

Award 06HQGR0015

**PROBABILISTIC LIQUEFACTION POTENTIAL AND LIQUEFACTION-
INDUCED GROUND
FAILURE MAPS FOR THE URBAN WASATCH FRONT:**

**PHASE III
FY2006**

by

Steven F. Bartlett, Ph.D., P.E.
Associate Professor

Department of Civil and Environmental Engineering
University of Utah
122 S. Central Campus Dr.
Salt Lake City, Utah 84112
801-587-7726 (voice)
801-585-5477 (fax)
bartlett@civil.utah.edu

Griffen Erickson
Graduate Student
Department of Civil and Environmental Engineering
University of Utah
122 S. Central Campus Dr.
Salt Lake City, Utah 84112

Bart Leeflang
Graduate Student
Department of Civil and Environmental Engineering
University of Utah
122 S. Central Campus Dr.
Salt Lake City, Utah 84112

Barry J. Solomon, P.G.
Senior Geologist
Utah Geological Survey
P.O. Box 146100
Salt Lake City, Utah 84114-6100
801-537-3388
barrysolomon@utah.gov

Term of Award 12/01/05 to 11/01/06

Abstract

Probabilistic-based hazard calculations and assessments are important components in managing risk and reducing potential losses from seismic hazards. The development of probabilistic national seismic hazard maps and the implementation of these maps into current building codes allow for the use of probabilistic techniques to assess liquefaction and liquefaction-induced ground failure.

This report summarizes ongoing work by the Utah Liquefaction Advisory Group (ULAG) to update the liquefaction hazard maps along the Wasatch Front. ULAG was formed in 2004 and has the overall goal of producing probabilistic-based liquefaction hazard and ground displacement and settlement maps that can be implemented in planning, hazard assessment and risk reduction. The methods and tasks put forth herein are a consensus of ULAG, which met in March 2005 to prioritize FY 2006 activities. The funded FY 2006 tasks are: Task 1: Development of CPT and SPT correlations, Task 2: Correlation of Subsurface Geologic and Geotechnical ArcGIS™ Database with Surficial Geologic Mapping, Task 3: Mapped mean annual probability of triggering liquefaction for Salt Lake County, Task 4: Mapped probability of triggering liquefaction for a scenario earthquake for Salt Lake County, Task 5: Mapped mean annual probability of lateral spread exceeding displacement thresholds of 0.1, 0.3 and 1.0 meters for northern Salt Lake County, Task 6: Mapped lateral spread horizontal displacement for a scenario event for northern Salt Lake County, Task 7: Synthesis report of seismically induced ground displacement in Salt Lake County, and Task 8: CPT subsurface investigations in downtown Salt Lake City.

In subsequent years, ULAG plans to develop probabilistic and scenario liquefaction and ground failure hazard maps for other urban Wasatch Front counties. The produced maps will be used by city and county planners to identify which areas require site-specific liquefaction evaluations and by risk assessors to quantify the seismic hazard at site or area. Also, the methods developed during this project will be generalized so that they can be applied at other U.S. locales where probabilistic maps are desired. In addition, the Utah subsurface GIS database will be made available to the public for other uses. Periodic stakeholder meetings will also be held by ULAG to obtain end user input and comments regarding map and GIS database development and their implementation.

Contents

Abstract	2
Contents.....	3
List of Figures	4
Acknowledgements	6
1 Introduction	7
2 Project Status	8
3 Development of CPT and SPT Correlations.....	10
4 Correlation of Geotechnical Database with Surficial Geologic Mapping	15
5 Mean Annual Probability of Triggering Liquefaction for Salt Lake County	20
6 Probability of triggering liquefaction for a M7.0 earthquake	30
7 Mapped mean annual probability of lateral spread for northern Salt Lake County	33
8 Mapped lateral spread displacement for M7.0 event for northern Salt Lake County	34
9 Synthesis of seismically induced ground displacement in Salt Lake City	41
10 CPT subsurface investigations in downtown Salt Lake City.....	45
References	57
Bibliography	60
Attachment 1 - Paired CPT and SPT data	61
Appendix A - Liquefaction and Lateral Spread Analyses.....	63
Appendix B - Clean Sand Tip Resistance, Sleeve Friction and Pore Pressure versus Depth	149
Appendix C - CSRE versus CRR, FS Against Liquefaction, (N1)60 and Settlement versus Depth	160
Appendix D - Soil Correlations	173
Appendix E - Liquefaction and Lateral Spread Input Parameters and Cross-Sectional Figures	189
Appendix F – Field Investigation Photographs	193

List of Figures

Figure 1. Lateral spread map for northern Salt Lake County, Utah for M7.0 earthquake (Bartlett et al. 2005)	9
Figure 2 Soil behavior type index chart (after Robertson 1990)	12
Figure 3 Correlation of fines content with soil behavior type index for n equal 0.5	13
Figure 4. Correlation of fines content with soil behavior type index for n equal 0.75 ...	13
Figure 5. Correlation of mean grain size with soil behavior type index for n equal 0.5. 14	14
Figure 6. Correlation of mean grain size with soil behavior type index for n equal 0.75.	14
Figure 7. Surficial geologic map of Salt Lake Valley (modified from Personius and Scott, 1992; Biek et al., 2004; and Biek, 2005). Quartenary faults are shown by heavy lines; symbols for geological units are explained in Table 1.....	17
Figure 8. Surficial geologic map and SPT borehole locations.....	19
Figure 9. Example seismic hazard curve for pga from Bartlett et al. 2005.	21
Figure 10. Liquefaction potential curves (from Seed et al., 2003). “ P_L ” stands for probability of liquefaction, while “CSR” stands for cyclic stress ratio.	22
Figure 11. Plot of average liquefaction return period at borehole locations underlain by a surficial geological map (base map from Personius and Scott , 1992; Biek et al., 2004; and Biek, 2005).....	26
Figure 12. Probabilistic liquefaction hazard map for Salt Lake Valley, Utah.....	27
Figure 13. Liquefaction potential map for Salt Lake Valley, Utah (simplified from Anderson et al. 1986).....	28
Figure 14. Probability of liquefaction for M7.0 event at borehole locations for Salt Lake Valley.....	31
Figure 15. Probability of triggering liquefaction for M7.0 earthquake in Salt Lake Valley.....	32
Figure 16. Estimates of peak ground acceleration (pga) for the northern Salt Lake Valley, Utah for a M7.0 scenario earthquake from Wong et al. (2002).....	38
Figure 17. Lateral spread hazard map for the northern Salt Lake Valley, Utah	39
Figure 18. Cumulative histogram of non-exceedance percentages of DH values for the Qal1 unit.....	40
Figure 19. Cumulative histogram of non-exceedance percentages of DH values for the Qlaly and Qly units on the west side of Salt Lake Valley.	40
Figure 20. Geologic map of downtown Salt Lake City, Utah showing CPT locations and mapped areas of ground displacement (clsp units) (Geological mapping from Personius and Scott (1992); Scott and Shroba (1985)).	44
Figure 21 Stratigraphy of typical CPT sounding along from 400 South Street.....	52
Figure 22. Interpreted cross-section of 400 South Street between 420 West and 225 East with possible fault zones between 130 West and 29 East.....	53
Figure 23. “Gravel Bar” at the Metropolitan Hall of Justice Site (after Bauman, 1965). 54	54
Figure 24. Portion of MJH fence diagram where unit Qac is shown faulted against upper Lake Bonneville sediments (unit Qbg) and lower Lake Bonneville Sediments (unit Qbb) after Osmond et al. (1965).	55

Figure 25. Plots of tip resistance versus depth for CP-9 and CP-10 including geologic stratigraphy. 56

Acknowledgements

This study is part of an ongoing United States Geological Survey (USGS) National Earthquake Hazards Reduction Program (NEHRP) mapping project for Utah (Award 06HQGR0015). The authors thank the USGS for the funding of this research and the Utah Liquefaction Advisory Group for its participation in guiding and reviewing this work. Sincere gratitude also goes to Michael Olsen for developing the ArcGIS™ analysis codes and Stephen Harmsen of the USGS for providing the probabilistic strong ground motion estimates and seismic deaggregations. We thank David Simon of Simon-Bymaster in assisting in the interpretation of the CPT logs and reviewing parts of this report. The Utah Department of Transportation, local governmental agencies and private consulting companies should also be acknowledged for their donation of the borehole data used in this mapping project. Cone Penetration Services for this contract were performed by ConeTech of Salt Lake City, Utah.

1 Introduction

Liquefaction induced ground failure causes considerable damage to the built environment. Types of ground failure include: flow failure, lateral spread, ground oscillation, differential settlement, loss of bearing capacity and ground fissures. Some locales along Utah's Wasatch Front have a considerable liquefaction hazard due the presence of loose, saturated granular soils and the proximity to sources of significant seismic ground shaking such as the Wasatch and West Valley fault zones.

The Utah Liquefaction Advisory Group (ULAG) was formed in 2003 under the auspices of the Utah Geological Survey to oversee the liquefaction mapping effort in Utah. ULAG includes representatives of government, academia, and industry with expertise in liquefaction mapping. The group establishes a consensus on societal needs and technical capabilities, identifies data needs and mapping techniques, and forms a partnership to propose programs to accomplish the goals of the group. The guiding objectives presented in this section were developed ULAG in meetings held in Salt Lake City, Utah during March and April of 2003 and are reviewed and updated on an annual basis.

The program objectives established by ULAG in 2003 and updated annually are:

- Create a liquefaction database of relevant geotechnical factors and develop Geographic Information System (GIS) methods for probabilistic liquefaction hazard assessment using the database, strong motion estimates from the USGS National Seismic Hazard Map Program and appropriate site amplification factors to modify the strong motion estimates for soil effects.
- Develop methods to perform uncertainty analyses and/or quantify the uncertainties associated with the liquefaction-hazard mapping project.
- Correlate the GIS geotechnical database and surficial geological mapping to estimate geotechnical and properties for similar geological units in areas with limited or no subsurface data. These correlations will be used to better understand the liquefaction susceptibility of a given geological unit or facies and improve the quality of the liquefaction assessment in areas that are under sampled. Initial correlations will be developed during the pilot project and will continue in future mapped areas, as the data from additional geologic units and geographic areas are compiled.
- Compile during FY2006-2009 the GIS database for other areas along the Wasatch Front using the pilot-project methods and complete the liquefaction triggering maps for these areas. The preliminary priority of data compilation and mapping is: Salt Lake County, Utah County, Weber-Davis Counties, Cache County and Box Elder County.
- Develop probabilistic methods to map the amount of liquefaction-induced horizontal ground displacement and liquefaction-induced settlement. These methods will use existing correlations that relate thickness of liquefiable layers and other soil factors to the potential for lateral spread displacement and

- settlement. This mapping will be done for the same areas as the probabilistic liquefaction-hazard maps.
- Study documented occurrences of deformed Quaternary soils to: 1) determine if deformation is liquefaction-induced or related to other mechanisms (for example, failure of underlying clay), which will help implement criteria similar to those of California for establishing liquefaction hazard zones based on the presence of historical liquefaction; and 2) determine the age of failed soils to establish the liquefaction hazard posed by latest Pleistocene Lake Bonneville deposits.

2 Project Status

During FY 2004, ULAG was funded to gather subsurface data in northern Salt Lake County and to develop a probabilistic liquefaction-triggering map for that area. In conjunction with this effort, geotechnical and geological data were obtained and entered into a geographic information system (GIS) database by the University of Utah. The types of subsurface data gathered included: 1) standard penetration tests (SPT), 2) cone penetrometer tests (CPT), 3) shear wave velocity (V_s) measurements, 4) soil type, laboratory classification tests and Atterberg limits, 5) grain-size analysis and 6) correlations with geological surficial units. The GIS database for northern Salt Lake County has been completed and can be found at: [www.civil.utah.edu\~bartlett\ulag.html](http://www.civil.utah.edu/~bartlett/ulag.html)

In addition during FY2004, the University of Utah developed ARC GIS code for lateral spread analysis (Bartlett et al. 2005). From the code, a draft lateral spread map for a M7.0 scenario earthquake northern Salt Lake Valley was developed (Figure 1) (Bartlett et al. 2005).

In FY 2005, the University of Utah was solely funded to gather subsurface data in southern Salt Lake County. This task was completed in 2005 and the updated GIS database is found at the ULAG website given above.

The FY2006 tasks included: Task 1: Development of CPT and SPT correlations, Task 2: Correlation of Subsurface Geologic and Geotechnical ArcGIS™ Database with Surficial Geologic Mapping, Task 3: Mapped mean annual probability of triggering liquefaction for Salt Lake County, Task 4: Mapped probability of triggering liquefaction for a scenario earthquake for Salt Lake County, Task 5: Mapped mean annual probability of lateral spread exceeding displacement thresholds of 0.1, 0.3 and 1.0 meters for northern Salt Lake County, Task 6: Mapped lateral spread horizontal displacement for a scenario event for northern Salt Lake County, Task 7: Synthesis report of seismically induced ground displacement in Salt Lake City, and Task 8: CPT subsurface investigations in downtown Salt Lake City. The findings / deliverables for these tasks will be successively discussed in this report.

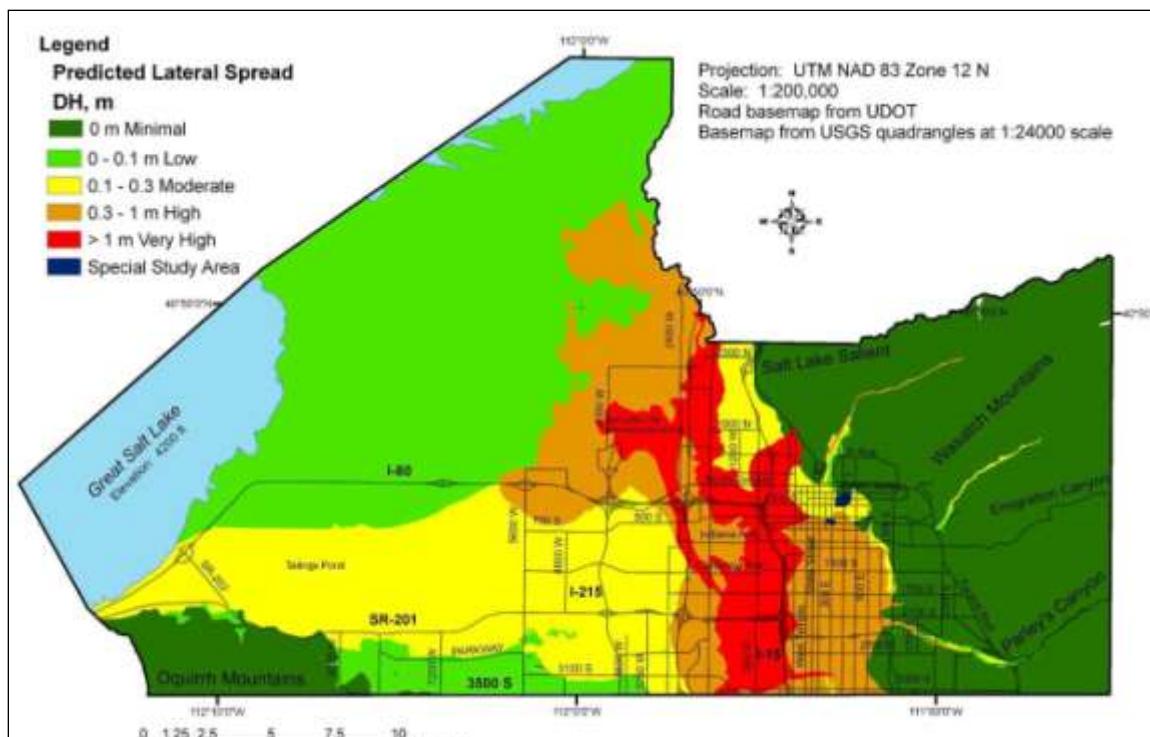


Figure 1. Lateral spread map for northern Salt Lake County, Utah for M7.0 earthquake (Bartlett et al. 2005).

3 Development of CPT and SPT Correlations

If CPT sounding are to be used to perform lateral spread analysis using the Youd et al. 2002 regression model, statistical correlations with SPT (N_1)₆₀ values, fines content and mean grain size are required for this model. These latter types of data are not directly obtained from CPT soundings and must be inferred from the sounding readings. This task explores where empirical correlation can be developed to estimate fines content and mean grain sizes from CPT data using CPT soundings obtained from the Utah Department of Transportation from the I-15 Reconstruction Project in downtown Salt Lake City, Utah between 600 South and 600 North Streets.

The soundings selected for this task were generally located within 3 m of an adjacent SPT borehole. The SPT data included SPT N values, fines content, mean grain-size and soil classification using the Unified Soil Classification System. In order to compare the CPT sounding data with the SPT borehole information, the CPT data (e.g., tip stress and sleeve stress) were averaged over a 0.45-m interval that corresponded to the same sampling interval (by depth) to the adjacent SPT sampling interval. The averaged CPT data and corresponding paired SPT data are tabulated Attachment 1.

Robertson (1990) has introduced the soil behavior type index, I_c , as a convenient way to express the CPT as a soil behavior index (Figure 2). As the soil behaves more granularly, I_c decreases; conversely as the soil behaves more plastically, I_c increases. The equation for calculating I_c is:

$$I_c = [(3.47 - \log Q)^2 + (1.22 + \log F)^2]^n \quad (3-1)$$

where

$$Q = [(q_c - \sigma_{vo})/P_a][(P_a/\sigma_{vo}')^n] \quad (3-2)$$

and

$$F = [f_s/(q_c - \sigma_{vo})] \times 100\% \quad (3-3)$$

where

Q is the normalized penetration resistance (unitless), F is the normalized friction ratio (percent), q_c is the uncorrected CPT tip resistance in kPa, P_a is 100 kPa, σ_{vo} is the total vertical (i.e., overburden) stress in kPa, σ_{vo}' is the effective vertical (i.e., overburden) stress in kPa and f_s is the CPT sleeve resistance in kPa.

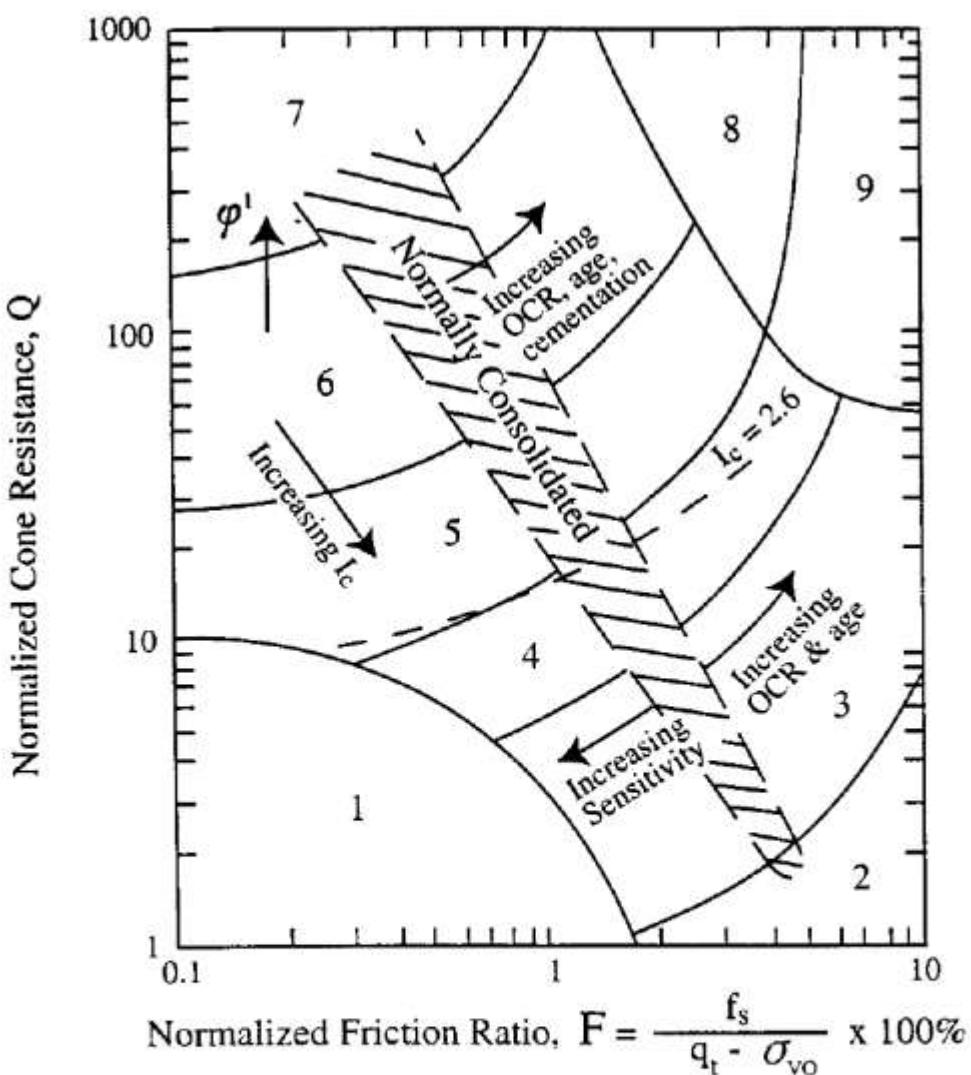
Averaged values of q_c and f_s are tabulated in Attachment 1 in columns 3 and 4, respectively. Average values of F and Q are tabulated in Attachment 1 in columns 9 and 10, respectively.

Robertson and Wride (NCEER, 1997) recommend that for clean sands, an exponent, n , of 0.5 is appropriate and an intermediate value between 0.5 and 1.0 for silty sands and silts for Equations (3-1) and (3-2). An exponent of 0.5 was used for the analyses given in Attachment 1. (However, if an intermediate value between 0.5 and 1.0 is used, it does not appreciably improve the predictive power of I_c in estimating fines content and mean grain size.)

Figure 3 shows the average fines content values plotted against I_c values for the I-15 Reconstruction data set for n equals 0.5. Similarly, Figure 4 shows the average fines content plotted against I_c values for the same data set for n equals 0.75. These figures suggest that averages fines content from the nearby borehole is poorly correlated with I_c .

A similar procedure was followed to see if I_c was correlated with mean grain sized (i.e., D_{50}). Figure 5 shows the mean grain size values plotted against I_c values for the I-15 Reconstruction data set for n equals 0.5. Similarly, Figure 6 shows the mean grain size plotted against I_c values for the same data set for n equals 0.75. These figures suggest that mean grain size from the nearby borehole is poorly correlated with I_c .

Thus, based on these plots, it appears that CPT measurements from the I-15 Reconstruction Project data set are relatively poor predictors of average fines content and mean grain size. However, both the CPT and borehole information used in this analysis may not be of research quality. Potential errors that may exist in the data are: (1) differences in the surface elevation the paired CPT and borehole locations, (2) errors made by laboratory technician in determining the fines content and mean grain size from the borehole samples, (3) errors or assumptions made in calculating the total and effective vertical stresses at the sampling depths. Although the CPT data were not used to make lateral spread estimates, they were used to stratify or place the adjacent borehole information into its corresponding geologic unit, as described by Bartlett et al. (2005).



1. Sensitive, fine grained
2. Organic soils - peats
3. Clays - silty clay to clay
4. Silt mixtures - clayey silt to silty clay
5. Sand mixtures - silty sand to sandy silt

6. Sands - clean sand to silty sand
7. Gravelly sand to dense sand
8. Very stiff sand to clayey sand*
9. Very stiff, fine grained*

*Heavily overconsolidated or cemented

Figure 2 Soil behavior type index chart (after Robertson 1990).

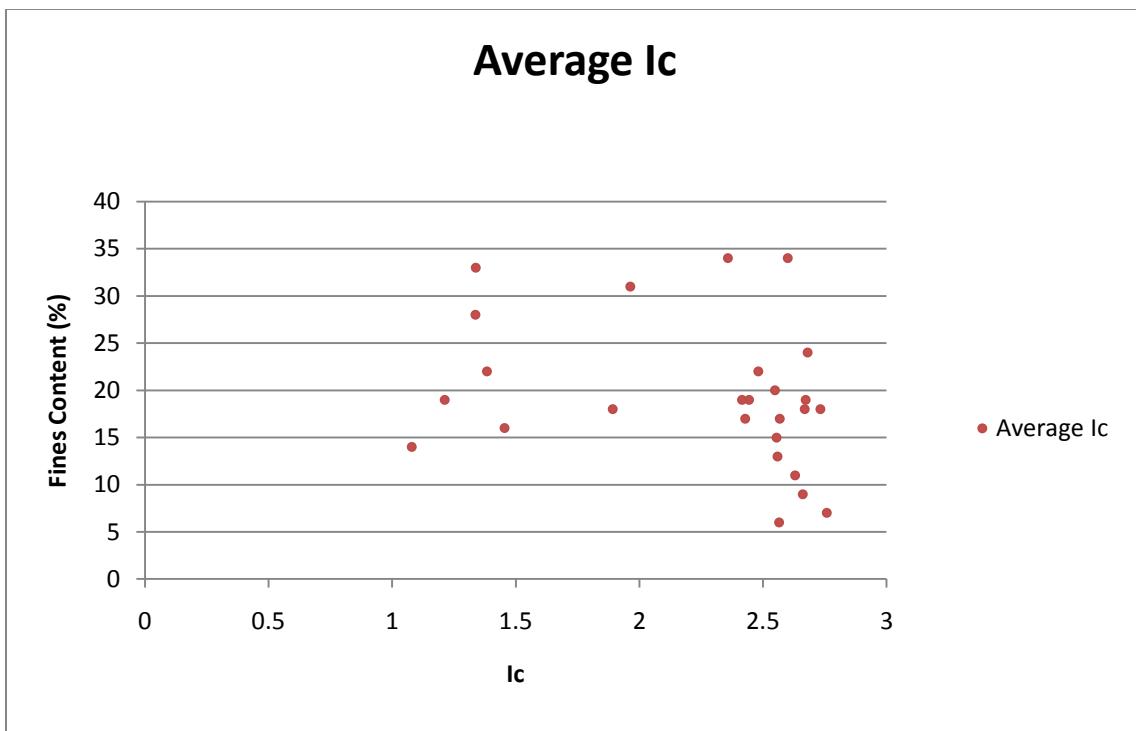


Figure 3 Correlation of fines content with soil behavior type index for n equal 0.5.

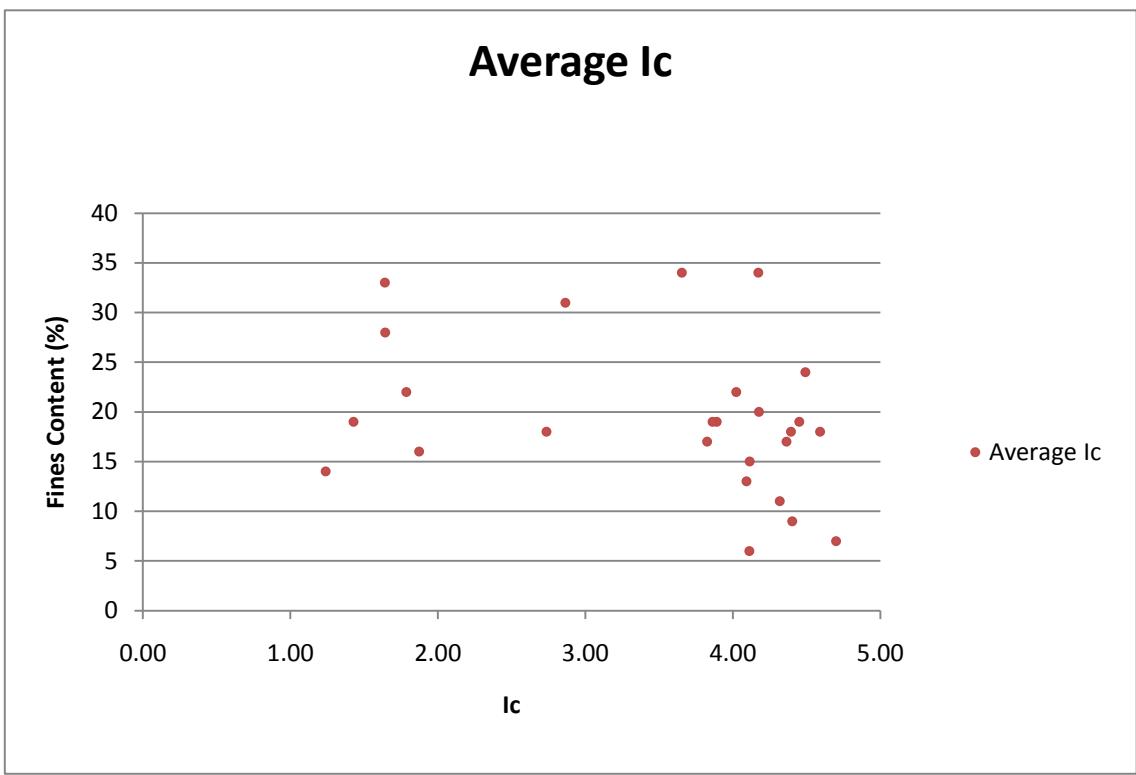


Figure 4. Correlation of fines content with soil behavior type index for n equal 0.75.

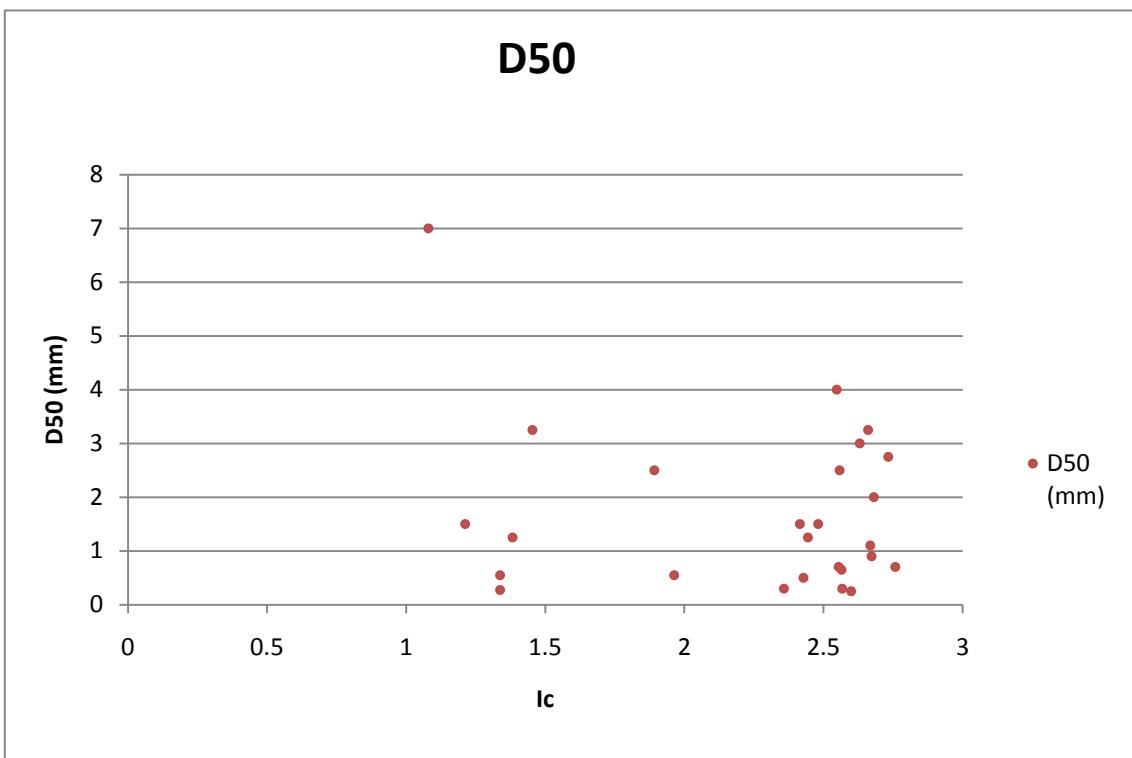


Figure 5. Correlation of mean grain size with soil behavior type index for n equal 0.5.

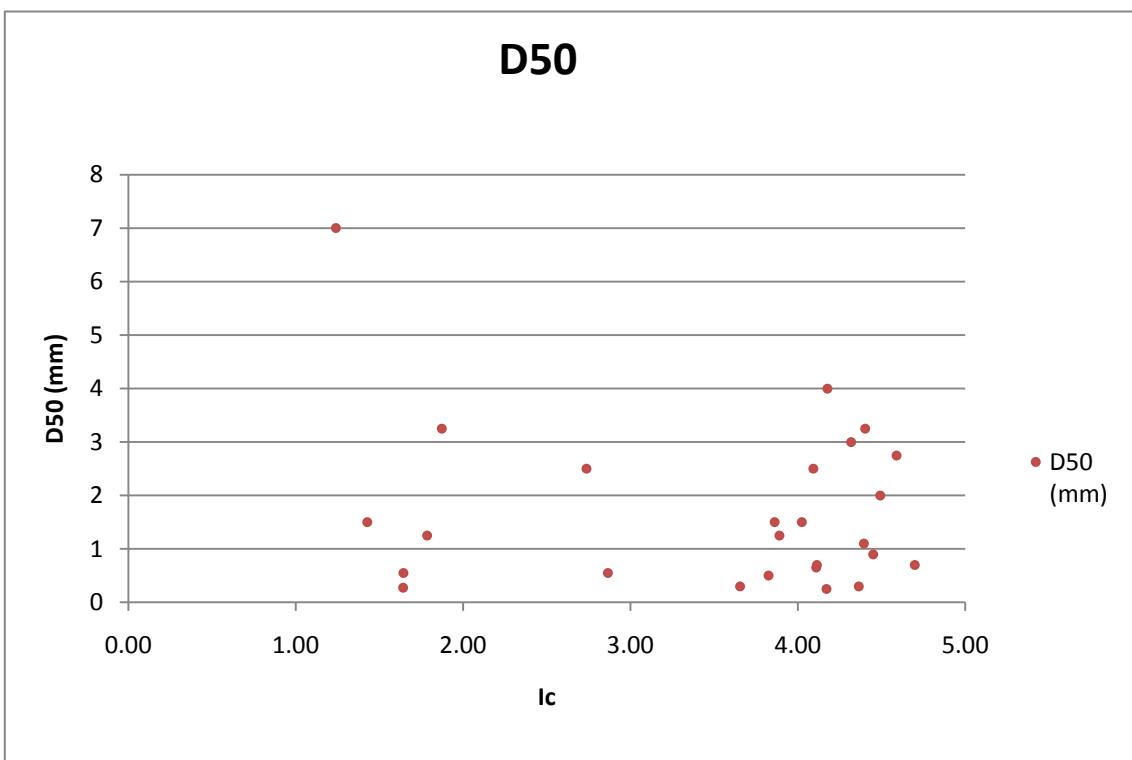


Figure 6. Correlation of mean grain size with soil behavior type index for n equal 0.75.

4 Correlation of Geotechnical Database with Surficial Geologic Mapping

The geologic data for Salt Lake Valley was acquired from two main sources: a surficial geologic map of the Salt Lake City segment of the Wasatch fault zone (Personius and Scott, 1992) for the eastern side of the valley and several quadrangle maps (Biek et al., 2004 and Biek, 2005) that cover the remainder of the valley. These maps were combined to produce the geologic map of the entire valley (Figure 7) that was later used in conjunction with the hazard calculations to define the extent of each hazard zone. Table 1 summarizes the geologic map units shown on Figure 7.

The geotechnical data needed to calculate the liquefaction hazard were obtained from several different sources and screened using quality indicators developed by Bartlett et al. (2005). The subsurface database included SPT, CPT, V_s , groundwater levels, soil descriptions, and other classification properties such as fines content and Atterberg limits. Overall there were approximately 930 SPT boreholes and 400 CPT soundings collected in Salt Lake County. The SPT borehole locations are shown in Figure 8.

A primary source of the geotechnical borehole data was the Utah Department of Transportation, which provided a significant electronic subsurface database from the recently finished I-15 Reconstruction project. Other geotechnical data used for the mapping project were obtained from several sources. Data from previous site-specific liquefaction studies were obtained from the Salt Lake County Government. Data from the I-15 Reconstruction Project and other highway investigations were provided by the Utah Department of Transportation (UDOT). These data include borehole logs for the older Interstate 80 (I-80) and Interstate 215 (I-215) construction projects. The I-15 Reconstruction Project subsurface data is a very extensive portion of the database. It was available in electronic format (GINT® database), allowing for a more rapid transfer of data to the ArcGIS® database. In addition, the boring data used by Anderson et al. (1986) from their previous mappings were obtained from the Utah Geological Survey and were used to fill in gaps where more recent data was unavailable. Some geotechnical consultants also provided data for the mapping effort. These data, in combination, allow a reasonable sampling of most geologic units and had sufficient spatial distribution to perform the various analyses.

Because the quality of the subsurface data varied, due to its numerous sources, some properties were estimated to fill in data gaps. To keep track of estimated properties, a system of data qualifiers was implemented. The data tables include data qualifier fields for important information, ranking the data quality from 1 to 3. A “1” was given to data and supporting information that was recorded in the originating report. A “2” was given to the data that could be reasonably estimated from nearby borehole logs from the originating report. A “3” denoted data that was estimated from another source beyond the originating report.

Prior to performing the liquefaction triggering and lateral spread analyses, missing values of soil unit weight, fines content and mean grain size were filled in using average values from the compiled subsurface dataset. Values for missing data were generally determined by averaging these soil properties for the corresponding Unified Soil Classification System (USCS) soil type within the same geologic unit. These averages were then marked with a data qualifier to identify them as averaged values. No penetration resistance data were averaged; if these data were missing the borehole was not entered into the subsurface database.

A depth to groundwater map was needed to determine which layers are saturated and have the opportunity to generate liquefaction and lateral spread. Also, this information is required to calculate the effective vertical stress profile for the subsequent calculations. Unfortunately, a reliable groundwater map did not exist for the project area, thus the depth to groundwater recorded on the geotechnical borehole logs were used to make a grid of groundwater depths. Because the groundwater depths were recorded at different times of the year and during different years, estimates of groundwater depth need to be conservative to account for potential fluctuations. Based on observations in the downtown area, the water table near Interstate 15 alignment has lowered about 5 feet since 1998 following 6 years of severe drought. Thus, the depth to groundwater was decreased by 5 ft from the recorded value in each log for the liquefaction triggering and lateral spread analyses. If this conservatism put the groundwater depth above the ground surface, a value of 0 ft was used for the groundwater depth. In addition, if part of a sand layer was saturated, it was assumed that the entire layer was saturated for the analyses.

Some of the boreholes did not have recorded depths to groundwater. However, because the groundwater table recorded in the borehole data was found to be reasonably consistent in the northern Salt Lake Valley, an inverse distance square method was used to interpolate groundwater depths for missing data. This method was also compared to results from Kriging and Spline interpolation methods and produced reasonable results; thus it was used to produce the groundwater map (Bartlett et al. 2005).

The amount and spatial distribution of the collected data provided a reasonable characterization of most of the geologic units in the mapped area; however, some judgment was applied, as discussed in the map production section of this paper. In addition, some required information was missing in some of the SPT boreholes (e.g., soil unit weight, fines content, etc.). For these boreholes, Microsoft Visual Basic for Applications (VBA) routines were used to fill in data gaps by averaging according to soil type and geologic unit (Bartlett et al., 2005). However, in no case was SPT blowcount values estimated; if this information was not available, the corresponding borehole information was not used.

Other VBA routines also used to calculate the liquefaction hazard and complete the mapping process (Bartlett et al., 2005) consisted of vertical effective stress and SPT blow count correction routines. Before performing the liquefaction hazard calculations, soil intervals in the borehole data having a plastic index greater than 7 were identified and removed from the hazard analysis because they typically exhibit “clay-like” behavior during seismic events and, while they may generate excess pore water pressure, do not typically liquefy (Boulanger and Idriss, 2004).

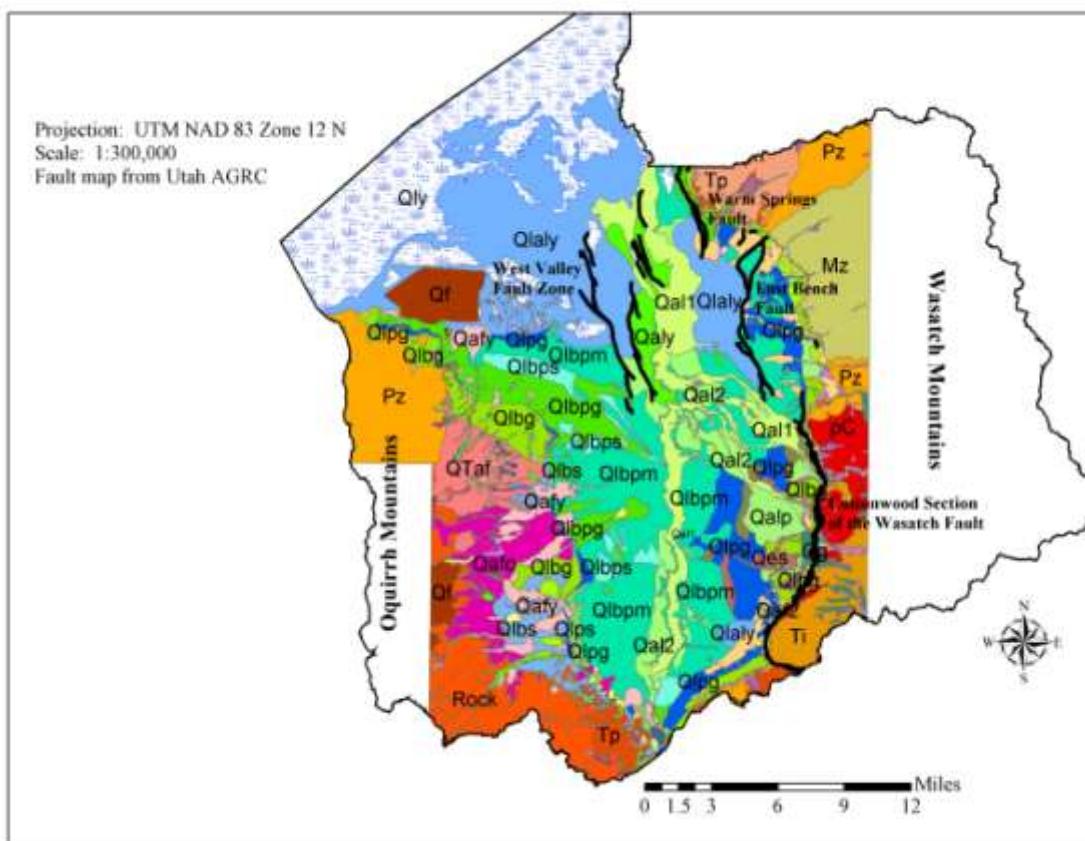


Figure 7. Surficial geologic map of Salt Lake Valley (modified from Personius and Scott, 1992; Biek et al., 2004; and Biek, 2005). Quartenary faults are shown by heavy lines; symbols for geological units are explained in Table 1.

