
5.09	0.97	0.03	7.46	0.01	0.00	5.10	1.00	0.00	7.45	0.01	0.00
5.11	1.02	0.00	7.45	0.01	0.00	5.12	1.03	0.00	7.44	0.01	0.00
5.13	1.03	0.00	7.43	0.01	0.00	5.14	1.02	0.00	7.43	0.01	0.00
5.15	1.00	0.00	7.42	0.01	0.00	5.16	0.98	0.02	7.42	0.01	0.00
5.17	0.97	0.03	7.42	0.01	0.00	5.18	0.96	0.04	7.41	0.01	0.00
5.19	0.96	0.04	7.41	0.01	0.00	5.20	0.97	0.03	7.40	0.01	0.00
5.21	1.00	0.00	7.39	0.01	0.00	5.22	1.01	0.00	7.39	0.01	0.00
5.23	1.02	0.00	7.38	0.01	0.00	5.24	1.03	0.00	7.38	0.01	0.00
5.25	1.02	0.00	7.38	0.01	0.00	5.26	1.01	0.00	7.37	0.01	0.00
5.27	1.00	0.00	7.37	0.01	0.00	5.28	0.98	0.02	7.36	0.01	0.00
5.29	0.98	0.02	7.36	0.01	0.00	5.30	0.96	0.04	7.35	0.01	0.00
5.31	0.96	0.04	7.34	0.01	0.00	5.32	0.95	0.05	7.34	0.01	0.00
5.33	0.96	0.04	7.33	0.01	0.00	5.34	0.97	0.03	7.33	0.01	0.00
5.35	0.98	0.02	7.33	0.01	0.00	5.36	0.98	0.02	7.32	0.01	0.00
5.37	0.99	0.01	7.32	0.01	0.00	5.38	0.99	0.01	7.31	0.01	0.00
5.39	0.99	0.01	7.30	0.01	0.00	5.40	0.99	0.01	7.30	0.01	0.00
5.41	0.99	0.01	7.29	0.01	0.00	5.42	0.99	0.01	7.29	0.01	0.00
5.43	0.99	0.01	7.29	0.01	0.00	5.44	0.98	0.02	7.28	0.01	0.00
5.45	0.98	0.02	7.28	0.01	0.00	5.46	0.98	0.02	7.27	0.01	0.00
5.47	0.98	0.02	7.26	0.01	0.00	5.48	0.98	0.02	7.26	0.01	0.00
5.49	0.97	0.03	7.25	0.01	0.00	5.50	0.97	0.03	7.25	0.01	0.00
5.51	0.98	0.02	7.25	0.01	0.00	5.52	0.97	0.03	7.24	0.01	0.00
5.53	0.97	0.03	7.24	0.01	0.00	5.54	0.97	0.03	7.23	0.01	0.00
5.55	0.97	0.03	7.22	0.01	0.00	5.56	0.97	0.03	7.22	0.01	0.00
5.57	0.97	0.03	7.21	0.01	0.00	5.58	0.97	0.03	7.21	0.01	0.00
5.59	0.97	0.03	7.21	0.01	0.00	5.60	0.97	0.03	7.20	0.01	0.00
5.61	0.97	0.03	7.20	0.01	0.00	5.62	0.99	0.01	7.19	0.01	0.00
5.63	0.99	0.01	7.18	0.01	0.00	5.64	0.99	0.01	7.18	0.01	0.00
5.65	1.00	0.00	7.17	0.01	0.00	5.66	1.00	0.00	7.17	0.01	0.00
5.67	1.00	0.00	7.17	0.01	0.00	5.68	1.01	0.00	7.16	0.01	0.00
5.69	1.01	0.00	7.16	0.01	0.00	5.70	1.00	0.00	7.15	0.01	0.00
5.71	1.01	0.00	7.14	0.01	0.00	5.72	1.00	0.00	7.14	0.01	0.00
5.73	1.00	0.00	7.13	0.01	0.00	5.74	0.99	0.01	7.13	0.01	0.00
5.75	0.99	0.01	7.13	0.01	0.00	5.76	0.98	0.02	7.12	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
5.77	0.98	0.02	7.12	0.01	0.00	5.78	0.97	0.03	7.11	0.01	0.00
5.79	0.97	0.03	7.11	0.01	0.00	5.80	0.96	0.04	7.10	0.01	0.00
5.81	0.96	0.04	7.09	0.01	0.00	5.82	0.97	0.03	7.09	0.01	0.00
5.83	0.97	0.03	7.08	0.01	0.00	5.84	0.97	0.03	7.08	0.01	0.00
5.85	0.97	0.03	7.08	0.01	0.00	5.86	0.97	0.03	7.07	0.01	0.00
5.87	0.97	0.03	7.07	0.01	0.00	5.88	0.98	0.02	7.06	0.01	0.00
5.89	0.98	0.02	7.05	0.01	0.00	5.90	0.98	0.02	7.05	0.01	0.00
5.91	0.99	0.01	7.04	0.01	0.00	5.92	0.98	0.02	7.04	0.01	0.00
5.93	0.99	0.01	7.04	0.01	0.00	5.94	1.01	0.00	7.03	0.01	0.00
5.95	1.01	0.00	7.03	0.01	0.00	5.96	0.99	0.01	7.02	0.01	0.00
5.97	1.00	0.00	7.01	0.01	0.00	5.98	1.00	0.00	7.01	0.01	0.00
5.99	0.97	0.03	7.00	0.01	0.00	6.00	0.97	0.03	7.00	0.01	0.00
6.01	0.97	0.03	7.00	0.01	0.00	6.02	0.94	0.06	6.99	0.01	0.00
6.03	0.90	0.10	6.99	0.01	0.01	6.04	0.99	0.01	6.98	0.01	0.00
6.05	0.96	0.04	6.97	0.01	0.00	6.06	0.95	0.05	6.97	0.01	0.00
6.07	0.91	0.09	6.96	0.01	0.01	6.08	0.90	0.10	6.96	0.01	0.01
6.09	0.94	0.06	6.96	0.01	0.00	6.10	0.95	0.05	6.95	0.01	0.00
6.11	0.96	0.04	6.95	0.01	0.00	6.12	0.97	0.03	6.94	0.01	0.00
6.13	1.00	0.00	6.93	0.01	0.00	6.14	1.02	0.00	6.93	0.01	0.00
6.15	1.05	0.00	6.92	0.01	0.00	6.16	1.12	0.00	6.92	0.01	0.00
6.17	1.12	0.00	6.92	0.01	0.00	6.18	1.18	0.00	6.91	0.01	0.00
6.19	1.18	0.00	6.91	0.01	0.00	6.20	1.13	0.00	6.90	0.01	0.00
6.21	1.10	0.00	6.89	0.01	0.00	6.22	1.07	0.00	6.89	0.01	0.00
6.23	1.04	0.00	6.88	0.01	0.00	6.24	0.98	0.02	6.88	0.01	0.00
6.25	0.99	0.01	6.88	0.01	0.00	6.26	1.05	0.00	6.87	0.01	0.00
6.27	1.05	0.00	6.87	0.01	0.00	6.28	1.05	0.00	6.86	0.01	0.00
6.29	1.09	0.00	6.86	0.01	0.00	6.30	1.11	0.00	6.85	0.01	0.00
6.31	1.11	0.00	6.84	0.01	0.00	6.32	1.12	0.00	6.84	0.01	0.00
6.33	1.12	0.00	6.83	0.01	0.00	6.34	1.12	0.00	6.83	0.01	0.00
6.35	1.10	0.00	6.83	0.01	0.00	6.36	1.10	0.00	6.82	0.01	0.00
6.37	1.10	0.00	6.82	0.01	0.00	6.38	1.10	0.00	6.81	0.01	0.00
6.39	1.07	0.00	6.80	0.01	0.00	6.40	1.05	0.00	6.80	0.01	0.00
6.41	1.04	0.00	6.79	0.01	0.00	6.42	1.04	0.00	6.79	0.01	0.00
6.43	0.97	0.03	6.79	0.01	0.00	6.44	0.98	0.02	6.78	0.01	0.00
6.45	0.96	0.04	6.78	0.01	0.00	6.46	0.95	0.05	6.77	0.01	0.00
6.47	1.02	0.00	6.76	0.01	0.00	6.48	1.03	0.00	6.76	0.01	0.00
6.49	1.03	0.00	6.75	0.01	0.00	6.50	1.03	0.00	6.75	0.01	0.00
6.51	1.00	0.00	6.75	0.01	0.00	6.52	1.00	0.00	6.74	0.01	0.00
6.53	0.98	0.02	6.74	0.01	0.00	6.54	0.97	0.03	6.73	0.01	0.00
6.55	0.99	0.01	6.72	0.01	0.00	6.56	1.01	0.00	6.72	0.01	0.00
6.57	1.02	0.00	6.71	0.01	0.00	6.58	1.03	0.00	6.71	0.01	0.00
6.59	1.04	0.00	6.71	0.01	0.00	6.60	1.00	0.00	6.70	0.01	0.00
6.61	1.03	0.00	6.70	0.01	0.00	6.62	1.03	0.00	6.69	0.01	0.00
6.63	1.02	0.00	6.68	0.01	0.00	6.64	1.02	0.00	6.68	0.01	0.00
6.65	1.01	0.00	6.67	0.01	0.00	6.66	1.02	0.00	6.67	0.01	0.00
6.67	1.01	0.00	6.67	0.01	0.00	6.68	1.11	0.00	6.66	0.01	0.00
6.69	1.19	0.00	6.66	0.01	0.00	6.70	1.29	0.00	6.65	0.01	0.00
6.71	1.41	0.00	6.64	0.01	0.00	6.72	1.61	0.00	6.64	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
6.73	1.67	0.00	6.63	0.01	0.00	6.74	1.71	0.00	6.63	0.01	0.00
6.75	1.69	0.00	6.63	0.01	0.00	6.76	1.69	0.00	6.62	0.01	0.00
6.77	1.54	0.00	6.62	0.01	0.00	6.78	1.46	0.00	6.61	0.01	0.00
6.79	1.39	0.00	6.61	0.01	0.00	6.80	1.30	0.00	6.60	0.01	0.00
6.81	1.27	0.00	6.59	0.01	0.00	6.82	1.26	0.00	6.59	0.01	0.00
6.83	1.28	0.00	6.58	0.01	0.00	6.84	1.29	0.00	6.58	0.01	0.00
6.85	1.29	0.00	6.58	0.01	0.00	6.86	1.32	0.00	6.57	0.01	0.00
6.87	1.35	0.00	6.57	0.01	0.00	6.88	1.36	0.00	6.56	0.01	0.00
6.89	1.38	0.00	6.55	0.01	0.00	6.90	1.42	0.00	6.55	0.01	0.00
6.91	1.60	0.00	6.54	0.01	0.00	6.92	1.73	0.00	6.54	0.01	0.00
6.93	1.88	0.00	6.54	0.01	0.00	6.94	2.00	0.00	6.53	0.01	0.00
6.95	2.00	0.00	6.53	0.01	0.00	6.96	2.00	0.00	6.52	0.01	0.00
6.97	2.00	0.00	6.51	0.01	0.00	6.98	2.00	0.00	6.51	0.01	0.00
6.99	2.00	0.00	6.50	0.01	0.00	7.00	1.98	0.00	6.50	0.01	0.00