Table 1. Geological units and descriptions

<u>Name</u>	<u>Description</u>	<u>Age</u>
Qaf1	Fan alluvium 1	Upper Holocene
Qaf2	Fan alluvium 2	Middle Holocene - Upper Pleistocene
Qafo	Older fan alluvium, undivided	Middle Pleistocene
Qafy	Younger fan alluvium, undivided	Holocene - Uppermost Pleistocene
Qal1	Stream alluvium 1	Upper Holocene
Qal2	Stream alluvium 2	Middle Holocene - Uppermost Pleistocene
Qaly	Younger stream alluvium, undivided	Holocene - Uppermost Pleistocene
Qalp	Stream alluvium related to Lake Bonneville regressive phase	Uppermost Pleistocene
Qes	Eolian sand	Holocene - Upper Pleistocene
Qf	Artificial fill	Historical
Qg	Glacial deposits	Middle - Upper Pleistocene
Qlaly	Lacustrine, marsh, and alluvial deposits, undivided	Holocene - Upper Pleistocene
Qlao	Lacustrine and alluvial deposits, undivided	Holocene - Upper Pleistocene
Qlbg	Lacustrine sand and gravel related to Lake Bonneville transgressive phase	Upper Pleistocene
Qlbt	Lacustrine clay and silt related to Lake Bonneville transgressive phase	Upper Pleistocene
Qlbpg	Lacustrine sand and gravel, undivided by Lake Bonneville phase	Upper Pleistocene
Qlpbts	Lacustrine sand and silt, undivided by Lake Bonneville phase	Upper Pleistocene
Qlpg	Lacustrine sand and gravel related to Lake Bonneville regressive phase	Upper Pleistocene
Qlps	Lacustrine sand and silt related to Lake Bonneville regressive phase	Upper Pleistocene
Qly	Marsh and lacustrine deposits, undivided	Holocene - Uppermost Pleistocene
QTaf	Oldest alluvial-fan deposits	Middle Pleistocene
Rock	Bedrock	Various

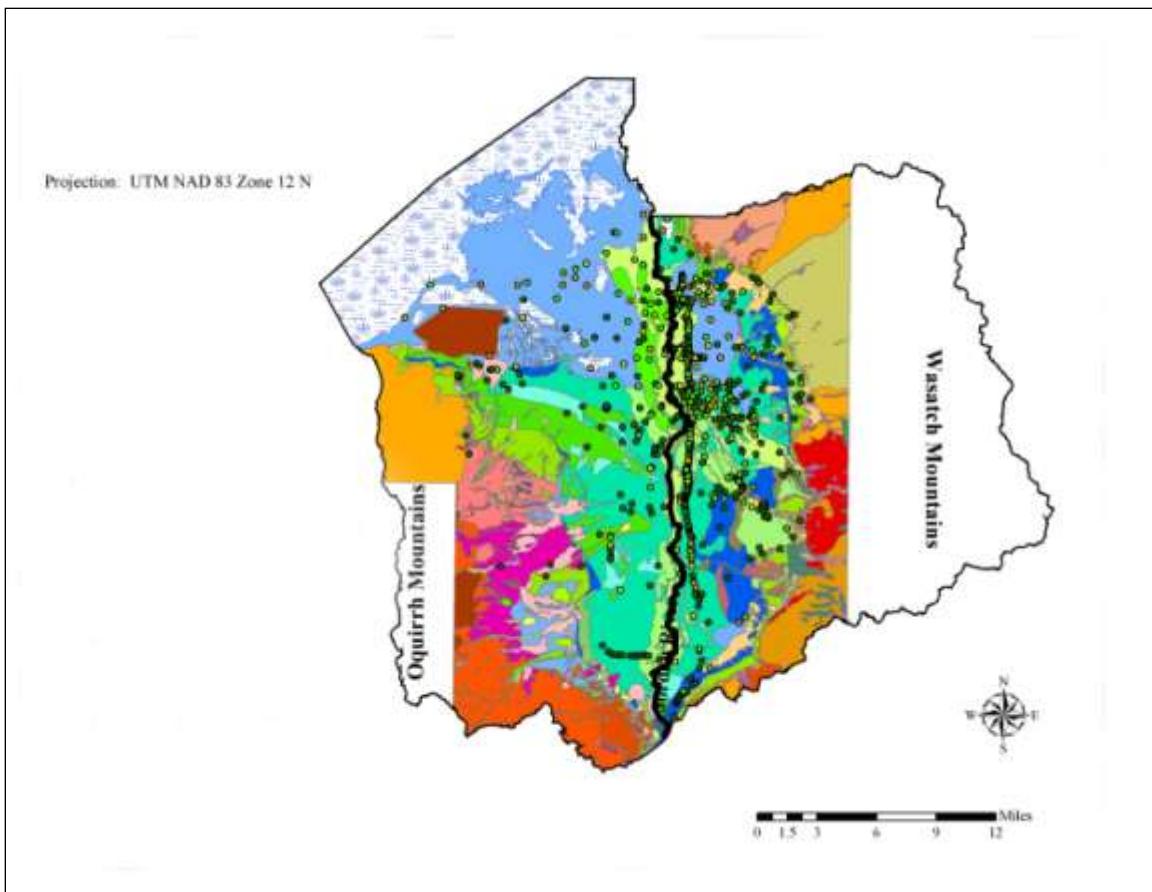


Figure 8. Surficial geologic map and SPT borehole locations.

5 Mean Annual Probability of Triggering Liquefaction for Salt Lake County

The probabilistic liquefaction calculations combined seismic hazard curves with probabilistic liquefaction potential curves to calculate the annual probability of liquefaction for the various geologic units in the mapped area. The United States Geological Survey (USGS) provided the seismic hazard curve information as part of the National Seismic Hazard Mapping Project (Frankel et al., 2002) and the probabilistic liquefaction potential curves were obtained from Seed et al. (2003). However, because the seismic hazard varies significantly within Salt Lake Valley, the USGS provided hazard curve information at 0.025 degree grid spacing in the mapped domain (the seismic hazard values from the National Seismic Hazard Map website were not used because these values are for a much coarser grid than was required for our purposes). For a given grid point, the USGS provided estimates of the mean annual rate of exceedance (λ) versus peak ground acceleration (PGA) for rock, similar to the curve shown in Figure 9. For each grid point, we requested estimates of λ corresponding to PGA values of 0.01, 0.05, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, and 1.0 g to produce a reasonably uniform spacing of λ . In addition, for each estimate of λ , the corresponding modal earthquake magnitude (M) was also provided for use in the subsequent liquefaction analyses.

The USGS PGA values are for rock (NEHRP Site Class B) and were converted to PGA soil values for the liquefaction calculations using soil amplification factors and refinements to the soil site classifications developed by Seed et al. (1997). For Salt Lake Valley the seismic response units have already been classified according to their shear wave velocities in the upper 30 m (Ashland and McDonald, 2003); therefore the PGA soil amplification/deamplification curves developed by Seed et al. (1997) could be used directly with no modification.

The probability of liquefaction for a given soil and PGA and M value can be calculated from the probabilistic liquefaction potential curves developed by Seed et al. (2003). These curves use calculations similar to deterministic liquefaction methods given by NCEER (1997). Seed et al. (2003) calculated the probability of liquefaction as a function of cyclic stress ratio (CSR) and corrected SPT blow counts in clean sand ($N_{1,60}$) for a M7.5 earthquake and an effective vertical stress of 1.0 atm (Figure 10). CSR varies with depth and is a function of PGA, the total and effective vertical stress ratio and a stress reduction factor, r_d , that accounts for the flexibility of the soil column (NCEER, 1997).

Seed et al. (2003) also produced a composite equation that takes into account fines content, vertical effective stress, and earthquake magnitudes other than M7.5 directly within Equation 5-1. This equation gives the probability of liquefaction as a function of the following input variables:

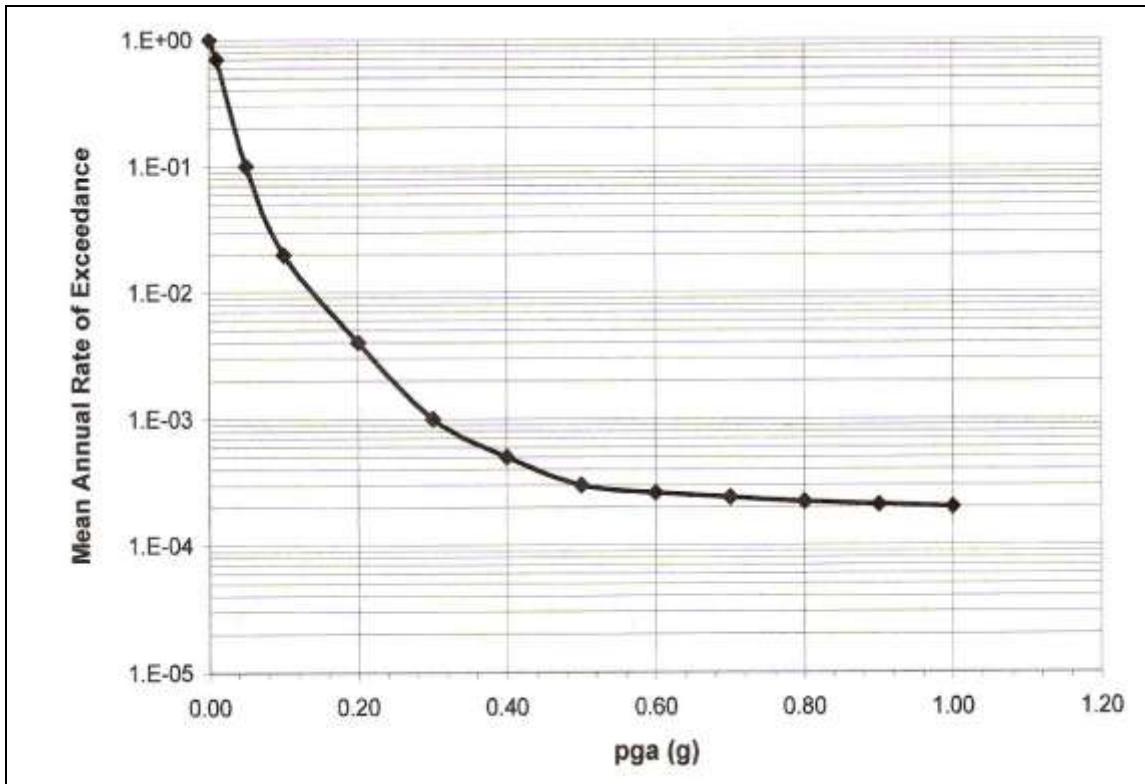


Figure 9. Example seismic hazard curve for pga from Bartlett et al. 2005.

$$P_L = \Phi \left(-\frac{\left(N_{1,60} \cdot (1 + 0.004 \cdot FC) - 13.32 \cdot \ln(CSR) - 29.53 \cdot \ln(M_w) - 3.70 \cdot \ln(\sigma'_v) + 0.05 \cdot FC + 44.97 \right)}{2.70} \right) \quad (5-1)$$

where:

P_L = the probability of liquefaction expressed as a decimal value,
 Φ = the standard cumulative normal distribution,

M_w = earthquake moment magnitude,

σ'_v = vertical effective stress, and

FC = fines content

The CSR value for Equation 5-1 is calculated from Equation 5-2:

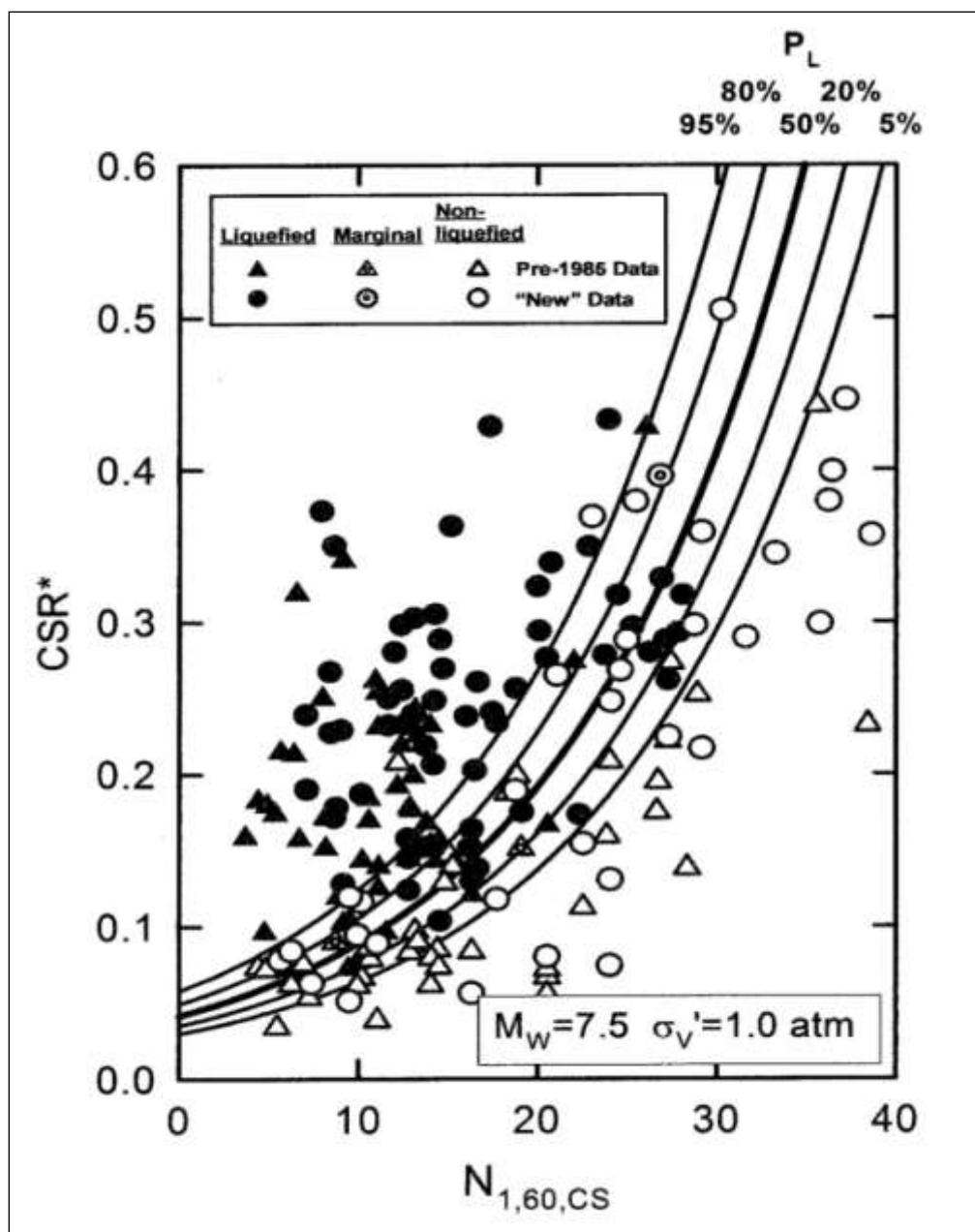


Figure 10. Liquefaction potential curves (from Seed et al., 2003). “ P_L ” stands for probability of liquefaction, while “CSR” stands for cyclic stress ratio.

$$CSR = \left(\frac{a_{\max}}{g} \right) \cdot \left(\frac{\sigma_v}{\sigma'_v} \right) \cdot (r_d) \quad (5-2)$$

where:

a_{\max} = the peak horizontal ground surface acceleration,

g = the acceleration of gravity,

σ_v = total vertical stress,

σ'_v = vertical effective stress, and

r_d = stress reduction factor.

Equation (5-2) is similar to the “simplified” method of Seed and Idriss (1971) except that r_d is calculated differently based on Cetin and Seed’s (2001) finding that the original stress reduction factor of Seed and Idriss (1971) is biased. They proposed a new r_d equation that is a function of depth (d), earthquake magnitude, intensity of shaking, and site stiffness (i.e. V_s for the upper 40 ft or 12 m) (Equations (5-3) through (5-6)).

$d < 65$ ft (20 m):

$$r_d = \frac{\left[\frac{-23.013 - 2.949 \cdot a_{\max} + 0.999 \cdot M_w + 0.016 \cdot V_{s,40}^*}{16.258 + 0.201 \cdot e^{0.104(-d+0.0785V_{s,40}^*+24.888)}} \right]}{\left[\frac{-23.013 - 2.949 \cdot a_{\max} + 0.999 \cdot M_w + 0.016 \cdot V_{s,40}^*}{16.258 + 0.201 \cdot e^{0.104(0.0785V_{s,40}^*+24.888)}} \right]} \pm \sigma_{\varepsilon r_d} \quad (5-3)$$

$d \geq 65$ ft (20 m):

$$r_d = \frac{\left[\frac{-23.013 - 2.949 \cdot a_{\max} + 0.999 \cdot M_w + 0.016 \cdot V_{s,40}^*}{16.258 + 0.201 \cdot e^{0.104(-65+0.0785V_{s,40}^*+24.888)}} \right]}{\left[\frac{-23.013 - 2.949 \cdot a_{\max} + 0.999 \cdot M_w + 0.016 \cdot V_{s,40}^*}{16.258 + 0.201 \cdot e^{0.104(0.0785V_{s,40}^*+24.888)}} \right]} - 0.0014 \cdot (d - 65) \pm \sigma_{\varepsilon r_d} \quad (5-4)$$

where:

$$\sigma_{\varepsilon r_d}(d) = d^{0.850} \cdot 0.0072 \quad [\text{for } d < 40 \text{ ft or } 12 \text{ m}], \text{ and} \quad (5-5)$$

$$\sigma_{\varepsilon r_d}(d) = 40^{0.850} \cdot 0.0072 \quad [\text{for } d \geq 40 \text{ ft or } 12 \text{ m}]. \quad (5-6)$$

Before Equation (5-1) can be used, the seismic hazard curve, which is a cumulative probability density function (CDF), must be converted to a probability density function (PDF). This was done by differencing values on the seismic hazard curve to obtain “interval probabilities” (i.e., the probability that PGA is found between the two selected values). For the liquefaction calculations in Equation (5-1), a point estimate of PGA is required, so the midpoint of each PGA bin was used for this equation, and the corresponding interval probability and modal M value were applied in Equation (5-7) below to represent the annual probability of peak ground acceleration and earthquake

magnitude for that acceleration.

The annual probability of liquefaction at a point can then be found by summing (i.e., aggregating) the following conditional probability:

$$P[L] = \sum_i P[L|A_i, M(A_i)] \cdot P[A_i, M(A_i)] \quad (5-7)$$

where:

$P[L]$ = annual probability of liquefaction,

$P[L|A_i, M(A_i)]$ = conditional probability of liquefaction given the peak ground acceleration (A_i) and the earthquake magnitude [$M(A_i)$] for that acceleration,

$P[A_i, M(A_i)]$ = annual probability of peak ground acceleration and earthquake magnitude for that acceleration, and

$M(A_i)$ = the weighted modal magnitude of the earthquakes contributing to the annual probability of A_i .

The first probability in Equation (5-7) is calculated from Equation (5-1) and is conditioned on a particular A and M pair where A is the bin midpoint value. The second probability is the internal probability corresponding to the A and M pair.

Ultimately, the final map was expressed in terms of the average return period of liquefaction instead of the annual probability of liquefaction. Equation (5-8) was used to convert annual liquefaction probabilities to return periods using the Poisson model, as further described in Kramer (1996). The Poisson model can be used to relate the probability of at least one liquefaction event in time t with the average return period for that event in the following way:

$$P[L] = 1 - e^{-\lambda t} \quad (5-8)$$

where:

$P[L]$ = annual probability of liquefaction determined from Equation (5-4),

t = exposure time (set equal to 1 year in order to coincide with “annual” probability of liquefaction values), and λ = mean annual rate of exceedance.

Equation (5-8) was solved for λ and the average return period of liquefaction was simply taken as the inverse of λ .

The probabilistic calculations and other analyses were done using routines written in the Microsoft Visual Basic for Applications (VBA) Editor in ArcGIS® for more than 930 borehole locations throughout Salt Lake Valley. The return period corresponding to the $N_{1,60}$ value having the highest probability of liquefaction was calculated at each borehole and this return period was superimposed on the surficial geologic map using ArcGIS® (Figure 11). We chose not to grid and contour the return period values because of the irregular spacing and clustering of the data. Instead, the return periods were classified

and color coded according to the following scheme: 0-500 years (very high hazard), 500-1000 years (high hazard), 1000-2500 years (moderate hazard) and greater than 2500 years (low hazard). These return period ranges were chosen in order to coincide with existing NEHRP and building code design events (500-year and 2500-year return periods).

The hazard for each geologic unit was assigned using the mean or predominate liquefaction hazard return period for the boreholes that occurred in that unit (Figure 12). However, some of the mapped units were subdivided according to hazard because there was a trend or spatial change in the hazard classification for these units. In addition, some of the units had minimal or no borehole sampling. If the same unit occurred with data elsewhere in the valley, these additional data were used to help assign the hazard level; otherwise the geologic description, type of sediments and depositional environment (e.g., alluvial, lacustrine, deltaic, etc.) were used to assign the hazard. However, most of these under sampled geologic units are in the southwestern part of the valley where very dense and/or stiff soils are found. The nature of these soils in combination with the relatively deep groundwater table makes this area much less susceptible to liquefaction. This area was consequently assigned a low liquefaction hazard (Figure 12).

Both the east and west flanks of Salt Lake Valley have a relatively long liquefaction return period (i.e., > 1000 yrs) (Figure 12). The deposits in these areas are generally older (pre-Holocene), denser, and generally have a deep groundwater table. The northwestern part of the valley near Great Salt Lake also has a low hazard. It should be noted, however, that in the northwestern part of the valley near Great Salt Lake, the soils can be highly variable with thin sand layers interbedded with finer grained Jordan River deltaic and Bonneville lacustrine deposits. The shallow deltaic and lacustrine deposits underlie the majority of the northwestern part of the valley and are made up of predominately fine-grained soils, which are not generally susceptible to liquefaction. However, significant parts of the east-central and northeastern valley have a moderate to high or very high liquefaction hazard. This elevated hazard is due to the presence of relatively loose, saturated, cohesionless soil deposited by the Jordan River and streams from Big and Little Cottonwood Canyons (Figure 12). These sediments are more abundant on the east-central and northeastern part of the valley due to the asymmetrical tilting of the sedimentary basin producing more deposition in this area. Unfortunately, a large part of downtown Salt Lake City falls within a high to very high hazard zone due to the nature of the sediments and the proximity to the Salt Lake City segment of the Wasatch fault zone.

Our probabilistic liquefaction-triggering map (Figure 12) improves and refines that produced by Anderson et al. (1986) (Figure 13). Most importantly, Figure 12 is fully probabilistic in that the probability of liquefaction from the borehole data has been aggregated with the strong motion estimates for the National Seismic Hazard Maps (Frankel et al., 2002) for all seismic events and their respective probabilities

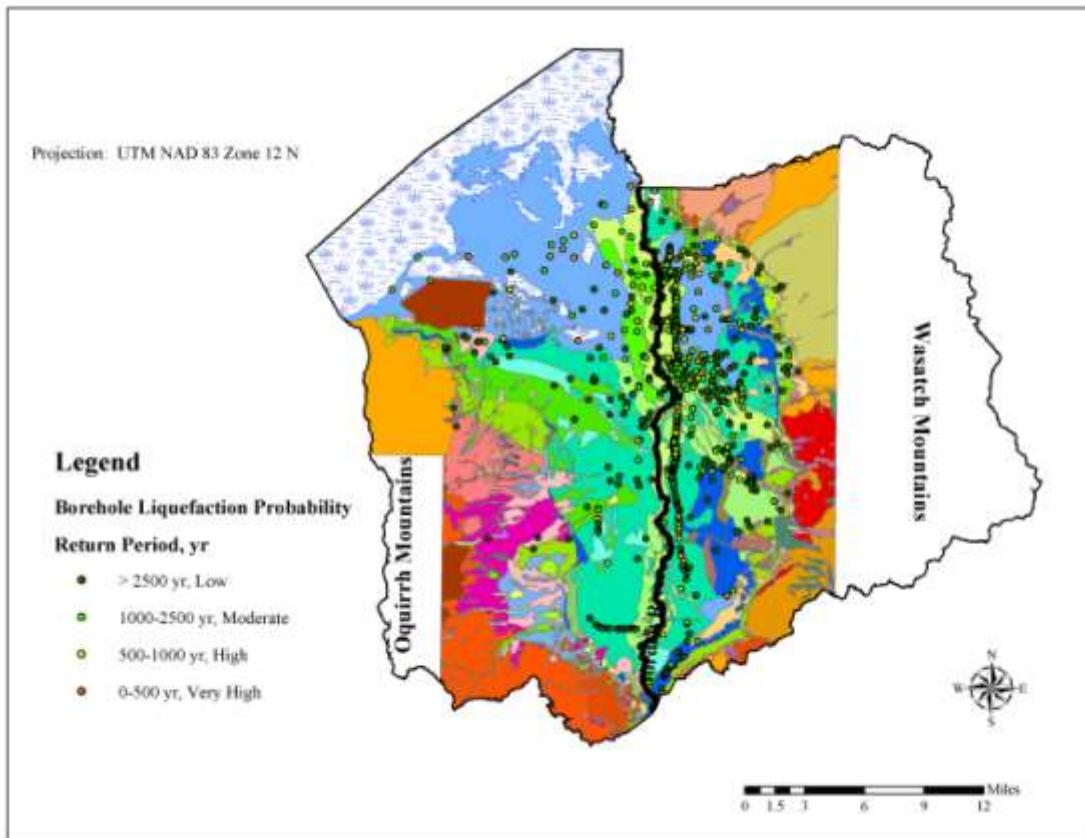


Figure 11. Plot of average liquefaction return period at borehole locations underlain by a surficial geological map (base map from Personius and Scott , 1992; Biek et al., 2004; and Biek, 2005).

In addition, the extent of the moderate and high hazard zones has been generally reduced on our map; although both maps show areas of high to moderate hazard in the central and most urbanized parts of the valley. Significant differences in the hazard delineation can be attributed to several factors. (1) We used a significantly larger geotechnical and geologic database, producing a more robust characterization and better spatial description of the various geologic units and their respective hazard boundaries. (2) The methods used in the liquefaction calculations for Figure 12 were significantly different; probabilistic liquefaction susceptibility curves were not available when the previous map (Figure 13) was produced, thus deterministic curves were used to calculate when liquefaction would be triggered (Anderson et al., 1986). (3) The estimates of the strong motion for Figure 12 were gridded at a more uniform and finer spacing than those of Figure 13. (4) The hazard designations (e.g., low, moderate, high and very high) differ from those used by Anderson et al. (1986). Anderson et al. (1986) used the designations shown in Table 2, which were based on the critical PGA value required to trigger liquefaction based on deterministic calculations. The probabilities for these critical acceleration values were generalized from a probabilistic seismic hazard study (Anderson et al., 1986). In contrast, our hazard categories are based on the average return period of triggering liquefaction calculated from the annual probability of liquefaction from the aggregation of both the seismic and liquefaction hazard. This approach is a widely accepted and more formal way of performing the hazard calculations.

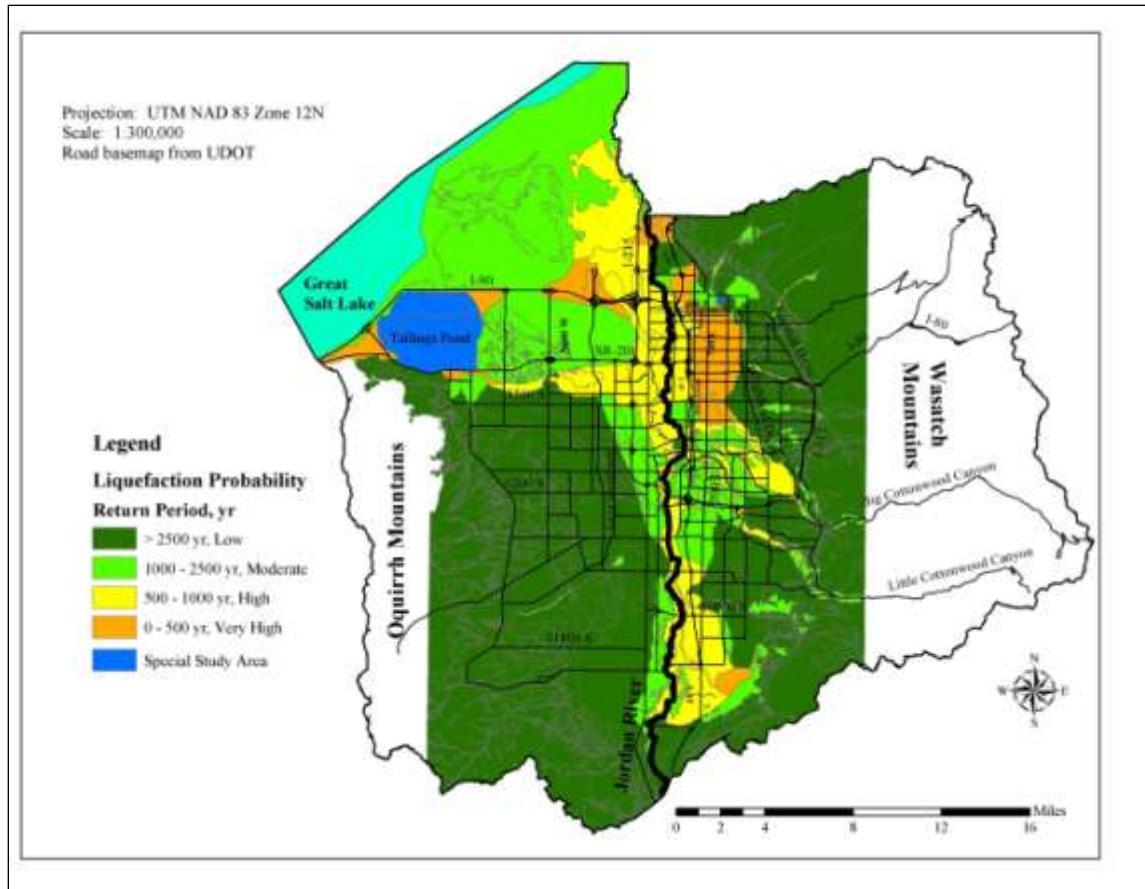


Figure 12. Probabilistic liquefaction hazard map for Salt Lake Valley, Utah.

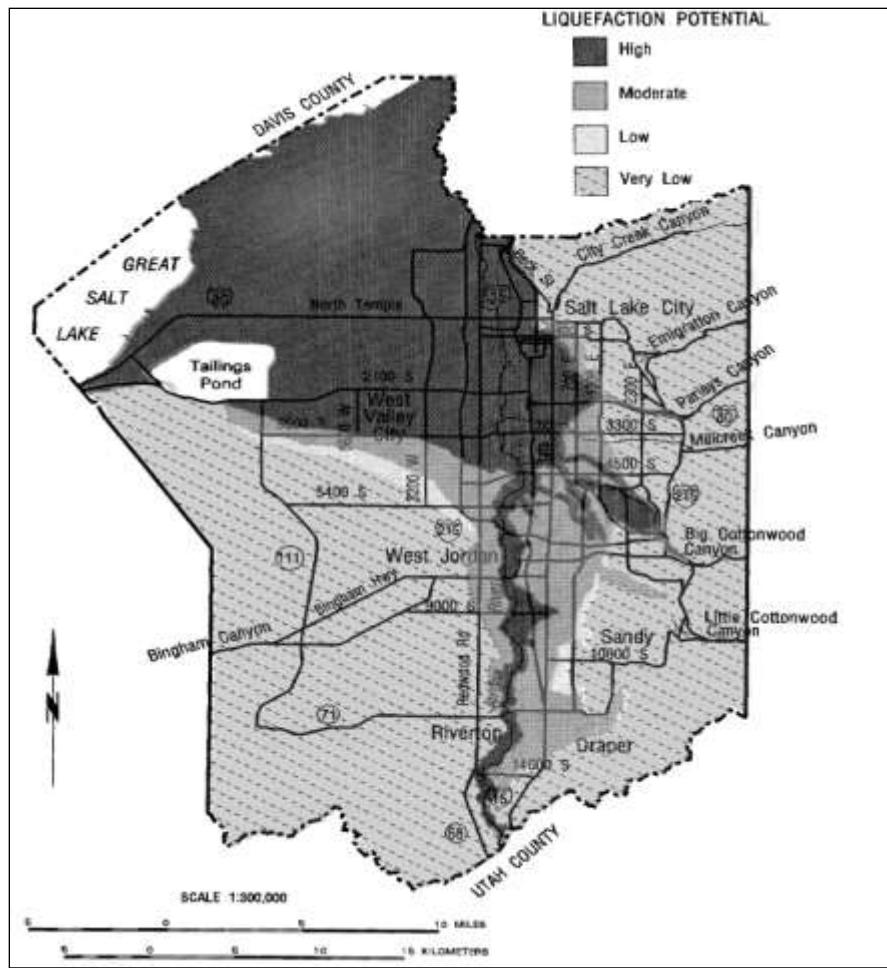


Figure 13. Liquefaction potential map for Salt Lake Valley, Utah (simplified from Anderson et al. 1986).

Table 2. Liquefaction potential designations used by Anderson et al. (1986)
(after Dames and Moore 1978).

Liquefaction Potential	Critical Acceleration	Approximate 100 year Exceedance Probability
High	< 0.13 g	> 50%
Moderate	0.13 g - 0.23 g	50 - 10%
Low	0.23 g - 0.30 g	10 - 5%
Very Low	> 0.30 g	< 5%

6 Probability of triggering liquefaction for a M7.0 earthquake

In addition to fully probabilistic-based maps (Section 5), it is possible to create hybrid maps that, for example, give the probability of liquefaction for a scenario event. The scenario event may be a probabilistic event (e.g., strong motion associated with a 2 percent probability of non-exceedance) or a deterministic event (e.g., M7.0 characteristic earthquake). The probabilistic curves shown in Figure 10 can be used to calculate the probability of triggering liquefaction for a given cyclic stress ratio (Equation 5-2) for the scenario event.

ULAG members requested that we develop a hybrid map that represents the probability of triggering liquefaction for a M7.0 scenario event in Salt Lake Valley originating on the Salt Lake City segment of the Wasatch fault. The methods used to develop this map are similar to those outlined in Section 5; however, the seismic hazard curve is not aggregated. Instead, Equations 5-1 and 5-2 were applied to the pga strong motion estimates developed by Wong et al. (2002) (Figure 16).

The probability of liquefaction was calculated for each borehole location using Equation 5-1 (Figure 14). The descriptions of the geologic units are found in Table 1. The probability of liquefaction was divided into 5 intervals (0 to 0.2; 0.2 to 0.4; 0.4 to 0.6; 0.6 to 0.8; 0.8 to 1.0) and the dots at each borehole location were colored according to these intervals. Ultimately, each geologic unit in the mapped domain was assigned a mean probability of liquefaction based on the average probability of liquefaction that occurs in the respective geologic unit (Figure 15).

Figure 15 suggest that there is a relatively high probability of triggering liquefaction for a M7.0 earthquake throughout much of the central and northern part of Salt Lake Valley. However, this type of map should be used in conjunction with lateral spread and ground settlement maps for a M7.0 event to estimate the magnitude of the horizontal and vertical displacement resulting from liquefaction. For example, Section 8 of this report presents a lateral spread map for northern Salt Lake Valley. In addition to this map, additional liquefaction-induced ground displacement maps are planned for development as part of the FY2007. These maps will be presented in subsequent USGS technical reports as part of Awards 07HQGR0021 and 07HQGR0024.

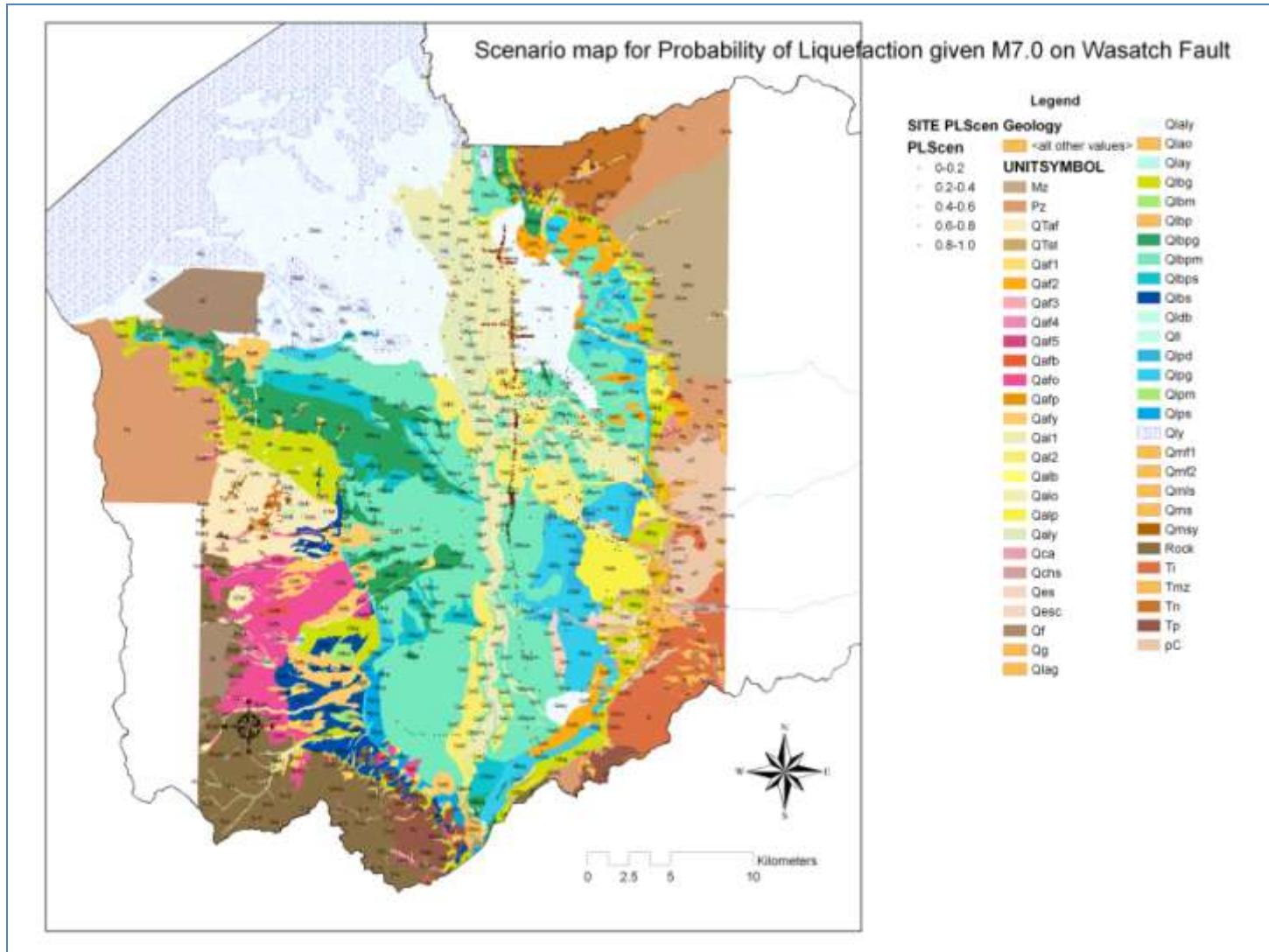


Figure 14. Probability of liquefaction for M7.0 event at borehole locations for Salt Lake Valley.

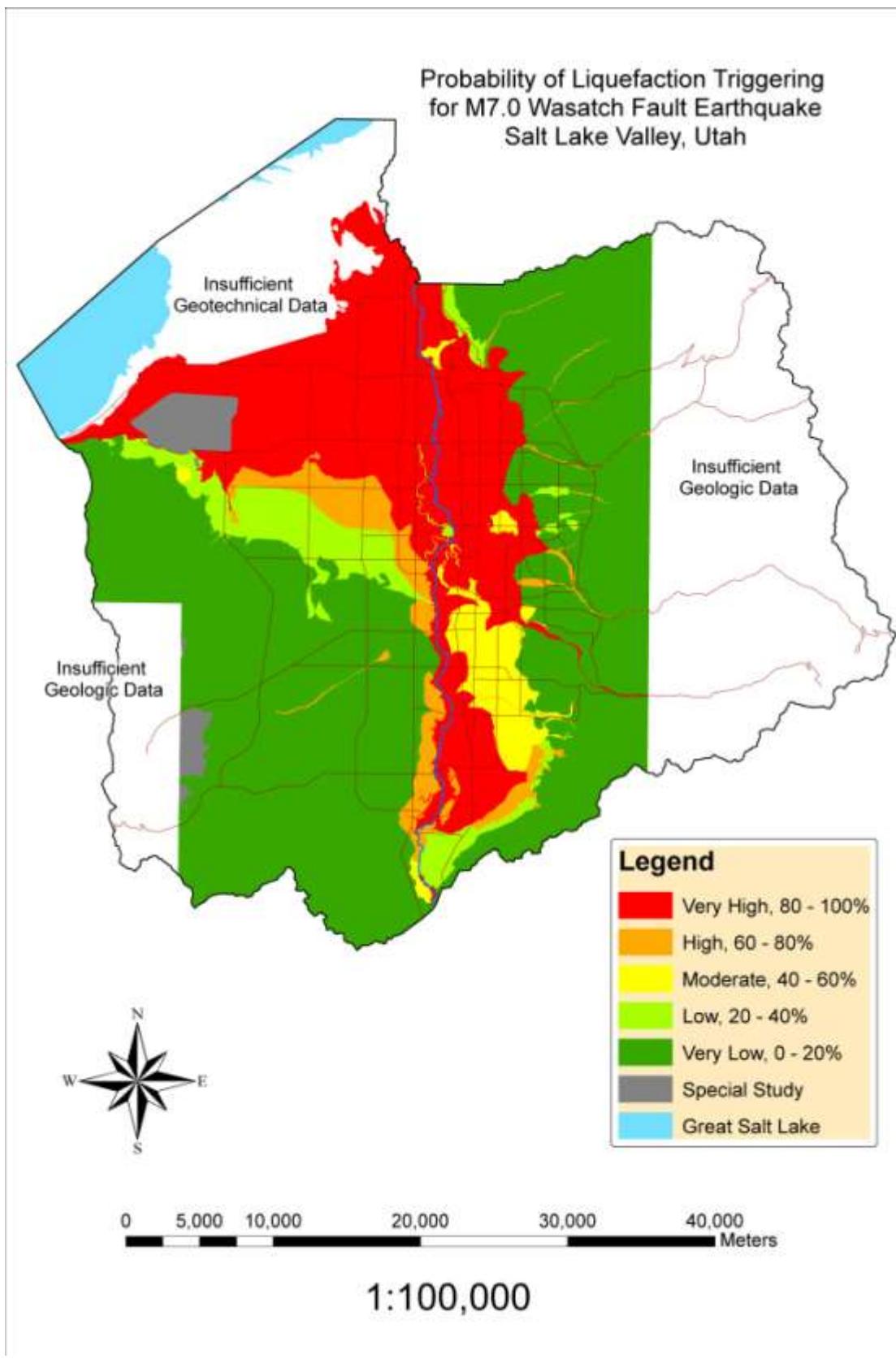


Figure 15. Probability of triggering liquefaction for M7.0 earthquake in Salt Lake Valley.