7.01	1.86	0.00	6.50	0.01	0.00	7.02	1.86	0.00	6.49	0.01	0.00
7.03	1.86	0.00	6.49	0.01	0.00	7.04	1.66	0.00	6.48	0.01	0.00
7.05	1.69	0.00	6.47	0.01	0.00	7.06	1.72	0.00	6.47	0.01	0.00
7.07	1.77	0.00	6.46	0.01	0.00	7.08	1.89	0.00	6.46	0.01	0.00
7.09	1.99	0.00	6.46	0.01	0.00	7.10	2.00	0.00	6.45	0.01	0.00
7.11	2.00	0.00	6.45	0.01	0.00	7.12	2.00	0.00	6.44	0.01	0.00
7.13	2.00	0.00	6.43	0.01	0.00	7.14	2.00	0.00	6.43	0.01	0.00
7.15	2.00	0.00	6.42	0.01	0.00	7.16	2.00	0.00	6.42	0.01	0.00
7.17	2.00	0.00	6.42	0.01	0.00	7.18	2.00	0.00	6.41	0.01	0.00
7.19	2.00	0.00	6.41	0.01	0.00	7.20	2.00	0.00	6.40	0.01	0.00
7.21	2.00	0.00	6.39	0.01	0.00	7.22	1.95	0.00	6.39	0.01	0.00
7.23	1.83	0.00	6.38	0.01	0.00	7.24	1.79	0.00	6.38	0.01	0.00
7.25	1.77	0.00	6.38	0.01	0.00	7.26	1.77	0.00	6.37	0.01	0.00
7.27	1.77	0.00	6.37	0.01	0.00	7.28	1.78	0.00	6.36	0.01	0.00
7.29	1.78	0.00	6.36	0.01	0.00	7.30	1.77	0.00	6.35	0.01	0.00
7.31	1.77	0.00	6.34	0.01	0.00	7.32	1.78	0.00	6.34	0.01	0.00
7.33	1.79	0.00	6.33	0.01	0.00	7.34	1.82	0.00	6.33	0.01	0.00
7.35	1.84	0.00	6.33	0.01	0.00	7.36	1.90	0.00	6.32	0.01	0.00
7.37	1.93	0.00	6.32	0.01	0.00	7.38	1.97	0.00	6.31	0.01	0.00
7.39	1.99	0.00	6.30	0.01	0.00	7.40	2.00	0.00	6.30	0.01	0.00
7.41	2.00	0.00	6.29	0.01	0.00	7.42	2.00	0.00	6.29	0.01	0.00
7.43	2.00	0.00	6.29	0.01	0.00	7.44	2.00	0.00	6.28	0.01	0.00
7.45	2.00	0.00	6.28	0.01	0.00	7.46	1.93	0.00	6.27	0.01	0.00
7.47	1.83	0.00	6.26	0.01	0.00	7.48	1.62	0.00	6.26	0.01	0.00
7.49	1.53	0.00	6.25	0.01	0.00	7.50	1.49	0.00	6.25	0.01	0.00
7.51	1.42	0.00	6.25	0.01	0.00	7.52	1.42	0.00	6.24	0.01	0.00
7.53	1.43	0.00	6.24	0.01	0.00	7.54	1.44	0.00	6.23	0.01	0.00
7.55	1.45	0.00	6.22	0.01	0.00	7.56	1.41	0.00	6.22	0.01	0.00
7.57	1.43	0.00	6.21	0.01	0.00	7.58	1.45	0.00	6.21	0.01	0.00
7.59	1.44	0.00	6.21	0.01	0.00	7.60	1.43	0.00	6.20	0.01	0.00
7.61	1.40	0.00	6.20	0.01	0.00	7.62	1.37	0.00	6.19	0.01	0.00
7.63	1.34	0.00	6.18	0.01	0.00	7.64	1.32	0.00	6.18	0.01	0.00
7.65	1.29	0.00	6.17	0.01	0.00	7.66	1.26	0.00	6.17	0.01	0.00
7.67	1.24	0.00	6.17	0.01	0.00	7.68	1.22	0.00	6.16	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
7.69	1.21	0.00	6.16	0.01	0.00	7.70	1.19	0.00	6.15	0.01	0.00
7.71	1.17	0.00	6.14	0.01	0.00	7.72	1.15	0.00	6.14	0.01	0.00
7.73	1.14	0.00	6.13	0.01	0.00	7.74	1.13	0.00	6.13	0.01	0.00
7.75	1.11	0.00	6.13	0.01	0.00	7.76	1.10	0.00	6.12	0.01	0.00
7.77	1.12	0.00	6.12	0.01	0.00	7.78	1.12	0.00	6.11	0.01	0.00
7.79	1.13	0.00	6.11	0.01	0.00	7.80	1.14	0.00	6.10	0.01	0.00
7.81	1.13	0.00	6.09	0.01	0.00	7.82	1.13	0.00	6.09	0.01	0.00
7.83	1.13	0.00	6.08	0.01	0.00	7.84	1.13	0.00	6.08	0.01	0.00
7.85	1.13	0.00	6.08	0.01	0.00	7.86	1.13	0.00	6.07	0.01	0.00
7.87	1.14	0.00	6.07	0.01	0.00	7.88	1.15	0.00	6.06	0.01	0.00
7.89	1.20	0.00	6.05	0.01	0.00	7.90	1.24	0.00	6.05	0.01	0.00
7.91	1.28	0.00	6.04	0.01	0.00	7.92	1.33	0.00	6.04	0.01	0.00
7.93	1.44	0.00	6.04	0.01	0.00	7.94	1.47	0.00	6.03	0.01	0.00
7.95	1.47	0.00	6.03	0.01	0.00	7.96	1.47	0.00	6.02	0.01	0.00
7.97	1.39	0.00	6.01	0.01	0.00	7.98	1.34	0.00	6.01	0.01	0.00
7.99	1.32	0.00	6.00	0.01	0.00	8.00	1.30	0.00	6.00	0.01	0.00
8.01	1.30	0.00	6.00	0.01	0.00	8.02	1.30	0.00	5.99	0.01	0.00
8.03	1.29	0.00	5.99	0.01	0.00	8.04	1.30	0.00	5.98	0.01	0.00
8.05	1.30	0.00	5.97	0.01	0.00	8.06	1.28	0.00	5.97	0.01	0.00
8.07	1.28	0.00	5.96	0.01	0.00	8.08	1.26	0.00	5.96	0.01	0.00
8.09	1.27	0.00	5.96	0.01	0.00	8.10	1.29	0.00	5.95	0.01	0.00
8.11	1.31	0.00	5.95	0.01	0.00	8.12	1.33	0.00	5.94	0.01	0.00
8.13	1.35	0.00	5.93	0.01	0.00	8.14	1.35	0.00	5.93	0.01	0.00
8.15	1.39	0.00	5.92	0.01	0.00	8.16	1.39	0.00	5.92	0.01	0.00
8.17	1.42	0.00	5.92	0.01	0.00	8.18	1.44	0.00	5.91	0.01	0.00
8.19	1.46	0.00	5.91	0.01	0.00	8.20	1.47	0.00	5.90	0.01	0.00
8.21	1.49	0.00	5.89	0.01	0.00	8.22	1.48	0.00	5.89	0.01	0.00
8.23	1.48	0.00	5.88	0.01	0.00	8.24	1.46	0.00	5.88	0.01	0.00
8.25	1.43	0.00	5.88	0.01	0.00	8.26	1.37	0.00	5.87	0.01	0.00
8.27	1.34	0.00	5.87	0.01	0.00	8.28	1.32	0.00	5.86	0.01	0.00
8.29	1.29	0.00	5.86	0.01	0.00	8.30	1.24	0.00	5.85	0.01	0.00
8.31	1.23	0.00	5.84	0.01	0.00	8.32	1.21	0.00	5.84	0.01	0.00
8.33	1.20	0.00	5.83	0.01	0.00	8.34	1.24	0.00	5.83	0.01	0.00
8.35	1.17	0.00	5.83	0.01	0.00	8.36	1.23	0.00	5.82	0.01	0.00
8.37	1.23	0.00	5.82	0.01	0.00	8.38	1.22	0.00	5.81	0.01	0.00
8.39	1.24	0.00	5.80	0.01	0.00	8.40	1.26	0.00	5.80	0.01	0.00
8.41	1.26	0.00	5.79	0.01	0.00	8.42	1.27	0.00	5.79	0.01	0.00
8.43	1.24	0.00	5.79	0.01	0.00	8.44	1.24	0.00	5.78	0.01	0.00
8.45	1.22	0.00	5.78	0.01	0.00	8.46	1.20	0.00	5.77	0.01	0.00
8.47	1.19	0.00	5.76	0.01	0.00	8.48	1.17	0.00	5.76	0.01	0.00
8.49	1.15	0.00	5.75	0.01	0.00	8.50	1.13	0.00	5.75	0.01	0.00
8.51	1.12	0.00	5.75	0.01	0.00	8.52	1.10	0.00	5.74	0.01	0.00
8.53	1.07	0.00	5.74	0.01	0.00	8.54	1.07	0.00	5.73	0.01	0.00
8.55	1.06	0.00	5.72	0.01	0.00	8.56	1.05	0.00	5.72	0.01	0.00
8.57	1.05	0.00	5.71	0.01	0.00	8.58	1.05	0.00	5.71	0.01	0.00
8.59	1.05	0.00	5.71	0.01	0.00	8.60	1.05	0.00	5.70	0.01	0.00
8.61	1.06	0.00	5.70	0.01	0.00	8.62	1.07	0.00	5.69	0.01	0.00
8.63	1.07	0.00	5.68	0.01	0.00	8.64	1.08	0.00	5.68	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
8.65	1.09	0.00	5.67	0.01	0.00	8.66	1.09	0.00	5.67	0.01	0.00
8.67	1.10	0.00	5.67	0.01	0.00	8.68	1.10	0.00	5.66	0.01	0.00
8.69	1.10	0.00	5.66	0.01	0.00	8.70	1.09	0.00	5.65	0.01	0.00
8.71	1.09	0.00	5.64	0.01	0.00	8.72	1.07	0.00	5.64	0.01	0.00
8.73	1.06	0.00	5.63	0.01	0.00	8.74	1.05	0.00	5.63	0.01	0.00
8.75	1.03	0.00	5.63	0.01	0.00	8.76	1.02	0.00	5.62	0.01	0.00
8.77	1.01	0.00	5.62	0.01	0.00	8.78	1.02	0.00	5.61	0.01	0.00
8.79	1.14	0.00	5.61	0.01	0.00	8.80	1.22	0.00	5.60	0.01	0.00
8.81	1.29	0.00	5.59	0.01	0.00	8.82	1.35	0.00	5.59	0.01	0.00
8.83	1.42	0.00	5.58	0.01	0.00	8.84	1.43	0.00	5.58	0.01	0.00
8.85	1.43	0.00	5.58	0.01	0.00	8.86	1.41	0.00	5.57	0.01	0.00
8.87	1.40	0.00	5.57	0.01	0.00	8.88	1.39	0.00	5.56	0.01	0.00
8.89	1.38	0.00	5.55	0.01	0.00	8.90	1.38	0.00	5.55	0.01	0.00
8.91	1.36	0.00	5.54	0.01	0.00	8.92	1.34	0.00	5.54	0.01	0.00
8.93	1.33	0.00	5.54	0.01	0.00	8.94	1.30	0.00	5.53	0.01	0.00
8.95	1.29	0.00	5.53	0.01	0.00	8.96	1.30	0.00	5.52	0.01	0.00
8.97	1.31	0.00	5.51	0.01	0.00	8.98	1.32	0.00	5.51	0.01	0.00
8.99	1.31	0.00	5.50	0.01	0.00	9.00	1.31	0.00	5.50	0.01	0.00
9.01	1.31	0.00	5.50	0.01	0.00	9.02	1.23	0.00	5.49	0.01	0.00
9.03	1.14	0.00	5.49	0.01	0.00	9.04	1.19	0.00	5.48	0.01	0.00
9.05	1.24	0.00	5.47	0.01	0.00	9.06	1.31	0.00	5.47	0.01	0.00
9.07	1.47	0.00	5.46	0.01	0.00	9.08	1.56	0.00	5.46	0.01	0.00
9.09	1.55	0.00	5.46	0.01	0.00	9.10	1.68	0.00	5.45	0.01	0.00
9.11	1.75	0.00	5.45	0.01	0.00	9.12	1.80	0.00	5.44	0.01	0.00
9.13	1.85	0.00	5.43	0.01	0.00	9.14	1.93	0.00	5.43	0.01	0.00
9.15	2.00	0.00	5.42	0.01	0.00	9.16	2.00	0.00	5.42	0.01	0.00
9.17	2.00	0.00	5.42	0.01	0.00	9.18	2.00	0.00	5.41	0.01	0.00
9.19	2.00	0.00	5.41	0.01	0.00	9.20	2.00	0.00	5.40	0.01	0.00
9.21	2.00	0.00	5.39	0.01	0.00	9.22	1.91	0.00	5.39	0.01	0.00
9.23	1.70	0.00	5.38	0.01	0.00	9.24	1.62	0.00	5.38	0.01	0.00
9.25	1.59	0.00	5.38	0.01	0.00	9.26	1.58	0.00	5.37	0.01	0.00
9.27	1.68	0.00	5.37	0.01	0.00	9.28	1.77	0.00	5.36	0.01	0.00
9.29	1.88	0.00	5.36	0.01	0.00	9.30	2.00	0.00	5.35	0.01	0.00
9.31	2.00	0.00	5.34	0.01	0.00	9.32	2.00	0.00	5.34	0.01	0.00
9.33	2.00	0.00	5.33	0.01	0.00	9.34	1.93	0.00	5.33	0.01	0.00
9.35	1.83	0.00	5.33	0.01	0.00	9.36	1.65	0.00	5.32	0.01	0.00
9.37	1.59	0.00	5.32	0.01	0.00	9.38	1.57	0.00	5.31	0.01	0.00
9.39	1.55	0.00	5.30	0.01	0.00	9.40	1.58	0.00	5.30	0.01	0.00
9.41	1.62	0.00	5.29	0.01	0.00	9.42	1.64	0.00	5.29	0.01	0.00
9.43	1.61	0.00	5.29	0.01	0.00	9.44	1.61	0.00	5.28	0.01	0.00
9.45	1.56	0.00	5.28	0.01	0.00	9.46	1.52	0.00	5.27	0.01	0.00
9.47	1.49	0.00	5.26	0.01	0.00	9.48	1.49	0.00	5.26	0.01	0.00
9.49	1.49	0.00	5.25	0.01	0.00	9.50	1.51	0.00	5.25	0.01	0.00
9.51	1.60	0.00	5.25	0.01	0.00	9.52	1.66	0.00	5.24	0.01	0.00
9.53	1.73	0.00	5.24	0.01	0.00	9.54	1.83	0.00	5.23	0.01	0.00
9.55	1.91	0.00	5.22	0.01	0.00	9.56	2.00	0.00	5.22	0.01	0.00
9.57	2.00	0.00	5.21	0.01	0.00	9.58	2.00	0.00	5.21	0.01	0.00
9.59	2.00	0.00	5.21	0.01	0.00	9.60	2.00	0.00	5.20	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
9.61	2.00	0.00	5.20	0.01	0.00	9.62	2.00	0.00	5.19	0.01	0.00
9.63	2.00	0.00	5.18	0.01	0.00	9.64	2.00	0.00	5.18	0.01	0.00
9.65	2.00	0.00	5.17	0.01	0.00	9.66	2.00	0.00	5.17	0.01	0.00
9.67	2.00	0.00	5.17	0.01	0.00	9.68	2.00	0.00	5.16	0.01	0.00
9.69	2.00	0.00	5.16	0.01	0.00	9.70	2.00	0.00	5.15	0.01	0.00
9.71	2.00	0.00	5.14	0.01	0.00	9.72	2.00	0.00	5.14	0.01	0.00
9.73	2.00	0.00	5.13	0.01	0.00	9.74	2.00	0.00	5.13	0.01	0.00
9.75	2.00	0.00	5.13	0.01	0.00	9.76	2.00	0.00	5.12	0.01	0.00
9.77	2.00	0.00	5.12	0.01	0.00	9.78	2.00	0.00	5.11	0.01	0.00
9.79	2.00	0.00	5.11	0.01	0.00	9.80	2.00	0.00	5.10	0.01	0.00
9.81	2.00	0.00	5.09	0.01	0.00	9.82	2.00	0.00	5.09	0.01	0.00
9.83	2.00	0.00	5.08	0.01	0.00	9.84	2.00	0.00	5.08	0.01	0.00
9.85	2.00	0.00	5.08	0.01	0.00	9.86	2.00	0.00	5.07	0.01	0.00
9.87	2.00	0.00	5.07	0.01	0.00	9.88	2.00	0.00	5.06	0.01	0.00
9.89	2.00	0.00	5.05	0.01	0.00	9.90	2.00	0.00	5.05	0.01	0.00
9.91	2.00	0.00	5.04	0.01	0.00	9.92	1.97	0.00	5.04	0.01	0.00
9.93	1.81	0.00	5.04	0.01	0.00	9.94	1.81	0.00	5.03	0.01	0.00
9.95	1.68	0.00	5.03	0.01	0.00	9.96	1.62	0.00	5.02	0.01	0.00
9.97	1.56	0.00	5.01	0.01	0.00	9.98	1.50	0.00	5.01	0.01	0.00
9.99	1.47	0.00	5.00	0.01	0.00	10.00	1.46	0.00	5.00	0.01	0.00
10.01	1.45	0.00	5.00	0.01	0.00	10.02	1.45	0.00	4.99	0.01	0.00
10.03	1.45	0.00	4.99	0.01	0.00	10.04	1.36	0.00	4.98	0.01	0.00
10.05	1.35	0.00	4.97	0.01	0.00	10.06	1.34	0.00	4.97	0.01	0.00
10.07	1.34	0.00	4.96	0.01	0.00	10.08	1.28	0.00	4.96	0.01	0.00
10.09	1.26	0.00	4.96	0.01	0.00	10.10	1.23	0.00	4.95	0.01	0.00
10.11	1.22	0.00	4.95	0.01	0.00	10.12	1.18	0.00	4.94	0.01	0.00
10.13	1.14	0.00	4.93	0.01	0.00	10.14	1.11	0.00	4.93	0.01	0.00
10.15	1.09	0.00	4.92	0.01	0.00	10.16	1.05	0.00	4.92	0.01	0.00
10.17	1.03	0.00	4.92	0.01	0.00	10.18	1.01	0.00	4.91	0.01	0.00
10.19	1.01	0.00	4.91	0.01	0.00	10.20	0.99	0.01	4.90	0.01	0.00
10.21	0.98	0.02	4.89	0.01	0.00	10.22	0.98	0.02	4.89	0.01	0.00
10.23	0.99	0.01	4.88	0.01	0.00	10.24	0.99	0.01	4.88	0.01	0.00
10.25	0.98	0.02	4.88	0.01	0.00	10.26	0.97	0.03	4.87	0.01	0.00
10.27	0.97	0.03	4.87	0.01	0.00	10.28	0.95	0.05	4.86	0.01	0.00
10.29	0.96	0.04	4.86	0.01	0.00	10.30	0.98	0.02	4.85	0.01	0.00
10.31	1.00	0.00	4.84	0.01	0.00	10.32	1.02	0.00	4.84	0.01	0.00
10.33	1.00	0.00	4.83	0.01	0.00	10.34	1.01	0.00	4.83	0.01	0.00
10.35	1.00	0.00	4.83	0.01	0.00	10.36	0.98	0.02	4.82	0.01	0.00
10.37	0.97	0.03	4.82	0.01	0.00	10.38	0.94	0.06	4.81	0.01	0.00
10.39	0.92	0.08	4.80	0.01	0.00	10.40	0.91	0.09	4.80	0.01	0.00
10.41	0.91	0.09	4.79	0.01	0.00	10.42	0.90	0.10	4.79	0.01	0.00
10.43	0.90	0.10	4.79	0.01	0.00	10.44	0.92	0.08	4.78	0.01	0.00
10.45	0.91	0.09	4.78	0.01	0.00	10.46	0.94	0.06	4.77	0.01	0.00
10.47	0.94	0.06	4.76	0.01	0.00	10.48	0.88	0.12	4.76	0.01	0.01
10.49	0.89	0.11	4.75	0.01	0.01	10.50	0.90	0.10	4.75	0.01	0.00
10.51	0.91	0.09	4.75	0.01	0.00	10.52	0.92	0.08	4.74	0.01	0.00
10.53	0.88	0.12	4.74	0.01	0.01	10.54	0.88	0.12	4.73	0.01	0.01
10.55	0.89	0.11	4.72	0.01	0.01	10.56	0.89	0.11	4.72	0.01	0.01

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
10.57	0.91	0.09	4.71	0.01	0.00	10.58	0.94	0.06	4.71	0.01	0.00
10.59	0.98	0.02	4.71	0.01	0.00	10.60	1.03	0.00	4.70	0.01	0.00
10.61	1.15	0.00	4.70	0.01	0.00	10.62	1.14	0.00	4.69	0.01	0.00
10.63	1.13	0.00	4.68	0.01	0.00	10.64	1.10	0.00	4.68	0.01	0.00
10.65	1.08	0.00	4.67	0.01	0.00	10.66	1.11	0.00	4.67	0.01	0.00
10.67	1.07	0.00	4.67	0.01	0.00	10.68	1.02	0.00	4.66	0.01	0.00
10.69	0.97	0.03	4.66	0.01	0.00	10.70	0.94	0.06	4.65	0.01	0.00
10.71	0.91	0.09	4.64	0.01	0.00	10.72	0.90	0.10	4.64	0.01	0.00
10.73	0.90	0.10	4.63	0.01	0.00	10.74	0.91	0.09	4.63	0.01	0.00
10.75	0.89	0.11	4.63	0.01	0.01	10.76	0.88	0.12	4.62	0.01	0.01
10.77	0.89	0.11	4.62	0.01	0.01	10.78	0.87	0.13	4.61	0.01	0.01
10.79	0.88	0.12	4.61	0.01	0.01	10.80	0.88	0.12	4.60	0.01	0.01
10.81	0.88	0.12	4.59	0.01	0.01	10.82	0.89	0.11	4.59	0.01	0.00
10.83	0.89	0.11	4.58	0.01	0.01	10.84	0.89	0.11	4.58	0.01	0.01