7 Mapped mean annual probability of lateral spread for northern Salt Lake County

Completion of this task is pending. ULAG has not received the strong motion estimates from the U.S.G.S. strong motion program to complete this task.

8 Mapped lateral spread displacement for M7.0 event for northern Salt Lake County

The lateral spread map for northern Salt Lake County is continuation of work by Bartlett et al. (2005) and the methods used to develop the map shown in this section are consistent with those methods. In short, following the methods outlined in Youd et al. (2001), raw SPT blow count data were normalized and corrected to $(N_1)_{60}$ clean sand values and liquefaction triggering analyses were completed at each borehole location. Estimates of peak ground acceleration at the borehole sites were obtained from mapping done by Wong et al. 2002 (Figure 16).

A liquefaction triggering analysis using the M7.0 scenario earthquake, peak ground acceleration values shown in Figure 16 and the liquefaction methods outlined in NCEER (1997) preceded the lateral spread calculations for each borehole in the dataset. Soils with a plastic index greater than 7 typically exhibit “clay-like” behavior during seismic events and do not generally liquefy (Boulanger and Idriss, 2004). Such soils were screened from the liquefaction and lateral spread analyses.

The Bartlett and Youd lateral spread equations (Bartlett and Youd 1992; Youd et al. 2002) were used for the lateral spread displacement calculations. The lateral spread hazard map (Figure 17; see also Figure 1 for color) was divided into hazard zones according to the calculated horizontal displacement (D_H) and the surficial geology. Those areas designated as very high hazard zones have soil, seismic and topographical conditions that could potentially produce maximum D_H values greater than 1 m for the scenario earthquake. High hazard, moderate hazard and low hazard zones have the potential of D_H values between 0.3 to 1.0 m, 0.1 and 0.3 m and 0.0 to 0.1 m, respectively. Areas where no significant lateral spread was predicted are labeled as minimal hazard.

To produce the lateral spread hazard map shown in Figure 17, calculations and statistical analyses were used in combination with the surficial geological mapping. At the onset of the project it was apparent that the spatial distribution of the boreholes throughout the Salt Lake Valley was not sufficiently uniform to allow an ArcGISTM algorithm to simply contour the predicted values of D_H and define the lateral spread hazard zones. Therefore, the mapped geologic units (Figure 7) became the primary delineation of the hazard zones and the lateral spread calculations of the borehole data within each unit was used to assign the level of hazard to each unit.

To begin this process, each borehole was assigned to its respective geologic unit using the available mapping (Figure 7). However, in some locations, relatively thin geologic units are present and deeper boreholes penetrate layers found in underlying geologic units. Thus, during the data collection phase, it was important to assign each layer within each borehole to its respective geologic unit to account for variation in soil properties with depth. This classification of borehole information according to geologic unit made the subsequent statistical analysis of D_H values more discriminating.

The Bartlett-Youd regression model (Bartlett and Youd, 1992; Youd et al., 2002) was used to calculate the distribution of D_H values within each geologic unit using the borehole data. The regression model was implemented in a series of ArcGIS™ routines to perform the lateral spread calculations (Bartlett et al. 2005). This regression model was originally developed to estimate D_H for site-specific analyses; but because of the abundant geotechnical database compiled for Salt Lake County, it was possible to generalize this method and produce a regional hazard map. The input factors required to apply the model are: earthquake magnitude (M), horizontal surface distance to the causative fault (R), ground slope (S), distance and height of free face (W), thickness (T_{15}), fines content (F_{15}) and mean grain size ($D50_{15}$) of the lateral spread layer(s). The potential for lateral spread layer(s) was considered in all saturated, cohesionless layers having corrected standard penetration test (SPT) values, N_{160} , less than 15. Significant lateral spread displacement is generally restricted to such layers for $M < 8.0$ earthquakes (Bartlett and Youd, 1992). Layers that did not meet these criteria were screened from the analyses. Also, layers deeper than 15 m were not considered; such layers generally do not generate significant lateral spread displacement (Bartlett and Youd, 1992).

A M7.0 scenario earthquake was used for the lateral spread analyses based on a rupture of the Salt Lake City segment of the Wasatch fault zone. Rupture of the West Valley fault zone was not considered as part of this scenario. To calculate R, an ArcGIS™ geometry routine calculated the horizontal distance (km) from the borehole to the nearest point on the fault line (Figure 7). This is consistent with the definition of R used by Youd et al. (2002). Values of R were not allowed to go below 0.5 km, as recommended by Youd et al. 2002. This restriction is necessary to prevent estimates of D_H from becoming unreasonably large for locales near the fault or seismic source.

The ground slope, or the distance and height of a nearby free face, if present, greatly influences lateral spread displacement (Bartlett and Youd, 1992; Youd et al. 2002). Thus, ArcGIS™ routines were developed to estimate the ground slope, S (%), according to the definitions given by Bartlett and Youd (1992). Values of S were calculated using ArcGIS Spatial Analyst™ and a slope grid was created from a Digital Elevation Model (DEM) obtained from the USGS national elevation dataset and re-projected to coincide with the borehole coordinates (Bartlett et al. 2005). A slope finder routine was developed in ArcGIS™ that calculated the slope based on the position of the borehole relative to the toe and crest of the slope (Bartlett and Youd, 1992). In essence, the slope finder routine searched a 200-m radius on the DEM grid from the borehole location and calculated the slope between every grid point within that radius. The steepest slope found from this search was used as the ground slope at each borehole location.

Another ArcGIS™ routine was developed to calculate the free face ratio, W (%) (Bartlett et al. 2005). This variable is defined as the ratio of the height (H) of the free face and the horizontal distance (L) from the free face to the borehole, in percent (Bartlett and Youd, 1992). To calculate W, the location and depth of river channels and canals were obtained for the mapped area. The routine was then used to calculate the horizontal distance (L) from the borehole location to the closest free face feature

in the ArcGISTM database. The height, or depth of the channel, (H) was also obtained from the feature database and W (%) was calculated for all boreholes. For cases where both a ground slope (S) and free face (W) were present, estimates of D_H were made for both cases and the larger estimate from the regression model was used to produce the map.

Lastly, the soil factors T_{15} , F_{15} and $D50_{15}$ were calculated for each borehole. These factors are the aggregated thickness (m) of saturated cohesionless sediments having N_{160} values less than 15 and the corresponding average fines content and mean grain size for those layers. From this, values of D_H were calculated and plotted at each borehole location to inspect the variation and trends of D_H within a given geologic unit. If a trend in D_H was noted (e.g., values of D_H generally increasing or decreasing in a certain area or direction within the unit), then this unit was subdivided during the hazard delineation to account for the differences or trends.

The hazard level was assigned to each geologic unit using statistical analysis of their D_H values. A cumulative histogram of the percentage of D_H values not exceeding the various hazard levels was plotted for each geologic unit. For example, Figure 18 shows the cumulative non-exceedance histogram for the hazard bins for the Qal₁ unit. For the low hazard bin (i.e., $0.0 < D_H < 0.1$ m), 50 percent of the data do not exceed the upper D_H limit for this bin (i.e., do not exceed 0.1 m). Also, for this unit, 71 percent of the data do not exceed the upper D_H limit for the high hazard bin (i.e., do not exceed 1.0 m). However, this also means that 29 percent of the predicted D_H values exceed 1.0 m, or are found in the very high hazard bin for this unit, which is still a significant percentage of the distribution. Thus, this remaining percentage of 29 percent might still justify this unit receiving a very high hazard ranking.

To be conservative, the project team decided to use an 85 percent non-exceedance (15 percent exceedance) threshold to assign the hazard level to a geologic unit. This threshold means that no more than 15 percent of the D_H values in a given unit can exceed the upper bin limit for the unit to be assigned that hazard level. For example, in the case of Figure 18, 29 percent of the D_H values exceed 1.0 m (i.e., are greater than the high hazard bin); thus, this unit does not meet the above criterion for the high hazard level. Therefore, this unit would be assigned to the highest hazard level where the criterion is true (e.g., very high hazard). Similarly, Figure 19 shows the cumulative non-exceedance histogram for the Qlaly and Qly units on the west side of Salt Lake Valley. In this case, 19 percent of the D_H values exceed the low hazard upper limit; thus this unit does not meet the criterion for this level. The unit was assigned to the moderate hazard level, where 0 percent of the data exceed the upper limit for this bin. This process of hazard level categorization was applied to all of the mapped units to produce the final map shown in Figure 1 and 17. These maps are useful in identifying areas of high ground displacement potential and areas where additional site-specific geotechnical investigation and/or liquefaction mitigation are warranted.

The lateral spread hazard map shown in Figures 1 and 17 offers significant advantages and improvements over previously published maps for the Salt Lake Valley. First, the hazard zones delineated these figures are based on estimates of horizontal displacement caused by lateral spread; thus this map will be a better

predictor of liquefaction-induced damage to buildings, bridges and foundations. For comparison, the Anderson et al. (1986) map (Figure 13) only delineates liquefaction susceptibility (i.e., triggering of liquefaction); it does not inherently consider ground displacement and potential damage. Second, the limits of the liquefaction hazard zones have been better defined and the extent of the high hazard zone of Anderson et al. (1986) has been significantly reduced. Much of the northwestern part of the Salt Lake Valley in the Anderson et al. (1986) map (Figure 13) was designated as having a high liquefaction hazard. However, the lateral spread hazard map (Figure 17) has significantly reduced this zone and most of the area is now designated as having moderate to low lateral spread hazard. Third, the lateral spread hazard map was developed from a more extensive geotechnical subsurface database and updated geologic mapping, which will improve its reliability. Most of the geologic units in the mapped area have several boreholes that define the subsurface properties and lateral spread potential. This makes it possible to better quantify the hazard within a geologic unit and it is possible to develop a cumulative distribution of expected displacement for each unit (e.g., Figures 18 and 19). Analyses of this type provide insight regarding the stochastical variability of lateral spread within each unit. These types of analyses and distributions can also be used with probabilistic methods.

The liquefaction hazard mapping efforts in Utah will continue in future years by finishing the lateral spread hazard map for the southern half of Salt Lake County. Also, the project team plans to develop additional liquefaction hazard displacement maps for Davis, Weber, Utah and Cache Counties.

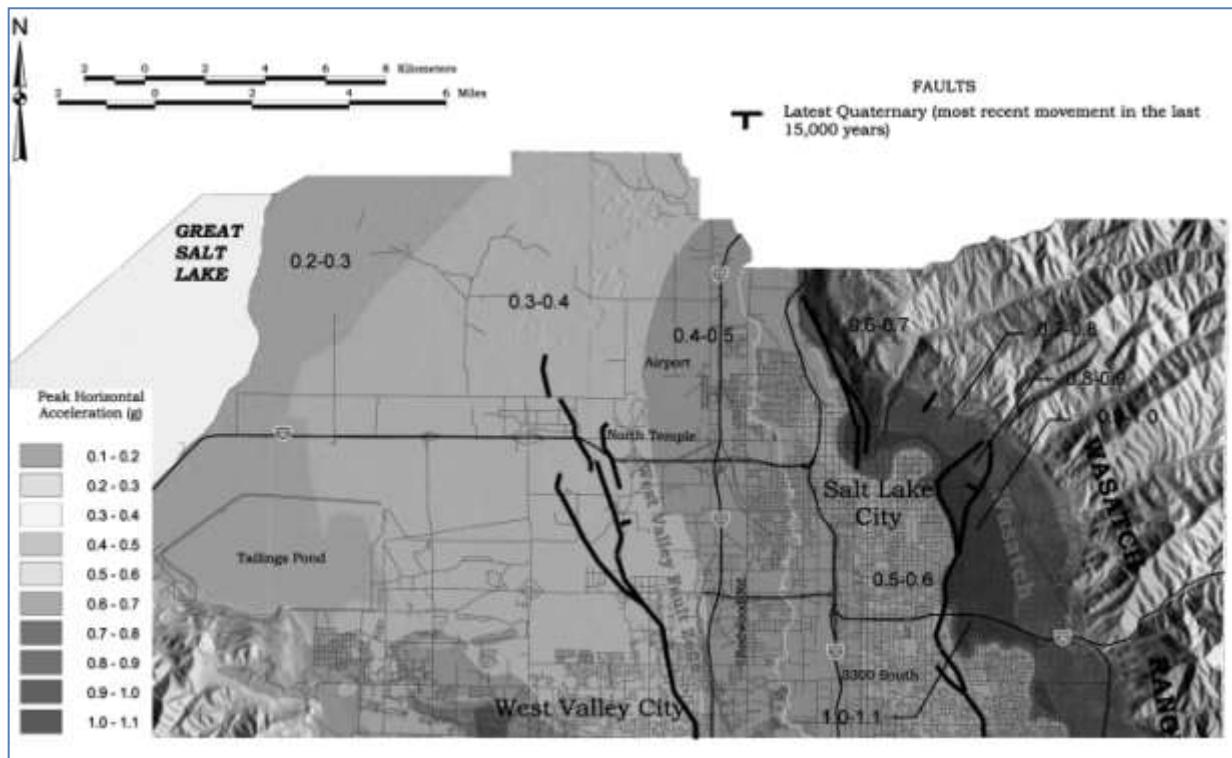


Figure 16. Estimates of peak ground acceleration (pga) for the northern Salt Lake Valley, Utah for a M7.0 scenario earthquake from Wong et al. (2002).

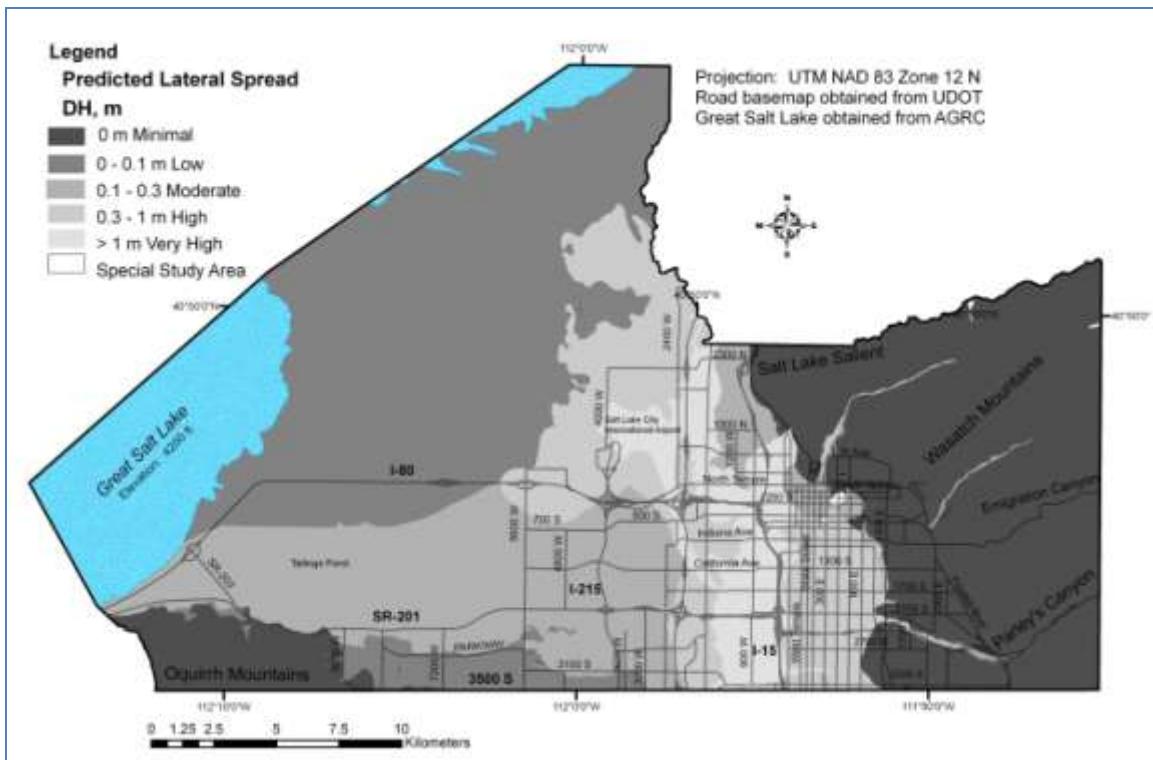


Figure 17. Lateral spread hazard map for the northern Salt Lake Valley, Utah.

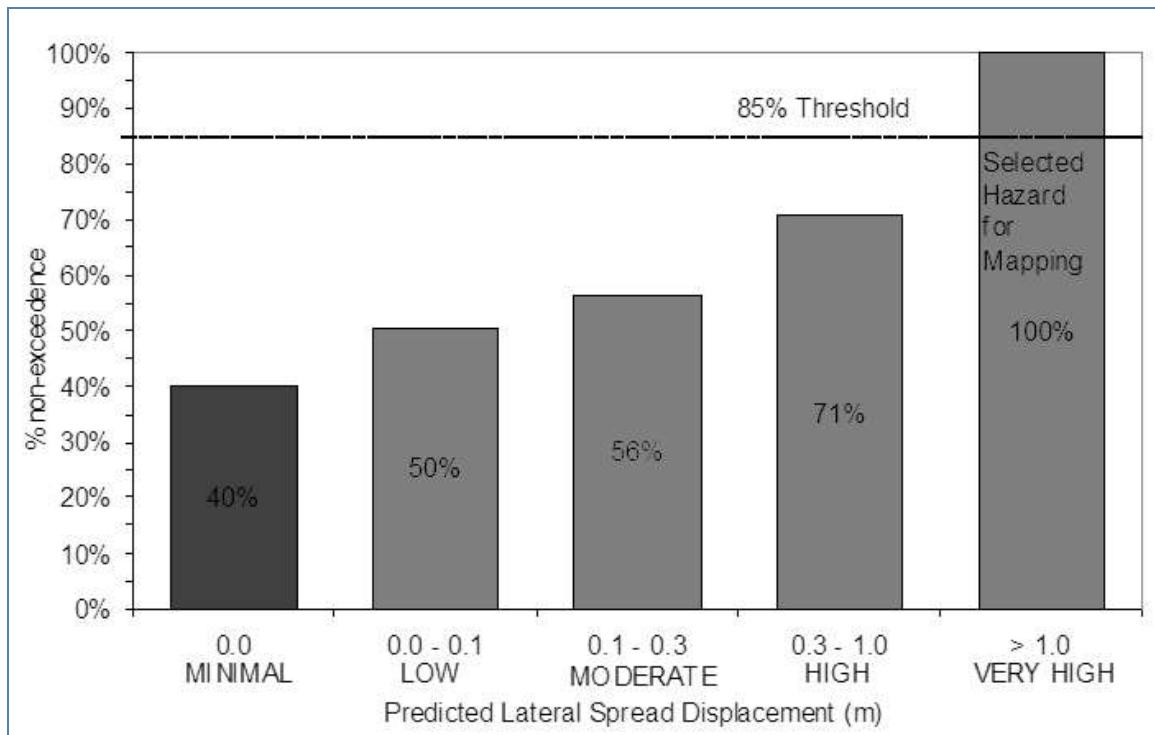


Figure 18. Cumulative histogram of non-exceedance percentages of DH values for the Qal1 unit.

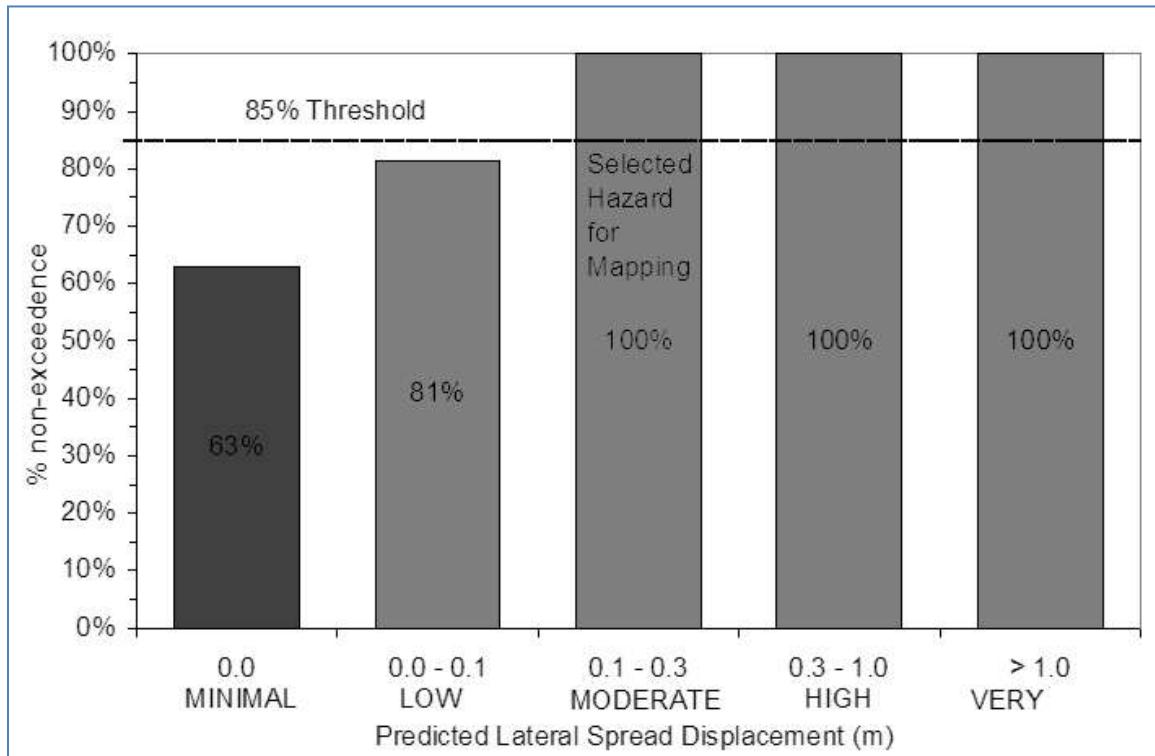


Figure 19. Cumulative histogram of non-exceedance percentages of DH values for the Qlaly and Qly units on the west side of Salt Lake Valley.

9 Synthesis of seismically induced ground displacement in Salt Lake City

Salt Lake Valley has not experienced an historic earthquake of sufficient intensity to produce surface faulting or trigger liquefaction-induced ground failure; however, prehistoric earthquakes have apparently done so (Osmond et al., 1965; Keaton and Anderson, 1995; Simon-Bymaster, 1999; Kleinfelder, 1999; Cotton, Shires and Associates, 1999). Previous geologic mapping and studies in downtown Salt Lake City have identified three areas of prehistoric ground failure (Figure 20): (1) clsp unit (lateral spread deposits – Holocene to middle Pleistocene) located between 300 East and 600 East and extending from South Temple Street to about 300 South, (2) clsp unit located between 200 East and 400 East and extending between 400 and 500 South, where the Old Metropolitan Hall of Justice was located (Osmond et al., 1965) and (3) ground displacement located at the Salt Palace Convention Center (SPCC) Expansion Project (Simon-Bymaster, 1999; Kleinfelder, 1999; Cotton, Shires and Associates, 1999).

The ground displacement features at the SPCC are the most extensively studied; their causal mechanism(s) are somewhat controversial (Simon-Bymaster, 1999; Kleinfelder, 1999; Cotton, Shires and Associates, 1999). A construction excavation for a buried parking structure uncovered vertical offsets and liquefaction dikes in Holocene alluvial fan deposits within the sidewalls of the excavation. As a result, construction was halted by Salt Lake County while their origins could be further studied (Simon-Bymaster, 1999; Kleinfelder, 1999; Cotton, Shires and Associates, 1999). Subsequent trenching and subsurface investigations revealed an approximate 220-foot wide zone of ground failure. The deformation was characterized by north-south trending grabens with vertical displacement of up to five feet and by sand and gravel-filled dikes trending in a northeast and northwest direction. Liquefaction features were also present at the site, as evidenced by sand and gravel-filled dikes (Simon-Bymaster, 1999).

However, mechanism(s) that produced the vertical offsets became disputed amongst the investigators. Some attributed them to ground failure associated with the head scarp and side margins of a liquefaction-induced lateral spread (Kleinfelder, 1999); others believed them to be tectonic faults associated with normal faulting in unconsolidated sediments at the southern terminus of the Warm Springs fault (Simon-Bymaster Inc., 1999). However, all investigators agreed that if lateral spread had occurred, it would have been restricted to a shear zone found at the base of the Holocene alluvium. This meant that displacement should not have disrupted the underlying Lake Bonneville sediments and Pleistocene alluvium.

To explore this hypothesis, all investigators chose the CPT as an exploration method to define the subsurface stratigraphy at the SPCC. A total of 37 CPT soundings were performed and used to correlate key marker beds in lacustrine deposits at locations in and around the construction area. These additional data suggested a north-south trending fault on the east side of the facility with about 2.7 m of vertical displacement of the lower Lake Bonneville sediments. This was taken as further evidence that tectonic faulting was

present at the site (Simon-Bymaster Inc., 1999); although collocated lateral spreading was also possible, because of the present of liquefaction features. Ultimately, three mechanisms were put forth to explain the features at the Salt Palace Expansion Project: (1) liquefaction induced lateral spread, (2) tectonic faulting, or (3) a combination of both mechanisms (Simon-Bymaster Inc., 1999). However, Kleinfelder (1999) solely ascribed the ground failure to mechanism (2).

Subsequently, similar ground displacement with vertical offset was observed in the excavation for the new Rose Wagner Performing Arts Center (David Simon, personal communication). This ground failure is located 1 block south of the SPCC (Figure 20) and is evidence that ground failure or fault zone extends to at least 300 South Street.

An additional ground failure has been mapped in the block bounded from west to east by 200 and 300 East Streets and from north to south by 400 and 500 South Streets, respectively (Figure 20). Geologic investigations were performed in this block during the 1960's when the foundation for the old Metropolitan Hall of Justice (MHJ) was being excavated (Osmond et al., 1965). (The MHJ has since been demolished and replaced by the new City Library). The Library block is located near the southern terminus of the City Creek Canyon alluvial fan and is just east of the mapped southern terminus of the Warm Springs fault (Figure 20). In addition, a sharp bend in the East Bench fault is located six blocks to the east (Figure 20).

The sidewalls of the foundation excavation at the MHJ revealed that the shallow sediments had been repeatedly “sliced” by faults with individual vertical displacements ranging from a few centimeters to two and a half meters (Osmond et al., 1965). The offsets occurred throughout the excavation, but were most numerous within a west trending zone exposed in several places near the middle of the excavation. A few liquefaction dikes were also observed where gravel and sand had risen along the “fault plane” and had been injected laterally between clayey silt beds (Osmond et al., 1965). Osmond et al. (1965) also noted that observed displacements were not restricted to a single period of faulting, but no attempt was made to date the displacements, other than estimating their age as either contemporaneous with the latest Pleistocene Lake Bonneville cycle or potentially post Bonneville (i.e., Holocene) in age.

Osmond et al. (1965) offered the following mechanisms for the ground displacement at the old MHJ site: (1) faulting directly related to bedrock faults, (2) differential settlement/compaction from earthquake strong motion, (3) non-seismic compaction processes and (4) earthquake triggered landslides. Osmond et al. (1965) favored the last mechanism and concluded that the displacements were probably caused by earthquakes that produced displacement in the unconsolidated deposits, which had become unstable as their environment changed from lacustrine to subaerial. Though they did not use the term “lateral spread,” this has been mapped as a liquefaction-induced lateral spread by subsequent mapping (Scott and Shroba, 1985). Osmond et al. (1965) also concluded that mechanisms (1) and (3) were unlikely because of the presence of liquefaction dikes.

Subsequently, Kleinfelder (1999) used the conclusions of Osmond et al. (1965) to support

their hypothesis that lateral spread had also occurred at the SPCC. This conclusion was drawn because of similarities in the ground failure at both locales. However, no deeper explorations (e.g., borings or CPT sounding) below the foundation excavation were done at the old MHJ site to confirm or reject the possibility that deeper sediments had been involved in the ground failure.

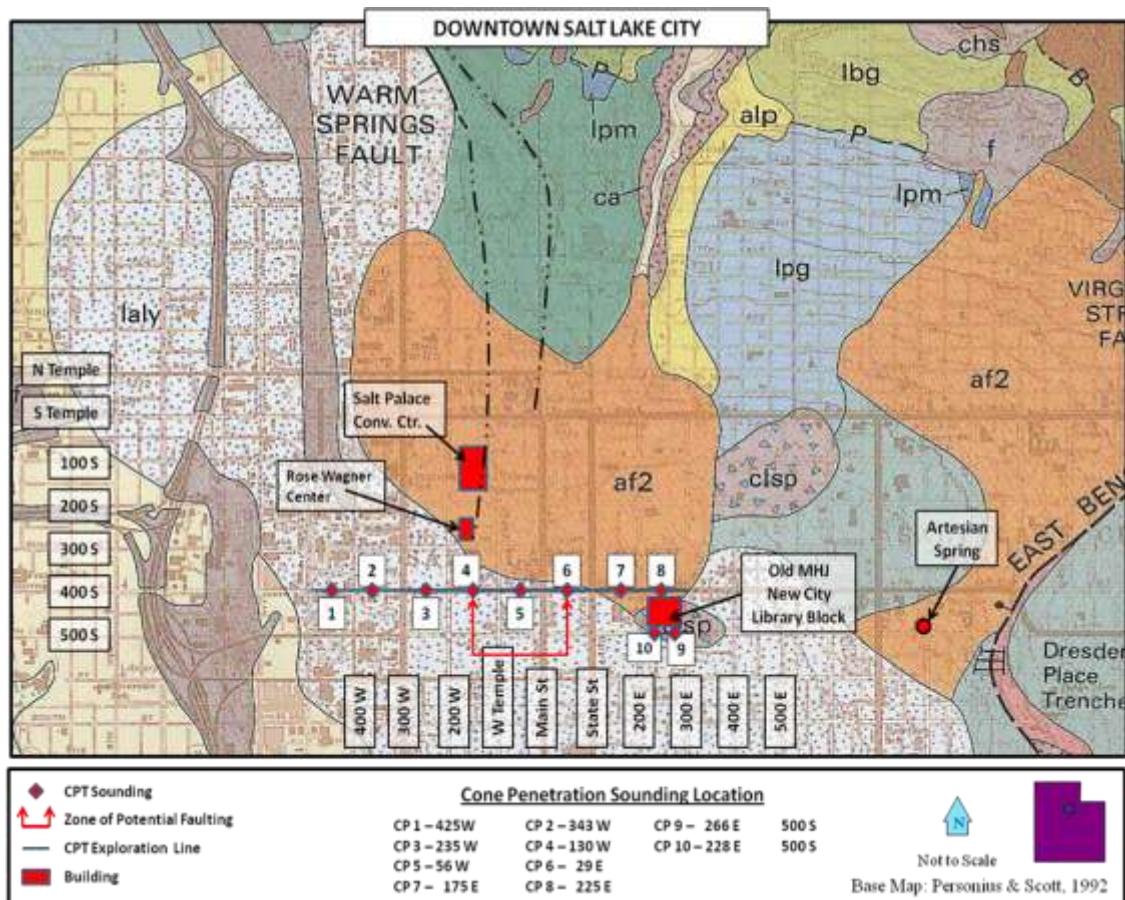


Figure 20. Geologic map of downtown Salt Lake City, Utah showing CPT locations and mapped areas of ground displacement (clsp units) (Geological mapping from Personius and Scott (1992); Scott and Shroba (1985)).

10 CPT subsurface investigations in downtown Salt Lake City

ULAG decided to perform additional subsurface investigations near the southern end of the Warm Spring fault to: (1) define the subsurface profile for stratigraphic correlation (2) delineate the boundaries of the ground displacement zone found near the southern terminus, (3) evaluate the potential for vertical offset (i.e., faulting) in deeper sediments and (4) perform liquefaction and lateral spread calculations for this area. The CPT was chosen for the explorations because of its continuous profiling capabilities, speed of operation, relatively low cost, and minimally invasive exploration and relatively low cost.

The CPT soundings were performed along a west-to-east line at approximately 1-block (i.e., 240 m) intervals to intersect any buried part of the Warm Springs fault near its southern end (Figure 20). In addition, we performed two soundings on 500 South Street to evaluate the mapped ground failure zone in this vicinity (Figure 20). The surface elevation for each sounding was measured using a Sokkia self-reading level. Accuracy of the surface elevations are 20 mm, or less, and were established relative to a permanent benchmark located on the I-15 alignment. In addition to our soundings, additional CPT soundings have been done along 400 South Street by the Utah Department of Transportation (UDOT) for the I-15 Reconstruction Project. These are located further to the west between 400 W Street and I-15 alignment (Figure 20). Furthermore, CPT soundings were also performed by Salt Lake City at the new City Library (i.e., old MHJ site). These additional CPT data were also gathered and evaluated, but are not presented, herein.

ConeTech of Salt Lake City, Utah performed the CPT soundings on August 23 to 24 and September 8, 2006, with a truck mounted rig using a 20-ton compression type cone capable of recording soil parameters at 50 mm intervals. The street pavement at each test location was cored and removed prior to advancement of the probe. Soil measurements including tip resistance, sleeve friction and shear-induced pore pressure were recorded and displayed on an on-board computer while the cone was advanced. The data was stored for later processing and evaluation.

Our experience on other projects has shown that the CPT is an extremely good stratigraphic profiler, especially in thinly bedded, relatively continuous units, such as lacustrine sediments. In general, higher values of tip stress indicate relatively stiff sediments such as gravels, sands or non-plastic silts; likewise lower tip stress values indicate plastic silts and clays (Figure 21). In addition, these traces can be used for stratigraphic correlation for units with horizontal continuity. Identification of potential vertical offset is accomplished by strategic placement of CPT sounding, surveying of the surface elevation at each location and performing stratigraphic correlation between the various soundings by interpreting the CPT traces.

In developing the stratigraphic profile along 400 South Street, we correlated our major soil units with those of Osmond et al. (1965) and Personius and Scott (1992) so that this

work could be directly compared with these sources. Because we placed CPT soundings on the north side and the south side of the Library block, this allowed used to directly compare the CPT tip traces with the stratigraphy developed by Osmond et al. (1965) (Figure 21 and Table 3). In addition to the plotted tip measurements, sleeve resistance and pore pressure measurements (not plotted) provided additional information for stratigraphic correlation and engineering analyses. To develop the soil profile shown in Figure 22, the CPT traces were positioned by elevation and we correlated the units by picking the top of each soil layer and/or marker bed and connecting these “picks” from sounding to sounding (Figure 22). In addition, we tried to preserve the local dip of the beds from sounding to sounding, so as not to overestimate the amount of any potential vertical offset.

The interpreted cross-section presented in Figure 22 suggests potential ground displacement zone(s) located between CP-3 and CP-4 and between CP-4 and CP-5. Key marker beds at the base of LBF₂ and UBF₁ units have a significant change in elevation from west to east between CP-3 and CP-4, and CP-4 and CP-5 that is not easily explained by a localized increase in dip in the beds for lacustrine deposits; thus tectonic related faulting may exist between these soundings (Figure 22 and Table 4). The potential offset shown in this figure has been drawn as a single fault between the respective sounding; however, in reality the vertical displacement(s) are probably distributed across a fault zone that is several tens of meters wide, as occurred at the SPCC (Simon-Bymaster, 1999). More soundings are needed in this area to determine the actual distribution of these potential offsets.

The data suggests that the vertical offset interpreted in Figures 22 is related to normal faulting associated with the southern end of the Warm Springs fault for the following reasons: (1) The vertical offset(s) has apparently displaced all layers in the profile to a minimum depth of at least 25 m. This is consistent with tectonic faulting that originates in the bedrock and propagates upward through unconsolidated sediments. In contrast, vertical offset associated with a head scarp of a lateral spread usually has a basal shear zone and sediments below this zone are not disrupted. Such basal shearing does not appear to be the case at this location, but deeper exploration would confirm the continuation of the vertical offset to greater depths. (2) The Lake Bonneville sediments have increased in thickness on the west side of the potential fault zone. This suggests that some of the faulting is syndepositional with Lake Bonneville sediments, and the faulting has changed the nature of the sediments in the vicinity of the fault. This thickening pattern is consistent with deposition on the down dropped side of a normal fault. However, faulting of the uppermost Lake Bonneville sediments has also apparently occurred, suggesting that more than one faulting event at this location. (This latter conclusion is consistent with that made for the SPCC where more than one event was inferred by Simon-Bymaster (1999) at this location.) (3) The potential fault zone located between CP-3 and CP-4 is on trend with previous faulting inferred at the SPCC (Simon-Bymaster, 1999), Rose Wagner Theater and the mapped trace of the Warm Springs fault (Scott and Shroba; 1985).

Thus, the interpreted results of the CPTU traces in Figure 22 provide additional evidence

of potential faulting along the Warm Springs fault in downtown Salt Lake City. Such faulting appears to extend to at least 400 South Street. However, due to the relatively large spacing between the CPT soundings, the distribution and mapped extents of the fault zone cannot be completely inferred. We recommend more soundings between CP-3 to CP-5 to better confirm and define the location, distribution, extent and depth of these offsets.

In addition, we also performed one CPT sounding (CP-8) on the north side (400 South Street) and two soundings (CP-9 and CP-10) on the south side (500 South Street) around the old MHJ site to confirm the stratigraphy in this area. Important to our study was the description of a “gravel bar,” which Osmond et al. (1965) attributed to Pleistocene-age, pre-Bonneville sediments of the Alpine Formation (see unit Qad/Qac in Table 3). At the MHJ, this gravelly and sandy unit is about 7 meters thick and according to Osmond et al. (1965) decreases in thickness in both the north and south directions. They describe the “gravel bar” as the most heavily fractured and faulted layer at the MHJ site. In addition, a contemporaneous report by Bauman (1965) shows the approximate lateral extent of the “gravel bar” (Figure 23).

We observed that the “gravel bar” at the MHJ is stratigraphically higher than similar pre Lake Bonneville Pleistocene gravels found just one block to the west along 400 South Street. In this direction, the gravelly sediments are found at a depth of about 10 m (see CP-7, Figure 22). However, a fence diagram of a trench at the south end of the MHJ excavation located just north of 500 South Street by Osmond et al. (1965) (Figure 24) shows the Alpine Formation gravels (unit Qac) (Table 3) at a depth of only 4.5 m. In addition, Figure 24 shows unit Qac faulted against upper Lake Bonneville sediments (unit Qbg) and lower Lake Bonneville Sediments (unit Qbb). Osmond et al. (1965) give no explanation of the faulting at this particular locale; but presumably they attributed its origin to earthquake-triggered landsliding (i.e., lateral spread), which was their general hypothesis regarding the ground failure in this block. However, we note that the vertical offset at this locale is at least 4 to 5 meters, when compared with the stratigraphic position of the same units seen in CP-8.

In addition, our two CPT soundings along 500 South Street (CP-9 and CP-10) show that the Alpine gravels are found at a depth of about 8 m (Figure 25), which is considerably deeper than was observed in the south end of the MHJ excavation located a few tens of feet to the north. Thus, there appears to be several meters of vertical offset in this unit in relatively short horizontal distances. Furthermore, sediments of relatively different ages and origins have been juxtaposed in an unexplained manner by Osmond et al. (1965) (Figure 24). Therefore, we conclude that more study of this area is warranted. We recommend CPT soundings be advanced on the east and west side of this block to further evaluate the extent and depth these offset(s) and/or the rapid changes in sediment type and possible erosion of much of the Lake Bonneville sequence.

In addition to evaluating potential ground failure/faulting in the downtown area, part of ULAG’s mapping charter is to evaluate the potential for liquefaction and lateral spread. The potential for future liquefaction along 400 South Street was evaluated using the CPT

methodology agreed upon at the NCEER (1997) workshop on evaluation of liquefaction resistance of soils. The liquefaction evaluations found in Appendix A were based on input peak ground acceleration (PGA) of 0.4 g based on scenario M7.0 earthquake for the Salt Lake Valley. The PGA value was selected from an earthquake planning scenario map for the Salt Lake City segment developed by the University of Utah Seismograph Station.

The depths to the groundwater were estimated using the pore pressure equilibrium readings from CP-1, CP-4, and CP-7. Groundwater depths for other CPT soundings were linearly interpolated between the respective soundings. Soil unit weights were assumed based on the CPT soil behavior chart developed by Robertson (1990) and typical values from the I-15 alignment (Bartlett and Ozer, 2005) (Table 5). In addition, soils with a soil behavior index (I_c) greater than 2.6 were screened from the evaluation because these soils are generally considered to be too plastic to liquefy (Gilstrap and Youd, 1998).

Our liquefaction calculations (Appendix A) show that many granular layers below the ground water table are potentially liquefiable; however the consequences of liquefaction (i.e., ground settlement and lateral spread displacement) are also dependent on the density, depth and continuity of the liquefied soils. For example, Bartlett and Youd (1992) concluded that lateral spread displacement occurs in relatively thick, T_{15} layers based on observations for case histories of liquefaction. They also noted that liquefiable layers less than 1 meter in thickness showed much less lateral spread (i.e., generally less than about 10 cm). Additionally, thin layers are not always continuous and continuity is a required condition to produce lateral spread. Thus, soils susceptible to lateral spread have an $(N_1)_{60}$ less than 15 (T_{15}) and soil and stratigraphic conditions meeting the criteria discussed above.

Based on the soil profile shown in Figure 22, it appears that some relatively thin layers within UBF₁ and UBF₂ are horizontally continuous between CP-3, CP-4, and CP-5 and meet the above criteria for lateral spread. However, other thin layers have a tendency to appear and disappear irregularly over this same distance.

Data collected by the CPT represents the soil behavior in response to the probe advancement through the soil column. While this is an efficient way to collect subsurface soil parameters in a minimally invasive fashion, the disadvantage is that soil samples are not retrieved and soil type and soil properties must be inferred. For CPT soundings, classification of the soils is based on the soil behavior type (SBT) and not the actual soil classification. Examination of borings performed in the library block (Kleinfelder 1999) and in South Temple Street for the I-15 reconstruction (Bartlett and Ozer, 2004) reveal that the soils that are potentially capable of generating lateral spread in UBF₁ and UBF₂ range from sandy silt to clayey sand. However, these soil classifications represent soil types that typically do not generate large amounts of lateral spread displacement. Non-plastic silts generally have relatively small lateral spread displacement (Bartlett and Youd, 1992) and clayey sands may be too plastic to liquefy. Thus, large lateral spread displacement of the thin layers within LBF₁ between CP-3, CP-4, and CP-5 is not

anticipated, nor elsewhere within the 400 South cross-section. Table 6 summarizes the anticipated liquefaction induced settlement for each CPT location in Appendix A. Liquefaction induced settlement is calculated by converting the cone tip resistance to an $(N_{1cs})_{60}$ value and using the CSRE to determine the amount of volumetric strain in a particular layer of the soil column according to the method developed by Tokimatsu and Seed (1986). The maximum estimated settlement is about 0.1 m or 4 inches (Table 6).