10.85	0.88	0.12	4.58	0.01	0.01	10.86	0.91	0.09	4.57	0.01	0.00
10.87	0.92	0.08	4.57	0.01	0.00	10.88	0.93	0.07	4.56	0.01	0.00
10.89	0.94	0.06	4.55	0.01	0.00	10.90	0.95	0.05	4.55	0.01	0.00
10.91	0.97	0.03	4.54	0.01	0.00	10.92	0.98	0.02	4.54	0.01	0.00
10.93	1.00	0.00	4.54	0.01	0.00	10.94	1.03	0.00	4.53	0.01	0.00
10.95	1.05	0.00	4.53	0.01	0.00	10.96	1.06	0.00	4.52	0.01	0.00
10.97	1.07	0.00	4.51	0.01	0.00	10.98	1.07	0.00	4.51	0.01	0.00
10.99	1.08	0.00	4.50	0.01	0.00	11.00	1.09	0.00	4.50	0.01	0.00
11.01	1.08	0.00	4.50	0.01	0.00	11.02	1.07	0.00	4.49	0.01	0.00
11.03	1.07	0.00	4.49	0.01	0.00	11.04	0.98	0.02	4.48	0.01	0.00
11.05	0.99	0.01	4.47	0.01	0.00	11.06	1.04	0.00	4.47	0.01	0.00
11.07	1.02	0.00	4.46	0.01	0.00	11.08	1.07	0.00	4.46	0.01	0.00
11.09	1.12	0.00	4.46	0.01	0.00	11.10	1.12	0.00	4.45	0.01	0.00
11.11	1.14	0.00	4.45	0.01	0.00	11.12	1.16	0.00	4.44	0.01	0.00
11.13	1.17	0.00	4.43	0.01	0.00	11.14	1.15	0.00	4.43	0.01	0.00
11.15	1.14	0.00	4.42	0.01	0.00	11.16	1.13	0.00	4.42	0.01	0.00
11.17	1.12	0.00	4.42	0.01	0.00	11.18	1.12	0.00	4.41	0.01	0.00
11.19	1.11	0.00	4.41	0.01	0.00	11.20	1.08	0.00	4.40	0.01	0.00
11.21	1.06	0.00	4.39	0.01	0.00	11.22	1.05	0.00	4.39	0.01	0.00
11.23	1.02	0.00	4.38	0.01	0.00	11.24	1.01	0.00	4.38	0.01	0.00
11.25	1.00	0.00	4.38	0.01	0.00	11.26	1.00	0.00	4.37	0.01	0.00
11.27	1.00	0.00	4.37	0.01	0.00	11.28	1.00	0.00	4.36	0.01	0.00
11.29	1.01	0.00	4.36	0.01	0.00	11.30	1.00	0.00	4.35	0.01	0.00
11.31	1.01	0.00	4.34	0.01	0.00	11.32	1.02	0.00	4.34	0.01	0.00
11.33	1.02	0.00	4.33	0.01	0.00	11.34	1.02	0.00	4.33	0.01	0.00
11.35	1.03	0.00	4.33	0.01	0.00	11.36	1.03	0.00	4.32	0.01	0.00
11.37	1.02	0.00	4.32	0.01	0.00	11.38	1.03	0.00	4.31	0.01	0.00
11.39	1.01	0.00	4.30	0.01	0.00	11.40	1.01	0.00	4.30	0.01	0.00
11.41	0.99	0.01	4.29	0.01	0.00	11.42	0.99	0.01	4.29	0.01	0.00
11.43	0.97	0.03	4.29	0.01	0.00	11.44	0.95	0.05	4.28	0.01	0.00
11.45	0.93	0.07	4.28	0.01	0.00	11.46	0.93	0.07	4.27	0.01	0.00
11.47	0.93	0.07	4.26	0.01	0.00	11.48	0.93	0.07	4.26	0.01	0.00
11.49	0.94	0.06	4.25	0.01	0.00	11.50	0.94	0.06	4.25	0.01	0.00
11.51	0.95	0.05	4.25	0.01	0.00	11.52	0.97	0.03	4.24	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
11.53	0.97	0.03	4.24	0.01	0.00	11.54	0.99	0.01	4.23	0.01	0.00
11.55	1.01	0.00	4.22	0.01	0.00	11.56	1.02	0.00	4.22	0.01	0.00
11.57	1.03	0.00	4.21	0.01	0.00	11.58	1.05	0.00	4.21	0.01	0.00
11.59	1.02	0.00	4.21	0.01	0.00	11.60	1.03	0.00	4.20	0.01	0.00
11.61	1.02	0.00	4.20	0.01	0.00	11.62	1.01	0.00	4.19	0.01	0.00
11.63	1.06	0.00	4.18	0.01	0.00	11.64	1.09	0.00	4.18	0.01	0.00
11.65	1.13	0.00	4.17	0.01	0.00	11.66	1.18	0.00	4.17	0.01	0.00
11.67	1.21	0.00	4.17	0.01	0.00	11.68	1.22	0.00	4.16	0.01	0.00
11.69	1.19	0.00	4.16	0.01	0.00	11.70	1.10	0.00	4.15	0.01	0.00
11.71	1.06	0.00	4.14	0.01	0.00	11.72	1.10	0.00	4.14	0.01	0.00
11.73	1.08	0.00	4.13	0.01	0.00	11.74	1.10	0.00	4.13	0.01	0.00
11.75	1.13	0.00	4.13	0.01	0.00	11.76	1.15	0.00	4.12	0.01	0.00
11.77	1.17	0.00	4.12	0.01	0.00	11.78	1.19	0.00	4.11	0.01	0.00
11.79	1.15	0.00	4.11	0.01	0.00	11.80	1.17	0.00	4.10	0.01	0.00
11.81	1.16	0.00	4.09	0.01	0.00	11.82	1.15	0.00	4.09	0.01	0.00
11.83	1.17	0.00	4.08	0.01	0.00	11.84	1.16	0.00	4.08	0.01	0.00
11.85	1.16	0.00	4.08	0.01	0.00	11.86	1.17	0.00	4.07	0.01	0.00
11.87	1.19	0.00	4.07	0.01	0.00	11.88	1.19	0.00	4.06	0.01	0.00
11.89	1.26	0.00	4.05	0.01	0.00	11.90	1.26	0.00	4.05	0.01	0.00
11.91	1.31	0.00	4.04	0.01	0.00	11.92	1.41	0.00	4.04	0.01	0.00
11.93	1.39	0.00	4.04	0.01	0.00	11.94	1.40	0.00	4.03	0.01	0.00
11.95	1.41	0.00	4.03	0.01	0.00	11.96	1.42	0.00	4.02	0.01	0.00
11.97	1.42	0.00	4.01	0.01	0.00	11.98	1.42	0.00	4.01	0.01	0.00
11.99	1.39	0.00	4.00	0.01	0.00	12.00	1.39	0.00	4.00	0.01	0.00
12.01	1.40	0.00	4.00	0.01	0.00	12.02	1.30	0.00	3.99	0.01	0.00
12.03	1.22	0.00	3.98	0.01	0.00	12.04	1.20	0.00	3.98	0.01	0.00
12.05	1.15	0.00	3.98	0.01	0.00	12.06	1.10	0.00	3.97	0.01	0.00
12.07	1.12	0.00	3.96	0.01	0.00	12.08	1.14	0.00	3.96	0.01	0.00
12.09	1.16	0.00	3.96	0.01	0.00	12.10	1.18	0.00	3.95	0.01	0.00
12.11	1.22	0.00	3.94	0.01	0.00	12.12	1.24	0.00	3.94	0.01	0.00
12.13	1.21	0.00	3.94	0.01	0.00	12.14	1.26	0.00	3.93	0.01	0.00
12.15	1.25	0.00	3.92	0.01	0.00	12.16	1.26	0.00	3.92	0.01	0.00
12.17	1.26	0.00	3.92	0.01	0.00	12.18	1.26	0.00	3.91	0.01	0.00
12.19	1.26	0.00	3.90	0.01	0.00	12.20	1.25	0.00	3.90	0.01	0.00
12.21	1.25	0.00	3.90	0.01	0.00	12.22	1.27	0.00	3.89	0.01	0.00
12.23	1.20	0.00	3.88	0.01	0.00	12.24	1.21	0.00	3.88	0.01	0.00
12.25	1.21	0.00	3.88	0.01	0.00	12.26	1.18	0.00	3.87	0.01	0.00
12.27	1.17	0.00	3.87	0.01	0.00	12.28	1.16	0.00	3.86	0.01	0.00
12.29	1.16	0.00	3.85	0.01	0.00	12.30	1.16	0.00	3.85	0.01	0.00
12.31	1.16	0.00	3.85	0.01	0.00	12.32	1.16	0.00	3.84	0.01	0.00
12.33	1.18	0.00	3.83	0.01	0.00	12.34	1.15	0.00	3.83	0.01	0.00
12.35	1.17	0.00	3.83	0.01	0.00	12.36	1.18	0.00	3.82	0.01	0.00
12.37	1.18	0.00	3.81	0.01	0.00	12.38	1.19	0.00	3.81	0.01	0.00
12.39	1.21	0.00	3.81	0.01	0.00	12.40	1.21	0.00	3.80	0.01	0.00
12.41	1.21	0.00	3.79	0.01	0.00	12.42	1.21	0.00	3.79	0.01	0.00
12.43	1.17	0.00	3.79	0.01	0.00	12.44	1.17	0.00	3.78	0.01	0.00
12.45	1.19	0.00	3.77	0.01	0.00	12.46	1.16	0.00	3.77	0.01	0.00
12.47	1.15	0.00	3.77	0.01	0.00	12.48	1.17	0.00	3.76	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
12.49	1.19	0.00	3.75	0.01	0.00	12.50	1.15	0.00	3.75	0.01	0.00
12.51	1.18	0.00	3.75	0.01	0.00	12.52	1.21	0.00	3.74	0.01	0.00
12.53	1.22	0.00	3.73	0.01	0.00	12.54	1.28	0.00	3.73	0.01	0.00
12.55	1.27	0.00	3.73	0.01	0.00	12.56	1.29	0.00	3.72	0.01	0.00
12.57	1.31	0.00	3.71	0.01	0.00	12.58	1.29	0.00	3.71	0.01	0.00
12.59	1.31	0.00	3.71	0.01	0.00	12.60	1.31	0.00	3.70	0.01	0.00
12.61	1.31	0.00	3.69	0.01	0.00	12.62	1.32	0.00	3.69	0.01	0.00
12.63	1.27	0.00	3.69	0.01	0.00	12.64	1.28	0.00	3.68	0.01	0.00
12.65	1.27	0.00	3.67	0.01	0.00	12.66	1.24	0.00	3.67	0.01	0.00
12.67	1.21	0.00	3.67	0.01	0.00	12.68	1.21	0.00	3.66	0.01	0.00
12.69	1.20	0.00	3.65	0.01	0.00	12.70	1.20	0.00	3.65	0.01	0.00
12.71	1.19	0.00	3.65	0.01	0.00	12.72	1.19	0.00	3.64	0.01	0.00
12.73	1.20	0.00	3.63	0.01	0.00	12.74	1.18	0.00	3.63	0.01	0.00
12.75	1.19	0.00	3.63	0.01	0.00	12.76	1.18	0.00	3.62	0.01	0.00
12.77	1.16	0.00	3.62	0.01	0.00	12.78	1.17	0.00	3.61	0.01	0.00
12.79	1.16	0.00	3.60	0.01	0.00	12.80	1.14	0.00	3.60	0.01	0.00
12.81	1.13	0.00	3.60	0.01	0.00	12.82	1.13	0.00	3.59	0.01	0.00
12.83	1.07	0.00	3.58	0.01	0.00	12.84	1.09	0.00	3.58	0.01	0.00
12.85	1.12	0.00	3.58	0.01	0.00	12.86	1.12	0.00	3.57	0.01	0.00
12.87	1.14	0.00	3.56	0.01	0.00	12.88	1.17	0.00	3.56	0.01	0.00
12.89	1.20	0.00	3.56	0.01	0.00	12.90	1.26	0.00	3.55	0.01	0.00
12.91	1.27	0.00	3.54	0.01	0.00	12.92	1.27	0.00	3.54	0.01	0.00
12.93	1.25	0.00	3.54	0.01	0.00	12.94	1.25	0.00	3.53	0.01	0.00
12.95	1.24	0.00	3.52	0.01	0.00	12.96	1.24	0.00	3.52	0.01	0.00
12.97	1.25	0.00	3.52	0.01	0.00	12.98	1.30	0.00	3.51	0.01	0.00
12.99	1.32	0.00	3.50	0.01	0.00	13.00	1.33	0.00	3.50	0.01	0.00
13.01	1.33	0.00	3.50	0.01	0.00	13.02	1.31	0.00	3.49	0.01	0.00
13.03	1.30	0.00	3.48	0.01	0.00	13.04	1.33	0.00	3.48	0.01	0.00
13.05	1.40	0.00	3.48	0.01	0.00	13.06	1.43	0.00	3.47	0.01	0.00
13.07	1.43	0.00	3.46	0.01	0.00	13.08	1.40	0.00	3.46	0.01	0.00
13.09	1.38	0.00	3.46	0.01	0.00	13.10	1.36	0.00	3.45	0.01	0.00
13.11	1.34	0.00	3.44	0.01	0.00	13.12	1.32	0.00	3.44	0.01	0.00
13.13	1.28	0.00	3.44	0.01	0.00	13.14	1.29	0.00	3.43	0.01	0.00
13.15	1.31	0.00	3.42	0.01	0.00	13.16	1.35	0.00	3.42	0.01	0.00
13.17	1.38	0.00	3.42	0.01	0.00	13.18	1.36	0.00	3.41	0.01	0.00
13.19	1.41	0.00	3.40	0.01	0.00	13.20	1.48	0.00	3.40	0.01	0.00
13.21	1.48	0.00	3.40	0.01	0.00	13.22	1.50	0.00	3.39	0.01	0.00
13.23	1.50	0.00	3.38	0.01	0.00	13.24	1.49	0.00	3.38	0.01	0.00
13.25	1.49	0.00	3.38	0.01	0.00	13.26	1.47	0.00	3.37	0.01	0.00
13.27	1.44	0.00	3.37	0.01	0.00	13.28	1.42	0.00	3.36	0.01	0.00
13.29	1.38	0.00	3.35	0.01	0.00	13.30	1.33	0.00	3.35	0.01	0.00
13.31	1.29	0.00	3.35	0.01	0.00	13.32	1.25	0.00	3.34	0.01	0.00
13.33	1.26	0.00	3.33	0.01	0.00	13.34	1.24	0.00	3.33	0.01	0.00
13.35	1.24	0.00	3.33	0.01	0.00	13.36	1.24	0.00	3.32	0.01	0.00
13.37	1.22	0.00	3.31	0.01	0.00	13.38	1.24	0.00	3.31	0.01	0.00
13.39	1.28	0.00	3.31	0.01	0.00	13.40	1.27	0.00	3.30	0.01	0.00
13.41	1.31	0.00	3.29	0.01	0.00	13.42	1.34	0.00	3.29	0.01	0.00
13.43	1.36	0.00	3.29	0.01	0.00	13.44	1.38	0.00	3.28	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
13.45	1.39	0.00	3.27	0.01	0.00	13.46	1.39	0.00	3.27	0.01	0.00
13.47	1.38	0.00	3.27	0.01	0.00	13.48	1.37	0.00	3.26	0.01	0.00
13.49	1.34	0.00	3.25	0.01	0.00	13.50	1.28	0.00	3.25	0.01	0.00
13.51	1.22	0.00	3.25	0.01	0.00	13.52	1.21	0.00	3.24	0.01	0.00
13.53	1.16	0.00	3.23	0.01	0.00	13.54	1.15	0.00	3.23	0.01	0.00
13.55	1.19	0.00	3.23	0.01	0.00	13.56	1.17	0.00	3.22	0.01	0.00
13.57	1.23	0.00	3.21	0.01	0.00	13.58	1.25	0.00	3.21	0.01	0.00
13.59	1.25	0.00	3.21	0.01	0.00	13.60	1.21	0.00	3.20	0.01	0.00
13.61	1.21	0.00	3.19	0.01	0.00	13.62	1.22	0.00	3.19	0.01	0.00
13.63	1.25	0.00	3.19	0.01	0.00	13.64	1.31	0.00	3.18	0.01	0.00
13.65	1.31	0.00	3.17	0.01	0.00	13.66	1.36	0.00	3.17	0.01	0.00
13.67	1.31	0.00	3.17	0.01	0.00	13.68	1.27	0.00	3.16	0.01	0.00
13.69	1.24	0.00	3.15	0.01	0.00	13.70	1.24	0.00	3.15	0.01	0.00
13.71	1.25	0.00	3.15	0.01	0.00	13.72	1.25	0.00	3.14	0.01	0.00
13.73	1.26	0.00	3.13	0.01	0.00	13.74	1.28	0.00	3.13	0.01	0.00
13.75	1.38	0.00	3.13	0.01	0.00	13.76	1.37	0.00	3.12	0.01	0.00
13.77	1.49	0.00	3.12	0.01	0.00	13.78	1.51	0.00	3.11	0.01	0.00
13.79	1.47	0.00	3.10	0.01	0.00	13.80	1.44	0.00	3.10	0.01	0.00
13.81	1.41	0.00	3.10	0.01	0.00	13.82	1.38	0.00	3.09	0.01	0.00
13.83	1.32	0.00	3.08	0.01	0.00	13.84	1.33	0.00	3.08	0.01	0.00
13.85	1.41	0.00	3.08	0.01	0.00	13.86	1.40	0.00	3.07	0.01	0.00
13.87	1.39	0.00	3.06	0.01	0.00	13.88	1.45	0.00	3.06	0.01	0.00
13.89	1.50	0.00	3.06	0.01	0.00	13.90	1.50	0.00	3.05	0.01	0.00
13.91	1.51	0.00	3.04	0.01	0.00	13.92	1.47	0.00	3.04	0.01	0.00
13.93	1.42	0.00	3.04	0.01	0.00	13.94	1.43	0.00	3.03	0.01	0.00
13.95	1.40	0.00	3.02	0.01	0.00	13.96	1.37	0.00	3.02	0.01	0.00
13.97	1.37	0.00	3.02	0.01	0.00	13.98	1.38	0.00	3.01	0.01	0.00
13.99	1.33	0.00	3.00	0.01	0.00	14.00	1.34	0.00	3.00	0.01	0.00
14.01	1.34	0.00	3.00	0.01	0.00	14.02	1.39	0.00	2.99	0.01	0.00
14.03	1.46	0.00	2.98	0.01	0.00	14.04	1.25	0.00	2.98	0.01	0.00
14.05	1.26	0.00	2.98	0.01	0.00	14.06	1.28	0.00	2.97	0.01	0.00
14.07	1.31	0.00	2.96	0.01	0.00	14.08	1.31	0.00	2.96	0.01	0.00
14.09	1.31	0.00	2.96	0.01	0.00	14.10	1.33	0.00	2.95	0.01	0.00
14.11	1.31	0.00	2.94	0.01	0.00	14.12	1.30	0.00	2.94	0.01	0.00
14.13	1.30	0.00	2.94	0.01	0.00	14.14	1.30	0.00	2.93	0.01	0.00
14.15	1.31	0.00	2.92	0.01	0.00	14.16	1.32	0.00	2.92	0.01	0.00
14.17	1.30	0.00	2.92	0.01	0.00	14.18	1.30	0.00	2.91	0.01	0.00
14.19	1.32	0.00	2.90	0.01	0.00	14.20	1.33	0.00	2.90	0.01	0.00
14.21	1.32	0.00	2.90	0.01	0.00	14.22	1.35	0.00	2.89	0.01	0.00
14.23	1.35	0.00	2.88	0.01	0.00	14.24	1.33	0.00	2.88	0.01	0.00
14.25	1.33	0.00	2.88	0.01	0.00	14.26	1.33	0.00	2.87	0.01	0.00
14.27	1.33	0.00	2.87	0.01	0.00	14.28	1.32	0.00	2.86	0.01	0.00
14.29	1.31	0.00	2.85	0.01	0.00	14.30	1.31	0.00	2.85	0.01	0.00
14.31	1.30	0.00	2.85	0.01	0.00	14.32	1.30	0.00	2.84	0.01	0.00
14.33	1.29	0.00	2.83	0.01	0.00	14.34	1.28	0.00	2.83	0.01	0.00
14.35	1.26	0.00	2.83	0.01	0.00	14.36	1.25	0.00	2.82	0.01	0.00
14.37	1.25	0.00	2.81	0.01	0.00	14.38	1.23	0.00	2.81	0.01	0.00
14.39	1.25	0.00	2.81	0.01	0.00	14.40	1.25	0.00	2.80	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
14.41	1.23	0.00	2.79	0.01	0.00	14.42	1.28	0.00	2.79	0.01	0.00
14.43	1.31	0.00	2.79	0.01	0.00	14.44	1.29	0.00	2.78	0.01	0.00
14.45	1.33	0.00	2.77	0.01	0.00	14.46	1.39	0.00	2.77	0.01	0.00
14.47	1.41	0.00	2.77	0.01	0.00	14.48	1.44	0.00	2.76	0.01	0.00
14.49	1.51	0.00	2.75	0.01	0.00	14.50	1.64	0.00	2.75	0.01	0.00
14.51	1.53	0.00	2.75	0.01	0.00	14.52	1.56	0.00	2.74	0.01	0.00
14.53	1.59	0.00	2.73	0.01	0.00	14.54	1.59	0.00	2.73	0.01	0.00
14.55	1.58	0.00	2.73	0.01	0.00	14.56	1.51	0.00	2.72	0.01	0.00