Appendix B shows the CPT versus depth plots for the CPT sounding performed during this investigation. Appendix C shows depth plots and the liquefaction and ground settlement analysis for the calculations given in Appendix A. Appendix D shows other soil properties and the soil behavior type (SBT) predictions for the CPT data. Appendix E shows the strong motion estimates used for the liquefaction analyses and the soil profiles developed from the CPT data including the liquefaction zones. Appendix F shows the photographs taken during the CPT investigations.

Table 3 –Correlation of Stratigraphic Units along 400 South Street

Unit (top to bottom)	Age/Description	Symbol (This report)	Sedimentary Units of (Osmond et al., 1964)	Mapped Geologic Symbol (Personius and Scott, 1992)
Upper Bonneville Formation – Unit 3	Upper Pleistocene/clays and silts associated with final transgression of Lake Bonneville	UBF ₃	Qbh, Qbi, Qbg	Qlbpm
Upper Bonneville Formation – Unit 2	Upper Pleistocene/thinly bedded highly variable deposits associated with regression of Lake Bonneville following its high-stand	UBF ₂	Qbh, Qbi, Qbg	Qlbpm
Upper Bonneville Formation – Unit 1	Upper Pleistocene/thinly bedded clay/silt/minor fine sand associated with regression of Lake Bonneville following its high-stand	UBF ₁	Qbh, Qbi, Qbg	Qlbpm
Lower Bonneville Formation – Unit 2	Upper Pleistocene/clays and silts associated with deeper water deposits of Lake Bonneville	LBF ₂	Qbf	Qlbpm
Lower Bonneville Formation – Unit 1	Upper Pleistocene/clays and silts associated with deeper water deposits of Lake Bonneville	LBF ₁	Qbe, Qbd, Qbc, Qbb, Qba	Qlbpm
Alpine Formation 1 – Unit 1	Middle Pleistocene/alluvial gravels with interbedded silt	APF ₂	Qad/Qac	Afo
Alpine Formation 2 – Unit 2	Middle Pleistocene/interbedded alluvial silt and clayey silt	APF ₁	Qab	Afo

Table 4 – Estimate of vertical displacements along 400 South Street

Geologic Unit (bottom to top)	Displacement Number *	Displacement Amount (m)	
		CP-4/CP-5	CP-5/CP-6
APF ₁	0	NA	3.1
APF ₂	1	8.7	2.9
LBF ₁	2	7.5	3.0
LBF ₂	3	2.2	NA
UBF ₁	4	1.2	1.9
UBF ₂	5	0.9	2.3
UBF ₃	6	0.4	NA
Alluvium	NA	NA	NA

*Displacement was measured at the base of each unit.

Table 5 – Soil Descriptions and Properties for Liquefaction Evaluations

Geologic Unit	Total Unit Weight (kN/m ³) (Bartlett and Olzer (2005))	Description Based on Soil Behavior Type (Robertson, 1990)
Alluvium	20.5	Gravelly Sand/Stiff Fine-Grained Sand
UBF ₃	18	Silty Clay/Clay
UBF ₂ , UBF ₁	19	Silty Sand/Sand
LBF ₂	19	Silty Sand/Sand
LBF ₁	18	Silty Clay/Clay
LBF ₁ (Fine-Grained)	12.5	Sensitive Fines
APF ₂	20.5	Sand/Gravelly Sand
APF ₁	19	Silty Clay/Clayey Silt/ Clay

Table 6 - Summary Table

CP	Elevation (m)	GWT (m)	Settlement (m)
1	1290.3	2.37	0.06
2	1291.6	3.60	0.07
3	1294.6	4.82	0.06
4	1297.5	6.05	0.05
5	1298.7	5.34	0.11
6	1299.4	4.62	0.03
7	1300.5	3.91	0.05
8	1299.2	3.91	0.06
9	1299.1	3.00	0.03
10	1298.8	3.00	0.04

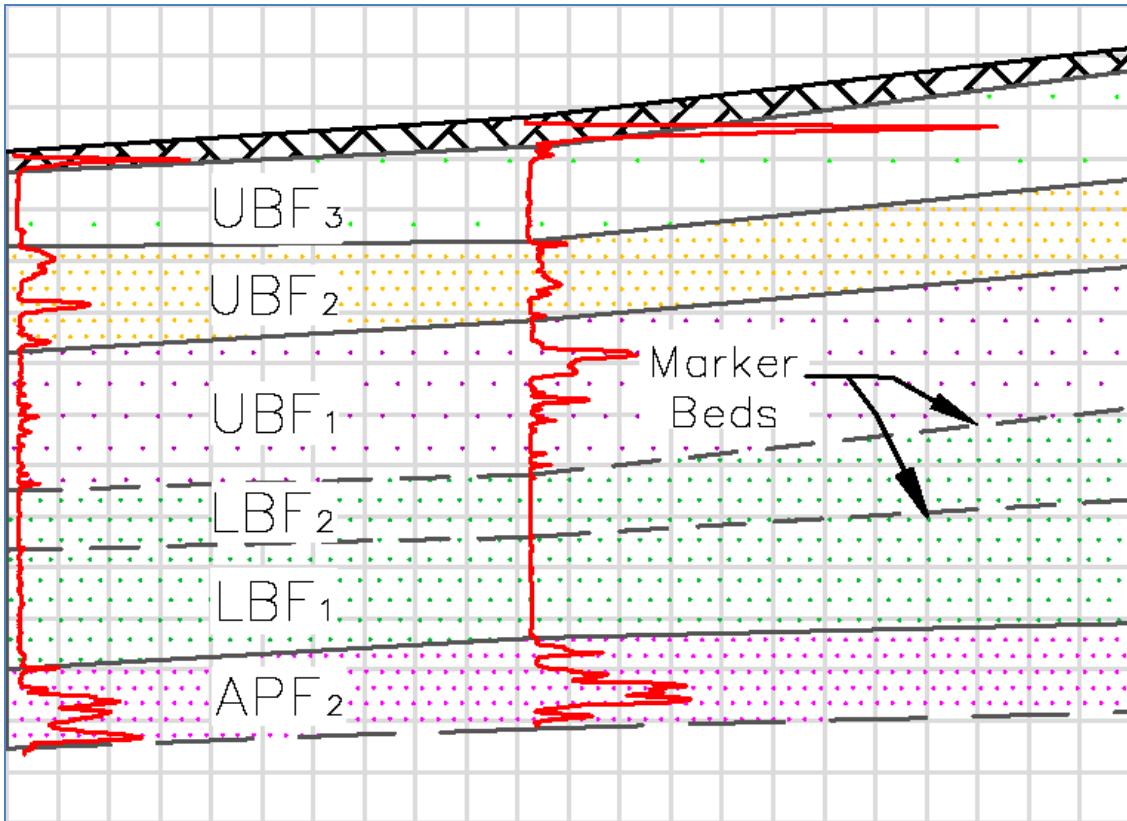


Figure 21 Stratigraphy of typical CPT sounding along from 400 South Street.

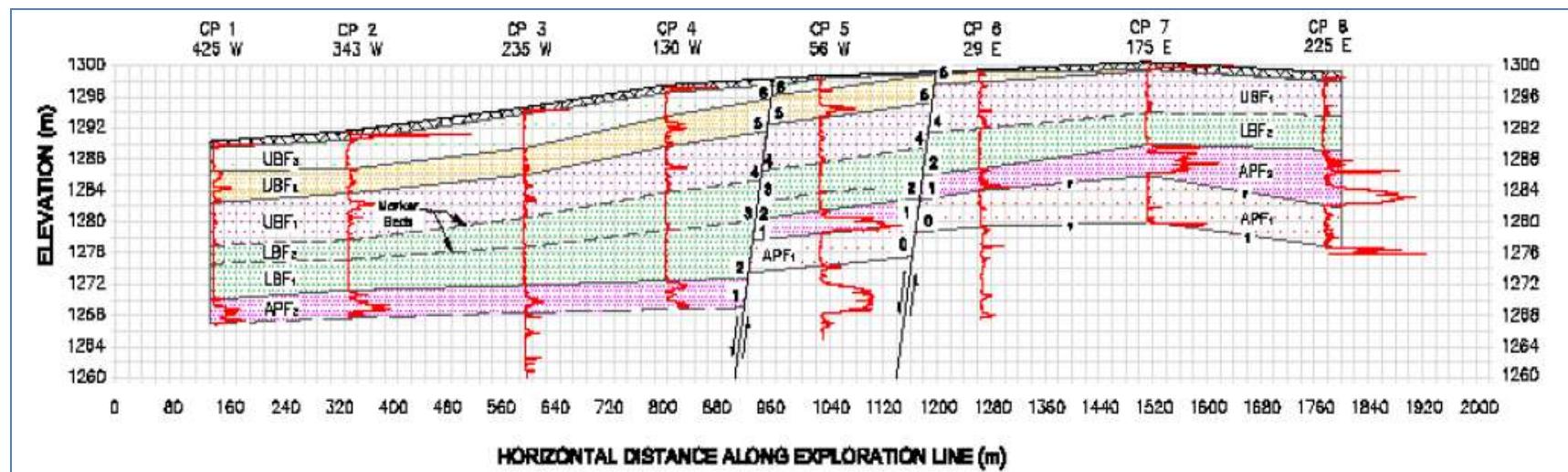


Figure 22. Interpreted cross-section of 400 South Street between 420 West and 225 East with possible fault zones between 130 West and 29 East.

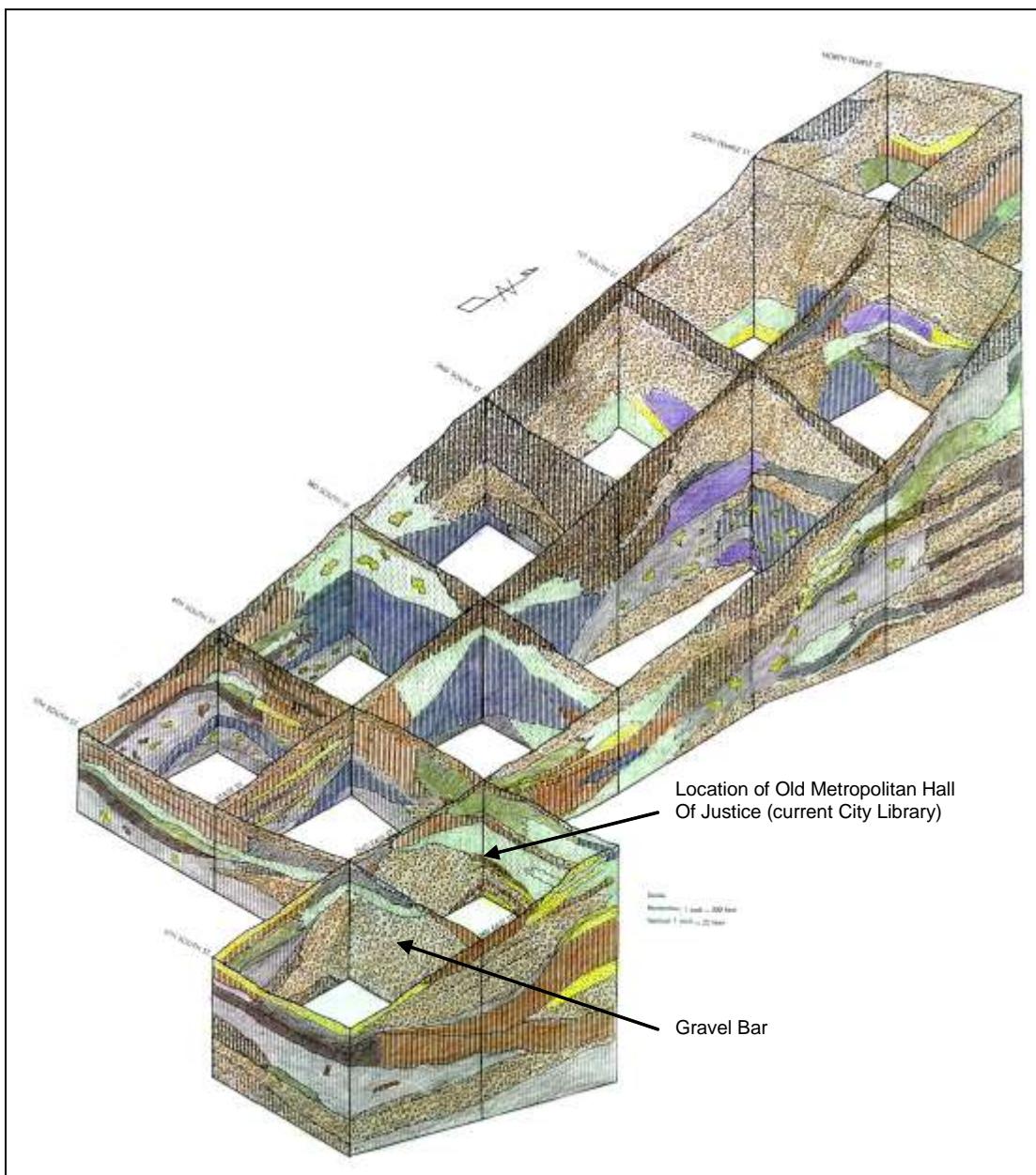


Figure 23. “Gravel Bar” at the Metropolitan Hall of Justice Site (after Bauman, 1965).

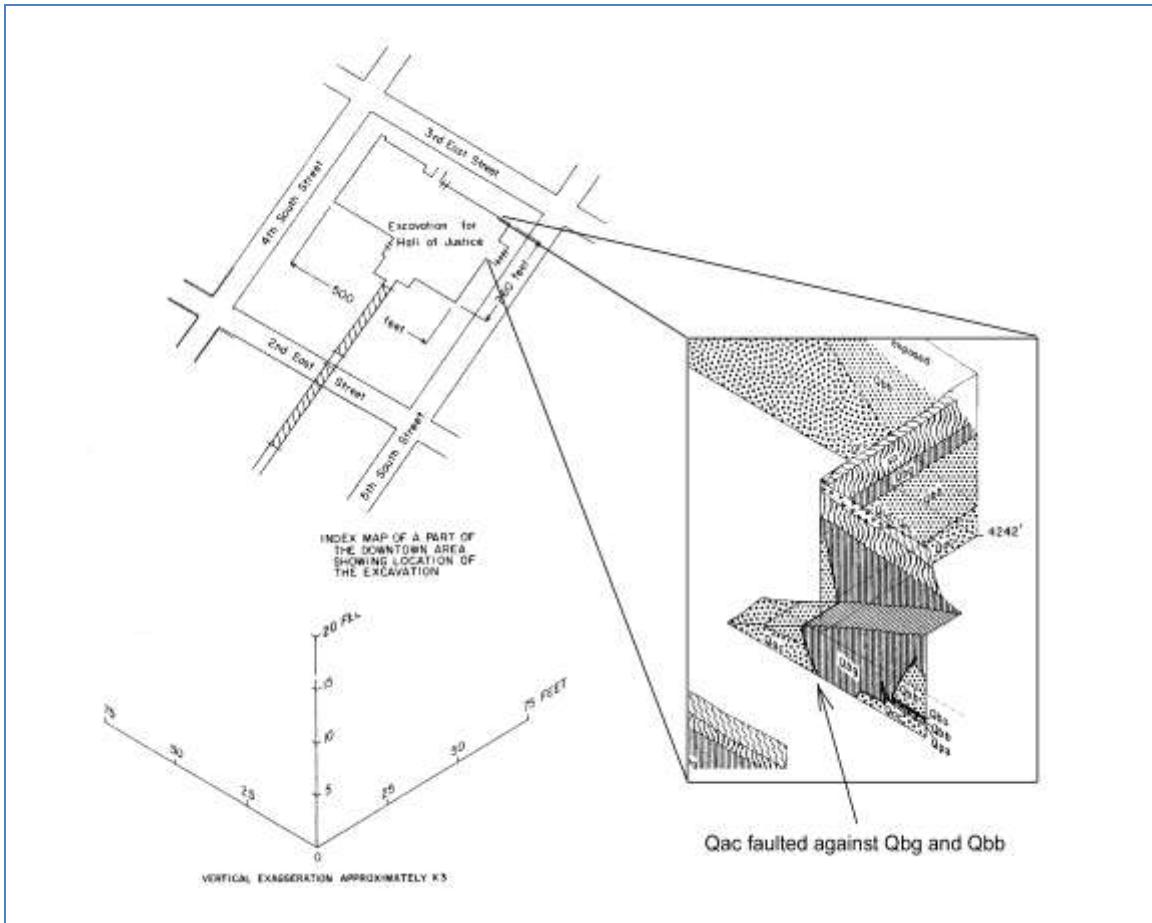


Figure 24. Portion of MJH fence diagram where unit Qac is shown faulted against upper Lake Bonneville sediments (unit Qbg) and lower Lake Bonneville Sediments (unit Qbb) after Osmond et al. (1965).

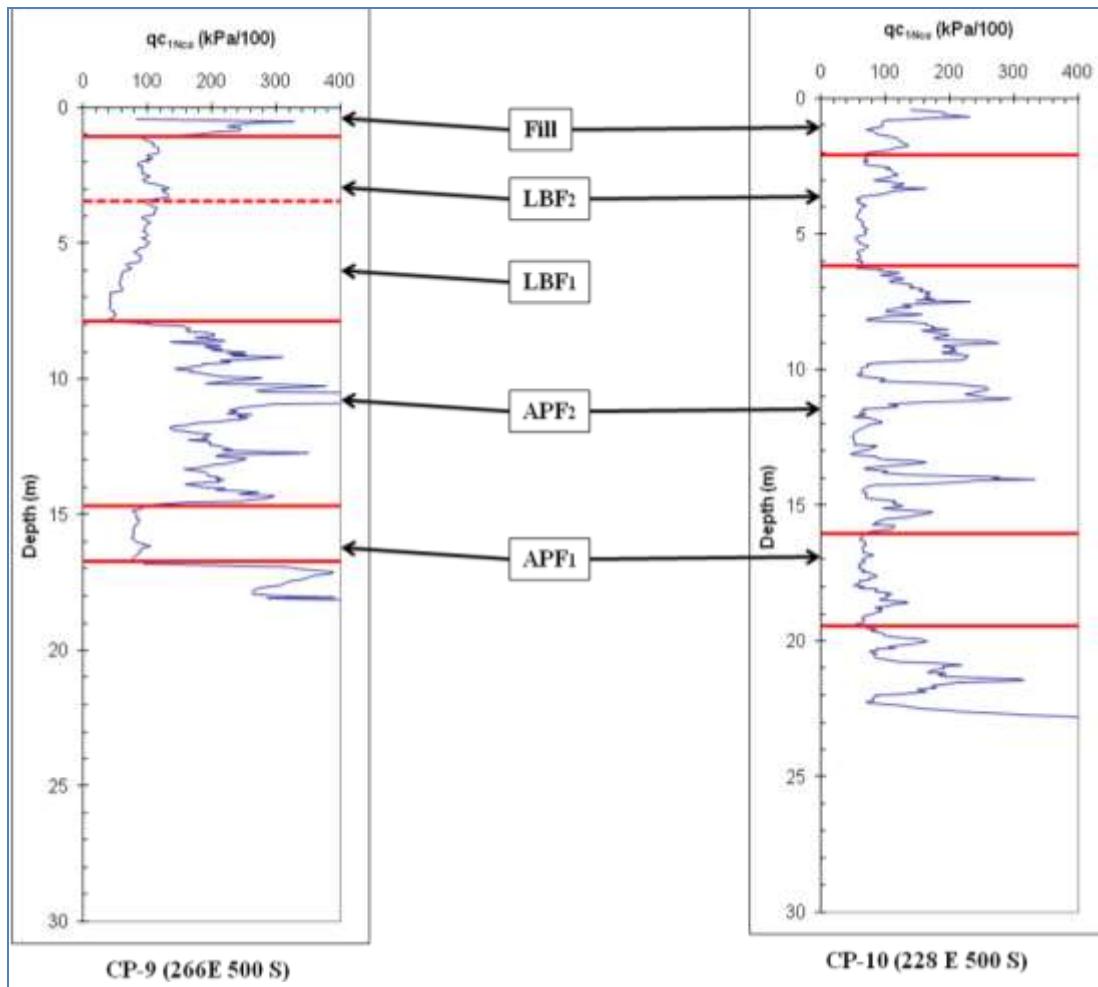


Figure 25. Plots of tip resistance versus depth for CP-9 and CP-10 including geologic stratigraphy.

References

- Anderson, L. R., Keaton, J. R., Spitzley, J. E., and Allen, A. C., 1986, "Liquefaction potential map for Salt Lake County, Utah:" Utah State University Department of Civil and Environmental Engineering and Dames and Moore, unpublished final technical report prepared for the U.S. Geological Survey, National Earthquake Hazards Reduction Program Award No. 14-08-0001-19910, 48 p.; published as Utah Geological Survey Contract Report 94-9, 1994.
- Ashland, F. X. and McDonald, G. N., 2003, "Interim map showing shear wave velocity characteristics of engineering geological units in the Salt Lake Valley, Utah metropolitan area:" Utah Geological Survey Open File Report 424, 43 p. pamphlet, scale 1:75,000, CD-ROM.
- Bartlett S. F., Olsen, M. J., and Solomon, B. J., 2005, "Lateral Spread Hazard Mapping of Northern Salt Lake County for a Magnitude 7.0 Scenario Earthquake," United States Geological Survey, USGS Award No. 04HQGR0026, 218 p.
- Bartlett, S.F., and Ozer, T., (2005). "Estimation of Consolidation Properties from In-Situ and Laboratory Testing," Utah Department of Transportation Research, Research Division, Report, 206 p.
- Bartlett, S. F., and Youd T. L., 1992. Empirical analysis of horizontal ground displacement generated by liquefaction-induced lateral spreads, Technical Report NCEER-92-0021, National Center for Earthquake Engineering Research, Buffalo, NY.
- Bauman, R. (1965). "Foundation Characteristics of Sediments, Salt Lake Metropolitan Area," Utah Geological and Mineralogical Survey, Special Study No. 10, 39 p.
- Biek, R. F., Solomon, B. J., Keith, J. D., and Smith T. W., 2004, "Interim geologic maps of the Copperton, Magna, and Tickville Spring Quadrangles, Salt Lake and Utah Counties, Utah:" Utah Geological Survey Open-File Report 434, scale 1:24,000.
- Biek, R. F., 2005, "Geologic map of the Jordan Narrows Quadrangle, Salt Lake and Utah Counties, Utah:" Utah Geological Survey Map 208, scale 1:24,000.
- Boulanger, R. W., and Idriss, I. M., 2004, "Evaluating the potential for liquefaction or cyclic failure of silts and clays," Technical Report UCD/CGM-04/01, Center for Geotechnical Modeling, University of California at Davis.
- Cetin, K. O., and Seed, R. B., 2001, " Nonlinear shear mass participation factor (r_d) for cyclic shear stress ratio evaluation," Research Report No. UCB/GT-2000/08, University of California, Berkeley.

Cotton, Shires and Associates Inc. (1999). "Final Geologic Peer Review, Salt Place Convention Center Expansion, Salt Lake City, Utah," July 30, 1999.

Electric Power Research Institute. "Manual on Estimating Soil Properties for Foundation Design." EPRI EL-6800, Project 1493-6, 1990.

Frankel, A., Petersen, M., Mueller, C., Haller, K., Wheeler, R., Leyendecker E. V., Wesson, R., Harmsen, S., Cramer, C., Perkins, D., and Rukstales, K., 2002, "Documentation for the 2002 Update of the National Seismic Hazard Maps," U.S.G.S. Open File Report 02-420.

Gilstrap, S.D., and Youd, T.L. (1998). "CPT based liquefaction resistance analyses evaluated using case histories." Technical Report CEG-98-01, Department of Civil and Environmental Engineering, Brigham Young University, Provo, Utah.

Keaton, J. R., and Anderson, L. R. (1995). "Mapping Liquefaction Hazards in the Wasatch Front Region: Opportunities and Limitations," Environmental and Engineering Geology of the Wasatch Front Region, Utah Geological Association Publication, 24, 1995.

Kleinfelder Inc. (1999). "Geologic Investigation Proposed Salt Palace Expansion II, Salt Lake City, Utah," prepared by Kleinfelder Associates, Feb. 26, 1999.

Kramer, S. L., 1996. Geotechnical Earthquake Engineering, 1st Ed., Prentice Hall, Upper Saddle River, New Jersey.

NCEER, 1997, "Proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils," Technical Report NCEER-97-0022, December 31, 1997.

Osmond, J. C., Hewitt, W. P., and Van Horn, R. V. (1965). "Engineering Implications and Geology, Hall of Justice Excavation, Salt Lake City, Utah," Utah Geological and Mineral Survey, Special Studies No. 11, 35 p.

Personius, S. F., and Scott, W. E., 1992, "Surficial geologic map of the Salt Lake City segment and parts of adjacent segments of the Wasatch fault zone, Davis, Salt Lake, and Utah Counties, Utah." U.S. Geological Survey Miscellaneous Investigations Map I-2106, scale 1:50,000.

Robertson, P.K., 1990, "Soil Classification Using CPT," Canadian Geotechnical Journal, Vol. 27 No. 1, p. 151-158.

Scott, W. E., and Shroba R. R. (1985). Surficial geologic map of an area along the Wasatch fault zone in the Salt Lake Valley, Utah: U.S. Geological Survey Open-File Report 85-448, scale 1:24,000, 18 p.

Simon, D. and Bymaster, W. (1999). "Report of Geologic Investigation, Salt Palace Convention Center Expansion Project, 100 South West Temple Street, Salt Lake City, Utah," prepared by SBI Geotechnical and Environmental Engineering, March 29, 1999.

Seed H.B. and Idriss I.M., 1971, "Simplified procedure for evaluating soil liquefaction potential," *J. Soil Mech. & Foundations Div.*, ASCE, 97(9), 1249-1273.

Seed, R. B., Cetin, K. O., Moss, R. E. S., Kammerer, A. M., Wu, J., Pestana, J. M., Riemer, M. F., Sancio, R. B., Bray, J. D., Kayen, R. E., and Faris, A., 2003, "Recent advances in soil liquefaction engineering, a unified and consistent framework," University of California, Berkeley, Earthquake Engineering Research Center, Report No. EERC 2003-06, pp. 71.

Seed, R. B., Chang, S. W., Dickenson, S. E., and Bray, J. D., 1997, "Site-dependent seismic response including recent strong motion data," Proc. Special Session on Earthquake Geotechnical Engineering, XIV International Conference on Soil Mechanics and Foundation Engineering, Hamburg, Germany, A. A., Balkema Publ., Sept. 6-12, pp.125-134.

Wong, I., Silva, W., Wright, D., Olig, S., Ashland, F., Gregor, N., Christenson, G., Pechmann, J., Thomas, P., Dober, M., and Gerth, R., 2002, "Ground-shaking map for a magnitude 7.0 earthquake on the Wasatch fault, Salt Lake City, Utah, metropolitan area," Utah Geological Survey Miscellaneous Publication MP 02-05, 50 p., Utah Geological Survey Public Information Series 76.

Youd, T. L., Idriss, I. M., Andrus, R. D., Arango, I., Castro, G., Christian, J. T., Dobry, R., Finn, W. D. L., Harder, L. F., Jr., Hynes, M. E., Ishihara, K., Koester, J. P., Liao, S. S. C., Marcuson, W. F., III, Martin, G. R., Mitchell, J. K., Moriwaki, Y., Power, M. S., Robertson, P. K., Seed, R. B., and Stokoe, K. H., II, 2001, *Liquefaction resistance of soils: summary report from the 1996 NCEER and 1998 NCEER/NSF workshops on evaluation of liquefaction resistance of soils*, Journal of Geotechnical and Geoenvironmental Engineering, ASCE, Vol. 127, No. 10, October, 2001, pp. 817-833.

Youd, T. L., Hansen, C. M., Bartlett S. F., 2002, "Revised Multilinear Regression Equations for Prediction of Lateral Spread Displacement," Journal of Geotechnical and Geoenvironmental Engineering, ASCE, December 2002, pp. 1007-1017.

Bibliography

Olsen, M. J., Bartlett, S. F. and Solomon, B. J., 2007, "Lateral Spread Hazard Mapping of the Northern Salt Lake Valley, Utah, for M7.0 Scenario Earthquake," *Earthquake Spectra*, Vol. 23, Number 1, pp. 95-113.

Attachment 1 – Paired CPT and SPT data

Site ID	Depth (m)	Average $Q_{c,unc}$ (kPa)	Average Sleeve (kPa)	Average $P_{pressure}$ (kPa)	Average Total Overburden Stress (kPa)	Average Effective Overburden Stress (kPa)	Average Corrected Tip Stress (kPa)	Average Normalized Friction Ratio, F (%)	Average Norm. Pen. Resistance, Q (unitless)	Average I_c	D_{50} (mm)	% Fines	SPT Blows (ft)	Soil Class
06 SC 120	4.6	1356	17	814	87	62	1478	1.36	21	2.55	4.00	20	63	GM
06 SC 122	4.9	1080	15	687	93	65	1183	1.51	15	2.68	2.00	24	26	SM
06 SC 122	7.6	2108	43	149	144	89	2131	2.21	22	2.67	1.10	18	217	SM
06 SC 134	1.5	1207	42	45	29	29	1213	3.71	41	2.57	0.30	17	45	SM
06 SC 134	6.1	1426	8	27	116	76	1431	0.62	17	2.44	1.25	19	147	SM
06 SC 134	9.1	1483	8	430	171	101	1548	0.61	13	2.56	2.50	13	32	SM
06 SC 142	3.0	7880	154	-18	57	47	7877	1.97	166	1.96	0.55	31	200	SM
06 SC 142	7.5	1389	2	931	142	88	1529	0.16	14	2.36	0.30	34	34	SM
06 SC 142	10.7	2250	29	195	200	114	2279	1.48	18	2.60	0.25	34	15	SM
06 SC 147	3.4	17652	97	-41	65	51	17646	0.55	346	1.34	0.28	33	24	SM
06 SC 147	6.4	1260	14	534	122	78	1340	1.15	14	2.66	3.25	9	17	SM
06 SC 163	2.9	16424	37	8	55	46	16426	0.22	354	1.08	7.00	14	51	GM
06 SC 168	4.6	1137	24	459	87	62	1206	2.52	17	2.76	0.70	7	38	SP- SM
06 SC 171	2.9	8630	137	-55	55	46	8621	1.86	185	1.89	2.50	18	30	GM
06 SC 171	5.9	1026	12	807	112	74	1147	1.34	12	2.73	2.75	18	31	GM
06 SC 172	1.4	12925	105	4	27	27	12925	0.83	483	1.38	1.25	22	26	SM
06 SC 172	4.4	2429	49	122	84	60	2447	1.87	39	2.42	1.50	19	24	SM

06 SC																
175	1.4	19539	247	18	27	27	19541	1.26	740	1.45	3.25	16	64	GM		
06 SC																
175	4.4	1355	14	679	84	60	1457	1.07	21	2.48	1.50	22	25	SM		
06 SC																
175	7.5	7401	227	176	142	88	7428	3.23	83	2.43	0.50	17	20	SM		
06 SC														SP-		
175	9.0	1769	15	699	169	100	1874	0.95	16	2.56	0.65	6	20	SM		
06 SC																
178	2.9	23817	127	-13	55	46	23815	0.53	514	1.21	1.50	19	26	SM		
06 SC														SP-		
178	5.9	1629	31	605	112	74	1720	2.00	20	2.67	0.90	19	24	SM		
06 SC														SP-		
178	9.0	3099	38	117	169	100	3116	2.17	29	2.63	3.00	11	31	SM		
06 SC																
179	2.9	19780	134	38	55	46	19786	0.67	427	1.34	0.55	28	18	SM		
06 SC																
179	7.5	2116	32	251	142	88	2154	1.56	22	2.55	0.70	15	34	SM		

Appendix A – Liquefaction and Lateral Spread Analyses

Appendix A contains the analysis calculations performed to determine liquefaction, liquefaction induced settlement and lateral spread potential for the zone of investigation. The spreadsheet developed to determine these factors is primarily based on the proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils. The top of each column in the spreadsheet contains a numerical value corresponding to the following number schematic: (Spreadsheet columns that are not based on the NCEER workshop contain the corresponding reference location).

1. Thin Layer Correction (Fig 7 pg 824) H=Thickness of Thin Layer (mm)
2. K_H Thin Layer Correction Factor (Eq. 20 pg 824)
3. Q_c with Thin Layer Correction (Fig 7 pg 824)
4. Depth of Penetration Below Ground Surface
5. Uncorrected Tip Resistance (kPa)
6. Sleeve Resistance (kPa)
7. Pore Pressure (kPa)
10. Moist Unit Wt (kN/m^3) – Assumed Based on SBT
11. Effective Unit Wt (kN/m^3)
12. Change of Stress per Test Increment
13. Change of Effective Stress per Test Increment
14. Vertical Overburden Stress
15. Effective Vertical Overburden Stress
16. Tip Resistance Corrected for Area Cone Ratio
17. Dimensionless CPT Tip Resistance (Eq 15 pg 822)
18. Soil Behavior Type Index Based on $n=0.5$
19. Equation 16
- 20 Through 28 Reference Procedure at the End of pg 822 and Beginning of pg 823
29. K_c Correction Factor for Grain Characteristics (pg 823 Equation 19a and 19b)
30. Equivalent Clean Sand Tip Resistance (pg 823 Eq 18)
31. SPT Value Approximately Equal to the Tip Resistance (Reference Fig 2-30 of Manual on estimating Soil Properties for Foundation Engineering – EPRE EL – 6800 Aug 1990)
32. r_d Stress Reduction Coefficient (pg 819 Eq 3) - Note: Values Below 15m not Verified by Case History Data
33. CSRE Cyclic Stress Ratio (pg 818 Eq 1)
34. K_m Magnitude Scaling Factor (pg 827 Eq 24)
35. Used to Account for Nonlinearity between CRR and Effective Overburden Pressure (Commentary pg 828)

36. Checks that (35) is 1 or Less (Provides for Conservatism) – Reduction Factor for Liquefaction Resistance
37. Calculated Using Equations 11a and 11b
38. For Graphical Purposes this assigns a Value of 99.9 to Soil That is Not Expected to Liquefy Based on the Analysis
39. Factor of Safety against Liquefaction (pg 23 Eq 23 – MSF Was Applied to CRR_{7.5} Previously)
40. Uses the Same Relationship as (31) With the Exception of Using Clean Sand. Rounds Values for VLOOKUP From Strain Table
41. Anticipated Percent Strain Based on Strain Table
42. Anticipated Settlement Per Measured Increment Based on Strain Table, (N₁)₆₀ and CSRE Values
43. Plastic or Granular Classification of Soils

Calculations for CP-3 begin on page 32. Included with the calculations are ancillary test information such as test date, location, date of analysis, and who performed the analysis. The calculations for this test are to provide sample calculations corresponding to the column numbers previously described.

The NCEER workshop included in its summary report a correction for cone penetration resistance for thin soil layers. The purpose of the correction is to correct for an influenced CPT tip resistance that is influenced by softer soil layers above or below the cone tip. The result of this type of layering is a decreased CPT tip reading, and the amount of the reduction of penetration resistance in soft layers is a function of the thickness of the softer layer and the stiffness of the stiffer layers.

When a thin layer correction is not included the density of the granular soil will appear lower than it is in reality. Thus, when an analysis is performed on the data, the resulting prediction of liquefaction resistance will likely be lower than it would in reality be. Section A-4 is a comparison of four plots ((N₁)₆₀ versus depth

and FS against Liquefaction versus depth) on the data for CP-3, where one set has a thin layer correction, and the others do not. The comparison demonstrates that the thin layer correction does impact the results of the analysis, however in this case the differences were insignificant, and did not affect the outcome of the overall interpretation.

It is interesting to note that when the correction is applied to the layer, the point of minimum factor of safety, or low $(N_1)_{60}$ value will increase, however, the zone around the corrected value tended to decrease, thus resulting in a less conservative result – and increased amount of liquefying soils and potentially lateral spreadable soils.