14.57	1.51	0.00	2.71	0.01	0.00	14.58	1.50	0.00	2.71	0.01	0.00
14.59	1.47	0.00	2.71	0.01	0.00	14.60	1.46	0.00	2.70	0.01	0.00
14.61	1.44	0.00	2.69	0.01	0.00	14.62	1.44	0.00	2.69	0.01	0.00
14.63	1.44	0.00	2.69	0.01	0.00	14.64	1.43	0.00	2.68	0.01	0.00
14.65	1.41	0.00	2.67	0.01	0.00	14.66	1.37	0.00	2.67	0.01	0.00
14.67	1.36	0.00	2.67	0.01	0.00	14.68	1.35	0.00	2.66	0.01	0.00
14.69	1.34	0.00	2.65	0.01	0.00	14.70	1.33	0.00	2.65	0.01	0.00
14.71	1.30	0.00	2.65	0.01	0.00	14.72	1.29	0.00	2.64	0.01	0.00
14.73	1.29	0.00	2.63	0.01	0.00	14.74	1.28	0.00	2.63	0.01	0.00
14.75	1.26	0.00	2.63	0.01	0.00	14.76	1.25	0.00	2.62	0.01	0.00
14.77	1.25	0.00	2.62	0.01	0.00	14.78	1.25	0.00	2.61	0.01	0.00
14.79	1.23	0.00	2.60	0.01	0.00	14.80	1.22	0.00	2.60	0.01	0.00
14.81	1.21	0.00	2.60	0.01	0.00	14.82	1.21	0.00	2.59	0.01	0.00
14.83	1.19	0.00	2.58	0.01	0.00	14.84	1.19	0.00	2.58	0.01	0.00
14.85	1.18	0.00	2.58	0.01	0.00	14.86	1.17	0.00	2.57	0.01	0.00
14.87	1.16	0.00	2.56	0.01	0.00	14.88	1.16	0.00	2.56	0.01	0.00
14.89	1.15	0.00	2.56	0.01	0.00	14.90	1.16	0.00	2.55	0.01	0.00
14.91	1.16	0.00	2.54	0.01	0.00	14.92	1.16	0.00	2.54	0.01	0.00
14.93	1.15	0.00	2.54	0.01	0.00	14.94	1.15	0.00	2.53	0.01	0.00
14.95	1.18	0.00	2.52	0.01	0.00	14.96	1.15	0.00	2.52	0.01	0.00
14.97	1.11	0.00	2.52	0.01	0.00	14.98	1.12	0.00	2.51	0.01	0.00
14.99	1.09	0.00	2.50	0.01	0.00	15.00	1.07	0.00	2.50	0.01	0.00
15.01	1.07	0.00	2.50	0.01	0.00	15.02	1.00	0.00	2.49	0.01	0.00
15.03	0.95	0.05	2.48	0.01	0.00	15.04	1.00	0.00	2.48	0.01	0.00
15.05	0.99	0.01	2.48	0.01	0.00	15.06	0.98	0.02	2.47	0.01	0.00
15.07	1.01	0.00	2.46	0.01	0.00	15.08	1.03	0.00	2.46	0.01	0.00
15.09	1.08	0.00	2.46	0.01	0.00	15.10	1.15	0.00	2.45	0.01	0.00
15.11	1.20	0.00	2.44	0.01	0.00	15.12	1.27	0.00	2.44	0.01	0.00
15.13	1.35	0.00	2.44	0.01	0.00	15.14	1.40	0.00	2.43	0.01	0.00
15.15	1.43	0.00	2.42	0.01	0.00	15.16	1.39	0.00	2.42	0.01	0.00
15.17	1.42	0.00	2.42	0.01	0.00	15.18	1.43	0.00	2.41	0.01	0.00
15.19	1.43	0.00	2.40	0.01	0.00	15.20	1.44	0.00	2.40	0.01	0.00
15.21	1.43	0.00	2.40	0.01	0.00	15.22	1.44	0.00	2.39	0.01	0.00
15.23	1.45	0.00	2.38	0.01	0.00	15.24	1.44	0.00	2.38	0.01	0.00
15.25	1.43	0.00	2.38	0.01	0.00	15.26	1.41	0.00	2.37	0.01	0.00
15.27	1.38	0.00	2.37	0.01	0.00	15.28	1.37	0.00	2.36	0.01	0.00
15.29	1.35	0.00	2.35	0.01	0.00	15.30	1.34	0.00	2.35	0.01	0.00
15.31	1.32	0.00	2.35	0.01	0.00	15.32	1.32	0.00	2.34	0.01	0.00
15.33	1.31	0.00	2.33	0.01	0.00	15.34	1.31	0.00	2.33	0.01	0.00
15.35	1.30	0.00	2.33	0.01	0.00	15.36	1.28	0.00	2.32	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
15.37	1.28	0.00	2.31	0.01	0.00	15.38	1.27	0.00	2.31	0.01	0.00
15.39	1.24	0.00	2.31	0.01	0.00	15.40	1.24	0.00	2.30	0.01	0.00
15.41	1.22	0.00	2.29	0.01	0.00	15.42	1.15	0.00	2.29	0.01	0.00
15.43	1.14	0.00	2.29	0.01	0.00	15.44	1.14	0.00	2.28	0.01	0.00
15.45	1.13	0.00	2.27	0.01	0.00	15.46	1.12	0.00	2.27	0.01	0.00
15.47	1.12	0.00	2.27	0.01	0.00	15.48	1.12	0.00	2.26	0.01	0.00
15.49	1.12	0.00	2.25	0.01	0.00	15.50	1.16	0.00	2.25	0.01	0.00
15.51	1.16	0.00	2.25	0.01	0.00	15.52	1.14	0.00	2.24	0.01	0.00
15.53	1.18	0.00	2.23	0.01	0.00	15.54	1.18	0.00	2.23	0.01	0.00
15.55	1.18	0.00	2.23	0.01	0.00	15.56	1.17	0.00	2.22	0.01	0.00
15.57	1.17	0.00	2.21	0.01	0.00	15.58	1.17	0.00	2.21	0.01	0.00
15.59	1.18	0.00	2.21	0.01	0.00	15.60	1.17	0.00	2.20	0.01	0.00
15.61	1.17	0.00	2.19	0.01	0.00	15.62	1.17	0.00	2.19	0.01	0.00
15.63	1.18	0.00	2.19	0.01	0.00	15.64	1.19	0.00	2.18	0.01	0.00
15.65	1.20	0.00	2.17	0.01	0.00	15.66	1.21	0.00	2.17	0.01	0.00
15.67	1.21	0.00	2.17	0.01	0.00	15.68	1.24	0.00	2.16	0.01	0.00
15.69	1.23	0.00	2.15	0.01	0.00	15.70	1.22	0.00	2.15	0.01	0.00
15.71	1.24	0.00	2.15	0.01	0.00	15.72	1.23	0.00	2.14	0.01	0.00
15.73	1.23	0.00	2.13	0.01	0.00	15.74	1.21	0.00	2.13	0.01	0.00
15.75	1.19	0.00	2.13	0.01	0.00	15.76	1.22	0.00	2.12	0.01	0.00
15.77	1.21	0.00	2.12	0.01	0.00	15.78	1.22	0.00	2.11	0.01	0.00
15.79	1.26	0.00	2.10	0.01	0.00	15.80	1.28	0.00	2.10	0.01	0.00
15.81	1.34	0.00	2.10	0.01	0.00	15.82	1.41	0.00	2.09	0.01	0.00
15.83	1.38	0.00	2.08	0.01	0.00	15.84	1.41	0.00	2.08	0.01	0.00
15.85	1.43	0.00	2.08	0.01	0.00	15.86	1.43	0.00	2.07	0.01	0.00
15.87	1.43	0.00	2.06	0.01	0.00	15.88	1.45	0.00	2.06	0.01	0.00
15.89	1.45	0.00	2.06	0.01	0.00	15.90	1.47	0.00	2.05	0.01	0.00
15.91	1.56	0.00	2.04	0.01	0.00	15.92	1.55	0.00	2.04	0.01	0.00
15.93	1.51	0.00	2.04	0.01	0.00	15.94	1.51	0.00	2.03	0.01	0.00
15.95	1.50	0.00	2.02	0.01	0.00	15.96	1.45	0.00	2.02	0.01	0.00
15.97	1.45	0.00	2.02	0.01	0.00	15.98	1.46	0.00	2.01	0.01	0.00
15.99	1.45	0.00	2.00	0.01	0.00	16.00	1.45	0.00	2.00	0.01	0.00
16.01	1.47	0.00	2.00	0.01	0.00	16.02	1.40	0.00	1.99	0.01	0.00
16.03	1.33	0.00	1.99	0.01	0.00	16.04	1.36	0.00	1.98	0.01	0.00
16.05	1.32	0.00	1.98	0.01	0.00	16.06	1.27	0.00	1.97	0.01	0.00
16.07	1.30	0.00	1.97	0.01	0.00	16.08	1.31	0.00	1.96	0.01	0.00
16.09	1.33	0.00	1.96	0.01	0.00	16.10	1.34	0.00	1.95	0.01	0.00
16.11	1.37	0.00	1.95	0.01	0.00	16.12	1.41	0.00	1.94	0.01	0.00
16.13	1.44	0.00	1.94	0.01	0.00	16.14	1.45	0.00	1.93	0.01	0.00
16.15	1.46	0.00	1.93	0.01	0.00	16.16	1.47	0.00	1.92	0.01	0.00
16.17	1.51	0.00	1.92	0.01	0.00	16.18	1.46	0.00	1.91	0.01	0.00
16.19	1.50	0.00	1.91	0.01	0.00	16.20	1.49	0.00	1.90	0.01	0.00
16.21	1.47	0.00	1.90	0.01	0.00	16.22	1.49	0.00	1.89	0.01	0.00
16.23	1.48	0.00	1.89	0.01	0.00	16.24	1.48	0.00	1.88	0.01	0.00
16.25	1.50	0.00	1.88	0.01	0.00	16.26	1.53	0.00	1.87	0.01	0.00
16.27	1.51	0.00	1.86	0.01	0.00	16.28	1.53	0.00	1.86	0.01	0.00
16.29	1.56	0.00	1.85	0.01	0.00	16.30	1.56	0.00	1.85	0.01	0.00
16.31	1.60	0.00	1.84	0.01	0.00	16.32	1.64	0.00	1.84	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
16.33	1.65	0.00	1.83	0.01	0.00	16.34	1.62	0.00	1.83	0.01	0.00
16.35	1.61	0.00	1.82	0.01	0.00	16.36	1.62	0.00	1.82	0.01	0.00
16.37	1.62	0.00	1.81	0.01	0.00	16.38	1.61	0.00	1.81	0.01	0.00
16.39	1.61	0.00	1.80	0.01	0.00	16.40	1.60	0.00	1.80	0.01	0.00
16.41	1.57	0.00	1.79	0.01	0.00	16.42	1.54	0.00	1.79	0.01	0.00
16.43	1.57	0.00	1.78	0.01	0.00	16.44	1.53	0.00	1.78	0.01	0.00