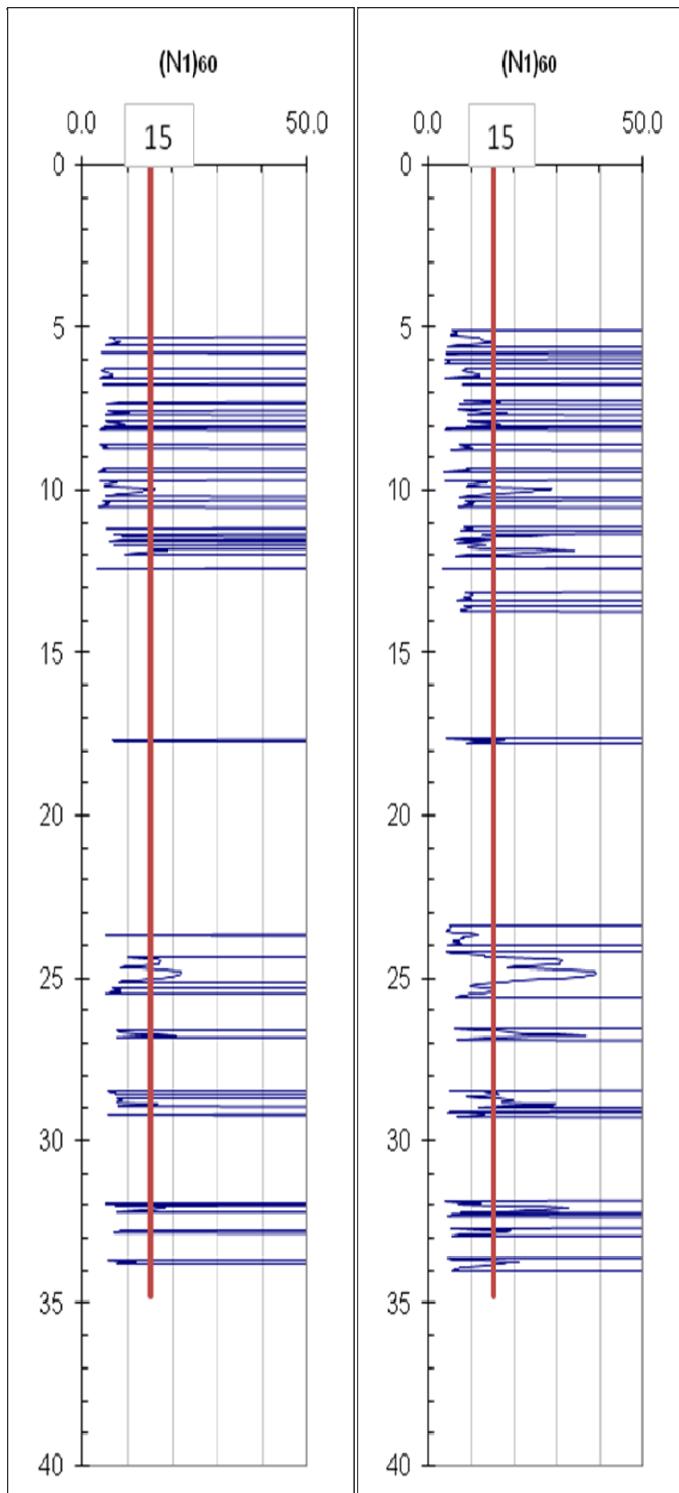


Figure 7 – Example of effects of Thin Layer Correction on $(N_1)_{60}$ Blowcounts versus Depth

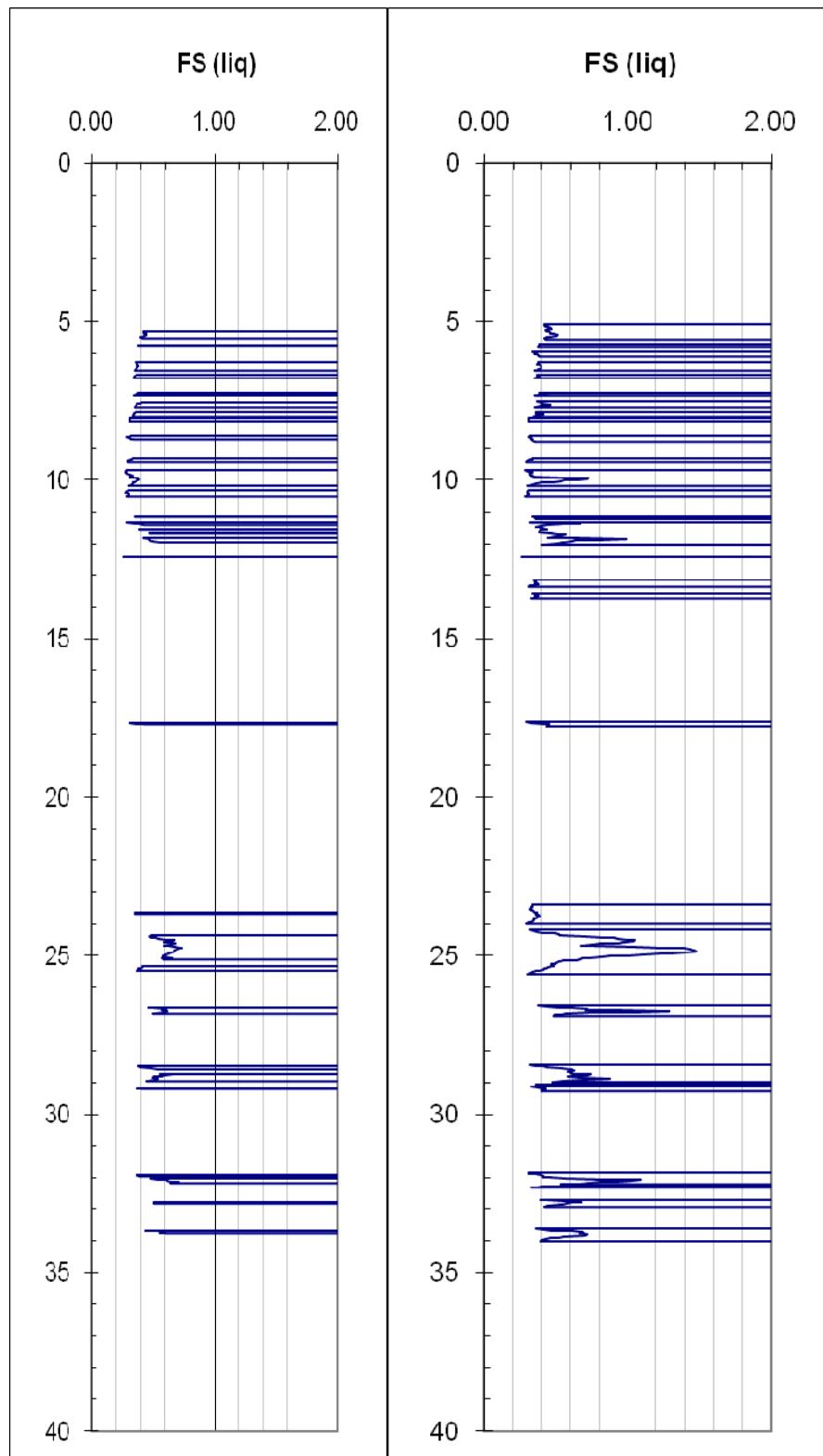


Figure 8 – Example of effects of Thin Layer Correction on Factor of Safety versus Depth

	A	B	C	D	E	F	G	H	I	J
1										
2	Project:	400 South Fault Investigation								
3	Location:	235 W 400 S								
4	Test No:	CP-3								
5	Date of Exploration:	8/23/2006								
6	Date of Analysis:	6/5/2008								
7	Engineer:	BTL								
8	*CHANGE ONLY VALUES IN RED									
9	1	2	3	4	5	6	7	10	11	12
10	Thin Layer Correction				Depth	q_c	f_s	u	γ	Δσ_v
11	H (mm)	K_H	q_c		(m)	(kPa)	(kPa)	(kPa)	(kN/m ³)	(kN/m ³)
12					0					
13	1	9680.15	0.225		9680.15	10.25	11.22	20.5	20.5	4.61
14	1	34075.8	0.25		34075.84	37.9	16.41	20.5	20.5	0.51
15	1	31536.8	0.275		31536.78	32.17	8.98	20.5	20.5	0.51
16	1	26489.2	0.3		26489.19	24.29	21.61	20.5	20.5	0.51
17	1	23107.9	0.325		23107.85	23.5	13.33	20.5	20.5	0.51
18	1	20190.4	0.35		20190.38	18.25	15.29	20.5	20.5	0.51
19	1	18774.4	0.375		18774.36	20.39	8.42	20.5	20.5	0.51
20	1	16192.6	0.4		16192.58	17.15	7.15	20.5	20.5	0.51
21	1	13708.5	0.425		13708.46	24.6	22.73	20.5	20.5	0.51
22	1	11145	0.45		11144.99	18.74	11.92	20.5	20.5	0.51
23	1	8697.49	0.475		8697.49	23.13	5.47	20.5	20.5	0.51
24	1	6750.47	0.5		6750.47	24.35	-0.28	20.5	20.5	0.51
25	1	4949.94	0.525		4949.94	27.83	0.7	20.5	20.5	0.51
26	1	3576.65	0.55		3576.65	31.68	-1.54	20.5	20.5	0.51
27	1	2581.78	0.575		2581.78	35.03	-0.28	20.5	20.5	0.51
28	1	1971.43	0.6		1971.43	36.01	11.92	20.5	20.5	0.51
29	1	1458.74	0.625		1458.74	32.35	10.24	20.5	20.5	0.51
30	1	1080.32	0.65		1080.32	27.65	26.66	20.5	20.5	0.51
31	1	988.77	0.675		988.77	18.92	35.63	20.5	20.5	0.51
32	1	885.01	0.7		885.01	15.69	37.88	20.5	20.5	0.51
33	1	970.46	0.725		970.46	14.22	48.96	20.5	20.5	0.51
34	1	1348.87	0.75		1348.87	14.71	53.59	20.5	20.5	0.51
35	1	1715.08	0.775		1715.08	14.47	51.77	20.5	20.5	0.51
36	1	1397.7	0.8		1397.7	14.47	31.43	20.5	20.5	0.51
37	1	1379.39	0.825		1379.39	15.2	29.74	18.0	18.0	0.45
38	1	1434.32	0.85		1434.32	16.05	25.25	18.0	18.0	0.45
39	1	1367.18	0.875		1367.18	16.72	20.9	18.0	18.0	0.45
40	1	1263.42	0.9		1263.42	19.29	16.13	18.0	18.0	0.45
41	1	1300.05	0.925		1300.05	20.63	8.56	18.0	18.0	0.45
42	1	921.63	0.95		921.63	20.45	8	18.0	18.0	0.45
43	1	836.18	0.975		836.18	20.81	10.66	18.0	18.0	0.45
44	1	775.14	1		775.14	16.54	11.64	18.0	18.0	0.45
45	1	701.9	1.025		701.9	10.07	11.92	18.0	18.0	0.45
46	1	701.9	1.05		701.9	9.77	14.45	18.0	18.0	0.45
47	1	762.94	1.075		762.94	11.35	21.04	18.0	18.0	0.45
48	1	781.25	1.1		781.25	11.47	22.87	18.0	18.0	0.45
49	1	903.32	1.125		903.32	12.57	10.8	18.0	18.0	0.45
50	1	769.04	1.15		769.04	13.37	7.15	18.0	18.0	0.45
51	1	665.28	1.175		665.28	14.95	4.35	18.0	18.0	0.45
52	1	653.07	1.2		653.07	20.63	2.24	18.0	18.0	0.45
53	1	714.11	1.225		714.11	20.2	4.35	18.0	18.0	0.45
54	1	634.76	1.25		634.76	16.66	4.63	18.0	18.0	0.45
55	1	646.97	1.275		646.97	13.85	3.93	18.0	18.0	0.45
56	1	848.39	1.3		848.39	12.82	5.47	18.0	18.0	0.45
57	1	1379.39	1.325		1379.39	13.49	2.81	18.0	18.0	0.45
58	1	1574.7	1.35		1574.7	11.47	-2.24	18.0	18.0	0.45
59	1	1928.71	1.375		1928.71	15.56	-1.4	18.0	18.0	0.45
60	1	1995.84	1.4		1995.84	16.6	0	18.0	18.0	0.45
61	1	1922.6	1.425		1922.6	13.79	1.68	18.0	18.0	0.45
62	1	1733.39	1.45		1733.39	14.95	-4.77	18.0	18.0	0.45
63	1	1635.74	1.475		1635.74	13.31	-5.05	18.0	18.0	0.45
64	1	1550.29	1.5		1550.29	13.79	0.7	18.0	18.0	0.45
65	1	1373.29	1.525		1373.29	13	0.14	18.0	18.0	0.45

	A	B	C	D	E	F	G	H	I	J
66	1	1220.7	1.55	1220.7	14.04	-0.7	18.0	18.0	0.45	
67	1	1092.53	1.575	1092.53	14.95	-0.42	18.0	18.0	0.45	
68	1	927.73	1.6	927.73	16.78	-0.56	18.0	18.0	0.45	
69	1	836.18	1.625	836.18	17.58	-0.7	18.0	18.0	0.45	
70	1	689.7	1.65	689.7	16.85	0	18.0	18.0	0.45	
71	1	592.04	1.675	592.04	4.94	2.1	18.0	18.0	0.45	
72	1	628.66	1.7	628.66	6.84	2.67	18.0	18.0	0.45	
73	1	622.56	1.725	622.56	7.75	2.67	18.0	18.0	0.45	
74	1	671.38	1.75	671.38	9.58	7.58	18.0	18.0	0.45	
75	1	628.66	1.775	628.66	12.02	6.73	18.0	18.0	0.45	
76	1	646.97	1.8	646.97	13.55	16.55	18.0	18.0	0.45	
77	1	726.32	1.825	726.32	14.95	22.45	18.0	18.0	0.45	
78	1	775.14	1.85	775.14	15.69	27.5	18.0	18.0	0.45	
79	1	762.94	1.875	762.94	16.6	26.66	18.0	18.0	0.45	
80	1	750.73	1.9	750.73	16.54	24.55	18.0	18.0	0.45	
81	1	708.01	1.925	708.01	15.5	22.87	18.0	18.0	0.45	
82	1	708.01	1.95	708.01	16.6	16.55	18.0	18.0	0.45	
83	1	689.7	1.975	689.7	16.42	20.48	18.0	18.0	0.45	
84	1	689.7	2	689.7	16.42	20.2	18.0	18.0	0.45	
85	1	714.11	2.025	714.11	17.58	17.96	18.0	18.0	0.45	
86	1	811.77	2.05	811.77	17.76	21.75	18.0	18.0	0.45	
87	1	817.87	2.075	817.87	18.92	24.41	18.0	18.0	0.45	
88	1	933.84	2.1	933.84	18.74	25.67	18.0	18.0	0.45	
89	1	933.84	2.125	933.84	20.08	27.08	18.0	18.0	0.45	
90	1	909.42	2.15	909.42	20.39	24.69	18.0	18.0	0.45	
91	1	897.21	2.175	897.21	17.64	22.03	18.0	18.0	0.45	
92	1	994.87	2.2	994.87	20.45	24.27	18.0	18.0	0.45	
93	1	1159.66	2.225	1159.66	28.99	24.55	18.0	18.0	0.45	
94	1	1342.77	2.25	1342.77	28.69	21.61	18.0	18.0	0.45	
95	1	1367.18	2.275	1367.18	31.19	12.77	18.0	18.0	0.45	
96	1	1153.56	2.3	1153.56	29.36	11.92	18.0	18.0	0.45	
97	1	1123.04	2.325	1123.04	30.94	12.91	18.0	18.0	0.45	
98	1	1086.42	2.35	1086.42	30.33	15.99	18.0	18.0	0.45	
99	1	1251.22	2.375	1251.22	28.93	18.38	18.0	18.0	0.45	
100	1	1153.56	2.4	1153.56	27.34	15.99	18.0	18.0	0.45	
101	1	1171.87	2.425	1171.87	26.31	20.2	18.0	18.0	0.45	
102	1	1171.87	2.45	1171.87	25.15	20.62	18.0	18.0	0.45	
103	1	1153.56	2.475	1153.56	24.35	22.31	18.0	18.0	0.45	
104	1	1190.18	2.5	1190.18	24.54	25.81	18.0	18.0	0.45	
105	1	1257.32	2.525	1257.32	24.72	27.22	18.0	18.0	0.45	
106	1	1214.6	2.55	1214.6	24.84	29.18	18.0	18.0	0.45	
107	1	1196.29	2.575	1196.29	24.78	34.51	18.0	18.0	0.45	
108	1	1159.66	2.6	1159.66	23.8	37.46	18.0	18.0	0.45	
109	1	1184.08	2.625	1184.08	23.01	38.58	18.0	18.0	0.45	
110	1	1080.32	2.65	1080.32	20.39	34.79	18.0	18.0	0.45	
111	1	1025.39	2.675	1025.39	19.04	35.35	18.0	18.0	0.45	
112	1	952.15	2.7	952.15	21.36	37.04	18.0	18.0	0.45	
113	1	885.01	2.725	885.01	25.57	41.25	18.0	18.0	0.45	
114	1	811.77	2.75	811.77	26.43	47.56	18.0	18.0	0.45	
115	1	854.49	2.775	854.49	26.18	58.78	18.0	18.0	0.45	
116	1	1129.15	2.8	1129.15	24.9	29.46	18.0	18.0	0.45	
117	1	1025.39	2.825	1025.39	23.8	26.66	18.0	18.0	0.45	
118	1	909.42	2.85	909.42	19.65	28.2	18.0	18.0	0.45	
119	1	915.52	2.875	915.52	17.52	31.43	18.0	18.0	0.45	
120	1	946.04	2.9	946.04	14.28	37.04	18.0	18.0	0.45	
121	1	952.15	2.925	952.15	11.78	43.35	18.0	18.0	0.45	
122	1	952.15	2.95	952.15	10.5	49.52	18.0	18.0	0.45	
123	1	952.15	2.975	952.15	11.41	56.12	18.0	18.0	0.45	
124	1	854.49	3	854.49	13.55	61.73	18.0	18.0	0.45	
125	1	775.14	3.025	775.14	16.3	65.94	18.0	18.0	0.45	
126	1	744.63	3.05	744.63	16.91	69.02	18.0	18.0	0.45	
127	1	720.21	3.075	720.21	17.09	70.01	18.0	18.0	0.45	
128	1	726.32	3.1	726.32	17.03	72.95	18.0	18.0	0.45	
129	1	805.66	3.125	805.66	16.48	74.22	18.0	18.0	0.45	
130	1	933.84	3.15	933.84	13.98	72.81	18.0	18.0	0.45	
131	1	982.66	3.175	982.66	13.49	69.73	18.0	18.0	0.45	
132	1	836.18	3.2	836.18	10.38	57.8	18.0	18.0	0.45	
133	1	726.32	3.225	726.32	10.99	54.29	18.0	18.0	0.45	
134	1	677.49	3.25	677.49	9.58	54.71	18.0	18.0	0.45	
135	1	659.18	3.275	659.18	9.95	56.68	18.0	18.0	0.45	

	A	B	C	D	E	F	G	H	I	J
136	1	598.14	3.3	598.14	8.79	58.08	18.0	18.0	0.45	
137	1	579.83	3.325	579.83	11.05	59.91	18.0	18.0	0.45	
138	1	561.52	3.35	561.52	13.98	61.03	18.0	18.0	0.45	
139	1	531	3.375	531	14.1	62.01	18.0	18.0	0.45	
140	1	482.18	3.4	482.18	13.73	62.57	18.0	18.0	0.45	
141	1	469.97	3.425	469.97	13.24	62.85	18.0	18.0	0.45	
142	1	457.76	3.45	457.76	12.88	63.27	18.0	18.0	0.45	
143	1	402.83	3.475	402.83	11.17	64.96	18.0	18.0	0.45	
144	1	421.14	3.5	421.14	8.91	66.36	18.0	18.0	0.45	
145	1	433.35	3.525	433.35	7.39	66.78	18.0	18.0	0.45	
146	1	463.87	3.55	463.87	7.02	68.88	18.0	18.0	0.45	
147	1	445.56	3.575	445.56	6.71	68.88	18.0	18.0	0.45	
148	1	415.04	3.6	415.04	6.47	70.01	18.0	18.0	0.45	
149	1	439.45	3.625	439.45	5.92	70.01	18.0	18.0	0.45	
150	1	408.93	3.65	408.93	5.25	70.01	18.0	18.0	0.45	
151	1	415.04	3.675	415.04	2.93	71.83	18.0	18.0	0.45	
152	1	427.24	3.7	427.24	3.91	73.93	18.0	18.0	0.45	
153	1	445.56	3.725	445.56	4.46	75.62	18.0	18.0	0.45	
154	1	433.35	3.75	433.35	4.52	77.72	18.0	18.0	0.45	
155	1	457.76	3.775	457.76	5.13	97.08	18.0	18.0	0.45	
156	1	439.45	3.8	439.45	6.16	104.24	18.0	18.0	0.45	
157	1	445.56	3.825	445.56	6.29	107.32	18.0	18.0	0.45	
158	1	402.83	3.85	402.83	6.77	105.5	18.0	18.0	0.45	
159	1	396.73	3.875	396.73	6.84	103.12	18.0	18.0	0.45	
160	1	402.83	3.9	402.83	5.92	105.36	18.0	18.0	0.45	
161	1	408.93	3.925	408.93	5.13	108.17	18.0	18.0	0.45	
162	1	445.56	3.95	445.56	4.94	110.69	18.0	18.0	0.45	
163	1	469.97	3.975	469.97	5.13	112.09	18.0	18.0	0.45	
164	1	439.45	4	439.45	5.37	111.25	18.0	18.0	0.45	
165	1	402.83	4.025	402.83	4.76	106.76	18.0	18.0	0.45	
166	1	427.24	4.05	427.24	5.43	101.57	18.0	18.0	0.45	
167	1	469.97	4.075	469.97	6.71	101.71	18.0	18.0	0.45	
168	1	506.59	4.1	506.59	7.45	105.64	18.0	18.0	0.45	
169	1	506.59	4.125	506.59	7.93	107.04	18.0	18.0	0.45	
170	1	518.8	4.15	518.8	9.16	110.27	18.0	18.0	0.45	
171	1	561.52	4.175	561.52	11.78	113.5	18.0	18.0	0.45	
172	1	585.94	4.2	585.94	14.1	115.32	18.0	18.0	0.45	
173	1	567.63	4.225	567.63	15.75	106.76	18.0	18.0	0.45	
174	1	537.11	4.25	537.11	17.76	92.17	18.0	18.0	0.45	
175	1	476.07	4.275	476.07	19.1	81.09	18.0	18.0	0.45	
176	1	500.49	4.3	500.49	20.02	78.28	18.0	18.0	0.45	
177	1	476.07	4.325	476.07	19.9	76.46	18.0	18.0	0.45	
178	1	457.76	4.35	457.76	18.62	78.14	18.0	18.0	0.45	
179	1	463.87	4.375	463.87	17.09	80.11	18.0	18.0	0.45	
180	1	463.87	4.4	463.87	16.36	81.09	18.0	18.0	0.45	
181	1	451.66	4.425	451.66	16.48	82.21	18.0	18.0	0.45	
182	1	457.76	4.45	457.76	15.87	84.6	18.0	18.0	0.45	
183	1	482.18	4.475	482.18	15.69	88.1	18.0	18.0	0.45	
184	1	518.8	4.5	518.8	15.2	93.58	18.0	18.0	0.45	
185	1	543.21	4.525	543.21	14.4	98.35	18.0	18.0	0.45	
186	1	549.31	4.55	549.31	14.77	101.57	18.0	18.0	0.45	
187	1	585.94	4.575	585.94	15.75	102.27	18.0	18.0	0.45	
188	1	549.31	4.6	549.31	15.44	104.24	18.0	18.0	0.45	
189	1	549.31	4.625	549.31	14.89	105.5	18.0	18.0	0.45	
190	1	524.9	4.65	524.9	12.94	106.9	18.0	18.0	0.45	
191	1	531	4.675	531	10.01	110.83	18.0	18.0	0.45	
192	1	543.21	4.7	543.21	11.35	115.04	18.0	18.0	0.45	
193	1	518.8	4.725	518.8	12.57	116.86	18.0	18.0	0.45	
194	1	488.28	4.75	488.28	11.96	121.49	18.0	18.0	0.45	
195	1	726.32	4.775	726.32	11.05	113.78	18.0	18.0	0.45	
196	1	659.18	4.8	659.18	11.11	105.78	18.0	18.0	0.45	
197	1	640.87	4.825	640.87	12.39	112.66	18.0	8.2	0.45	
198	1	598.14	4.85	598.14	12.33	126.26	18.0	8.2	0.45	
199	1	598.14	4.875	598.14	11.84	141.7	18.0	8.2	0.45	
200	1	592.04	4.9	592.04	10.99	149.55	18.0	8.2	0.45	
201	1	616.45	4.925	616.45	11.54	154.74	18.0	8.2	0.45	
202	1	622.56	4.95	622.56	12.57	157.27	18.0	8.2	0.45	
203	1	653.07	4.975	653.07	13.73	165.41	18.0	8.2	0.45	
204	1	695.8	5	695.8	12.76	172	18.0	8.2	0.45	
205	1	756.83	5.025	756.83	14.34	170.04	19.0	9.2	0.48	

	A	B	C	D	E	F	G	H	I	J
206	1	799.56	5.05	799.56	16.17	171.3	19.0	9.2	0.47	
207	1	946.04	5.075	946.04	19.29	172.98	19.0	9.2	0.48	
208	1	1165.77	5.1	1165.77	15.01	164.99	19.0	9.2	0.47	
209	1	1397.7	5.125	1397.7	14.04	126.97	19.0	9.2	0.48	
210	1	1452.63	5.15	1452.63	16.6	92.87	19.0	9.2	0.48	
211	1	1434.32	5.175	1434.32	21.36	65.8	19.0	9.2	0.47	
212	1	1287.84	5.2	1287.84	25.09	53.73	19.0	9.2	0.48	
213	1	1135.25	5.225	1135.25	26.49	49.38	19.0	9.2	0.47	
214	1	1135.25	5.25	1135.25	21.12	58.64	19.0	9.2	0.48	
215	1	1544.19	5.275	1544.19	18.07	72.81	19.0	9.2	0.48	
216	1	2343.74	5.3	2343.74	16.54	72.81	19.0	9.2	0.47	
217	1	2587.88	5.325	2587.88	17.82	51.49	19.0	9.2	0.48	
218	1	2667.23	5.35	2667.23	18.31	39.98	19.0	9.2	0.47	
219	1	2691.64	5.375	2691.64	20.81	34.93	19.0	9.2	0.48	
220	1	2929.68	5.4	2929.68	24.78	31.29	19.0	9.2	0.48	
221	1	3234.85	5.425	3234.85	25.39	28.9	19.0	9.2	0.47	
222	1	3320.3	5.45	3320.3	20.81	22.73	19.0	9.2	0.48	
223	1	3094.47	5.475	3094.47	10.44	13.61	19.0	9.2	0.47	
224	1	2667.23	5.5	2667.23	12.57	8.42	19.0	9.2	0.48	
225	1	2020.26	5.525	2020.26	16.91	5.05	19.0	9.2	0.48	
226	1	1483.15	5.55	1483.15	25.02	2.1	19.0	9.2	0.47	
227	1	982.66	5.575	982.66	20.81	-0.42	19.0	9.2	0.48	
228	1	885.01	5.6	885.01	20.45	1.96	19.0	9.2	0.47	
229	1	762.94	5.625	762.94	17.39	6.73	19.0	9.2	0.48	
230	1	671.38	5.65	671.38	12.88	9.54	19.0	9.2	0.48	
231	1	634.76	5.675	634.76	11.9	15.71	19.0	9.2	0.47	
232	1	640.87	5.7	640.87	12.94	22.03	19.0	9.2	0.48	
233	1	714.11	5.725	714.11	12.51	30.58	19.0	9.2	0.47	
234	1	964.35	5.75	964.35	11.78	38.44	19.0	9.2	0.48	
235	1	1629.63	5.775	1629.63	11.29	68.18	19.0	9.2	0.48	
236	1	1324.46	5.8	1324.46	11.6	49.24	19.0	9.2	0.47	
237	1	964.35	5.825	964.35	11.11	38.3	19.0	9.2	0.48	
238	1	701.9	5.85	701.9	9.64	35.63	19.0	9.2	0.47	
239	1	628.66	5.875	628.66	8.24	42.79	19.0	9.2	0.48	
240	1	604.25	5.9	604.25	6.53	52.75	19.0	9.2	0.48	
241	1	671.38	5.925	671.38	5.86	67.06	19.0	9.2	0.47	
242	1	787.35	5.95	787.35	4.64	85.02	19.0	9.2	0.48	
243	1	909.42	5.975	909.42	4.76	98.49	19.0	9.2	0.47	
244	1	1007.08	6	1007.08	7.26	113.22	19.0	9.2	0.48	
245	1	1037.59	6.025	1037.59	7.63	123.74	19.0	9.2	0.48	
246	1	1062.01	6.05	1062.01	10.86	134.54	19.0	9.2	0.47	
247	1	1062.01	6.075	1062.01	13.37	135.1	19.0	9.2	0.48	
248	1	891.11	6.1	891.11	14.28	118.55	19.0	9.2	0.47	
249	1	799.56	6.125	799.56	16.66	118.97	19.0	9.2	0.48	
250	1	683.59	6.15	683.59	17.88	114.76	19.0	9.2	0.48	
251	1	665.28	6.175	665.28	19.16	121.07	19.0	9.2	0.47	
252	1	622.56	6.2	622.56	16.72	133.98	19.0	9.2	0.48	
253	1	781.25	6.225	781.25	17.33	151.94	19.0	9.2	0.47	
254	1	1361.08	6.25	1361.08	20.32	179.86	19.0	9.2	0.48	
255	1	1922.6	6.275	1922.6	15.75	169.05	19.0	9.2	0.48	
256	1	2075.19	6.3	2075.19	11.23	99.89	19.0	9.2	0.47	
257	1	1812.74	6.325	1812.74	13.18	65.24	19.0	9.2	0.48	
258	1	1776.12	6.35	1776.12	13	57.1	19.0	9.2	0.47	
259	1	2117.91	6.375	2117.91	16.17	64.11	19.0	9.2	0.48	
260	1	2374.26	6.4	2374.26	19.47	67.34	19.0	9.2	0.48	
261	1	2569.57	6.425	2569.57	17.64	57.38	19.0	9.2	0.47	
262	1	2716.06	6.45	2716.06	15.01	49.1	19.0	9.2	0.48	
263	1	2716.06	6.475	2716.06	14.28	42.65	19.0	9.2	0.47	
264	1	2282.71	6.5	2282.71	13.79	35.49	19.0	9.2	0.48	
265	1	1837.15	6.525	1837.15	13.67	30.02	19.0	9.2	0.48	
266	1	1568.6	6.55	1568.6	10.74	27.78	19.0	9.2	0.47	
267	1	1177.98	6.575	1177.98	12.45	29.04	19.0	9.2	0.48	
268	1	878.9	6.6	878.9	13.85	30.58	19.0	9.2	0.47	
269	1	689.7	6.625	689.7	18.74	36.48	19.0	9.2	0.48	
270	1	689.7	6.65	689.7	18.68	51.49	19.0	9.2	0.48	
271	1	830.08	6.675	830.08	22.03	74.22	19.0	9.2	0.47	
272	1	1812.74	6.7	1812.74	17.03	111.25	19.0	9.2	0.48	
273	1	2911.37	6.725	2911.37	12.08	137.77	19.0	9.2	0.47	
274	1	2410.88	6.75	2410.88	9.7	78.28	19.0	9.2	0.48	
275	1	1837.15	6.775	1837.15	10.25	31.57	19.0	9.2	0.48	

	A	B	C	D	E	F	G	H	I	J
276	1	1318.36	6.8	1318.36	10.68	27.22	19.0	9.2	0.47	
277	1	1104.73	6.825	1104.73	9.77	25.11	19.0	9.2	0.48	
278	1	1025.39	6.85	1025.39	10.56	28.06	19.0	9.2	0.47	
279	1	854.49	6.875	854.49	10.25	34.09	19.0	9.2	0.48	
280	1	799.56	6.9	799.56	13	42.79	19.0	9.2	0.48	
281	1	860.59	6.925	860.59	14.4	52.89	19.0	9.2	0.47	
282	1	970.46	6.95	970.46	12.94	67.2	19.0	9.2	0.48	
283	1	1080.32	6.975	1080.32	9.4	88.53	19.0	9.2	0.47	
284	1	1074.22	7	1074.22	8.91	105.08	19.0	9.2	0.48	
285	1	964.35	7.025	964.35	6.84	107.47	19.0	9.2	0.48	
286	1	872.8	7.05	872.8	6.04	106.48	19.0	9.2	0.47	
287	1	726.32	7.075	726.32	6.59	108.03	19.0	9.2	0.48	
288	1	646.97	7.1	646.97	6.9	117.15	19.0	9.2	0.47	
289	1	622.56	7.125	622.56	8.3	133.84	19.0	9.2	0.48	
290	1	628.66	7.15	628.66	10.99	147.03	19.0	9.2	0.48	
291	1	781.25	7.175	781.25	15.01	167.37	19.0	9.2	0.47	
292	1	909.42	7.2	909.42	15.26	181.68	19.0	9.2	0.48	
293	1	1000.97	7.225	1000.97	21.79	176.91	19.0	9.2	0.47	
294	1	1940.91	7.25	1940.91	26.98	165.13	19.0	9.2	0.48	
295	1	3955.07	7.275	3955.07	28.63	165.55	19.0	9.2	0.48	
296	1	3393.55	7.3	3393.55	22.77	83.62	19.0	9.2	0.47	
297	1	2343.74	7.325	2343.74	15.62	47.84	19.0	9.2	0.48	
298	1	1715.08	7.35	1715.08	17.94	30.58	19.0	9.2	0.47	
299	1	1318.36	7.375	1318.36	11.05	25.39	19.0	9.2	0.48	
300	1	1196.29	7.4	1196.29	8.61	23.85	19.0	9.2	0.48	
301	1	970.46	7.425	970.46	11.84	26.66	19.0	9.2	0.47	
302	1	830.08	7.45	830.08	12.76	35.07	19.0	9.2	0.48	
303	1	848.39	7.475	848.39	17.88	52.19	19.0	9.2	0.47	
304	1	976.56	7.5	976.56	25.27	66.08	19.0	9.2	0.48	
305	1	1647.94	7.525	1647.94	24.66	86.28	19.0	9.2	0.48	
306	1	2484.12	7.55	2484.12	35.46	92.31	19.0	9.2	0.47	
307	1	2630.61	7.575	2630.61	34.67	67.2	19.0	9.2	0.48	
308	1	3149.41	7.6	3149.41	29.72	55.42	19.0	9.2	0.47	
309	1	4364	7.625	4364	22.83	53.31	19.0	9.2	0.48	
310	1	4406.73	7.65	4406.73	18.31	52.75	19.0	9.2	0.48	
311	1	3094.47	7.675	3094.47	25.27	38.02	19.0	9.2	0.47	
312	1	2227.78	7.7	2227.78	20.32	30.02	19.0	9.2	0.48	
313	1	1647.94	7.725	1647.94	20.2	26.23	19.0	9.2	0.47	
314	1	1202.39	7.75	1202.39	20.94	25.53	19.0	9.2	0.48	
315	1	1135.25	7.775	1135.25	20.51	89.79	19.0	9.2	0.48	
316	1	1068.11	7.8	1068.11	20.14	112.09	19.0	9.2	0.47	
317	1	1159.66	7.825	1159.66	20.08	155.59	19.0	9.2	0.48	
318	1	1593.01	7.85	1593.01	23.99	198.38	19.0	9.2	0.47	
319	1	2239.98	7.875	2239.98	25.63	226.01	19.0	9.2	0.48	
320	1	2636.71	7.9	2636.71	22.64	187.99	19.0	9.2	0.48	
321	1	3607.17	7.925	3607.17	19.78	141.7	19.0	9.2	0.47	
322	1	4083.24	7.95	4083.24	17.58	93.3	19.0	9.2	0.48	
323	1	3497.31	7.975	3497.31	18.37	65.66	19.0	9.2	0.47	
324	1	2709.95	8	2709.95	19.29	53.45	19.0	9.2	0.48	
325	1	2124.02	8.025	2124.02	21.3	49.52	19.0	9.2	0.48	
326	1	1739.5	8.05	1739.5	17.88	52.47	19.0	9.2	0.48	
327	1	1849.36	8.075	1849.36	10.93	71.41	19.0	9.2	0.47	
328	1	2374.26	8.1	2374.26	10.25	92.31	19.0	9.2	0.48	
329	1	2246.09	8.125	2246.09	10.56	75.48	19.0	9.2	0.48	
330	1	1715.08	8.15	1715.08	10.86	60.05	19.0	9.2	0.48	
331	1	1263.42	8.175	1263.42	12.7	57.38	19.0	9.2	0.48	
332	1	1025.39	8.2	1025.39	12.08	61.59	19.0	9.2	0.47	
333	1	860.59	8.225	860.59	12.76	75.06	19.0	9.2	0.48	
334	1	756.83	8.25	756.83	12.63	101.29	19.0	9.2	0.48	
335	1	732.42	8.275	732.42	12.63	133	19.0	9.2	0.48	
336	1	769.04	8.3	769.04	13.79	168.21	19.0	9.2	0.48	
337	1	933.84	8.325	933.84	10.5	206.93	19.0	9.2	0.47	
338	1	1287.84	8.35	1287.84	8.91	219.42	19.0	9.2	0.48	
339	1	1361.08	8.375	1361.08	10.99	179.3	19.0	9.2	0.48	
340	1	1153.56	8.4	1153.56	10.99	124.16	19.0	9.2	0.48	
341	1	933.84	8.425	933.84	12.7	114.62	19.0	9.2	0.48	
342	1	805.66	8.45	805.66	12.82	123.32	19.0	9.2	0.47	
343	1	732.42	8.475	732.42	15.01	138.19	19.0	9.2	0.48	
344	1	769.04	8.5	769.04	15.44	169.9	19.0	9.2	0.48	
345	1	885.01	8.525	885.01	14.34	188.55	19.0	9.2	0.48	

	A	B	C	D	E	F	G	H	I	J
346	1	1104.73	8.55	1104.73	16.54	204.13	19.0	9.2	0.48	
347	1	1483.15	8.575	1483.15	16.78	209.74	19.0	9.2	0.47	
348	1	1837.15	8.6	1837.15	15.08	169.9	19.0	9.2	0.48	
349	1	2160.64	8.625	2160.64	11.84	132.16	19.0	9.2	0.48	
350	1	2386.47	8.65	2386.47	7.81	104.66	19.0	9.2	0.48	
351	1	2569.57	8.675	2569.57	14.04	91.61	19.0	9.2	0.48	
352	1	2496.33	8.7	2496.33	16.36	74.78	19.0	9.2	0.47	
353	1	2099.6	8.725	2099.6	21.61	66.78	19.0	9.2	0.48	
354	1	1617.43	8.75	1617.43	25.45	67.62	19.0	9.2	0.48	
355	1	1324.46	8.775	1324.46	28.87	54.85	19.0	9.2	0.48	
356	1	1110.84	8.8	1110.84	24.23	71.97	19.0	9.2	0.48	
357	1	994.87	8.825	994.87	17.39	98.49	19.0	9.2	0.47	
358	1	994.87	8.85	994.87	12.15	135.94	19.0	9.2	0.48	
359	1	964.35	8.875	964.35	8.42	176.49	19.0	9.2	0.48	
360	1	885.01	8.9	885.01	6.71	174.53	19.0	9.2	0.48	
361	1	744.63	8.925	744.63	6.16	186.31	19.0	9.2	0.48	
362	1	701.9	8.95	701.9	5.74	212.97	19.0	9.2	0.47	
363	1	738.52	8.975	738.52	5.62	240.32	19.0	9.2	0.48	
364	1	750.73	9	750.73	4.76	265.58	19.0	9.2	0.48	
365	1	750.73	9.025	750.73	6.84	284.38	19.0	9.2	0.48	
366	1	805.66	9.05	805.66	10.68	309.49	19.0	9.2	0.48	
367	1	836.18	9.075	836.18	15.69	325.76	19.0	9.2	0.47	
368	1	903.32	9.1	903.32	21.91	323.66	19.0	9.2	0.48	
369	1	1086.42	9.125	1086.42	22.83	330.53	19.0	9.2	0.48	
370	1	1300.05	9.15	1300.05	24.54	334.04	19.0	9.2	0.48	
371	1	1379.39	9.175	1379.39	26.61	291.95	19.0	9.2	0.48	
372	1	1318.36	9.2	1318.36	23.93	267.4	19.0	9.2	0.47	
373	1	1342.77	9.225	1342.77	23.93	287.6	19.0	9.2	0.48	
374	1	1562.5	9.25	1562.5	30.27	313.7	19.0	9.2	0.48	
375	1	1806.64	9.275	1806.64	29.91	281.15	19.0	9.2	0.48	
376	1	1922.6	9.3	1922.6	26.55	224.47	19.0	9.2	0.48	
377	1	2252.19	9.325	2252.19	26.92	217.6	19.0	9.2	0.47	
378	1	2545.16	9.35	2545.16	24.29	171.44	19.0	9.2	0.48	
379	1	2307.12	9.375	2307.12	20.26	118.69	19.0	9.2	0.48	
380	1	2001.95	9.4	2001.95	13.37	100.17	19.0	9.2	0.48	
381	1	1757.81	9.425	1757.81	11.72	94.84	19.0	9.2	0.48	
382	1	1477.05	9.45	1477.05	10.56	97.93	19.0	9.2	0.47	
383	1	1214.6	9.475	1214.6	11.54	110.83	19.0	9.2	0.48	
384	1	1086.42	9.5	1086.42	12.82	137.21	19.0	9.2	0.48	
385	1	1043.7	9.525	1043.7	14.1	175.37	19.0	9.2	0.48	
386	1	1062.01	9.55	1062.01	13.73	210.44	19.0	9.2	0.48	
387	1	1116.94	9.575	1116.94	11.17	240.6	19.0	9.2	0.47	
388	1	1190.18	9.6	1190.18	14.77	260.95	19.0	9.2	0.48	
389	1	1159.66	9.625	1159.66	20.2	269.93	19.0	9.2	0.48	
390	1	1129.15	9.65	1129.15	22.52	274.84	19.0	9.2	0.48	
391	1	1275.63	9.675	1275.63	12.08	330.11	19.0	9.2	0.48	
392	1	1855.46	9.7	1855.46	10.38	336.28	19.0	9.2	0.47	
393	1	2697.75	9.725	2697.75	9.28	242.57	19.0	9.2	0.48	
394	1	3167.72	9.75	3167.72	9.16	150.54	19.0	9.2	0.48	
395	1	3552.24	9.775	3552.24	9.89	99.89	19.0	9.2	0.48	
396	1	3173.82	9.8	3173.82	11.72	98.49	19.0	9.2	0.48	
397	1	2722.16	9.825	2722.16	21.79	107.04	19.0	9.2	0.47	
398	1	2392.57	9.85	2392.57	31.07	132.16	19.0	9.2	0.48	
399	1	2325.43	9.875	2325.43	27.95	196.97	19.0	9.2	0.48	
400	1	3771.96	9.9	3771.96	20.57	271.33	19.0	9.2	0.48	
401	1	6475.81	9.925	6475.81	18.19	213.67	19.0	9.2	0.48	
402	1	7519.51	9.95	7519.51	25.94	84.32	19.0	9.2	0.47	
403	1	7476.79	9.975	7476.79	31.25	53.17	19.0	9.2	0.48	
404	1	7037.33	10	7037.33	33.94	42.65	19.0	9.2	0.48	
405	1	6463.61	10.025	6463.61	38.45	39.28	19.0	9.2	0.48	
406	1	6219.47	10.05	6219.47	35.28	42.51	19.0	9.2	0.48	
407	1	5657.94	10.075	5657.94	30.58	41.11	19.0	9.2	0.47	
408	1	4449.45	10.1	4449.45	30.7	38.58	19.0	9.2	0.48	
409	1	3582.75	10.125	3582.75	32.47	30.16	19.0	9.2	0.48	
410	1	2929.68	10.15	2929.68	27.89	32.13	19.0	9.2	0.48	
411	1	2416.99	10.175	2416.99	19.35	38.72	19.0	9.2	0.48	
412	1	1947.02	10.2	1947.02	20.2	48.96	19.0	9.2	0.47	
413	1	1623.53	10.225	1623.53	27.04	62.29	19.0	9.2	0.48	
414	1	1379.39	10.25	1379.39	21.12	86.14	19.0	9.2	0.48	
415	1	1391.6	10.275	1391.6	19.47	123.46	19.0	9.2	0.48	

	A	B	C	D	E	F	G	H	I	J
416	1	1770.01	10.3	1770.01	19.41	165.97	19.0	9.2	0.48	
417	1	2239.98	10.325	2239.98	22.64	183.22	19.0	9.2	0.47	
418	1	2337.64	10.35	2337.64	21.48	171.86	19.0	9.2	0.48	
419	1	2490.23	10.375	2490.23	14.77	170.18	19.0	9.2	0.48	
420	1	2850.33	10.4	2850.33	12.21	169.76	19.0	9.2	0.48	
421	1	2770.99	10.425	2770.99	15.14	132.72	19.0	9.2	0.48	
422	1	2526.85	10.45	2526.85	21.91	118.97	19.0	9.2	0.47	
423	1	2233.88	10.475	2233.88	19.84	124.02	19.0	9.2	0.48	
424	1	2014.15	10.5	2014.15	16.85	137.91	19.0	9.2	0.48	
425	1	1879.88	10.525	1879.88	13.73	157.41	19.0	9.2	0.48	
426	1	1745.6	10.55	1745.6	16.05	180.28	19.0	9.2	0.48	
427	1	1605.22	10.575	1605.22	20.63	198.8	19.0	9.2	0.47	
428	1	1397.7	10.6	1397.7	21.85	234.71	19.0	9.2	0.48	
429	1	1269.53	10.625	1269.53	18.55	279.61	19.0	9.2	0.48	
430	1	1269.53	10.65	1269.53	16.91	313.42	19.0	9.2	0.48	
431	1	1269.53	10.675	1269.53	43.95	346.1	19.0	9.2	0.48	
432	1	1214.6	10.7	1214.6	32.53	384.26	19.0	9.2	0.47	
433	1	1300.05	10.725	1300.05	22.95	398.71	19.0	9.2	0.48	
434	1	1226.8	10.75	1226.8	20.94	398.71	19.0	9.2	0.48	
435	1	1818.84	10.775	1818.84	20.51	53.73	19.0	9.2	0.48	
436	1	1605.22	10.8	1605.22	17.52	89.09	19.0	9.2	0.48	
437	1	1623.53	10.825	1623.53	16.97	151.52	19.0	9.2	0.47	
438	1	1715.08	10.85	1715.08	16.72	194.87	19.0	9.2	0.48	
439	1	1635.74	10.875	1635.74	15.44	219.42	19.0	9.2	0.48	
440	1	1599.12	10.9	1599.12	14.83	254.49	19.0	9.2	0.48	
441	1	1647.94	10.925	1647.94	17.7	301.21	19.0	9.2	0.48	
442	1	1745.6	10.95	1745.6	23.13	282.41	19.0	9.2	0.47	
443	1	1678.46	10.975	1678.46	27.47	272.45	19.0	9.2	0.48	
444	1	1666.26	11	1666.26	30.7	303.46	19.0	9.2	0.48	
445	1	1507.56	11.025	1507.56	34	305.7	19.0	9.2	0.48	
446	1	1446.53	11.05	1446.53	34.73	295.88	19.0	9.2	0.48	
447	1	1373.29	11.075	1373.29	36.25	288.16	19.0	9.2	0.47	
448	1	1348.87	11.1	1348.87	30.09	305.98	19.0	9.2	0.48	
449	1	1416.01	11.125	1416.01	27.59	329.97	19.0	9.2	0.48	
450	1	2270.5	11.15	2270.5	38.57	396.61	19.0	9.2	0.48	
451	1	2850.33	11.175	2850.33	44.8	427.48	19.0	9.2	0.48	
452	1	2447.5	11.2	2447.5	46.51	123.32	19.0	9.2	0.47	
453	1	2056.88	11.225	2056.88	47	123.88	19.0	9.2	0.48	
454	1	1660.15	11.25	1660.15	49.62	122.76	19.0	9.2	0.48	
455	1	1287.84	11.275	1287.84	46.39	172.84	19.0	9.2	0.48	
456	1	1171.87	11.3	1171.87	33.81	209.04	19.0	9.2	0.48	
457	1	1208.49	11.325	1208.49	22.22	266.56	19.0	9.2	0.47	
458	1	3460.68	11.35	3460.68	17.76	394.51	19.0	9.2	0.48	
459	1	7678.2	11.375	7678.2	26.49	417.94	19.0	9.2	0.48	
460	1	6286.6	11.4	6286.6	58.17	97.36	19.0	9.2	0.48	
461	1	4266.35	11.425	4266.35	69.64	60.89	19.0	9.2	0.48	
462	1	3051.75	11.45	3051.75	61.65	45.31	19.0	9.2	0.47	
463	1	2172.85	11.475	2172.85	48.4	48.54	19.0	9.2	0.48	
464	1	1806.64	11.5	1806.64	62.26	72.11	19.0	9.2	0.48	
465	1	2539.06	11.525	2539.06	66.89	392.54	19.0	9.2	0.48	
466	1	4150.38	11.55	4150.38	72.45	461.43	19.0	9.2	0.48	
467	1	3204.34	11.575	3204.34	61.1	434.07	19.0	9.2	0.47	
468	1	2362.05	11.6	2362.05	62.56	308.09	19.0	9.2	0.48	
469	1	1959.22	11.625	1959.22	63.6	267.82	19.0	9.2	0.48	
470	1	2746.57	11.65	2746.57	60.79	310.47	19.0	9.2	0.48	
471	1	3741.45	11.675	3741.45	88.62	425.79	19.0	9.2	0.48	
472	1	3100.58	11.7	3100.58	103.5	323.66	19.0	9.2	0.47	
473	1	2667.23	11.725	2667.23	112.3	167.37	19.0	9.2	0.48	
474	1	2526.85	11.75	2526.85	104.4	156.85	19.0	9.2	0.48	
475	1	2587.88	11.775	2587.88	92.83	121.77	19.0	9.2	0.48	
476	1	3485.1	11.8	3485.1	81.3	225.73	19.0	9.2	0.48	
477	1	7373.03	11.825	7373.03	66.53	328.15	19.0	9.2	0.47	
478	1	9442.11	11.85	9442.11	67.02	221.38	19.0	9.2	0.48	
479	1	8013.89	11.875	8013.89	83.68	71.27	19.0	9.2	0.48	
480	1	6610.09	11.9	6610.09	89.23	39.28	19.0	9.2	0.48	
481	1	6060.77	11.925	6060.77	100.8	34.23	19.0	9.2	0.48	
482	1	4669.18	11.95	4669.18	111	38.72	19.0	9.2	0.47	
483	1	3271.48	11.975	3271.48	109.9	35.35	19.0	9.2	0.48	
484	1	2484.12	12	2484.12	94.6	30.16	19.0	9.2	0.48	
485	1	1977.53	12.025	1977.53	67.93	41.25	19.0	9.2	0.48	

	A	B	C	D	E	F	G	H	I	J
486	1	1580.81	12.05	1580.81	51.27	100.31	19.0	9.2	0.48	
487	1	1330.56	12.075	1330.56	40.22	250.99	19.0	9.2	0.47	
488	1	1184.08	12.1	1184.08	28.69	394.09	19.0	9.2	0.48	
489	1	1104.73	12.125	1104.73	15.5	488.64	19.0	9.2	0.48	
490	1	1098.63	12.15	1098.63	11.54	534.8	19.0	9.2	0.48	
491	1	1074.22	12.175	1074.22	9.03	586.71	19.0	9.2	0.48	
492	1	1068.11	12.2	1068.11	7.57	593.16	19.0	9.2	0.47	
493	1	1031.49	12.225	1031.49	5.98	595.69	19.0	9.2	0.48	
494	1	1055.91	12.25	1055.91	5.25	574.64	19.0	9.2	0.48	
495	1	1019.28	12.275	1019.28	6.47	558.23	19.0	9.2	0.48	
496	1	964.35	12.3	964.35	9.58	602.84	19.0	9.2	0.48	
497	1	964.35	12.325	964.35	7.93	612.24	19.0	9.2	0.47	
498	1	982.66	12.35	982.66	6.84	655.73	19.0	9.2	0.48	
499	1	1062.01	12.375	1062.01	6.96	690.53	19.0	9.2	0.48	
500	1	1580.81	12.4	1580.81	8.79	698.94	19.0	9.2	0.48	
501	1	1788.33	12.425	1788.33	10.86	549.39	19.0	9.2	0.48	
502	1	1507.56	12.45	1507.56	11.72	388.47	19.0	9.2	0.47	
503	1	1239.01	12.475	1239.01	12.57	460.02	19.0	9.2	0.48	
504	1	1074.22	12.5	1074.22	12.94	521.33	19.0	9.2	0.48	
505	1	958.25	12.525	958.25	10.99	576.33	19.0	9.2	0.48	
506	1	933.84	12.55	933.84	7.93	619.4	19.0	9.2	0.48	
507	1	915.52	12.575	915.52	6.96	639.88	19.0	9.2	0.47	
508	1	915.52	12.6	915.52	6.41	651.52	19.0	9.2	0.48	
509	1	854.49	12.625	854.49	6.16	648.86	19.0	9.2	0.48	
510	1	872.8	12.65	872.8	5.43	655.59	19.0	9.2	0.48	
511	1	872.8	12.675	872.8	7.08	660.5	19.0	9.2	0.48	
512	1	897.21	12.7	897.21	7.32	668.64	19.0	9.2	0.47	
513	1	878.9	12.725	878.9	10.01	677.9	19.0	9.2	0.48	
514	1	958.25	12.75	958.25	12.63	672.57	19.0	9.2	0.48	
515	1	1177.98	12.775	1177.98	16.6	651.66	19.0	9.2	0.48	
516	1	1354.98	12.8	1354.98	27.89	587.55	19.0	9.2	0.48	
517	1	1678.46	12.825	1678.46	33.45	554.86	19.0	9.2	0.47	
518	1	1654.05	12.85	1654.05	36.13	412.74	19.0	9.2	0.48	
519	1	1428.22	12.875	1428.22	36.68	246.92	19.0	9.2	0.48	
520	1	1184.08	12.9	1184.08	32.47	294.2	19.0	9.2	0.48	
521	1	1068.11	12.925	1068.11	28.2	379.78	19.0	9.2	0.48	
522	1	1080.32	12.95	1080.32	17.88	464.09	19.0	9.2	0.47	
523	1	1068.11	12.975	1068.11	11.23	509.69	19.0	9.2	0.48	
524	1	1007.08	13	1007.08	9.09	529.89	19.0	9.2	0.48	
525	1	958.25	13.025	958.25	8.97	564.12	19.0	9.2	0.48	
526	1	946.04	13.05	946.04	10.25	600.6	19.0	9.2	0.48	
527	1	970.46	13.075	970.46	15.69	632.16	19.0	9.2	0.47	
528	1	1116.94	13.1	1116.94	23.01	658.4	19.0	9.2	0.48	
529	1	1580.81	13.125	1580.81	32.53	689.4	19.0	9.2	0.48	
530	1	2496.33	13.15	2496.33	49.07	535.78	19.0	9.2	0.48	
531	1	2966.3	13.175	2966.3	49.62	271.89	19.0	9.2	0.48	
532	1	3002.92	13.2	3002.92	54.32	164.56	19.0	9.2	0.47	
533	1	2905.27	13.225	2905.27	53.77	103.4	19.0	9.2	0.48	
534	1	2624.5	13.25	2624.5	52.86	84.74	19.0	9.2	0.48	
535	1	2398.68	13.275	2398.68	58.29	107.32	19.0	9.2	0.48	
536	1	2819.82	13.3	2819.82	61.03	107.61	19.0	9.2	0.48	
537	1	2947.99	13.325	2947.99	47.42	138.19	19.0	9.2	0.47	
538	1	2520.75	13.35	2520.75	36.01	89.23	19.0	9.2	0.48	
539	1	1953.12	13.375	1953.12	33.26	90.77	19.0	9.2	0.48	
540	1	1525.87	13.4	1525.87	33.2	94.56	19.0	9.2	0.48	
541	1	1312.25	13.425	1312.25	33.26	160.08	19.0	9.2	0.48	
542	1	1251.22	13.45	1251.22	24.17	225.59	19.0	9.2	0.47	
543	1	1257.32	13.475	1257.32	24.23	311.87	19.0	9.2	0.48	
544	1	1367.18	13.5	1367.18	25.39	380.06	19.0	9.2	0.48	
545	1	1519.77	13.525	1519.77	34.24	435.19	19.0	9.2	0.48	
546	1	1782.22	13.55	1782.22	33.51	434.49	19.0	9.2	0.48	
547	1	2355.95	13.575	2355.95	45.53	470.12	19.0	9.2	0.47	
548	1	2960.2	13.6	2960.2	52.61	329.97	19.0	9.2	0.48	
549	1	2764.89	13.625	2764.89	56.46	143.24	19.0	9.2	0.48	
550	1	2435.3	13.65	2435.3	51.51	119.81	19.0	9.2	0.48	
551	1	2252.19	13.675	2252.19	58.84	120.37	19.0	9.2	0.48	
552	1	2508.54	13.7	2508.54	55.6	137.35	19.0	9.2	0.47	
553	1	2624.5	13.725	2624.5	47.97	111.11	19.0	9.2	0.48	
554	1	2185.05	13.75	2185.05	42.11	98.35	19.0	9.2	0.48	
555	1	1647.94	13.775	1647.94	35.46	134.12	19.0	9.2	0.48	

	A	B	C	D	E	F	G	H	I	J
556	1	1232.91	13.8	1232.91	28.26	164.14	19.0	9.2	0.48	
557	1	1055.91	13.825	1055.91	22.89	228.82	19.0	9.2	0.47	
558	1	1013.18	13.85	1013.18	14.16	316.36	19.0	9.2	0.48	
559	1	952.15	13.875	952.15	10.19	393.52	19.0	9.2	0.48	
560	1	909.42	13.9	909.42	10.5	441.64	19.0	9.2	0.48	
561	1	952.15	13.925	952.15	8.73	499.17	19.0	9.2	0.48	
562	1	1007.08	13.95	1007.08	13.12	545.74	19.0	9.2	0.47	
563	1	1141.35	13.975	1141.35	17.94	567.21	19.0	9.2	0.48	
564	1	1501.46	14	1501.46	21.06	591.06	19.0	9.2	0.48	
565	1	1434.32	14.025	1434.32	21.42	310.47	18.0	8.2	0.45	
566	1	1153.56	14.05	1153.56	20.94	242.57	18.0	8.2	0.45	
567	1	982.66	14.075	982.66	19.78	365.75	18.0	8.2	0.45	
568	1	1025.39	14.1	1025.39	19.41	468.02	18.0	8.2	0.45	
569	1	1013.18	14.125	1013.18	10.74	524.84	18.0	8.2	0.45	
570	1	939.94	14.15	939.94	9.28	531.29	18.0	8.2	0.45	
571	1	921.63	14.175	921.63	9.22	532.98	18.0	8.2	0.45	
572	1	909.42	14.2	909.42	8.54	555.7	18.0	8.2	0.45	
573	1	878.9	14.225	878.9	7.75	576.33	18.0	8.2	0.45	
574	1	860.59	14.25	860.59	7.08	589.79	18.0	8.2	0.45	
575	1	854.49	14.275	854.49	7.26	597.93	18.0	8.2	0.45	
576	1	866.7	14.3	866.7	7.63	610.14	18.0	8.2	0.45	
577	1	872.8	14.325	872.8	6.96	609.72	18.0	8.2	0.45	
578	1	836.18	14.35	836.18	7.93	603.4	18.0	8.2	0.45	
579	1	860.59	14.375	860.59	8.48	628.1	18.0	8.2	0.45	
580	1	933.84	14.4	933.84	9.46	651.95	18.0	8.2	0.45	
581	1	1019.28	14.425	1019.28	9.52	664.57	18.0	8.2	0.45	
582	1	1043.7	14.45	1043.7	10.07	578.57	18.0	8.2	0.45	
583	1	982.66	14.475	982.66	10.13	481.63	18.0	8.2	0.45	
584	1	958.25	14.5	958.25	10.13	540.41	18.0	8.2	0.45	
585	1	933.84	14.525	933.84	10.74	548.41	18.0	8.2	0.45	
586	1	915.52	14.55	915.52	8.3	574.36	18.0	8.2	0.45	
587	1	921.63	14.575	921.63	7.45	604.39	18.0	8.2	0.45	
588	1	933.84	14.6	933.84	6.77	626.13	18.0	8.2	0.45	
589	1	921.63	14.625	921.63	6.96	627.95	18.0	8.2	0.45	
590	1	939.94	14.65	939.94	6.71	631.04	18.0	8.2	0.45	
591	1	915.52	14.675	915.52	8.06	646.33	18.0	8.2	0.45	
592	1	933.84	14.7	933.84	7.63	636.65	18.0	8.2	0.45	
593	1	842.28	14.725	842.28	8.12	618.98	18.0	8.2	0.45	
594	1	872.8	14.75	872.8	8.67	647.74	18.0	8.2	0.45	
595	1	976.56	14.775	976.56	8.54	686.32	18.0	8.2	0.45	
596	1	909.42	14.8	909.42	9.09	613.93	18.0	8.2	0.45	
597	1	854.49	14.825	854.49	10.01	598.77	18.0	8.2	0.45	
598	1	860.59	14.85	860.59	11.54	644.65	18.0	8.2	0.45	
599	1	909.42	14.875	909.42	10.62	671.45	18.0	8.2	0.45	
600	1	994.87	14.9	994.87	8.73	701.75	18.0	8.2	0.45	
601	1	1147.46	14.925	1147.46	17.46	693.89	18.0	8.2	0.45	
602	1	1416.01	14.95	1416.01	22.28	654.61	18.0	8.2	0.45	
603	1	1586.91	14.975	1586.91	23.32	565.1	18.0	8.2	0.45	
604	1	1470.94	15	1470.94	23.32	257.16	18.0	8.2	0.45	
605	1	1208.49	15.025	1208.49	23.44	215.21	18.0	8.2	0.45	
606	1	1141.35	15.05	1141.35	22.46	349.19	18.0	8.2	0.45	
607	1	1159.66	15.075	1159.66	19.47	436.45	18.0	8.2	0.45	
608	1	1190.18	15.1	1190.18	15.87	477.14	18.0	8.2	0.45	
609	1	1080.32	15.125	1080.32	13.37	437.02	18.0	8.2	0.45	
610	1	1062.01	15.15	1062.01	13.31	488.08	18.0	8.2	0.45	
611	1	1049.8	15.175	1049.8	15.2	533.68	18.0	8.2	0.45	
612	1	1153.56	15.2	1153.56	14.16	551.21	18.0	8.2	0.45	
613	1	1226.8	15.225	1226.8	13.31	522.87	18.0	8.2	0.45	
614	1	1220.7	15.25	1220.7	12.88	497.2	18.0	8.2	0.45	
615	1	1190.18	15.275	1190.18	12.63	432.39	18.0	8.2	0.45	
616	1	1098.63	15.3	1098.63	12.08	453.57	18.0	8.2	0.45	
617	1	1007.08	15.325	1007.08	11.72	511.65	18.0	8.2	0.45	
618	1	946.04	15.35	946.04	10.25	526.24	18.0	8.2	0.45	
619	1	891.11	15.375	891.11	8.91	551.92	18.0	8.2	0.45	
620	1	866.7	15.4	866.7	8.54	601.3	18.0	8.2	0.45	
621	1	897.21	15.425	897.21	7.93	634.27	18.0	8.2	0.45	
622	1	915.52	15.45	915.52	7.39	655.59	18.0	8.2	0.45	
623	1	897.21	15.475	897.21	7.51	666.4	18.0	8.2	0.45	
624	1	909.42	15.5	909.42	7.32	678.32	18.0	8.2	0.45	
625	1	878.9	15.525	878.9	7.51	689.82	18.0	8.2	0.45	

	A	B	C	D	E	F	G	H	I	J
626	1	921.63	15.55	921.63	7.45	701.75	18.0	8.2	0.45	
627	1	878.9	15.575	878.9	7.39	706.8	18.0	8.2	0.45	
628	1	897.21	15.6	897.21	6.59	715.78	18.0	8.2	0.45	
629	1	982.66	15.625	982.66	7.45	732.89	18.0	8.2	0.45	
630	1	1104.73	15.65	1104.73	9.83	738.23	18.0	8.2	0.45	
631	1	1086.42	15.675	1086.42	10.44	697.96	18.0	8.2	0.45	
632	1	1031.49	15.7	1031.49	10.62	574.36	18.0	8.2	0.45	
633	1	952.15	15.725	952.15	10.8	560.47	18.0	8.2	0.45	
634	1	897.21	15.75	897.21	10.62	663.87	18.0	8.2	0.45	
635	1	903.32	15.775	903.32	9.09	677.48	18.0	8.2	0.45	
636	1	897.21	15.8	897.21	6.84	691.37	18.0	8.2	0.45	
637	1	885.01	15.825	885.01	6.16	694.87	18.0	8.2	0.45	
638	1	885.01	15.85	885.01	5.98	698.38	18.0	8.2	0.45	
639	1	885.01	15.875	885.01	5.98	699.5	18.0	8.2	0.45	
640	1	854.49	15.9	854.49	6.29	698.8	18.0	8.2	0.45	
641	1	872.8	15.925	872.8	6.47	698.1	18.0	8.2	0.45	
642	1	866.7	15.95	866.7	6.47	692.63	18.0	8.2	0.45	
643	1	878.9	15.975	878.9	6.77	694.45	18.0	8.2	0.45	
644	1	872.8	16	872.8	6.71	698.66	18.0	8.2	0.45	
645	1	885.01	16.025	885.01	6.59	700.07	18.0	8.2	0.45	
646	1	903.32	16.05	903.32	6.84	691.93	18.0	8.2	0.45	
647	1	866.7	16.075	866.7	6.65	690.81	18.0	8.2	0.45	
648	1	909.42	16.1	909.42	6.35	689.4	18.0	8.2	0.45	
649	1	903.32	16.125	903.32	6.47	662.89	18.0	8.2	0.45	
650	1	891.11	16.15	891.11	6.71	672.57	18.0	8.2	0.45	
651	1	878.9	16.175	878.9	6.71	685.62	18.0	8.2	0.45	
652	1	860.59	16.2	860.59	6.77	694.45	18.0	8.2	0.45	
653	1	872.8	16.225	872.8	6.16	698.66	18.0	8.2	0.45	
654	1	897.21	16.25	897.21	6.29	698.66	18.0	8.2	0.45	
655	1	878.9	16.275	878.9	6.16	702.87	18.0	8.2	0.45	
656	1	866.7	16.3	866.7	5.92	707.78	18.0	8.2	0.45	
657	1	878.9	16.325	878.9	6.1	709.04	18.0	8.2	0.45	
658	1	903.32	16.35	903.32	6.29	704.56	18.0	8.2	0.45	
659	1	897.21	16.375	897.21	6.16	702.03	18.0	8.2	0.45	
660	1	891.11	16.4	891.11	6.29	707.92	18.0	8.2	0.45	
661	1	897.21	16.425	897.21	6.29	705.4	18.0	8.2	0.45	
662	1	891.11	16.45	891.11	6.47	702.17	18.0	8.2	0.45	
663	1	897.21	16.475	897.21	6.16	704.56	18.0	8.2	0.45	
664	1	897.21	16.5	897.21	6.47	709.75	18.0	8.2	0.45	
665	1	878.9	16.525	878.9	6.29	709.89	18.0	8.2	0.45	
666	1	872.8	16.55	872.8	5.92	707.64	18.0	8.2	0.45	
667	1	860.59	16.575	860.59	5.86	704.84	18.0	8.2	0.45	
668	1	866.7	16.6	866.7	5.62	707.78	18.0	8.2	0.45	
669	1	866.7	16.625	866.7	5.8	712.27	18.0	8.2	0.45	
670	1	842.28	16.65	842.28	3.48	714.1	18.0	8.2	0.45	
671	1	866.7	16.675	866.7	4.64	719.71	18.0	8.2	0.45	
672	1	848.39	16.7	848.39	4.82	720.83	18.0	8.2	0.45	
673	1	854.49	16.725	854.49	4.58	721.11	18.0	8.2	0.45	
674	1	866.7	16.75	866.7	4.88	689.96	18.0	8.2	0.45	
675	1	878.9	16.775	878.9	5	717.32	18.0	8.2	0.45	
676	1	897.21	16.8	897.21	5	722.79	18.0	8.2	0.45	
677	1	848.39	16.825	848.39	5.13	727	18.0	8.2	0.45	
678	1	866.7	16.85	866.7	5.13	729.81	18.0	8.2	0.45	
679	1	866.7	16.875	866.7	4.94	727	18.0	8.2	0.45	
680	1	854.49	16.9	854.49	5	725.32	18.0	8.2	0.45	
681	1	891.11	16.925	891.11	5.25	726.3	18.0	8.2	0.45	
682	1	860.59	16.95	860.59	5.92	710.45	18.0	8.2	0.45	
683	1	872.8	16.975	872.8	6.1	723.21	18.0	8.2	0.45	
684	1	915.52	17	915.52	5.92	716.62	18.0	8.2	0.45	
685	1	952.15	17.025	952.15	6.47	724.34	18.0	8.2	0.45	
686	1	964.35	17.05	964.35	6.9	740.05	18.0	8.2	0.45	
687	1	1013.18	17.075	1013.18	6.71	739.91	18.0	8.2	0.45	
688	1	994.87	17.1	994.87	6.84	734.86	18.0	8.2	0.45	
689	1	1031.49	17.125	1031.49	6.96	734.72	18.0	8.2	0.45	
690	1	1037.59	17.15	1037.59	6.96	734.86	18.0	8.2	0.45	
691	1	1043.7	17.175	1043.7	7.08	730.65	18.0	8.2	0.45	
692	1	1055.91	17.2	1055.91	7.08	732.05	18.0	8.2	0.45	
693	1	1031.49	17.225	1031.49	7.45	735.14	18.0	8.2	0.45	
694	1	1068.11	17.25	1068.11	7.32	735.84	18.0	8.2	0.45	
695	1	1074.22	17.275	1074.22	8.12	750.71	18.0	8.2	0.45	

	A	B	C	D	E	F	G	H	I	J
696	1	1129.15	17.3	1129.15	6.96	758.99	18.0	8.2	0.45	
697	1	1177.98	17.325	1177.98	7.08	742.43	18.0	8.2	0.45	
698	1	1306.15	17.35	1306.15	7.32	739.63	18.0	8.2	0.45	
699	1	1409.91	17.375	1409.91	7.81	727.7	18.0	8.2	0.45	
700	1	1367.18	17.4	1367.18	8.97	576.33	18.0	8.2	0.45	
701	1	1135.25	17.425	1135.25	8.85	616.03	18.0	8.2	0.45	
702	1	1092.53	17.45	1092.53	8.97	665.83	18.0	8.2	0.45	
703	1	1159.66	17.475	1159.66	12.27	713.81	18.0	8.2	0.45	
704	1	1397.7	17.5	1397.7	12.63	743.7	18.0	8.2	0.45	
705	1	1531.98	17.525	1531.98	13.61	546.58	18.0	8.2	0.45	
706	1	1226.8	17.55	1226.8	14.4	477	18.0	8.2	0.45	
707	1	1275.63	17.575	1275.63	18.62	605.79	18.0	8.2	0.45	
708	1	1306.15	17.6	1306.15	13.37	627.53	18.0	8.2	0.45	
709	1	1361.08	17.625	1361.08	10.5	705.68	18.0	8.2	0.45	
710	1	1544.19	17.65	1544.19	26.37	739.07	18.0	8.2	0.45	
711	1	3741.45	17.675	3741.45	32.23	362.66	18.0	8.2	0.45	
712	1	5657.94	17.7	5657.94	59.02	675.51	18.0	8.2	0.45	
713	1	4650.87	17.725	4650.87	88.56	213.67	18.0	8.2	0.45	
714	1	3424.06	17.75	3424.06	93.63	183.22	18.0	8.2	0.45	
715	1	2838.13	17.775	2838.13	85.27	179.01	18.0	8.2	0.45	
716	1	1965.33	17.8	1965.33	71.96	209.46	18.0	8.2	0.45	
717	1	1599.12	17.825	1599.12	56.46	198.66	18.0	8.2	0.45	
718	1	1147.46	17.85	1147.46	32.29	334.74	18.0	8.2	0.45	
719	1	982.66	17.875	982.66	20.26	449.36	18.0	8.2	0.45	
720	1	958.25	17.9	958.25	13.06	499.45	18.0	8.2	0.45	
721	1	927.73	17.925	927.73	9.34	536.9	18.0	8.2	0.45	
722	1	842.28	17.95	842.28	8.97	565.8	18.0	8.2	0.45	
723	1	830.08	17.975	830.08	8.54	591.06	18.0	8.2	0.45	
724	1	830.08	18	830.08	8.79	613.5	18.0	8.2	0.45	
725	1	823.97	18.025	823.97	9.09	628.1	18.0	8.2	0.45	
726	1	872.8	18.05	872.8	9.03	637.35	18.0	8.2	0.45	
727	1	854.49	18.075	854.49	9.46	656.57	18.0	8.2	0.45	
728	1	878.9	18.1	878.9	9.95	683.93	18.0	8.2	0.45	
729	1	915.52	18.125	915.52	10.31	716.34	18.0	8.2	0.45	
730	1	970.46	18.15	970.46	10.86	753.8	18.0	8.2	0.45	
731	1	1037.59	18.175	1037.59	11.05	770.77	18.0	8.2	0.45	
732	1	1062.01	18.2	1062.01	11.05	780.45	18.0	8.2	0.45	
733	1	1055.91	18.225	1055.91	11.78	784.94	18.0	8.2	0.45	
734	1	1092.53	18.25	1092.53	12.21	810.76	18.0	8.2	0.45	
735	1	1098.63	18.275	1098.63	12.21	821.42	18.0	8.2	0.45	
736	1	1116.94	18.3	1116.94	12.15	814.55	18.0	8.2	0.45	
737	1	1092.53	18.325	1092.53	11.96	818.05	18.0	8.2	0.45	
738	1	1123.04	18.35	1123.04	12.02	843.59	18.0	8.2	0.45	
739	1	1147.46	18.375	1147.46	12.08	837.97	18.0	8.2	0.45	
740	1	1086.42	18.4	1086.42	11.6	820.72	18.0	8.2	0.45	
741	1	1080.32	18.425	1080.32	11.54	806.55	18.0	8.2	0.45	
742	1	1062.01	18.45	1062.01	11.35	821.42	18.0	8.2	0.45	
743	1	1068.11	18.475	1068.11	11.17	832.5	18.0	8.2	0.45	
744	1	1037.59	18.5	1037.59	11.35	850.74	18.0	8.2	0.45	
745	1	1037.59	18.525	1037.59	12.02	839.24	18.0	8.2	0.45	
746	1	1043.7	18.55	1043.7	7.63	842.46	18.0	8.2	0.45	
747	1	1049.8	18.575	1049.8	9.09	844.29	18.0	8.2	0.45	
748	1	1116.94	18.6	1116.94	21.06	840.92	18.0	8.2	0.45	
749	1	1513.67	18.625	1513.67	19.84	846.11	18.0	8.2	0.45	
750	1	1727.29	18.65	1727.29	22.46	703.99	18.0	8.2	0.45	
751	1	1434.32	18.675	1434.32	28.99	428.32	18.0	8.2	0.45	
752	1	1196.29	18.7	1196.29	28.44	438.84	18.0	8.2	0.45	
753	1	1147.46	18.725	1147.46	28.69	532.7	18.0	8.2	0.45	
754	1	1159.66	18.75	1159.66	18.49	580.96	18.0	8.2	0.45	
755	1	1086.42	18.775	1086.42	12.82	721.25	18.0	8.2	0.45	
756	1	1055.91	18.8	1055.91	11.6	792.94	18.0	8.2	0.45	
757	1	1055.91	18.825	1055.91	11.78	825.91	18.0	8.2	0.45	
758	1	1031.49	18.85	1031.49	11.47	852.14	18.0	8.2	0.45	
759	1	1019.28	18.875	1019.28	10.38	866.03	18.0	8.2	0.45	
760	1	994.87	18.9	994.87	10.31	868.28	18.0	8.2	0.45	
761	1	1043.7	18.925	1043.7	10.5	877.4	18.0	8.2	0.45	
762	1	1049.8	18.95	1049.8	10.5	883.15	18.0	8.2	0.45	
763	1	1068.11	18.975	1068.11	10.07	863.93	18.0	8.2	0.45	
764	1	1104.73	19	1104.73	10.56	850.88	18.0	8.2	0.45	
765	1	1074.22	19.025	1074.22	11.72	847.65	18.0	8.2	0.45	

	A	B	C	D	E	F	G	H	I	J
766	1	1080.32	19.05	1080.32	11.47	831.66	18.0	8.2	0.45	
767	1	1116.94	19.075	1116.94	10.93	827.31	18.0	8.2	0.45	
768	1	1147.46	19.1	1147.46	10.62	849.2	18.0	8.2	0.45	
769	1	1141.35	19.125	1141.35	10.86	810.48	18.0	8.2	0.45	
770	1	1141.35	19.15	1141.35	11.35	810.2	18.0	8.2	0.45	
771	1	1147.46	19.175	1147.46	11.66	816.51	18.0	8.2	0.45	
772	1	1184.08	19.2	1184.08	11.05	802.06	18.0	8.2	0.45	
773	1	1214.6	19.225	1214.6	12.57	817.21	18.0	8.2	0.45	
774	1	1324.46	19.25	1324.46	12.94	811.18	18.0	8.2	0.45	
775	1	1293.94	19.275	1293.94	12.15	764.18	18.0	8.2	0.45	
776	1	1232.91	19.3	1232.91	12.45	754.64	18.0	8.2	0.45	
777	1	1239.01	19.325	1239.01	13.43	747.91	18.0	8.2	0.45	
778	1	1196.29	19.35	1196.29	13.67	789.85	18.0	8.2	0.45	
779	1	1281.73	19.375	1281.73	12.45	796.03	18.0	8.2	0.45	
780	1	1251.22	19.4	1251.22	12.7	806.55	18.0	8.2	0.45	
781	1	1232.91	19.425	1232.91	12.02	756.6	18.0	8.2	0.45	
782	1	1214.6	19.45	1214.6	12.51	739.77	18.0	8.2	0.45	
783	1	1226.8	19.475	1226.8	13.67	778.91	18.0	8.2	0.45	
784	1	1348.87	19.5	1348.87	14.83	758.01	18.0	8.2	0.45	
785	1	1409.91	19.525	1409.91	13.73	787.05	18.0	8.2	0.45	
786	1	1336.67	19.55	1336.67	12.94	727	18.0	8.2	0.45	
787	1	1336.67	19.575	1336.67	12.76	703.15	18.0	8.2	0.45	
788	1	1281.73	19.6	1281.73	11.9	771.19	18.0	8.2	0.45	
789	1	1226.8	19.625	1226.8	11.9	775.54	18.0	8.2	0.45	
790	1	1165.77	19.65	1165.77	11.17	766.42	18.0	8.2	0.45	
791	1	1153.56	19.675	1153.56	10.99	792.38	18.0	8.2	0.45	
792	1	1147.46	19.7	1147.46	11.84	811.18	18.0	8.2	0.45	
793	1	1171.87	19.725	1171.87	10.25	829.14	18.0	8.2	0.45	
794	1	1177.98	19.75	1177.98	10.38	854.95	18.0	8.2	0.45	
795	1	1275.63	19.775	1275.63	10.44	883.57	18.0	8.2	0.45	
796	1	1348.87	19.8	1348.87	11.35	882.45	18.0	8.2	0.45	
797	1	1300.05	19.825	1300.05	12.33	844.29	18.0	8.2	0.45	
798	1	1287.84	19.85	1287.84	11.66	806.97	18.0	8.2	0.45	
799	1	1251.22	19.875	1251.22	12.02	829.84	18.0	8.2	0.45	
800	1	1293.94	19.9	1293.94	11.96	861.54	18.0	8.2	0.45	
801	1	1245.11	19.925	1245.11	11.11	848.36	18.0	8.2	0.45	
802	1	1306.15	19.95	1306.15	11.17	838.54	18.0	8.2	0.45	
803	1	1318.36	19.975	1318.36	11.47	855.51	18.0	8.2	0.45	
804	1	1373.29	20	1373.29	11.72	843.87	18.0	8.2	0.45	
805	1	1373.29	20.025	1373.29	11.17	831.52	18.0	8.2	0.45	
806	1	1293.94	20.05	1293.94	11.17	828.15	18.0	8.2	0.45	
807	1	1245.11	20.075	1245.11	11.41	840.08	18.0	8.2	0.45	
808	1	1257.32	20.1	1257.32	11.78	833.91	18.0	8.2	0.45	
809	1	1232.91	20.125	1232.91	10.99	835.45	18.0	8.2	0.45	
810	1	1232.91	20.15	1232.91	10.99	855.23	18.0	8.2	0.45	
811	1	1220.7	20.175	1220.7	10.99	841.9	18.0	8.2	0.45	
812	1	1208.49	20.2	1208.49	10.86	839.24	18.0	8.2	0.45	
813	1	1171.87	20.225	1171.87	10.31	807.11	18.0	8.2	0.45	
814	1	1147.46	20.25	1147.46	10.07	803.18	18.0	8.2	0.45	
815	1	1159.66	20.275	1159.66	9.52	837.55	18.0	8.2	0.45	
816	1	1104.73	20.3	1104.73	9.58	833.2	18.0	8.2	0.45	
817	1	1129.15	20.325	1129.15	9.28	823.38	18.0	8.2	0.45	
818	1	1116.94	20.35	1116.94	8.61	834.89	18.0	8.2	0.45	
819	1	1080.32	20.375	1080.32	8.97	842.88	18.0	8.2	0.45	
820	1	1080.32	20.4	1080.32	9.03	833.2	18.0	8.2	0.45	
821	1	1104.73	20.425	1104.73	9.16	842.32	18.0	8.2	0.45	
822	1	1159.66	20.45	1159.66	9.77	846.11	18.0	8.2	0.45	
823	1	1129.15	20.475	1129.15	9.09	837.27	18.0	8.2	0.45	
824	1	1135.25	20.5	1135.25	9.7	844.29	18.0	8.2	0.45	
825	1	1147.46	20.525	1147.46	10.68	859.86	18.0	8.2	0.45	
826	1	1190.18	20.55	1190.18	11.11	884.69	18.0	8.2	0.45	
827	1	1208.49	20.575	1208.49	10.62	869.68	18.0	8.2	0.45	
828	1	1312.25	20.6	1312.25	10.8	888.2	18.0	8.2	0.45	
829	1	1306.15	20.625	1306.15	11.17	828.43	18.0	8.2	0.45	
830	1	1190.18	20.65	1190.18	11.66	751.41	18.0	8.2	0.45	
831	1	1116.94	20.675	1116.94	11.47	769.51	18.0	8.2	0.45	
832	1	1141.35	20.7	1141.35	12.7	796.59	18.0	8.2	0.45	
833	1	1098.63	20.725	1098.63	10.8	816.93	18.0	8.2	0.45	
834	1	1129.15	20.75	1129.15	9.89	831.38	18.0	8.2	0.45	
835	1	1135.25	20.775	1135.25	10.56	856.21	18.0	8.2	0.45	

	A	B	C	D	E	F	G	H	I	J
836	1	1123.04	20.8	1123.04	11.17	869.4	18.0	8.2	0.45	
837	1	1159.66	20.825	1159.66	10.86	886.24	18.0	8.2	0.45	
838	1	1171.87	20.85	1171.87	11.66	906.44	18.0	8.2	0.45	
839	1	1330.56	20.875	1330.56	14.71	923.27	18.0	8.2	0.45	
840	1	1702.88	20.9	1702.88	16.66	1002.82	18.0	8.2	0.45	
841	1	1843.26	20.925	1843.26	16.91	792.1	18.0	8.2	0.45	
842	1	1745.6	20.95	1745.6	18.37	751.41	18.0	8.2	0.45	
843	1	1660.15	20.975	1660.15	20.63	756.74	18.0	8.2	0.45	
844	1	1647.94	21	1647.94	24.54	790.84	18.0	8.2	0.45	
845	1	1696.77	21.025	1696.77	25.88	844.01	18.0	8.2	0.45	
846	1	1770.01	21.05	1770.01	20.87	851.16	18.0	8.2	0.45	
847	1	1971.43	21.075	1971.43	24.17	807.11	18.0	8.2	0.45	
848	1	2374.26	21.1	2374.26	25.94	828.29	18.0	8.2	0.45	
849	1	2343.74	21.125	2343.74	25.63	620.1	18.0	8.2	0.45	
850	1	1824.95	21.15	1824.95	24.72	269.5	18.0	8.2	0.45	
851	1	1477.05	21.175	1477.05	23.99	368.41	18.0	8.2	0.45	
852	1	1312.25	21.2	1312.25	23.68	479.94	18.0	8.2	0.45	
853	1	1190.18	21.225	1190.18	18.74	544.48	18.0	8.2	0.45	
854	1	1171.87	21.25	1171.87	12.39	583.34	18.0	8.2	0.45	
855	1	1159.66	21.275	1159.66	10.13	614.77	18.0	8.2	0.45	
856	1	1153.56	21.3	1153.56	9.89	646.47	18.0	8.2	0.45	
857	1	1074.22	21.325	1074.22	9.77	672.99	18.0	8.2	0.45	
858	1	1062.01	21.35	1062.01	9.89	690.67	18.0	8.2	0.45	
859	1	1116.94	21.375	1116.94	9.77	715.92	18.0	8.2	0.45	
860	1	1123.04	21.4	1123.04	10.25	735.42	18.0	8.2	0.45	
861	1	1129.15	21.425	1129.15	10.44	749.03	18.0	8.2	0.45	
862	1	1141.35	21.45	1141.35	10.5	766.85	18.0	8.2	0.45	
863	1	1141.35	21.475	1141.35	10.68	772.88	18.0	8.2	0.45	
864	1	1153.56	21.5	1153.56	10.86	787.47	18.0	8.2	0.45	
865	1	1147.46	21.525	1147.46	10.93	797.99	18.0	8.2	0.45	
866	1	1147.46	21.55	1147.46	11.05	806.55	18.0	8.2	0.45	
867	1	1153.56	21.575	1153.56	11.54	808.37	18.0	8.2	0.45	
868	1	1159.66	21.6	1159.66	11.78	819.18	18.0	8.2	0.45	
869	1	1153.56	21.625	1153.56	11.72	824.65	18.0	8.2	0.45	
870	1	1159.66	21.65	1159.66	11.54	833.91	18.0	8.2	0.45	
871	1	1147.46	21.675	1147.46	10.25	834.33	18.0	8.2	0.45	
872	1	1196.29	21.7	1196.29	10.31	829.42	18.0	8.2	0.45	
873	1	1226.8	21.725	1226.8	10.01	843.45	18.0	8.2	0.45	
874	1	1202.39	21.75	1202.39	10.56	811.18	18.0	8.2	0.45	
875	1	1208.49	21.775	1208.49	10.93	777.79	18.0	8.2	0.45	
876	1	1184.08	21.8	1184.08	10.93	815.67	18.0	8.2	0.45	
877	1	1196.29	21.825	1196.29	10.86	834.47	18.0	8.2	0.45	
878	1	1196.29	21.85	1196.29	10.07	830.26	18.0	8.2	0.45	
879	1	1177.98	21.875	1177.98	9.95	837.27	18.0	8.2	0.45	
880	1	1165.77	21.9	1165.77	9.83	830.96	18.0	8.2	0.45	
881	1	1159.66	21.925	1159.66	10.74	833.34	18.0	8.2	0.45	
882	1	1153.56	21.95	1153.56	11.17	839.38	18.0	8.2	0.45	
883	1	1141.35	21.975	1141.35	10.86	833.2	18.0	8.2	0.45	
884	1	1171.87	22	1171.87	10.93	844.01	18.0	8.2	0.45	
885	1	1202.39	22.025	1202.39	11.17	866.03	18.0	8.2	0.45	
886	1	1208.49	22.05	1208.49	11.78	869.4	18.0	8.2	0.45	
887	1	1214.6	22.075	1214.6	12.7	833.91	18.0	8.2	0.45	
888	1	1214.6	22.1	1214.6	12.63	831.66	18.0	8.2	0.45	
889	1	1202.39	22.125	1202.39	12.63	805.57	18.0	8.2	0.45	
890	1	1141.35	22.15	1141.35	14.47	743.56	18.0	8.2	0.45	
891	1	1135.25	22.175	1135.25	14.04	777.93	18.0	8.2	0.45	
892	1	1171.87	22.2	1171.87	12.7	790.56	18.0	8.2	0.45	
893	1	1196.29	22.225	1196.29	12.76	742.43	18.0	8.2	0.45	
894	1	1251.22	22.25	1251.22	12.63	800.8	18.0	8.2	0.45	
895	1	1318.36	22.275	1318.36	12.82	833.34	18.0	8.2	0.45	
896	1	1208.49	22.3	1208.49	12.33	727.28	18.0	8.2	0.45	
897	1	1141.35	22.325	1141.35	11.66	723.07	18.0	8.2	0.45	
898	1	1141.35	22.35	1141.35	11.72	779.47	18.0	8.2	0.45	
899	1	1141.35	22.375	1141.35	12.76	799.95	18.0	8.2	0.45	
900	1	1135.25	22.4	1135.25	11.84	810.2	18.0	8.2	0.45	
901	1	1141.35	22.425	1141.35	11.78	806.97	18.0	8.2	0.45	
902	1	1159.66	22.45	1159.66	11.11	810.06	18.0	8.2	0.45	
903	1	1153.56	22.475	1153.56	11.66	824.65	18.0	8.2	0.45	
904	1	1135.25	22.5	1135.25	12.15	824.37	18.0	8.2	0.45	
905	1	1141.35	22.525	1141.35	13.12	833.2	18.0	8.2	0.45	