16.45	1.50	0.00	1.77	0.01	0.00	16.46	1.49	0.00	1.77	0.01	0.00
16.47	1.46	0.00	1.76	0.01	0.00	16.48	1.44	0.00	1.76	0.01	0.00
16.49	1.45	0.00	1.75	0.01	0.00	16.50	1.46	0.00	1.75	0.01	0.00
16.51	1.47	0.00	1.75	0.01	0.00	16.52	1.47	0.00	1.74	0.01	0.00
16.53	1.48	0.00	1.74	0.01	0.00	16.54	1.52	0.00	1.73	0.01	0.00
16.55	1.50	0.00	1.73	0.01	0.00	16.56	1.55	0.00	1.72	0.01	0.00
16.57	1.57	0.00	1.72	0.01	0.00	16.58	1.57	0.00	1.71	0.01	0.00
16.59	1.59	0.00	1.71	0.01	0.00	16.60	1.59	0.00	1.70	0.01	0.00
16.61	1.59	0.00	1.70	0.01	0.00	16.62	1.58	0.00	1.69	0.01	0.00
16.63	1.58	0.00	1.69	0.01	0.00	16.64	1.56	0.00	1.68	0.01	0.00
16.65	1.55	0.00	1.68	0.01	0.00	16.66	1.56	0.00	1.67	0.01	0.00
16.67	1.50	0.00	1.67	0.01	0.00	16.68	1.49	0.00	1.66	0.01	0.00
16.69	1.44	0.00	1.66	0.01	0.00	16.70	1.43	0.00	1.65	0.01	0.00
16.71	1.38	0.00	1.65	0.01	0.00	16.72	1.35	0.00	1.64	0.01	0.00
16.73	1.32	0.00	1.64	0.01	0.00	16.74	1.25	0.00	1.63	0.01	0.00
16.75	1.30	0.00	1.63	0.01	0.00	16.76	1.28	0.00	1.62	0.01	0.00
16.77	1.29	0.00	1.61	0.01	0.00	16.78	1.29	0.00	1.61	0.01	0.00
16.79	1.31	0.00	1.60	0.01	0.00	16.80	1.35	0.00	1.60	0.01	0.00
16.81	1.39	0.00	1.59	0.01	0.00	16.82	1.42	0.00	1.59	0.01	0.00
16.83	1.43	0.00	1.58	0.01	0.00	16.84	1.45	0.00	1.58	0.01	0.00
16.85	1.47	0.00	1.57	0.01	0.00	16.86	1.52	0.00	1.57	0.01	0.00
16.87	1.49	0.00	1.56	0.01	0.00	16.88	1.54	0.00	1.56	0.01	0.00
16.89	1.56	0.00	1.55	0.01	0.00	16.90	1.55	0.00	1.55	0.01	0.00
16.91	1.58	0.00	1.54	0.01	0.00	16.92	1.62	0.00	1.54	0.01	0.00
16.93	1.67	0.00	1.53	0.01	0.00	16.94	1.73	0.00	1.53	0.01	0.00
16.95	1.70	0.00	1.52	0.01	0.00	16.96	1.76	0.00	1.52	0.01	0.00
16.97	1.80	0.00	1.51	0.01	0.00	16.98	1.73	0.00	1.51	0.01	0.00
16.99	1.73	0.00	1.50	0.01	0.00	17.00	1.70	0.00	1.50	0.01	0.00
17.01	1.65	0.00	1.50	0.01	0.00	17.02	1.69	0.00	1.49	0.01	0.00
17.03	1.72	0.00	1.49	0.01	0.00	17.04	1.43	0.00	1.48	0.01	0.00
17.05	1.41	0.00	1.48	0.01	0.00	17.06	1.40	0.00	1.47	0.01	0.00
17.07	1.38	0.00	1.47	0.01	0.00	17.08	1.37	0.00	1.46	0.01	0.00
17.09	1.37	0.00	1.46	0.01	0.00	17.10	1.36	0.00	1.45	0.01	0.00
17.11	1.35	0.00	1.45	0.01	0.00	17.12	1.34	0.00	1.44	0.01	0.00
17.13	1.33	0.00	1.44	0.01	0.00	17.14	1.33	0.00	1.43	0.01	0.00
17.15	1.31	0.00	1.43	0.01	0.00	17.16	1.30	0.00	1.42	0.01	0.00
17.17	1.30	0.00	1.42	0.01	0.00	17.18	1.28	0.00	1.41	0.01	0.00
17.19	1.27	0.00	1.41	0.01	0.00	17.20	1.25	0.00	1.40	0.01	0.00
17.21	1.24	0.00	1.40	0.01	0.00	17.22	1.24	0.00	1.39	0.01	0.00
17.23	1.23	0.00	1.39	0.01	0.00	17.24	1.22	0.00	1.38	0.01	0.00
17.25	1.22	0.00	1.38	0.01	0.00	17.26	1.22	0.00	1.37	0.01	0.00
17.27	1.21	0.00	1.36	0.01	0.00	17.28	1.22	0.00	1.36	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
17.29	1.22	0.00	1.35	0.01	0.00	17.30	1.22	0.00	1.35	0.01	0.00
17.31	1.21	0.00	1.34	0.01	0.00	17.32	1.22	0.00	1.34	0.01	0.00
17.33	1.22	0.00	1.33	0.01	0.00	17.34	1.21	0.00	1.33	0.01	0.00
17.35	1.23	0.00	1.32	0.01	0.00	17.36	1.23	0.00	1.32	0.01	0.00
17.37	1.21	0.00	1.31	0.01	0.00	17.38	1.23	0.00	1.31	0.01	0.00
17.39	1.23	0.00	1.30	0.01	0.00	17.40	1.26	0.00	1.30	0.01	0.00
17.41	1.26	0.00	1.29	0.01	0.00	17.42	1.27	0.00	1.29	0.01	0.00
17.43	1.26	0.00	1.28	0.01	0.00	17.44	1.27	0.00	1.28	0.01	0.00
17.45	1.25	0.00	1.27	0.01	0.00	17.46	1.25	0.00	1.27	0.01	0.00
17.47	1.25	0.00	1.26	0.01	0.00	17.48	1.27	0.00	1.26	0.01	0.00
17.49	1.28	0.00	1.25	0.01	0.00	17.50	1.29	0.00	1.25	0.01	0.00
17.51	1.29	0.00	1.25	0.01	0.00	17.52	1.29	0.00	1.24	0.01	0.00
17.53	1.33	0.00	1.24	0.01	0.00	17.54	1.32	0.00	1.23	0.01	0.00
17.55	1.30	0.00	1.23	0.01	0.00	17.56	1.30	0.00	1.22	0.01	0.00
17.57	1.32	0.00	1.22	0.01	0.00	17.58	1.31	0.00	1.21	0.01	0.00
17.59	1.32	0.00	1.21	0.01	0.00	17.60	1.33	0.00	1.20	0.01	0.00
17.61	1.34	0.00	1.20	0.01	0.00	17.62	1.36	0.00	1.19	0.01	0.00
17.63	1.37	0.00	1.19	0.01	0.00	17.64	1.33	0.00	1.18	0.01	0.00
17.65	1.41	0.00	1.18	0.01	0.00	17.66	1.40	0.00	1.17	0.01	0.00
17.67	1.42	0.00	1.17	0.01	0.00	17.68	1.42	0.00	1.16	0.01	0.00
17.69	1.42	0.00	1.16	0.01	0.00	17.70	1.44	0.00	1.15	0.01	0.00
17.71	1.46	0.00	1.15	0.01	0.00	17.72	1.48	0.00	1.14	0.01	0.00
17.73	1.46	0.00	1.14	0.01	0.00	17.74	1.48	0.00	1.13	0.01	0.00
17.75	1.49	0.00	1.13	0.01	0.00	17.76	1.47	0.00	1.12	0.01	0.00
17.77	1.49	0.00	1.11	0.01	0.00	17.78	1.48	0.00	1.11	0.01	0.00
17.79	1.47	0.00	1.10	0.01	0.00	17.80	1.48	0.00	1.10	0.01	0.00
17.81	1.45	0.00	1.09	0.01	0.00	17.82	1.45	0.00	1.09	0.01	0.00
17.83	1.44	0.00	1.08	0.01	0.00	17.84	1.43	0.00	1.08	0.01	0.00
17.85	1.41	0.00	1.07	0.01	0.00	17.86	1.40	0.00	1.07	0.01	0.00
17.87	1.40	0.00	1.06	0.01	0.00	17.88	1.39	0.00	1.06	0.01	0.00
17.89	1.38	0.00	1.05	0.01	0.00	17.90	1.38	0.00	1.05	0.01	0.00
17.91	1.37	0.00	1.04	0.01	0.00	17.92	1.36	0.00	1.04	0.01	0.00
17.93	1.37	0.00	1.03	0.01	0.00	17.94	1.37	0.00	1.03	0.01	0.00
17.95	1.36	0.00	1.02	0.01	0.00	17.96	1.35	0.00	1.02	0.01	0.00
17.97	1.33	0.00	1.01	0.01	0.00	17.98	1.37	0.00	1.01	0.01	0.00
17.99	1.33	0.00	1.00	0.01	0.00	18.00	1.29	0.00	1.00	0.01	0.00
18.01	1.32	0.00	0.99	0.01	0.00	18.02	1.22	0.00	0.99	0.01	0.00
18.03	1.15	0.00	0.98	0.01	0.00	18.04	1.15	0.00	0.98	0.01	0.00
18.05	1.13	0.00	0.97	0.01	0.00	18.06	1.12	0.00	0.97	0.01	0.00
18.07	1.15	0.00	0.96	0.01	0.00	18.08	1.18	0.00	0.96	0.01	0.00
18.09	1.22	0.00	0.95	0.01	0.00	18.10	1.26	0.00	0.95	0.01	0.00
18.11	1.30	0.00	0.94	0.01	0.00	18.12	1.36	0.00	0.94	0.01	0.00
18.13	1.41	0.00	0.94	0.01	0.00	18.14	1.39	0.00	0.93	0.01	0.00
18.15	1.47	0.00	0.93	0.01	0.00	18.16	1.44	0.00	0.92	0.01	0.00
18.17	1.48	0.00	0.91	0.01	0.00	18.18	1.46	0.00	0.91	0.01	0.00
18.19	1.47	0.00	0.90	0.01	0.00	18.20	1.49	0.00	0.90	0.01	0.00
18.21	1.50	0.00	0.90	0.01	0.00	18.22	1.50	0.00	0.89	0.01	0.00
18.23	1.50	0.00	0.89	0.01	0.00	18.24	1.54	0.00	0.88	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
18.25	1.54	0.00	0.88	0.01	0.00	18.26	1.53	0.00	0.87	0.01	0.00
18.27	1.49	0.00	0.86	0.01	0.00	18.28	1.53	0.00	0.86	0.01	0.00
18.29	1.50	0.00	0.85	0.01	0.00	18.30	1.51	0.00	0.85	0.01	0.00