	A	B	C	D	E	F	G	H	I	J
906	1	1147.46	22.55	1147.46	14.16	831.94	18.0	8.2	0.45	
907	1	1153.56	22.575	1153.56	13.67	838.82	18.0	8.2	0.45	
908	1	1159.66	22.6	1159.66	13.67	846.39	18.0	8.2	0.45	
909	1	1184.08	22.625	1184.08	14.53	865.19	18.0	8.2	0.45	
910	1	1257.32	22.65	1257.32	14.95	864.07	18.0	8.2	0.45	
911	1	1220.7	22.675	1220.7	17.88	846.53	18.0	8.2	0.45	
912	1	1226.8	22.7	1226.8	22.28	805.29	18.0	8.2	0.45	
913	1	1257.32	22.725	1257.32	24.48	838.11	18.0	8.2	0.45	
914	1	1257.32	22.75	1257.32	25.82	860.14	18.0	8.2	0.45	
915	1	1416.01	22.775	1416.01	32.1	900.26	18.0	8.2	0.45	
916	1	2093.5	22.8	2093.5	48.4	1049.96	18.0	8.2	0.45	
917	1	2502.43	22.825	2502.43	67.69	1158.97	20.5	10.7	0.51	
918	1	2661.13	22.85	2661.13	87.59	859.44	20.5	10.7	0.51	
919	1	2746.57	22.875	2746.57	101.6	683.79	20.5	10.7	0.51	
920	1	2746.57	22.9	2746.57	112.3	655.45	20.5	10.7	0.51	
921	1	2764.89	22.925	2764.89	115.4	655.59	20.5	10.7	0.51	
922	1	2612.3	22.95	2612.3	116.3	664.71	20.5	10.7	0.51	
923	1	2502.43	22.975	2502.43	113.8	604.25	20.5	10.7	0.51	
924	1	2374.26	23	2374.26	105.5	525.12	20.5	10.7	0.51	
925	1	2233.88	23.025	2233.88	95.09	465.78	20.5	10.7	0.51	
926	1	2087.4	23.05	2087.4	86.73	459.88	20.5	10.7	0.51	
927	1	1928.71	23.075	1928.71	77.58	520.21	20.5	10.7	0.51	
928	1	1831.05	23.1	1831.05	64.09	544.62	20.5	10.7	0.51	
929	1	1898.19	23.125	1898.19	49.56	494.96	20.5	10.7	0.51	
930	1	1940.91	23.15	1940.91	36.5	493.13	20.5	10.7	0.51	
931	1	1867.67	23.175	1867.67	28.87	474.05	20.5	10.7	0.51	
932	1	1721.19	23.2	1721.19	26.31	486.96	20.5	10.7	0.51	
933	1	1531.98	23.225	1531.98	26.06	568.89	20.5	10.7	0.51	
934	1	1568.6	23.25	1568.6	28.14	630.34	20.5	10.7	0.51	
935	1	1629.63	23.275	1629.63	31.37	615.19	20.5	10.7	0.51	
936	1	1660.15	23.3	1660.15	33.75	569.17	20.5	10.7	0.51	
937	1	1672.36	23.325	1672.36	35.77	592.74	20.5	10.7	0.51	
938	1	1782.22	23.35	1782.22	40.1	645.07	20.5	10.7	0.51	
939	1	1910.4	23.375	1910.4	42.85	699.5	20.5	10.7	0.51	
940	1	2081.29	23.4	2081.29	44.31	649.14	20.5	10.7	0.51	
941	1	2185.05	23.425	2185.05	44.74	525.96	20.5	10.7	0.51	
942	1	2178.95	23.45	2178.95	45.78	507.58	20.5	10.7	0.51	
943	1	2136.22	23.475	2136.22	41.75	458.9	20.5	10.7	0.51	
944	1	2014.15	23.5	2014.15	38.21	470.26	20.5	10.7	0.51	
945	1	1922.6	23.525	1922.6	35.52	489.48	20.5	10.7	0.51	
946	1	1861.57	23.55	1861.57	37.29	536.2	20.5	10.7	0.51	
947	1	1953.12	23.575	1953.12	43.82	642.12	20.5	10.7	0.51	
948	1	2563.47	23.6	2563.47	53.1	770.07	20.5	10.7	0.51	
949	1	3546.13	23.625	3546.13	48.83	633.29	20.5	10.7	0.51	
950	1	4101.55	23.65	4101.55	53.59	242.85	20.5	10.7	0.51	
951	1	3955.07	23.675	3955.07	50.66	184.21	20.5	10.7	0.51	
952	1	3301.99	23.7	3301.99	53.22	194.45	20.5	10.7	0.51	
953	1	2954.09	23.725	2954.09	58.35	330.11	20.5	10.7	0.51	
954	1	2850.33	23.75	2850.33	65.43	419.76	20.5	10.7	0.51	
955	1	2917.47	23.775	2917.47	57.74	533.54	20.5	10.7	0.51	
956	1	2728.26	23.8	2728.26	57.74	434.07	20.5	10.7	0.51	
957	1	2612.3	23.825	2612.3	50.29	487.94	20.5	10.7	0.51	
958	1	2532.95	23.85	2532.95	49.44	532.98	20.5	10.7	0.51	
959	1	2514.64	23.875	2514.64	49.19	579.69	20.5	10.7	0.51	
960	1	2661.13	23.9	2661.13	45.04	575.06	20.5	10.7	0.51	
961	1	2746.57	23.925	2746.57	38.21	480.23	20.5	10.7	0.51	
962	1	2758.78	23.95	2758.78	31.62	377.11	20.5	10.7	0.51	
963	1	2453.61	23.975	2453.61	24.6	322.96	20.5	10.7	0.51	
964	1	1959.22	24	1959.22	22.34	345.12	20.5	10.7	0.51	
965	1	1635.74	24.025	1635.74	20.69	405.31	20.5	10.7	0.51	
966	1	1391.6	24.05	1391.6	20.51	546.72	20.5	10.7	0.51	
967	1	1348.87	24.075	1348.87	18.92	614.35	20.5	10.7	0.51	
968	1	1354.98	24.1	1354.98	18.19	657.7	20.5	10.7	0.51	
969	1	1403.8	24.125	1403.8	16.48	706.24	20.5	10.7	0.51	
970	1	1531.98	24.15	1531.98	18.92	748.75	20.5	10.7	0.51	
971	1	1702.88	24.175	1702.88	22.77	782.42	20.5	10.7	0.51	
972	1	1910.4	24.2	1910.4	32.71	812.3	20.5	10.7	0.51	
973	1	2416.99	24.225	2416.99	49.32	846.11	20.5	10.7	0.51	
974	1	3356.92	24.25	3356.92	57.98	807.11	20.5	10.7	0.51	
975	1	4266.35	24.275	4266.35	76.66	491.31	20.5	10.7	0.51	

	A	B	C	D	E	F	G	H	I	J
976	1	4791.25	24.3	4791.25	111.6	319.45	20.5	10.7	0.51	
977	1	4718	24.325	4718	119.9	205.11	20.5	10.7	0.51	
978	1	4815.66	24.35	4815.66	122.2	378.37	20.5	10.7	0.51	
979	1	6524.64	24.375	6524.64	110.9	566.23	20.5	10.7	0.51	
980	1	9545.87	24.4	9545.87	93.99	270.49	20.5	10.7	0.51	
981	1	10931.4	24.425	10931.37	96.37	46.02	20.5	10.7	0.51	
982	1	11322	24.45	11321.99	106.6	38.72	20.5	10.7	0.51	
983	1	11291.5	24.475	11291.47	117.2	27.08	20.5	10.7	0.51	
984	1	11114.5	24.5	11114.47	149.7	31	20.5	10.7	0.51	
985	1	11114.5	24.525	11114.47	169.8	31.15	20.5	10.7	0.51	
986	1	11206	24.55	11206.03	163.3	24.27	20.5	10.7	0.51	
987	1	10968	24.575	10967.99	142.2	16.27	20.5	10.7	0.51	
988	1	9967.01	24.6	9967.01	176.7	13.47	20.5	10.7	0.51	
989	1	8581.52	24.625	8581.52	175.1	32.41	20.5	10.7	0.51	
990	1	7366.92	24.65	7366.92	184.9	39.84	20.5	10.7	0.51	
991	1	6707.75	24.675	6707.75	164.7	172.28	20.5	10.7	0.51	
992	1	8575.42	24.7	8575.42	161.2	327.87	20.5	10.7	0.51	
993	1	11187.7	24.725	11187.71	172.6	79.13	20.5	10.7	0.51	
994	1	12310.8	24.75	12310.76	185.6	62.01	20.5	10.7	0.51	
995	1	13769.5	24.775	13769.5	166.6	30.16	20.5	10.7	0.51	
996	1	14215.1	24.8	14215.05	147.8	25.25	20.5	10.7	0.51	
997	1	14282.2	24.825	14282.19	137.9	18.8	20.5	10.7	0.51	
998	1	14337.1	24.85	14337.12	137.5	30.86	20.5	10.7	0.51	
999	1	14416.5	24.875	14416.47	134.5	35.63	20.5	10.7	0.51	
1000	1	14062.5	24.9	14062.46	130.8	31.29	20.5	10.7	0.51	
1001	1	13635.2	24.925	13635.22	127.5	26.09	20.5	10.7	0.51	
1002	1	13305.6	24.95	13305.63	130	21.04	20.5	10.7	0.51	
1003	1	12469.5	24.975	12469.45	133.4	25.25	20.5	10.7	0.51	
1004	1	11456.3	25	11456.27	137.9	29.6	20.5	10.7	0.51	
1005	1	10290.5	25.025	10290.5	141.4	23.99	20.5	10.7	0.51	
1006	1	9411.6	25.05	9411.6	150.8	17.4	20.5	10.7	0.51	
1007	1	7952.86	25.075	7952.86	166	21.61	20.5	10.7	0.51	
1008	1	7177.72	25.1	7177.72	161.9	31	20.5	10.7	0.51	
1009	1	6646.71	25.125	6646.71	163.5	55.28	20.5	10.7	0.51	
1010	1	5505.36	25.15	5505.36	163.8	60.33	20.5	10.7	0.51	
1011	1	4577.62	25.175	4577.62	136	110.97	20.5	10.7	0.51	
1012	1	4095.45	25.2	4095.45	119.9	176.21	20.5	10.7	0.51	
1013	1	3643.79	25.225	3643.79	111.5	233.59	20.5	10.7	0.51	
1014	1	3576.65	25.25	3576.65	110.4	303.32	20.5	10.7	0.51	
1015	1	3869.62	25.275	3869.62	101.3	302.33	20.5	10.7	0.51	
1016	1	4669.18	25.3	4669.18	101.3	348.35	20.5	10.7	0.51	
1017	1	5383.29	25.325	5383.29	102.5	277.64	20.5	10.7	0.51	
1018	1	5786.12	25.35	5786.12	90.7	161.2	20.5	10.7	0.51	
1019	1	5645.74	25.375	5645.74	78	133.28	20.5	10.7	0.51	
1020	1	5676.25	25.4	5676.25	70.19	116.44	20.5	10.7	0.51	
1021	1	5255.11	25.425	5255.11	74.95	90.35	20.5	10.7	0.51	
1022	1	4766.83	25.45	4766.83	73.49	105.36	20.5	10.7	0.51	
1023	1	4180.9	25.475	4180.9	63.48	165.97	20.5	10.7	0.51	
1024	1	3546.13	25.5	3546.13	52.86	151.66	20.5	10.7	0.51	
1025	1	3289.79	25.525	3289.79	37.29	138.33	20.5	10.7	0.51	
1026	1	2868.64	25.55	2868.64	27.28	173.26	20.5	10.7	0.51	
1027	1	2337.64	25.575	2337.64	21.79	180	20.5	10.7	0.51	
1028	1	1947.02	25.6	1947.02	19.78	235.83	20.5	10.7	0.51	
1029	1	1727.29	25.625	1727.29	19.78	317.06	20.5	10.7	0.51	
1030	1	1635.74	25.65	1635.74	20.39	387.35	20.5	10.7	0.51	
1031	1	1617.43	25.675	1617.43	24.9	414.29	20.5	10.7	0.51	
1032	1	1617.43	25.7	1617.43	26.37	442.63	20.5	10.7	0.51	
1033	1	1739.5	25.725	1739.5	31.25	466.62	20.5	10.7	0.51	
1034	1	1867.67	25.75	1867.67	38.57	478.68	20.5	10.7	0.51	
1035	1	1983.64	25.775	1983.64	46.87	420.04	20.5	10.7	0.51	
1036	1	1983.64	25.8	1983.64	50.84	461.85	20.5	10.7	0.51	
1037	1	2020.26	25.825	2020.26	52.18	518.67	20.5	10.7	0.51	
1038	1	2178.95	25.85	2178.95	54.93	657.14	20.5	10.7	0.51	
1039	1	2770.99	25.875	2770.99	46.08	724.2	20.5	10.7	0.51	
1040	1	3051.75	25.9	3051.75	38.27	387.91	20.5	10.7	0.51	
1041	1	2514.64	25.925	2514.64	34.18	290.27	20.5	10.7	0.51	
1042	1	2014.15	25.95	2014.15	32.04	342.74	20.5	10.7	0.51	
1043	1	1824.95	25.975	1824.95	39.43	517.82	20.5	10.7	0.51	
1044	1	2020.26	26	2020.26	45.59	582.92	20.5	10.7	0.51	
1045	1	2239.98	26.025	2239.98	50.41	530.59	20.5	10.7	0.51	

	A	B	C	D	E	F	G	H	I	J
1046	1	2313.23	26.05	2313.23	58.78	429.86	20.5	10.7	0.51	
1047	1	2484.12	26.075	2484.12	67.26	447.54	20.5	10.7	0.51	
1048	1	2532.95	26.1	2532.95	82.52	418.36	20.5	10.7	0.51	
1049	1	2642.82	26.125	2642.82	89.78	397.31	20.5	10.7	0.51	
1050	1	2703.85	26.15	2703.85	94.12	317.63	20.5	10.7	0.51	
1051	1	2819.82	26.175	2819.82	97.11	253.93	20.5	10.7	0.51	
1052	1	2923.58	26.2	2923.58	101.9	231.2	20.5	10.7	0.51	
1053	1	2929.68	26.225	2929.68	106.4	228.54	20.5	10.7	0.51	
1054	1	2905.27	26.25	2905.27	97.72	234.99	20.5	10.7	0.51	
1055	1	2850.33	26.275	2850.33	95.64	225.59	20.5	10.7	0.51	
1056	1	2911.37	26.3	2911.37	97.9	236.39	20.5	10.7	0.51	
1057	1	2862.54	26.325	2862.54	96.37	249.86	20.5	10.7	0.51	
1058	1	2746.57	26.35	2746.57	92.22	197.39	20.5	10.7	0.51	
1059	1	2612.3	26.375	2612.3	87.04	212.83	20.5	10.7	0.51	
1060	1	2624.5	26.4	2624.5	84.17	240.6	20.5	10.7	0.51	
1061	1	2606.19	26.425	2606.19	83.37	216.47	20.5	10.7	0.51	
1062	1	2490.23	26.45	2490.23	79.1	196.83	20.5	10.7	0.51	
1063	1	2355.95	26.475	2355.95	73.97	219.7	20.5	10.7	0.51	
1064	1	2258.29	26.5	2258.29	73.97	279.18	20.5	10.7	0.51	
1065	1	2270.5	26.525	2270.5	69.46	301.63	20.5	10.7	0.51	
1066	1	2264.4	26.55	2264.4	69.21	375.85	20.5	10.7	0.51	
1067	1	2899.16	26.575	2899.16	70.37	511.79	20.5	10.7	0.51	
1068	1	4467.76	26.6	4467.76	92.83	451.18	20.5	10.7	0.51	
1069	1	6286.6	26.625	6286.6	115.2	174.67	20.5	10.7	0.51	
1070	1	7220.44	26.65	7220.44	139.3	89.23	20.5	10.7	0.51	
1071	1	7397.44	26.675	7397.44	179	98.49	20.5	10.7	0.51	
1072	1	8520.49	26.7	8520.49	150.8	119.11	20.5	10.7	0.51	
1073	1	11627.2	26.725	11627.17	130.7	107.61	20.5	10.7	0.51	
1074	1	14001.4	26.75	14001.43	126.1	77.86	20.5	10.7	0.51	
1075	1	11987.3	26.775	11987.27	142.8	75.06	20.5	10.7	0.51	
1076	1	8813.45	26.8	8813.45	147.8	67.34	20.5	10.7	0.51	
1077	1	6414.78	26.825	6414.78	132.6	66.5	20.5	10.7	0.51	
1078	1	4925.52	26.85	4925.52	132.2	83.33	20.5	10.7	0.51	
1079	1	3802.48	26.875	3802.48	133.4	194.87	20.5	10.7	0.51	
1080	1	3161.61	26.9	3161.61	122.9	273.01	20.5	10.7	0.51	
1081	1	2337.64	26.925	2337.64	98.02	631.46	20.5	10.7	0.51	
1082	1	2014.15	26.95	2014.15	72.33	756.18	20.5	10.7	0.51	
1083	1	1959.22	26.975	1959.22	60.06	839.94	20.5	10.7	0.51	
1084	1	1922.6	27	1922.6	28.87	892.41	20.5	10.7	0.51	
1085	1	1879.88	27.025	1879.88	23.07	900.26	20.5	10.7	0.51	
1086	1	1861.57	27.05	1861.57	20.14	922.57	20.5	10.7	0.51	
1087	1	1879.88	27.075	1879.88	17.7	955.82	20.5	10.7	0.51	
1088	1	1910.4	27.1	1910.4	16.85	937.16	20.5	10.7	0.51	
1089	1	1770.01	27.125	1770.01	18.25	926.78	20.5	10.7	0.51	
1090	1	1684.57	27.15	1684.57	16.97	951.19	20.5	10.7	0.51	
1091	1	1568.6	27.175	1568.6	16.66	984.86	20.5	10.7	0.51	
1092	1	1550.29	27.2	1550.29	16.85	1012.78	20.5	10.7	0.51	
1093	1	1562.5	27.225	1562.5	18.8	995.8	20.5	10.7	0.51	
1094	1	1525.87	27.25	1525.87	18.31	1007.17	20.5	10.7	0.51	
1095	1	1519.77	27.275	1519.77	18.55	1007.45	20.5	10.7	0.51	
1096	1	1544.19	27.3	1544.19	18.92	981.5	20.5	10.7	0.51	
1097	1	1531.98	27.325	1531.98	18.8	961.71	20.5	10.7	0.51	
1098	1	1458.74	27.35	1458.74	18.68	1000.86	20.5	10.7	0.51	
1099	1	1458.74	27.375	1458.74	18.92	1031.02	20.5	10.7	0.51	
1100	1	1483.15	27.4	1483.15	18.19	1061.04	20.5	10.7	0.51	
1101	1	1531.98	27.425	1531.98	17.58	1077.46	20.5	10.7	0.51	
1102	1	1550.29	27.45	1550.29	17.58	1093.87	20.5	10.7	0.51	
1103	1	1556.39	27.475	1556.39	17.82	1111.69	20.5	10.7	0.51	
1104	1	1623.53	27.5	1623.53	17.64	1122.21	20.5	10.7	0.51	
1105	1	1623.53	27.525	1623.53	17.21	1155.04	20.5	10.7	0.51	
1106	1	1617.43	27.55	1617.43	16.6	1181.55	20.5	10.7	0.51	
1107	1	1586.91	27.575	1586.91	16.24	1211.44	20.5	10.7	0.51	
1108	1	1562.5	27.6	1562.5	15.32	1220.42	20.5	10.7	0.51	
1109	1	1550.29	27.625	1550.29	14.77	1228.69	20.5	10.7	0.51	
1110	1	1550.29	27.65	1550.29	14.4	1229.53	20.5	10.7	0.51	
1111	1	1513.67	27.675	1513.67	11.78	1224.62	20.5	10.7	0.51	
1112	1	1513.67	27.7	1513.67	12.63	1214.38	20.5	10.7	0.51	
1113	1	1495.36	27.725	1495.36	12.7	1202.6	20.5	10.7	0.51	
1114	1	1464.84	27.75	1464.84	12.57	1190.25	20.5	10.7	0.51	
1115	1	1440.43	27.775	1440.43	12.08	1124.31	20.5	10.7	0.51	

	A	B	C	D	E	F	G	H	I	J
1116	1	1416.01	27.8	1416.01	12.15	1170.47	20.5	10.7	0.51	
1117	1	1403.8	27.825	1403.8	12.15	1173.98	20.5	10.7	0.51	
1118	1	1385.49	27.85	1385.49	12.02	1177.06	20.5	10.7	0.51	
1119	1	1379.39	27.875	1379.39	12.45	1178.75	20.5	10.7	0.51	
1120	1	1373.29	27.9	1373.29	12.82	1188.01	20.5	10.7	0.51	
1121	1	1391.6	27.925	1391.6	11.72	1199.65	20.5	10.7	0.51	
1122	1	1422.12	27.95	1422.12	11.66	1207.79	20.5	10.7	0.51	
1123	1	1458.74	27.975	1458.74	11.66	1222.8	20.5	10.7	0.51	
1124	1	1501.46	28	1501.46	11.47	1228.69	20.5	10.7	0.51	
1125	1	1470.94	28.025	1470.94	10.93	1212	20.5	10.7	0.51	
1126	1	1440.43	28.05	1440.43	10.93	1206.53	20.5	10.7	0.51	
1127	1	1373.29	28.075	1373.29	11.11	1193.76	20.5	10.7	0.51	
1128	1	1354.98	28.1	1354.98	11.9	1170.89	20.5	10.7	0.51	
1129	1	1379.39	28.125	1379.39	11.35	1173.7	20.5	10.7	0.51	
1130	1	1373.29	28.15	1373.29	10.74	1176.5	20.5	10.7	0.51	
1131	1	1354.98	28.175	1354.98	11.23	1185.06	20.5	10.7	0.51	
1132	1	1367.18	28.2	1367.18	11.41	1194.6	20.5	10.7	0.51	
1133	1	1373.29	28.225	1373.29	11.54	1206.67	20.5	10.7	0.51	
1134	1	1379.39	28.25	1379.39	11.23	1181.27	20.5	10.7	0.51	
1135	1	1452.63	28.275	1452.63	11.72	1201.34	20.5	10.7	0.51	
1136	1	1379.39	28.3	1379.39	11.47	1164.44	20.5	10.7	0.51	
1137	1	1361.08	28.325	1361.08	13.43	1151.95	20.5	10.7	0.51	
1138	1	1367.18	28.35	1367.18	14.04	1180.57	20.5	10.7	0.51	
1139	1	1416.01	28.375	1416.01	15.99	1197.13	20.5	10.7	0.51	
1140	1	1519.77	28.4	1519.77	10.44	1215.93	20.5	10.7	0.51	
1141	1	1611.32	28.425	1611.32	14.71	1220.7	20.5	10.7	0.51	
1142	1	2319.33	28.45	2319.33	35.58	1268.82	20.5	10.7	0.51	
1143	1	3930.65	28.475	3930.65	50.66	1196.85	20.5	10.7	0.51	
1144	1	5010.97	28.5	5010.97	75.01	633.99	20.5	10.7	0.51	
1145	1	5487.05	28.525	5487.05	83.86	255.62	20.5	10.7	0.51	
1146	1	6286.6	28.55	6286.6	128.1	138.61	20.5	10.7	0.51	
1147	1	6433.09	28.575	6433.09	153.1	72.67	20.5	10.7	0.51	
1148	1	5841.05	28.6	5841.05	155.5	66.36	20.5	10.7	0.51	
1149	1	4937.73	28.625	4937.73	162.8	120.51	20.5	10.7	0.51	
1150	1	4284.66	28.65	4284.66	174.6	83.76	20.5	10.7	0.51	
1151	1	4876.7	28.675	4876.7	159.1	294.2	20.5	10.7	0.51	
1152	1	5566.39	28.7	5566.39	156.1	154.6	20.5	10.7	0.51	
1153	1	6628.4	28.725	6628.4	156.7	85.58	20.5	10.7	0.51	
1154	1	7373.03	28.75	7373.03	197.6	47.7	20.5	10.7	0.51	
1155	1	7885.72	28.775	7885.72	179.8	37.46	20.5	10.7	0.51	
1156	1	6939.68	28.8	6939.68	164.9	34.93	20.5	10.7	0.51	
1157	1	6793.19	28.825	6793.19	138.9	132.44	20.5	10.7	0.51	
1158	1	9155.25	28.85	9155.25	118.5	338.11	20.5	10.7	0.51	
1159	1	11773.7	28.875	11773.65	111.5	87.26	20.5	10.7	0.51	
1160	1	11364.7	28.9	11364.72	125	31.57	20.5	10.7	0.51	
1161	1	9167.46	28.925	9167.46	122.2	29.04	20.5	10.7	0.51	
1162	1	6915.26	28.95	6915.26	113.3	19.92	20.5	10.7	0.51	
1163	1	4589.83	28.975	4589.83	107.4	21.61	20.5	10.7	0.51	
1164	1	3015.13	29	3015.13	104.7	39.56	20.5	10.7	0.51	
1165	1	2404.78	29.025	2404.78	98.82	174.67	20.5	10.7	0.51	
1166	1	2307.12	29.05	2307.12	70.01	379.07	20.5	10.7	0.51	
1167	1	2355.95	29.075	2355.95	55.54	505.76	20.5	10.7	0.51	
1168	1	2270.5	29.1	2270.5	52.12	611.4	20.5	10.7	0.51	
1169	1	2215.57	29.125	2215.57	36.19	656.01	20.5	10.7	0.51	
1170	1	2764.89	29.15	2764.89	41.93	780.73	20.5	10.7	0.51	
1171	1	3747.55	29.175	3747.55	58.47	709.18	20.5	10.7	0.51	
1172	1	5047.59	29.2	5047.59	70.01	418.92	20.5	10.7	0.51	
1173	1	5181.87	29.225	5181.87	82.95	235.13	20.5	10.7	0.51	
1174	1	4260.24	29.25	4260.24	84.66	134.54	20.5	10.7	0.51	
1175	1	3295.89	29.275	3295.89	84.23	211.84	20.5	10.7	0.51	
1176	1	2453.61	29.3	2453.61	74.28	279.18	20.5	10.7	0.51	
1177	1	2154.54	29.325	2154.54	63.23	462.13	20.5	10.7	0.51	
1178	1	2044.67	29.35	2044.67	45.65	564.82	20.5	10.7	0.51	
1179	1	1928.71	29.375	1928.71	26.92	666.82	20.5	10.7	0.51	
1180	1	1818.84	29.4	1818.84	23.56	688.7	20.5	10.7	0.51	
1181	1	1751.7	29.425	1751.7	22.83	725.74	20.5	10.7	0.51	
1182	1	1733.39	29.45	1733.39	21.24	739.77	20.5	10.7	0.51	
1183	1	1739.5	29.475	1739.5	20.26	788.03	20.5	10.7	0.51	
1184	1	1715.08	29.5	1715.08	19.65	809.49	20.5	10.7	0.51	
1185	1	1635.74	29.525	1635.74	19.65	822.26	20.5	10.7	0.51	

	A	B	C	D	E	F	G	H	I	J
1186	1	1605.22	29.55	1605.22	18.86	852.28	20.5	10.7	0.51	
1187	1	1678.46	29.575	1678.46	19.71	878.52	20.5	10.7	0.51	
1188	1	1666.26	29.6	1666.26	19.23	892.83	20.5	10.7	0.51	
1189	1	1593.01	29.625	1593.01	18.68	842.88	20.5	10.7	0.51	
1190	1	1660.15	29.65	1660.15	18.92	919.91	20.5	10.7	0.51	
1191	1	1757.81	29.675	1757.81	20.02	948.25	20.5	10.7	0.51	
1192	1	1812.74	29.7	1812.74	18.19	965.36	20.5	10.7	0.51	
1193	1	1818.84	29.725	1818.84	18.8	983.6	20.5	10.7	0.51	
1194	1	1904.29	29.75	1904.29	18.68	985.56	20.5	10.7	0.51	
1195	1	1855.46	29.775	1855.46	18.49	1014.32	20.5	10.7	0.51	
1196	1	1727.29	29.8	1727.29	17.15	1021.34	20.5	10.7	0.51	
1197	1	1617.43	29.825	1617.43	16.36	1002.82	20.5	10.7	0.51	
1198	1	1623.53	29.85	1623.53	16.36	1040.28	20.5	10.7	0.51	
1199	1	1660.15	29.875	1660.15	15.01	1033.68	20.5	10.7	0.51	
1200	1	1635.74	29.9	1635.74	13.92	1036.21	20.5	10.7	0.51	
1201	1	1599.12	29.925	1599.12	13.55	1050.1	20.5	10.7	0.51	
1202	1	1531.98	29.95	1531.98	13.55	1041.26	20.5	10.7	0.51	
1203	1	1556.39	29.975	1556.39	13.18	1057.53	20.5	10.7	0.51	
1204	1	1531.98	30	1531.98	13.37	1065.67	20.5	10.7	0.51	
1205	1	1544.19	30.025	1544.19	12.7	1080.54	20.5	10.7	0.51	
1206	1	1538.08	30.05	1538.08	12.94	1088.68	20.5	10.7	0.51	
1207	1	1580.81	30.075	1580.81	13.73	1092.47	20.5	10.7	0.51	
1208	1	1623.53	30.1	1623.53	13.61	1104.81	20.5	10.7	0.51	
1209	1	1617.43	30.125	1617.43	13.06	1071.7	20.5	10.7	0.51	
1210	1	1562.5	30.15	1562.5	13.73	1074.93	20.5	10.7	0.51	
1211	1	1580.81	30.175	1580.81	13.55	1080.82	20.5	10.7	0.51	
1212	1	1550.29	30.2	1550.29	13.73	1097.94	20.5	10.7	0.51	
1213	1	1550.29	30.225	1550.29	13.61	1112.25	20.5	10.7	0.51	
1214	1	1544.19	30.25	1544.19	13.98	1124.59	20.5	10.7	0.51	
1215	1	1562.5	30.275	1562.5	13.49	1134.56	20.5	10.7	0.51	
1216	1	1599.12	30.3	1599.12	13.18	1142.69	20.5	10.7	0.51	
1217	1	1568.6	30.325	1568.6	13.73	1167.1	20.5	10.7	0.51	
1218	1	1708.98	30.35	1708.98	14.53	1178.05	20.5	10.7	0.51	
1219	1	1763.91	30.375	1763.91	15.5	1178.89	20.5	10.7	0.51	
1220	1	1806.64	30.4	1806.64	16.05	1122.49	20.5	10.7	0.51	
1221	1	1770.01	30.425	1770.01	16.78	1053.61	20.5	10.7	0.51	
1222	1	1770.01	30.45	1770.01	17.09	1111.83	20.5	10.7	0.51	
1223	1	1739.5	30.475	1739.5	19.84	1112.67	20.5	10.7	0.51	
1224	1	1654.05	30.5	1654.05	18.31	1106.5	20.5	10.7	0.51	
1225	1	1654.05	30.525	1654.05	15.38	1134.13	20.5	10.7	0.51	
1226	1	1660.15	30.55	1660.15	16.05	1149.57	20.5	10.7	0.51	
1227	1	1812.74	30.575	1812.74	18.25	1222.24	20.5	10.7	0.51	
1228	1	1947.02	30.6	1947.02	19.59	1247.21	20.5	10.7	0.51	
1229	1	2044.67	30.625	2044.67	22.77	1037.19	20.5	10.7	0.51	
1230	1	2038.57	30.65	2038.57	23.19	1045.05	20.5	10.7	0.51	
1231	1	2026.36	30.675	2026.36	30.27	1080.54	20.5	10.7	0.51	
1232	1	2026.36	30.7	2026.36	31.49	1111.27	20.5	10.7	0.51	
1233	1	2099.6	30.725	2099.6	30.94	1182.12	20.5	10.7	0.51	
1234	1	2252.19	30.75	2252.19	31.49	1188.85	20.5	10.7	0.51	
1235	1	2423.09	30.775	2423.09	33.2	1062.58	20.5	10.7	0.51	
1236	1	2441.4	30.8	2441.4	32.17	1042.94	20.5	10.7	0.51	
1237	1	2239.98	30.825	2239.98	30.46	974.34	20.5	10.7	0.51	
1238	1	2008.05	30.85	2008.05	29.91	914.15	20.5	10.7	0.51	
1239	1	1824.95	30.875	1824.95	28.56	987.25	20.5	10.7	0.51	
1240	1	1684.57	30.9	1684.57	25.7	1060.06	20.5	10.7	0.51	
1241	1	1660.15	30.925	1660.15	23.44	1089.52	20.5	10.7	0.51	
1242	1	1715.08	30.95	1715.08	19.96	1124.88	20.5	10.7	0.51	
1243	1	1733.39	30.975	1733.39	17.76	1150.55	20.5	10.7	0.51	
1244	1	1794.43	31	1794.43	17.33	1191.37	20.5	10.7	0.51	
1245	1	1745.6	31.025	1745.6	16.6	1177.91	20.5	10.7	0.51	
1246	1	1715.08	31.05	1715.08	16.6	1202.88	20.5	10.7	0.51	
1247	1	1727.29	31.075	1727.29	16.78	1225.33	20.5	10.7	0.51	
1248	1	1708.98	31.1	1708.98	17.27	1219.99	20.5	10.7	0.51	
1249	1	1715.08	31.125	1715.08	16.6	1225.47	20.5	10.7	0.51	
1250	1	1684.57	31.15	1684.57	15.56	1227.15	20.5	10.7	0.51	
1251	1	1702.88	31.175	1702.88	15.62	1233.88	20.5	10.7	0.51	
1252	1	1727.29	31.2	1727.29	16.17	1259.7	20.5	10.7	0.51	
1253	1	1751.7	31.225	1751.7	16.36	1274.15	20.5	10.7	0.51	
1254	1	1739.5	31.25	1739.5	16.17	1273.73	20.5	10.7	0.51	
1255	1	1696.77	31.275	1696.77	16.6	1267.97	20.5	10.7	0.51	

	A	B	C	D	E	F	G	H	I	J
1256	1	1715.08	31.3	1715.08	16.66	1268.4	20.5	10.7	0.51	
1257	1	1708.98	31.325	1708.98	17.09	1292.67	20.5	10.7	0.51	
1258	1	1715.08	31.35	1715.08	16.72	1295.89	20.5	10.7	0.51	
1259	1	1690.67	31.375	1690.67	16.42	1291.68	20.5	10.7	0.51	
1260	1	1690.67	31.4	1690.67	15.93	1289.72	20.5	10.7	0.51	
1261	1	1739.5	31.425	1739.5	15.5	1313.85	20.5	10.7	0.51	
1262	1	1800.53	31.45	1800.53	15.56	1324.79	20.5	10.7	0.51	
1263	1	1818.84	31.475	1818.84	15.5	1295.61	20.5	10.7	0.51	
1264	1	1745.6	31.5	1745.6	16.36	1299.96	20.5	10.7	0.51	
1265	1	1696.77	31.525	1696.77	16.72	1305.15	20.5	10.7	0.51	
1266	1	1684.57	31.55	1684.57	16.3	1301.22	20.5	10.7	0.51	
1267	1	1708.98	31.575	1708.98	16.42	1320.87	20.5	10.7	0.51	
1268	1	1733.39	31.6	1733.39	16.11	1341.63	20.5	10.7	0.51	
1269	1	1763.91	31.625	1763.91	16.85	1359.45	20.5	10.7	0.51	
1270	1	1770.01	31.65	1770.01	18.13	1325.78	20.5	10.7	0.51	
1271	1	1739.5	31.675	1739.5	17.94	1340.93	20.5	10.7	0.51	
1272	1	1745.6	31.7	1745.6	18.25	1350.05	20.5	10.7	0.51	
1273	1	1818.84	31.725	1818.84	19.53	1366.74	20.5	10.7	0.51	
1274	1	1879.88	31.75	1879.88	20.75	1404.76	20.5	10.7	0.51	
1275	1	2001.95	31.775	2001.95	20.14	1427.07	20.5	10.7	0.51	
1276	1	2044.67	31.8	2044.67	27.77	1412.9	20.5	10.7	0.51	
1277	1	2062.98	31.825	2062.98	26.79	1431.98	20.5	10.7	0.51	
1278	1	2069.09	31.85	2069.09	23.61	1417.25	20.5	10.7	0.51	
1279	1	2239.98	31.875	2239.98	22.83	1439.55	20.5	10.7	0.51	
1280	1	3619.38	31.9	3619.38	45.17	396.47	20.5	10.7	0.51	
1281	1	5017.08	31.925	5017.08	63.29	914.43	20.5	10.7	0.51	
1282	1	5023.18	31.95	5023.18	74.95	296.58	20.5	10.7	0.51	
1283	1	3649.89	31.975	3649.89	94.6	271.33	20.5	10.7	0.51	
1284	1	4180.9	32	4180.9	123.5	713.39	20.5	10.7	0.51	
1285	1	7061.75	32.025	7061.75	134.2	866.88	20.5	10.7	0.51	
1286	1	11340.3	32.05	11340.3	130.5	357.75	20.5	10.7	0.51	
1287	1	13690.2	32.075	13690.15	140.9	25.25	20.5	10.7	0.51	
1288	1	12799	32.1	12799.04	153.8	12.21	20.5	10.7	0.51	
1289	1	11114.5	32.125	11114.47	173.6	20.9	20.5	10.7	0.51	
1290	1	9320.04	32.15	9320.04	194.2	45.6	20.5	10.7	0.51	
1291	1	7379.13	32.175	7379.13	195.7	47.14	20.5	10.7	0.51	
1292	1	5401.6	32.2	5401.6	173.9	172.84	20.5	10.7	0.51	
1293	1	4052.72	32.225	4052.72	153	330.11	20.5	10.7	0.51	
1294	1	3100.58	32.25	3100.58	122.6	452.31	20.5	10.7	0.51	
1295	1	2893.06	32.275	2893.06	81.73	591.06	20.5	10.7	0.51	
1296	1	2618.4	32.3	2618.4	52.67	541.11	20.5	10.7	0.51	
1297	1	2429.19	32.325	2429.19	32.29	536.9	20.5	10.7	0.51	
1298	1	2117.91	32.35	2117.91	25.94	582.36	20.5	10.7	0.51	
1299	1	1910.4	32.375	1910.4	25.63	627.25	20.5	10.7	0.51	
1300	1	1831.05	32.4	1831.05	23.99	663.03	20.5	10.7	0.51	
1301	1	1831.05	32.425	1831.05	22.95	672.43	20.5	10.7	0.51	
1302	1	1861.57	32.45	1861.57	22.03	686.6	20.5	10.7	0.51	
1303	1	1873.77	32.475	1873.77	22.46	694.45	20.5	10.7	0.51	
1304	1	1892.08	32.5	1892.08	25.94	717.32	20.5	10.7	0.51	
1305	1	1983.64	32.525	1983.64	27.77	775.96	20.5	10.7	0.51	
1306	1	2124.02	32.55	2124.02	28.5	774.84	20.5	10.7	0.51	
1307	1	2239.98	32.575	2239.98	31.19	717.04	20.5	10.7	0.51	
1308	1	2221.67	32.6	2221.67	36.32	741.73	20.5	10.7	0.51	
1309	1	2160.64	32.625	2160.64	40.16	784.52	20.5	10.7	0.51	
1310	1	2239.98	32.65	2239.98	45.35	822.54	20.5	10.7	0.51	
1311	1	2386.47	32.675	2386.47	52	877.82	20.5	10.7	0.51	
1312	1	2777.09	32.7	2777.09	75.5	949.37	20.5	10.7	0.51	
1313	1	3991.69	32.725	3991.69	111.7	851.58	20.5	10.7	0.51	
1314	1	5731.19	32.75	5731.19	145.7	741.73	20.5	10.7	0.51	
1315	1	8111.55	32.775	8111.55	162.7	115.18	20.5	10.7	0.51	
1316	1	7543.93	32.8	7543.93	143.3	84.18	20.5	10.7	0.51	
1317	1	6732.16	32.825	6732.16	139.5	72.95	20.5	10.7	0.51	
1318	1	6134.02	32.85	6134.02	131.3	80.67	20.5	10.7	0.51	
1319	1	4852.28	32.875	4852.28	125.3	99.75	20.5	10.7	0.51	
1320	1	3906.24	32.9	3906.24	109.9	98.35	20.5	10.7	0.51	
1321	1	3045.65	32.925	3045.65	91.67	173.96	20.5	10.7	0.51	
1322	1	2502.43	32.95	2502.43	80.44	247.48	20.5	10.7	0.51	
1323	1	2319.33	32.975	2319.33	67.57	299.39	20.5	10.7	0.51	
1324	1	2136.22	33	2136.22	50.84	325.62	20.5	10.7	0.51	
1325	1	2056.88	33.025	2056.88	44.01	366.73	20.5	10.7	0.51	

	K	L	M	N	O	P	Q	R	S	T	U	V
1												
2												
3												
4												
5												
6												
7												
8												
9												
10	13	14	15	16	17	18	19	20	21	22	23	24
11	$\Delta\sigma_v'$ (kPa)	σ_{vo} (kPa)	σ_{vo}' (kPa)	q_t (kPa)	Q (kPa)	I_c	F (%)	$Q_{recal(1)}$	C_{Qtest}	C_Q	q_{c1N}	$I_c \text{ recal}(1)$
12												
13	4.61	4.61	4.61	9681.83	2098.04	0.29	0.11	4505.91	4.66	2	194	1.21
14	0.51	5.13	5.13	34078.30	6648.42	0.44	0.11	15051.01	4.42	2	682	0.69
15	0.51	5.64	5.64	31538.13	5593.35	0.36	0.10	13280.52	4.21	2	631	0.71
16	0.51	6.15	6.15	26492.43	4306.71	0.25	0.09	10680.30	4.03	2	530	0.77
17	0.51	6.66	6.66	23109.85	3467.65	0.24	0.10	8950.62	3.87	2	462	0.84
18	0.51	7.18	7.18	20192.67	2813.31	0.18	0.09	7535.79	3.73	2	404	0.88
19	0.51	7.69	7.69	18775.62	2441.36	0.27	0.11	6768.99	3.61	2	375	0.93
20	0.51	8.20	8.20	16193.65	1973.84	0.30	0.11	5652.21	3.49	2	324	0.99
21	0.51	8.71	8.71	13711.87	1572.82	0.55	0.18	4642.47	3.39	2	274	1.14
22	0.51	9.23	9.23	11146.78	1207.32	0.59	0.17	3666.96	3.29	2	223	1.21
23	0.51	9.74	9.74	8698.31	892.28	0.83	0.27	2784.36	3.2	2	174	1.39
24	0.51	10.25	10.25	6750.43	657.58	1.01	0.36	2105.28	3.12	2	135	1.55
25	0.51	10.76	10.76	4950.05	458.93	1.26	0.56	1505.59	3.05	2	99	1.77
26	0.51	11.28	11.28	3576.42	316.20	1.52	0.89	1061.74	2.98	2	72	1.99
27	0.51	11.79	11.79	2581.74	218.02	1.76	1.36	748.54	2.91	2	52	2.22
28	0.51	12.30	12.30	1973.22	159.42	1.95	1.84	559.12	2.85	2	39	2.39
29	0.51	12.81	12.81	1460.28	112.97	2.11	2.23	404.38	2.79	2	29	2.55
30	0.51	13.33	13.33	1084.32	80.37	2.26	2.58	293.40	2.74	2	22	2.69
31	0.51	13.84	13.84	994.11	70.84	2.21	1.93	263.52	2.69	2	20	2.64
32	0.51	14.35	14.35	890.69	61.07	2.24	1.79	231.34	2.64	2	18	2.67
33	0.51	14.86	14.86	977.80	64.79	2.16	1.48	249.78	2.59	2	19	2.59
34	0.51	15.38	15.38	1356.91	87.25	1.98	1.10	342.13	2.55	2	27	2.40
35	0.51	15.89	15.89	1722.85	107.44	1.84	0.85	428.25	2.51	2	34	2.25
36	0.51	16.40	16.40	1402.41	84.51	1.98	1.04	342.25	2.47	2	28	2.37
37	0.45	16.85	16.85	1383.85	81.13	2.01	1.11	333.02	2.44	2	28	2.39
38	0.45	17.30	17.30	1438.11	82.13	2.01	1.13	341.60	2.4	2	29	2.38
39	0.45	17.75	17.75	1370.32	76.20	2.06	1.24	321.04	2.37	2	27	2.42
40	0.45	18.20	18.20	1265.84	68.55	2.16	1.55	292.45	2.34	2	25	2.50
41	0.45	18.65	18.65	1301.33	68.78	2.17	1.61	297.02	2.32	2	26	2.50
42	0.45	19.10	19.10	922.83	47.32	2.39	2.26	206.79	2.29	2	18	2.71
43	0.45	19.55	19.55	837.78	41.85	2.46	2.54	185.06	2.26	2	17	2.77
44	0.45	20.00	20.00	776.89	37.84	2.45	2.19	169.24	2.24	2	16	2.76
45	0.45	20.45	20.45	703.69	33.41	2.39	1.47	151.09	2.21	2	14	2.71
46	0.45	20.90	20.90	704.07	32.69	2.39	1.43	149.44	2.19	2	14	2.70
47	0.45	21.35	21.35	766.10	34.88	2.38	1.52	161.18	2.16	2	15	2.68
48	0.45	21.80	21.80	784.68	34.99	2.38	1.50	163.39	2.14	2	16	2.67
49	0.45	22.25	22.25	904.94	39.67	2.32	1.42	187.13	2.12	2	18	2.60
50	0.45	22.70	22.70	770.11	32.93	2.45	1.79	156.87	2.1	2	15	2.72
51	0.45	23.15	23.15	665.93	27.77	2.57	2.33	133.59	2.08	2	13	2.83
52	0.45	23.60	23.60	653.41	26.69	2.68	3.28	26.69	4.24	2	13	2.68
53	0.45	24.05	24.05	714.76	28.72	2.62	2.92	28.72	4.16	2	14	2.62
54	0.45	24.50	24.50	635.45	24.94	2.65	2.73	24.94	4.08	2	13	2.65
55	0.45	24.95	24.95	647.56	24.95	2.60	2.22	124.65	2	2	13	2.83
56	0.45	25.40	25.40	849.21	32.43	2.41	1.56	163.46	1.98	1.98419	17	2.65
57	0.45	25.85	25.85	1379.81	52.38	2.13	1.00	266.30	1.97	1.96684	27	2.37
58	0.45	26.30	26.30	1574.36	58.86	2.02	0.74	301.86	1.95	1.94994	31	2.26
59	0.45	26.75	26.75	1928.50	71.09	1.98	0.82	367.70	1.93	1.93347	37	2.21
60	0.45	27.20	27.20	1995.84	72.38	1.98	0.84	377.47	1.92	1.91741	38	2.21
61	0.45	27.65	27.65	1922.85	68.54	1.96	0.73	360.42	1.9	1.90175	37	2.19
62	0.45	28.10	28.10	1732.67	60.66	2.05	0.88	321.56	1.89	1.88646	33	2.28
63	0.45	28.55	28.55	1634.98	56.27	2.06	0.83	300.65	1.87	1.87153	31	2.29
64	0.45	29.00	29.00	1550.40	52.46	2.11	0.91	282.52	1.86	1.85695	29	2.33
65	0.45	29.45	29.45	1373.31	45.63	2.18	0.97	247.63	1.84	1.84271	25	2.39