18.31	1.52	0.00	0.85	0.01	0.00	18.32	1.50	0.00	0.84	0.01	0.00
18.33	1.51	0.00	0.84	0.01	0.00	18.34	1.51	0.00	0.83	0.01	0.00
18.35	1.52	0.00	0.82	0.01	0.00	18.36	1.52	0.00	0.82	0.01	0.00
18.37	1.52	0.00	0.81	0.01	0.00	18.38	1.52	0.00	0.81	0.01	0.00
18.39	1.52	0.00	0.81	0.01	0.00	18.40	1.53	0.00	0.80	0.01	0.00
18.41	1.53	0.00	0.80	0.01	0.00	18.42	1.52	0.00	0.79	0.01	0.00
18.43	1.51	0.00	0.79	0.01	0.00	18.44	1.54	0.00	0.78	0.01	0.00
18.45	1.52	0.00	0.78	0.01	0.00	18.46	1.50	0.00	0.77	0.01	0.00
18.47	1.52	0.00	0.77	0.01	0.00	18.48	1.45	0.00	0.76	0.01	0.00
18.49	1.47	0.00	0.76	0.01	0.00	18.50	1.45	0.00	0.75	0.01	0.00
18.51	1.42	0.00	0.74	0.01	0.00	18.52	1.44	0.00	0.74	0.01	0.00
18.53	1.43	0.00	0.73	0.01	0.00	18.54	1.44	0.00	0.73	0.01	0.00
18.55	1.45	0.00	0.72	0.01	0.00	18.56	1.47	0.00	0.72	0.01	0.00
18.57	1.51	0.00	0.71	0.01	0.00	18.58	1.56	0.00	0.71	0.01	0.00
18.59	1.59	0.00	0.70	0.01	0.00	18.60	1.58	0.00	0.70	0.01	0.00
18.61	1.62	0.00	0.69	0.01	0.00	18.62	1.68	0.00	0.69	0.01	0.00
18.63	1.72	0.00	0.69	0.01	0.00	18.64	1.71	0.00	0.68	0.01	0.00
18.65	1.73	0.00	0.68	0.01	0.00	18.66	1.74	0.00	0.67	0.01	0.00
18.67	1.75	0.00	0.66	0.01	0.00	18.68	1.73	0.00	0.66	0.01	0.00
18.69	1.76	0.00	0.65	0.01	0.00	18.70	1.73	0.00	0.65	0.01	0.00
18.71	1.68	0.00	0.65	0.01	0.00	18.72	1.74	0.00	0.64	0.01	0.00
18.73	1.67	0.00	0.64	0.01	0.00	18.74	1.55	0.00	0.63	0.01	0.00
18.75	1.49	0.00	0.63	0.01	0.00	18.76	1.49	0.00	0.62	0.01	0.00
18.77	1.36	0.00	0.61	0.01	0.00	18.78	1.41	0.00	0.61	0.01	0.00
18.79	1.45	0.00	0.60	0.01	0.00	18.80	1.43	0.00	0.60	0.01	0.00
18.81	1.42	0.00	0.60	0.01	0.00	18.82	1.44	0.00	0.59	0.01	0.00
18.83	1.47	0.00	0.59	0.01	0.00	18.84	1.52	0.00	0.58	0.01	0.00
18.85	1.65	0.00	0.57	0.01	0.00	18.86	1.77	0.00	0.57	0.01	0.00
18.87	1.79	0.00	0.56	0.01	0.00	18.88	1.90	0.00	0.56	0.01	0.00
18.89	1.99	0.00	0.56	0.01	0.00	18.90	2.00	0.00	0.55	0.01	0.00
18.91	2.00	0.00	0.55	0.01	0.00	18.92	2.00	0.00	0.54	0.01	0.00
18.93	2.00	0.00	0.54	0.01	0.00	18.94	2.00	0.00	0.53	0.01	0.00
18.95	2.00	0.00	0.53	0.01	0.00	18.96	2.00	0.00	0.52	0.01	0.00
18.97	1.95	0.00	0.52	0.01	0.00	18.98	1.91	0.00	0.51	0.01	0.00
18.99	1.86	0.00	0.51	0.01	0.00	19.00	1.85	0.00	0.50	0.01	0.00
19.01	1.86	0.00	0.49	0.01	0.00	19.02	1.74	0.00	0.49	0.01	0.00
19.03	1.66	0.00	0.48	0.01	0.00	19.04	1.61	0.00	0.48	0.01	0.00
19.05	1.55	0.00	0.47	0.01	0.00	19.06	1.51	0.00	0.47	0.01	0.00
19.07	1.55	0.00	0.47	0.01	0.00	19.08	1.65	0.00	0.46	0.01	0.00
19.09	1.66	0.00	0.46	0.01	0.00	19.10	1.66	0.00	0.45	0.01	0.00
19.11	1.72	0.00	0.45	0.01	0.00	19.12	1.77	0.00	0.44	0.01	0.00
19.13	1.79	0.00	0.43	0.01	0.00	19.14	1.78	0.00	0.43	0.01	0.00
19.15	1.80	0.00	0.43	0.01	0.00	19.16	1.82	0.00	0.42	0.01	0.00
19.17	1.83	0.00	0.41	0.01	0.00	19.18	1.84	0.00	0.41	0.01	0.00
19.19	1.85	0.00	0.40	0.01	0.00	19.20	1.84	0.00	0.40	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
19.21	1.83	0.00	0.40	0.01	0.00	19.22	1.86	0.00	0.39	0.01	0.00
19.23	1.87	0.00	0.39	0.01	0.00	19.24	1.88	0.00	0.38	0.01	0.00
19.25	1.85	0.00	0.38	0.01	0.00	19.26	1.86	0.00	0.37	0.01	0.00
19.27	1.83	0.00	0.36	0.01	0.00	19.28	1.86	0.00	0.36	0.01	0.00
19.29	1.84	0.00	0.35	0.01	0.00	19.30	1.80	0.00	0.35	0.01	0.00
19.31	1.81	0.00	0.35	0.01	0.00	19.32	1.81	0.00	0.34	0.01	0.00
19.33	1.80	0.00	0.34	0.01	0.00	19.34	1.78	0.00	0.33	0.01	0.00
19.35	1.78	0.00	0.32	0.01	0.00	19.36	1.77	0.00	0.32	0.01	0.00
19.37	1.77	0.00	0.32	0.01	0.00	19.38	1.81	0.00	0.31	0.01	0.00
19.39	1.71	0.00	0.30	0.01	0.00	19.40	1.73	0.00	0.30	0.01	0.00
19.41	1.66	0.00	0.29	0.01	0.00	19.42	1.67	0.00	0.29	0.01	0.00
19.43	1.53	0.00	0.28	0.01	0.00	19.44	1.43	0.00	0.28	0.01	0.00
19.45	1.47	0.00	0.28	0.01	0.00	19.46	1.44	0.00	0.27	0.01	0.00
19.47	1.44	0.00	0.27	0.01	0.00	19.48	1.42	0.00	0.26	0.01	0.00
19.49	1.45	0.00	0.26	0.01	0.00	19.50	1.46	0.00	0.25	0.01	0.00
19.51	1.47	0.00	0.24	0.01	0.00	19.52	1.49	0.00	0.24	0.01	0.00
19.53	1.52	0.00	0.23	0.01	0.00	19.54	1.56	0.00	0.23	0.01	0.00
19.55	1.61	0.00	0.23	0.01	0.00	19.56	1.68	0.00	0.22	0.01	0.00
19.57	1.71	0.00	0.21	0.01	0.00	19.58	1.79	0.00	0.21	0.01	0.00
19.59	1.92	0.00	0.20	0.01	0.00	19.60	2.00	0.00	0.20	0.01	0.00
19.61	1.99	0.00	0.20	0.01	0.00	19.62	2.00	0.00	0.19	0.01	0.00
19.63	2.00	0.00	0.18	0.01	0.00	19.64	2.00	0.00	0.18	0.01	0.00
19.65	2.00	0.00	0.18	0.01	0.00	19.66	2.00	0.00	0.17	0.01	0.00
19.67	1.99	0.00	0.16	0.01	0.00	19.68	1.88	0.00	0.16	0.01	0.00
19.69	1.92	0.00	0.15	0.01	0.00	19.70	1.81	0.00	0.15	0.01	0.00
19.71	1.74	0.00	0.14	0.01	0.00	19.72	1.72	0.00	0.14	0.01	0.00
19.73	1.71	0.00	0.14	0.01	0.00	19.74	1.72	0.00	0.13	0.01	0.00
19.75	1.69	0.00	0.13	0.01	0.00	19.76	1.69	0.00	0.12	0.01	0.00
19.77	1.71	0.00	0.12	0.01	0.00	19.78	1.73	0.00	0.11	0.01	0.00
19.79	1.74	0.00	0.10	0.01	0.00	19.80	1.78	0.00	0.10	0.01	0.00
19.81	1.80	0.00	0.10	0.01	0.00	19.82	1.86	0.00	0.09	0.01	0.00
19.83	2.00	0.00	0.09	0.01	0.00	19.84	2.00	0.00	0.08	0.01	0.00
19.85	2.00	0.00	0.07	0.01	0.00	19.86	2.00	0.00	0.07	0.01	0.00
19.87	1.94	0.00	0.06	0.01	0.00	19.88	1.92	0.00	0.06	0.01	0.00
19.89	1.93	0.00	0.05	0.01	0.00	19.90	1.86	0.00	0.05	0.01	0.00
19.91	1.90	0.00	0.04	0.01	0.00	19.92	1.96	0.00	0.04	0.01	0.00
19.93	1.98	0.00	0.04	0.01	0.00	19.94	2.00	0.00	0.03	0.01	0.00
19.95	2.00	0.00	0.03	0.01	0.00	19.96	2.00	0.00	0.02	0.01	0.00
19.97	2.00	0.00	0.02	0.01	0.00	19.98	2.00	0.00	0.01	0.01	0.00
19.99	2.00	0.00	0.01	0.01	0.00	20.00	0.00	1.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data :: (continued)											
Depth (m)	FS	F _L	w _z	d _z	LPI	Depth (m)	FS	F _L	w _z	d _z	LPI
Overall liquefaction potential: 1.21											

LPI = 0.00 - Liquefaction risk very low
LPI between 0.00 and 5.00 - Liquefaction risk low
LPI between 5.00 and 15.00 - Liquefaction risk high
LPI > 15.00 - Liquefaction risk very high

Abbreviations
FS: Calculated factor of safety for test point
F_L: 1 - FS
w_z: Function value of the extend of soil liquefaction according to depth
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point