	K	L	M	N	O	P	Q	R	S	T	U	V
66	0.45	29.90	29.90	1220.60	39.82	2.27	1.18	217.75	1.83	1.82879	22	2.48
67	0.45	30.35	30.35	1092.47	35.00	2.36	1.41	192.79	1.82	1.81518	20	2.57
68	0.45	30.80	30.80	927.65	29.12	2.50	1.87	161.60	1.8	1.80187	17	2.70
69	0.45	31.25	31.25	836.08	25.75	2.58	2.18	143.97	1.79	1.78885	15	2.77
70	0.45	31.70	31.70	689.70	20.76	2.70	2.56	20.76	3.15	2	14	2.70
71	0.45	32.15	32.15	592.36	17.42	2.52	0.88	98.80	1.76	1.76364	10	2.71
72	0.45	32.60	32.60	629.06	18.30	2.55	1.15	104.47	1.75	1.75142	11	2.74
73	0.45	33.05	33.05	622.96	17.85	2.59	1.31	102.61	1.74	1.73946	11	2.78
74	0.45	33.50	33.50	672.52	19.08	2.60	1.50	110.41	1.73	1.72774	12	2.78
75	0.45	33.95	33.95	629.67	17.55	2.70	2.02	17.55	2.95	2	13	2.70
76	0.45	34.40	34.40	649.45	17.88	2.71	2.20	17.88	2.91	2	13	2.71
77	0.45	34.85	34.85	729.69	19.94	2.67	2.15	19.94	2.87	2	15	2.67
78	0.45	35.30	35.30	779.27	21.08	2.64	2.11	21.08	2.83	2	16	2.64
79	0.45	35.75	35.75	766.94	20.45	2.67	2.27	20.45	2.8	2	15	2.67
80	0.45	36.20	36.20	754.41	19.84	2.69	2.30	19.84	2.76	2	15	2.69
81	0.45	36.65	36.65	711.44	18.41	2.71	2.30	18.41	2.73	2	14	2.71
82	0.45	37.10	37.10	710.49	18.15	2.74	2.47	18.15	2.7	2	14	2.74
83	0.45	37.55	37.55	692.77	17.45	2.75	2.51	17.45	2.66	2	14	2.75
84	0.45	38.00	38.00	692.73	17.23	2.76	2.51	17.23	2.63	2	14	2.76
85	0.45	38.45	38.45	716.80	17.64	2.76	2.59	17.64	2.6	2	14	2.76
86	0.45	38.90	38.90	815.03	19.95	2.68	2.29	19.95	2.57	2	16	2.68
87	0.45	39.35	39.35	821.53	19.88	2.70	2.42	19.88	2.54	2	16	2.70
88	0.45	39.80	39.80	937.69	22.56	2.62	2.09	22.56	2.51	2	19	2.62
89	0.45	40.25	40.25	937.90	22.30	2.64	2.24	22.30	2.48	2	19	2.64
90	0.45	40.70	40.70	913.12	21.44	2.66	2.34	21.44	2.46	2	18	2.66
91	0.45	41.15	41.15	900.51	20.88	2.64	2.05	20.88	2.43	2	18	2.64
92	0.45	41.60	41.60	998.51	23.00	2.62	2.14	23.00	2.4	2	20	2.62
93	0.45	42.05	42.05	1163.34	26.67	2.62	2.59	26.67	2.38	2	23	2.62
94	0.45	42.50	42.50	1346.01	30.67	2.52	2.20	199.95	1.53	1.53393	21	2.66
95	0.45	42.95	42.95	1369.10	30.88	2.54	2.35	202.35	1.53	1.52587	21	2.68
96	0.45	43.40	43.40	1155.35	25.62	2.64	2.64	25.62	2.3	2	23	2.64
97	0.45	43.85	43.85	1124.98	24.66	2.67	2.86	24.66	2.28	2	22	2.67
98	0.45	44.30	44.30	1088.82	23.58	2.69	2.90	23.58	2.26	2	22	2.69
99	0.45	44.75	44.75	1253.98	27.02	2.59	2.39	180.76	1.49	1.49487	19	2.72
100	0.45	45.20	45.20	1155.96	24.57	2.63	2.46	24.57	2.21	2	23	2.63
101	0.45	45.65	45.65	1174.90	24.74	2.61	2.33	24.74	2.19	2	23	2.61
102	0.45	46.10	46.10	1174.96	24.49	2.61	2.23	24.49	2.17	2	23	2.61
103	0.45	46.55	46.55	1156.91	23.85	2.61	2.19	23.85	2.15	2	23	2.61
104	0.45	47.00	47.00	1194.05	24.41	2.60	2.14	167.31	1.46	1.45865	17	2.72
105	0.45	47.45	47.45	1261.40	25.58	2.57	2.04	176.23	1.45	1.45172	18	2.69
106	0.45	47.90	47.90	1218.98	24.45	2.59	2.12	169.21	1.44	1.44488	18	2.71
107	0.45	48.35	48.35	1201.47	23.85	2.61	2.15	23.85	2.07	2	24	2.61
108	0.45	48.80	48.80	1165.28	22.88	2.62	2.13	22.88	2.05	2	23	2.62
109	0.45	49.25	49.25	1189.87	23.16	2.60	2.02	162.53	1.42	1.42494	17	2.71
110	0.45	49.70	49.70	1085.54	20.84	2.63	1.97	20.84	2.01	2	22	2.63
111	0.45	50.15	50.15	1030.69	19.55	2.65	1.94	19.55	1.99	1.99402	20	2.65
112	0.45	50.60	50.60	957.71	17.93	2.73	2.35	17.93	1.98	1.97628	19	2.73
113	0.45	51.05	51.05	891.20	16.46	2.82	3.04	16.46	1.96	1.95886	17	2.82
114	0.45	51.50	51.50	818.90	14.90	2.89	3.44	14.90	1.94	1.94175	16	2.89
115	0.45	51.95	51.95	863.31	15.62	2.86	3.23	15.62	1.92	1.92493	16	2.86
116	0.45	52.40	52.40	1133.57	20.63	2.67	2.30	20.63	1.91	1.9084	22	2.67
117	0.45	52.85	52.85	1029.39	18.48	2.73	2.44	18.48	1.89	1.89215	19	2.73
118	0.45	53.30	53.30	913.65	16.14	2.76	2.28	16.14	1.88	1.87617	17	2.76
119	0.45	53.75	53.75	920.23	16.12	2.73	2.02	16.12	1.86	1.86047	17	2.73
120	0.45	54.20	54.20	951.60	16.56	2.66	1.59	16.56	1.85	1.84502	17	2.66
121	0.45	54.65	54.65	958.65	16.54	2.62	1.30	16.54	1.83	1.82983	17	2.62
122	0.45	55.10	55.10	959.58	16.42	2.60	1.16	121.85	1.35	1.34718	13	2.69
123	0.45	55.55	55.55	960.57	16.29	2.62	1.26	16.29	1.8	1.80018	17	2.62
124	0.45	56.00	56.00	863.75	14.42	2.73	1.68	14.42	1.79	1.78571	15	2.73
125	0.45	56.45	56.45	785.03	12.91	2.83	2.24	12.91	1.77	1.77148	14	2.83
126	0.45	56.90	56.90	754.98	12.27	2.87	2.42	12.27	1.76	1.75747	13	2.87
127	0.45	57.35	57.35	730.71	11.74	2.90	2.54	11.74	1.74	1.74368	13	2.90
128	0.45	57.80	57.80	737.26	11.76	2.89	2.51	11.76	1.73	1.7301	13	2.89
129	0.45	58.25	58.25	816.79	13.02	2.82	2.17	13.02	1.72	1.71674	14	2.82
130	0.45	58.70	58.70	944.76	15.09	2.69	1.58	15.09	1.7	1.70358	16	2.69
131	0.45	59.15	59.15	993.12	15.79	2.66	1.44	15.79	1.69	1.69062	17	2.66
132	0.45	59.60	59.60	844.85	13.18	2.71	1.32	13.18	1.68	1.67785	14	2.71
133	0.45	60.05	60.05	734.46	11.23	2.81	1.63	11.23	1.67	1.66528	12	2.81
134	0.45	60.50	60.50	685.70	10.33	2.83	1.53	10.33	1.65	1.65289	11	2.83
135	0.45	60.95	60.95	667.68	9.95	2.86	1.64	9.95	1.64	1.64069	11	2.86

	K	L	M	N	O	P	Q	R	S	T	U	V
136	0.45	61.40	61.40	606.85	8.88	2.90	1.61	8.88	1.63	1.62866	10	2.90
137	0.45	61.85	61.85	588.82	8.52	2.97	2.10	8.52	1.62	1.61681	9	2.97
138	0.45	62.30	62.30	570.67	8.16	3.05	2.75	8.16	1.61	1.60514	9	3.05
139	0.45	62.75	62.75	540.30	7.61	3.09	2.95	7.61	1.59	1.59363	8	3.09
140	0.45	63.20	63.20	491.57	6.78	3.15	3.21	6.78	1.58	1.58228	8	3.15
141	0.45	63.65	63.65	479.40	6.53	3.17	3.18	6.53	1.57	1.57109	7	3.17
142	0.45	64.10	64.10	467.25	6.29	3.18	3.19	6.29	1.56	1.56006	7	3.18
143	0.45	64.55	64.55	412.57	5.39	3.24	3.21	5.39	1.55	1.54919	6	3.24
144	0.45	65.00	65.00	431.09	5.63	3.16	2.43	5.63	1.54	1.53846	6	3.16
145	0.45	65.45	65.45	443.37	5.77	3.10	1.96	5.77	1.53	1.52788	7	3.10
146	0.45	65.90	65.90	474.20	6.20	3.05	1.72	6.20	1.52	1.51745	7	3.05
147	0.45	66.35	66.35	455.89	5.87	3.07	1.72	5.87	1.51	1.50716	7	3.07
148	0.45	66.80	66.80	425.54	5.37	3.11	1.80	5.37	1.5	1.49701	6	3.11
149	0.45	67.25	67.25	449.95	5.69	3.06	1.55	5.69	1.49	1.48699	7	3.06
150	0.45	67.70	67.70	419.43	5.20	3.09	1.49	5.20	1.48	1.4771	6	3.09
151	0.45	68.15	68.15	425.81	5.25	2.97	0.82	5.25	1.47	1.46735	6	2.97
152	0.45	68.60	68.60	438.33	5.39	3.01	1.06	5.39	1.46	1.45773	6	3.01
153	0.45	69.05	69.05	456.90	5.62	3.01	1.15	5.62	1.45	1.44823	6	3.01
154	0.45	69.50	69.50	445.01	5.40	3.03	1.20	5.40	1.44	1.43885	6	3.03
155	0.45	69.95	69.95	472.32	5.75	3.02	1.27	5.75	1.43	1.42959	7	3.02
156	0.45	70.40	70.40	455.09	5.46	3.08	1.60	5.46	1.42	1.42045	6	3.08
157	0.45	70.85	70.85	461.66	5.52	3.08	1.61	5.52	1.41	1.41143	6	3.08
158	0.45	71.30	71.30	418.66	4.87	3.17	1.95	4.87	1.4	1.40252	6	3.17
159	0.45	71.75	71.75	412.20	4.74	3.18	2.01	4.74	1.39	1.39373	6	3.18
160	0.45	72.20	72.20	418.63	4.80	3.14	1.71	4.80	1.39	1.38504	6	3.14
161	0.45	72.65	72.65	425.16	4.85	3.11	1.46	4.85	1.38	1.37646	6	3.11
162	0.45	73.10	73.10	462.16	5.32	3.05	1.27	5.32	1.37	1.36799	6	3.05
163	0.45	73.55	73.55	486.78	5.62	3.02	1.24	5.62	1.36	1.35962	6	3.02
164	0.45	74.00	74.00	456.14	5.16	3.08	1.41	5.16	1.35	1.35135	6	3.08
165	0.45	74.45	74.45	418.84	4.63	3.12	1.38	4.63	1.34	1.34318	5	3.12
166	0.45	74.90	74.90	442.48	4.91	3.11	1.48	4.91	1.34	1.33511	6	3.11
167	0.45	75.35	75.35	485.23	5.44	3.09	1.64	5.44	1.33	1.32714	6	3.09
168	0.45	75.80	75.80	522.44	5.89	3.06	1.67	5.89	1.32	1.31926	7	3.06
169	0.45	76.25	76.25	522.65	5.85	3.08	1.78	5.85	1.31	1.31148	7	3.08
170	0.45	76.70	76.70	535.34	5.98	3.09	2.00	5.98	1.3	1.30378	7	3.09
171	0.45	77.15	77.15	578.55	6.50	3.10	2.35	6.50	1.3	1.29618	7	3.10
172	0.45	77.60	77.60	603.24	6.77	3.11	2.68	6.77	1.29	1.28866	8	3.11
173	0.45	78.05	78.05	583.64	6.48	3.16	3.12	6.48	1.28	1.28123	7	3.16
174	0.45	78.50	78.50	550.94	6.02	3.23	3.76	6.02	1.27	1.27389	7	3.23
175	0.45	78.95	78.95	488.23	5.18	3.34	4.67	5.18	1.27	1.26662	6	3.34
176	0.45	79.40	79.40	512.23	5.45	3.32	4.63	5.45	1.26	1.25945	6	3.32
177	0.45	79.85	79.85	487.54	5.11	3.36	4.88	5.11	1.25	1.25235	6	3.36
178	0.45	80.30	80.30	469.48	4.85	3.37	4.78	4.85	1.25	1.24533	6	3.37
179	0.45	80.75	80.75	475.89	4.89	3.34	4.33	4.89	1.24	1.23839	6	3.34
180	0.45	81.20	81.20	476.03	4.86	3.33	4.14	4.86	1.23	1.23153	6	3.33
181	0.45	81.65	81.65	463.99	4.68	3.36	4.31	4.68	1.22	1.22474	6	3.36
182	0.45	82.10	82.10	470.45	4.73	3.34	4.09	4.73	1.22	1.21803	6	3.34
183	0.45	82.55	82.55	495.40	5.00	3.30	3.80	5.00	1.21	1.21139	6	3.30
184	0.45	83.00	83.00	532.84	5.42	3.25	3.38	5.42	1.2	1.20482	6	3.25
185	0.45	83.45	83.45	557.96	5.69	3.20	3.03	5.69	1.2	1.19832	7	3.20
186	0.45	83.90	83.90	564.55	5.73	3.20	3.07	5.73	1.19	1.1919	7	3.20
187	0.45	84.35	84.35	601.28	6.13	3.18	3.05	6.13	1.19	1.18554	7	3.18
188	0.45	84.80	84.80	564.95	5.66	3.22	3.22	5.66	1.18	1.17925	6	3.22
189	0.45	85.25	85.25	565.14	5.63	3.21	3.10	5.63	1.17	1.17302	6	3.21
190	0.45	85.70	85.70	540.94	5.31	3.21	2.84	5.31	1.17	1.16686	6	3.21
191	0.45	86.15	86.15	547.62	5.36	3.15	2.17	5.36	1.16	1.16077	6	3.15
192	0.45	86.60	86.60	560.47	5.47	3.17	2.40	5.47	1.15	1.15473	6	3.17
193	0.45	87.05	87.05	536.33	5.16	3.22	2.80	5.16	1.15	1.14877	6	3.22
194	0.45	87.50	87.50	506.50	4.79	3.25	2.85	4.79	1.14	1.14286	6	3.25
195	0.45	87.95	87.95	743.39	7.45	2.97	1.69	7.45	1.14	1.13701	8	2.97
196	0.45	88.40	88.40	675.05	6.64	3.04	1.89	6.64	1.13	1.13122	7	3.04
197	0.20	88.85	88.60	657.77	6.42	3.08	2.18	6.42	1.13	1.12861	7	3.08
198	0.20	89.30	88.81	617.08	5.94	3.13	2.34	5.94	1.13	1.12601	7	3.13
199	0.20	89.75	89.01	619.40	5.95	3.12	2.24	5.95	1.12	1.12342	7	3.12
200	0.20	90.20	89.22	614.47	5.88	3.11	2.10	5.88	1.12	1.12084	7	3.11
201	0.20	90.65	89.42	639.66	6.14	3.09	2.10	6.14	1.12	1.11827	7	3.09
202	0.20	91.10	89.63	646.15	6.19	3.11	2.26	6.19	1.12	1.11572	7	3.11
203	0.20	91.55	89.83	677.88	6.53	3.09	2.34	6.53	1.11	1.11317	7	3.09
204	0.20	92.00	90.04	721.60	6.99	3.04	2.03	6.99	1.11	1.11064	8	3.04
205	0.23	92.47	90.27	782.34	7.64	3.01	2.08	7.64	1.11	1.10782	8	3.01

	K	L	M	N	O	P	Q	R	S	T	U	V
206	0.23	92.95	90.50	825.26	8.09	3.00	2.21	8.09	1.11	1.105	9	3.00
207	0.23	93.42	90.73	971.99	9.68	2.93	2.20	9.68	1.1	1.1022	10	2.93
208	0.23	93.90	90.96	1190.52	12.06	2.75	1.37	12.06	1.1	1.09942	13	2.75
209	0.23	94.37	91.19	1416.75	14.50	2.62	1.06	14.50	1.1	1.09665	15	2.62
210	0.23	94.85	91.42	1466.56	15.01	2.64	1.21	15.01	1.09	1.09389	16	2.64
211	0.23	95.32	91.65	1444.19	14.72	2.70	1.58	14.72	1.09	1.09115	16	2.70
212	0.23	95.80	91.88	1295.90	13.06	2.81	2.09	13.06	1.09	1.08842	14	2.81
213	0.23	96.27	92.11	1142.66	11.36	2.91	2.53	11.36	1.09	1.08571	12	2.91
214	0.23	96.75	92.34	1144.05	11.34	2.86	2.02	11.34	1.08	1.08301	12	2.86
215	0.23	97.22	92.57	1555.11	15.75	2.62	1.24	15.75	1.08	1.08032	17	2.62
216	0.23	97.70	92.79	2354.66	24.32	2.35	0.73	234.29	1.04	1.0381	24	2.35
217	0.23	98.17	93.02	2595.60	26.85	2.31	0.71	258.94	1.04	1.03681	27	2.31
218	0.23	98.65	93.25	2673.23	27.61	2.29	0.71	266.61	1.04	1.03554	28	2.29
219	0.23	99.12	93.48	2696.88	27.79	2.32	0.80	268.68	1.03	1.03426	28	2.32
220	0.23	99.60	93.71	2934.37	30.25	2.30	0.87	292.83	1.03	1.03299	30	2.30
221	0.23	100.08	93.94	3239.19	33.41	2.25	0.81	323.87	1.03	1.03173	33	2.25
222	0.23	100.55	94.17	3323.71	34.23	2.19	0.65	332.14	1.03	1.03047	34	2.19
223	0.23	101.03	94.40	3096.51	31.73	2.11	0.35	308.30	1.03	1.02922	32	2.11
224	0.23	101.50	94.63	2668.49	27.13	2.23	0.49	263.88	1.03	1.02797	27	2.23
225	0.23	101.98	94.86	2021.02	20.23	2.46	0.88	197.03	1.03	1.02672	21	2.45
226	0.23	102.45	95.09	1483.47	14.52	2.74	1.81	14.52	1.05	1.05161	16	2.74
227	0.23	102.93	95.32	982.60	9.23	2.97	2.37	9.23	1.05	1.04907	10	2.97
228	0.23	103.40	95.55	885.30	8.18	3.04	2.62	8.18	1.05	1.04655	9	3.04
229	0.23	103.88	95.78	763.95	6.89	3.10	2.63	6.89	1.04	1.04404	8	3.10
230	0.23	104.35	96.01	672.81	5.92	3.12	2.27	5.92	1.04	1.04154	7	3.12
231	0.23	104.83	96.24	637.12	5.53	3.15	2.24	5.53	1.04	1.03906	7	3.15
232	0.23	105.30	96.47	644.17	5.59	3.16	2.40	5.59	1.04	1.03658	7	3.16
233	0.23	105.78	96.70	718.70	6.34	3.08	2.04	6.34	1.03	1.03412	7	3.08
234	0.23	106.25	96.93	970.12	8.91	2.86	1.36	8.91	1.03	1.03167	10	2.86
235	0.23	106.73	97.16	1639.86	15.78	2.52	0.74	155.54	1.01	1.01451	17	2.50
236	0.23	107.20	97.39	1331.85	12.57	2.66	0.95	12.57	1.03	1.0268	14	2.66
237	0.23	107.68	97.62	970.10	8.83	2.85	1.29	8.83	1.02	1.02438	10	2.85
238	0.23	108.15	97.85	707.24	6.12	3.04	1.61	6.12	1.02	1.02198	7	3.04
239	0.23	108.63	98.08	635.08	5.37	3.08	1.57	5.37	1.02	1.01958	6	3.08
240	0.23	109.10	98.31	612.16	5.12	3.07	1.30	5.12	1.02	1.0172	6	3.07
241	0.23	109.58	98.54	681.44	5.80	2.97	1.02	5.80	1.01	1.01483	7	2.97
242	0.23	110.05	98.77	800.10	6.99	2.83	0.67	6.99	1.01	1.01247	8	2.83
243	0.23	110.53	99.00	924.19	8.22	2.74	0.59	8.22	1.01	1.01012	9	2.74
244	0.23	111.00	99.23	1024.06	9.20	2.75	0.80	9.20	1.01	1.00778	10	2.75
245	0.23	111.48	99.46	1056.15	9.50	2.74	0.81	9.50	1.01	1.00545	10	2.74
246	0.23	111.95	99.69	1082.19	9.73	2.79	1.12	9.73	1	1.00313	11	2.79
247	0.23	112.43	99.92	1082.28	9.71	2.83	1.38	9.71	1	1.00083	11	2.83
248	0.23	112.90	100.15	908.89	7.95	2.96	1.79	7.95	1	0.99853	9	2.96
249	0.23	113.38	100.38	817.41	7.01	3.07	2.37	7.01	1	0.99625	8	3.07
250	0.23	113.85	100.61	700.80	5.83	3.20	3.05	5.83	0.99	0.99397	7	3.20
251	0.23	114.33	100.84	683.44	5.64	3.23	3.37	5.64	0.99	0.99171	7	3.23
252	0.23	114.80	101.07	642.66	5.22	3.25	3.17	5.22	0.99	0.98945	6	3.25
253	0.23	115.28	101.30	804.04	6.80	3.10	2.52	6.80	0.99	0.98721	8	3.10
254	0.23	115.75	101.53	1388.06	12.53	2.77	1.60	12.53	0.98	0.98497	13	2.77
255	0.23	116.23	101.76	1947.96	18.00	2.50	0.86	181.59	0.99	0.99134	19	2.48
256	0.23	116.70	101.99	2090.17	19.35	2.39	0.57	195.42	0.99	0.99022	21	2.37
257	0.23	117.18	102.21	1822.53	16.68	2.51	0.77	168.68	0.99	0.98911	18	2.48
258	0.23	117.65	102.44	1784.69	16.27	2.52	0.78	164.70	0.99	0.988	18	2.49
259	0.23	118.13	102.67	2127.53	19.57	2.45	0.80	198.31	0.99	0.98689	21	2.43
260	0.23	118.60	102.90	2384.36	22.02	2.42	0.86	223.36	0.99	0.98579	23	2.40
261	0.23	119.08	103.13	2578.18	23.84	2.35	0.72	242.15	0.98	0.98469	25	2.33
262	0.23	119.55	103.36	2723.43	25.19	2.29	0.58	256.12	0.98	0.9836	27	2.27
263	0.23	120.03	103.59	2722.46	25.12	2.28	0.55	255.69	0.98	0.9825	27	2.26
264	0.23	120.50	103.82	2288.03	20.88	2.38	0.64	212.73	0.98	0.98142	22	2.35
265	0.23	120.98	104.05	1841.65	16.54	2.51	0.79	168.68	0.98	0.98033	18	2.48
266	0.23	121.45	104.28	1572.77	13.92	2.57	0.74	142.12	0.98	0.97925	15	2.53
267	0.23	121.93	104.51	1182.34	10.15	2.78	1.17	10.15	0.96	0.95683	11	2.78
268	0.23	122.40	104.74	883.49	7.27	3.00	1.82	7.27	0.95	0.95473	8	3.00
269	0.23	122.88	104.97	695.17	5.45	3.24	3.27	5.45	0.95	0.95264	7	3.24
270	0.23	123.35	105.20	697.42	5.46	3.24	3.25	5.46	0.95	0.95056	7	3.24
271	0.23	123.83	105.43	841.21	6.80	3.14	3.07	6.80	0.95	0.94849	8	3.14
272	0.23	124.30	105.66	1829.43	16.14	2.57	1.00	165.88	0.97	0.97284	18	2.54
273	0.23	124.78	105.89	2932.04	26.51	2.22	0.43	272.81	0.97	0.97179	28	2.19
274	0.23	125.25	106.12	2422.62	21.65	2.30	0.42	223.01	0.97	0.97073	23	2.26
275	0.23	125.73	106.35	1841.89	16.14	2.47	0.60	166.41	0.97	0.96969	18	2.43

	K	L	M	N	O	P	Q	R	S	T	U	V
276	0.23	126.20	106.58	1322.44	11.22	2.69	0.89	11.22	0.94	0.93826	12	2.69
277	0.23	126.68	106.81	1108.50	9.19	2.79	1.00	9.19	0.94	0.93624	10	2.79
278	0.23	127.15	107.04	1029.60	8.43	2.85	1.17	8.43	0.93	0.93423	10	2.85
279	0.23	127.63	107.27	859.60	6.82	2.97	1.40	6.82	0.93	0.93223	8	2.97
280	0.23	128.10	107.50	805.98	6.31	3.06	1.92	6.31	0.93	0.93024	7	3.06
281	0.23	128.58	107.73	868.52	6.87	3.03	1.95	6.87	0.93	0.92826	8	3.03
282	0.23	129.05	107.96	980.54	7.89	2.93	1.52	7.89	0.93	0.92628	9	2.93
283	0.23	129.53	108.19	1093.60	8.91	2.80	0.98	8.91	0.92	0.92431	10	2.80
284	0.23	130.00	108.42	1089.98	8.85	2.79	0.93	8.85	0.92	0.92236	10	2.79
285	0.23	130.48	108.65	980.47	7.82	2.81	0.80	7.82	0.92	0.92041	9	2.81
286	0.23	130.95	108.88	888.77	6.96	2.86	0.80	6.96	0.92	0.91846	8	2.86
287	0.23	131.43	109.11	742.52	5.60	3.00	1.08	5.60	0.92	0.91653	7	3.00
288	0.23	131.90	109.34	664.54	4.87	3.08	1.30	4.87	0.91	0.9146	6	3.08
289	0.23	132.38	109.57	642.64	4.66	3.15	1.63	4.66	0.91	0.91269	6	3.15
290	0.23	132.85	109.80	650.71	4.72	3.20	2.12	4.72	0.91	0.91078	6	3.20
291	0.23	133.33	110.03	806.36	6.12	3.11	2.23	6.12	0.91	0.90887	7	3.11
292	0.23	133.80	110.26	936.67	7.28	3.01	1.90	7.28	0.91	0.90698	8	3.01
293	0.23	134.28	110.49	1027.51	8.08	3.02	2.44	8.08	0.91	0.90509	9	3.02
294	0.23	134.75	110.72	1965.68	16.54	2.65	1.47	16.54	0.9	0.90322	18	2.65
295	0.23	135.23	110.95	3979.90	34.65	2.22	0.74	365.01	0.95	0.94939	38	2.19
296	0.23	135.70	111.18	3406.09	29.42	2.27	0.70	310.17	0.95	0.94841	32	2.23
297	0.23	136.18	111.40	2350.92	19.88	2.42	0.71	209.83	0.95	0.94743	22	2.38
298	0.23	136.65	111.63	1719.67	14.18	2.65	1.13	14.18	0.9	0.89578	15	2.65
299	0.23	137.13	111.86	1322.17	10.59	2.72	0.93	10.59	0.89	0.89394	12	2.72
300	0.23	137.60	112.09	1199.87	9.48	2.74	0.81	9.48	0.89	0.89211	11	2.74
301	0.23	138.08	112.32	974.46	7.45	2.94	1.42	7.45	0.89	0.89028	9	2.94
302	0.23	138.55	112.55	835.34	6.19	3.06	1.83	6.19	0.89	0.88847	7	3.06
303	0.23	139.03	112.78	856.22	6.36	3.12	2.49	6.36	0.89	0.88666	8	3.12
304	0.23	139.50	113.01	986.47	7.49	3.10	2.98	7.49	0.88	0.88485	9	3.10
305	0.23	139.98	113.24	1660.88	13.43	2.74	1.62	13.43	0.88	0.88306	15	2.74
306	0.23	140.45	113.47	2497.97	20.78	2.57	1.50	221.31	0.94	0.93876	23	2.52
307	0.23	140.93	113.70	2640.69	21.99	2.53	1.39	234.43	0.94	0.93781	25	2.48
308	0.23	141.40	113.93	3157.72	26.47	2.38	0.99	282.59	0.94	0.93687	30	2.34
309	0.23	141.88	114.16	4372.00	37.05	2.13	0.54	395.91	0.94	0.93592	41	2.09
310	0.23	142.35	114.39	4414.64	37.35	2.08	0.43	399.45	0.93	0.93498	41	2.04
311	0.23	142.83	114.62	3100.17	25.80	2.36	0.85	276.23	0.93	0.93404	29	2.32
312	0.23	143.30	114.85	2232.28	18.19	2.52	0.97	194.92	0.93	0.93311	21	2.47
313	0.23	143.78	115.08	1651.87	13.10	2.71	1.34	13.10	0.87	0.86896	14	2.71
314	0.23	144.25	115.31	1206.22	9.21	2.93	1.97	9.21	0.87	0.86722	10	2.93
315	0.23	144.73	115.54	1148.72	8.69	2.96	2.04	8.69	0.87	0.8655	10	2.96
316	0.23	145.20	115.77	1084.92	8.12	2.99	2.14	8.12	0.86	0.86378	9	2.99
317	0.23	145.68	116.00	1183.00	8.94	2.93	1.94	8.94	0.86	0.86207	10	2.93
318	0.23	146.15	116.23	1622.77	12.70	2.77	1.62	12.70	0.86	0.86037	14	2.77
319	0.23	146.63	116.46	2273.88	18.27	2.56	1.20	197.12	0.93	0.92664	21	2.52
320	0.23	147.10	116.69	2664.91	21.58	2.44	0.90	233.08	0.93	0.92573	24	2.39
321	0.23	147.58	116.92	3628.43	29.77	2.22	0.57	321.92	0.92	0.92482	33	2.18
322	0.23	148.05	117.15	4097.24	33.71	2.13	0.45	364.87	0.92	0.92391	38	2.08
323	0.23	148.53	117.38	3507.16	28.61	2.23	0.55	310.01	0.92	0.92301	32	2.18
324	0.23	149.00	117.61	2717.97	21.84	2.40	0.75	236.89	0.92	0.92211	25	2.34
325	0.23	149.48	117.84	2131.45	16.82	2.57	1.07	182.58	0.92	0.92121	20	2.51
326	0.23	149.95	118.07	1747.37	13.53	2.66	1.12	13.53	0.85	0.84697	15	2.66
327	0.23	150.43	118.30	1860.07	14.45	2.53	0.64	157.19	0.92	0.91942	17	2.46
328	0.23	150.90	118.53	2388.11	18.88	2.36	0.46	205.49	0.92	0.91853	22	2.31
329	0.23	151.38	118.76	2257.41	17.73	2.40	0.50	193.26	0.92	0.91764	21	2.34
330	0.23	151.85	118.99	1724.09	13.21	2.58	0.69	144.13	0.92	0.91675	16	2.51
331	0.23	152.33	119.22	1272.03	9.39	2.80	1.13	9.39	0.84	0.83881	11	2.80
332	0.23	152.80	119.45	1034.63	7.38	2.93	1.37	7.38	0.84	0.8372	9	2.93
333	0.23	153.28	119.68	871.85	6.00	3.07	1.78	6.00	0.84	0.83559	7	3.07
334	0.23	153.75	119.91	772.02	5.16	3.15	2.04	5.16	0.83	0.83399	6	3.15
335	0.23	154.23	120.14	752.37	4.98	3.17	2.11	4.98	0.83	0.8324	6	3.17
336	0.23	154.70	120.37	794.27	5.31	3.15	2.16	5.31	0.83	0.83081	6	3.15
337	0.23	155.18	120.59	964.88	6.71	2.96	1.30	6.71	0.83	0.82922	8	2.96
338	0.23	155.65	120.82	1320.75	9.64	2.72	0.76	9.64	0.83	0.82765	11	2.72
339	0.23	156.13	121.05	1387.98	10.18	2.73	0.89	10.18	0.83	0.82608	11	2.73
340	0.23	156.60	121.28	1172.18	8.37	2.84	1.08	8.37	0.82	0.82451	10	2.84
341	0.23	157.08	121.51	951.03	6.53	3.01	1.60	6.53	0.82	0.82295	8	3.01
342	0.23	157.55	121.74	824.16	5.48	3.12	1.92	5.48	0.82	0.8214	7	3.12
343	0.23	158.03	121.97	753.15	4.88	3.22	2.52	4.88	0.82	0.81985	6	3.22
344	0.23	158.50	122.20	794.53	5.20	3.19	2.43	5.20	0.82	0.81831	6	3.19
345	0.23	158.98	122.43	913.29	6.16	3.07	1.90	6.16	0.82	0.81677	7	3.07

	K	L	M	N	O	P	Q	R	S	T	U	V
346	0.23	159.45	122.66	1135.35	7.96	2.95	1.69	7.96	0.82	0.81525	9	2.95
347	0.23	159.92	122.89	1514.61	11.02	2.76	1.24	11.02	0.81	0.81372	12	2.76
348	0.23	160.40	123.12	1862.64	13.83	2.61	0.89	13.83	0.81	0.8122	15	2.61
349	0.23	160.87	123.35	2180.46	16.37	2.46	0.59	181.84	0.9	0.90038	19	2.39
350	0.23	161.35	123.58	2402.17	18.13	2.34	0.35	201.57	0.9	0.89955	21	2.27
351	0.23	161.82	123.81	2583.31	19.56	2.39	0.58	217.62	0.9	0.89871	23	2.32
352	0.23	162.30	124.04	2507.55	18.91	2.44	0.70	210.57	0.9	0.89788	22	2.37
353	0.23	162.77	124.27	2109.62	15.67	2.60	1.11	15.67	0.8	0.80469	17	2.60
354	0.23	163.25	124.50	1627.57	11.76	2.81	1.74	11.76	0.8	0.80321	13	2.81
355	0.23	163.72	124.73	1332.69	9.37	2.97	2.47	9.37	0.8	0.80173	11	2.97
356	0.23	164.20	124.96	1121.64	7.66	3.05	2.53	7.66	0.8	0.80026	9	3.05
357	0.23	164.67	125.19	1009.64	6.75	3.05	2.06	6.75	0.8	0.79879	8	3.05
358	0.23	165.15	125.42	1015.26	6.78	2.98	1.43	6.78	0.8	0.79732	8	2.98
359	0.23	165.62	125.65	990.82	6.57	2.92	1.02	6.57	0.8	0.79587	8	2.92
360	0.23	166.10	125.88	911.19	5.92	2.94	0.90	5.92	0.79	0.79441	7	2.94
361	0.23	166.57	126.11	772.58	4.81	3.05	1.02	4.81	0.79	0.79297	6	3.05
362	0.23	167.05	126.34	733.85	4.49	3.07	1.01	4.49	0.79	0.79152	6	3.07
363	0.23	167.52	126.57	774.57	4.80	3.03	0.93	4.80	0.79	0.79009	6	3.03
364	0.23	168.00	126.80	790.57	4.91	2.99	0.76	4.91	0.79	0.78866	6	2.99
365	0.23	168.47	127.03	793.39	4.92	3.05	1.09	4.92	0.79	0.78723	6	3.05
366	0.23	168.95	127.26	852.08	5.37	3.08	1.56	5.37	0.79	0.78581	6	3.08
367	0.23	169.42	127.49	885.04	5.61	3.14	2.19	5.61	0.78	0.78439	7	3.14
368	0.23	169.90	127.72	951.87	6.12	3.16	2.80	6.12	0.78	0.78298	7	3.16
369	0.23	170.37	127.95	1136.00	7.55	3.04	2.36	7.55	0.78	0.78158	8	3.04
370	0.23	170.85	128.18	1350.16	9.20	2.94	2.08	9.20	0.78	0.78017	10	2.94
371	0.23	171.32	128.41	1423.18	9.75	2.92	2.13	9.75	0.78	0.77878	11	2.92
372	0.23	171.80	128.64	1358.47	9.23	2.93	2.02	9.23	0.78	0.77739	10	2.93
373	0.23	172.27	128.87	1385.91	9.42	2.92	1.97	9.42	0.78	0.7776	10	2.92
374	0.23	172.75	129.10	1609.56	11.13	2.87	2.11	11.13	0.77	0.77462	12	2.87
375	0.23	173.22	129.33	1848.81	12.96	2.78	1.79	12.96	0.77	0.77324	14	2.78
376	0.23	173.70	129.56	1956.27	13.76	2.72	1.49	13.76	0.77	0.77187	15	2.72
377	0.23	174.17	129.78	2284.83	16.26	2.62	1.28	16.26	0.77	0.77051	17	2.62
378	0.23	174.65	130.01	2570.88	18.43	2.52	1.01	210.15	0.88	0.87701	22	2.45
379	0.23	175.12	130.24	2324.92	16.51	2.55	0.94	188.37	0.88	0.87624	20	2.47
380	0.23	175.60	130.47	2016.98	14.11	2.56	0.73	161.21	0.88	0.87546	18	2.47
381	0.23	176.07	130.70	1772.04	12.21	2.62	0.73	12.21	0.77	0.76509	13	2.62
382	0.23	176.55	130.93	1491.74	10.04	2.71	0.80	10.04	0.76	0.76375	11	2.71
383	0.23	177.02	131.16	1231.22	8.04	2.86	1.09	8.04	0.76	0.76241	9	2.86
384	0.23	177.50	131.39	1107.00	7.07	2.95	1.38	7.07	0.76	0.76108	8	2.95
385	0.23	177.97	131.62	1070.01	6.78	3.00	1.58	6.78	0.76	0.75975	8	3.00
386	0.23	178.45	131.85	1093.58	6.94	2.98	1.50	6.94	0.76	0.75842	8	2.98
387	0.23	178.92	132.08	1153.03	7.37	2.90	1.15	7.37	0.76	0.7571	8	2.90
388	0.23	179.40	132.31	1229.32	7.94	2.91	1.41	7.94	0.76	0.75579	9	2.91
389	0.23	179.87	132.54	1200.15	7.70	3.00	1.98	7.70	0.75	0.75448	9	3.00
390	0.23	180.35	132.77	1170.38	7.46	3.04	2.27	7.46	0.75	0.75317	9	3.04
391	0.23	180.82	133.00	1325.15	8.60	2.82	1.06	8.60	0.75	0.75187	10	2.82
392	0.23	181.30	133.23	1905.90	12.94	2.56	0.60	149.41	0.87	0.86636	16	2.47
393	0.23	181.77	133.46	2734.14	19.12	2.32	0.36	220.94	0.87	0.86561	23	2.24
394	0.23	182.25	133.69	3190.30	22.50	2.23	0.30	260.16	0.86	0.86487	27	2.15
395	0.23	182.72	133.92	3567.22	25.27	2.18	0.29	292.46	0.86	0.86413	31	2.10
396	0.23	183.20	134.15	3188.59	22.40	2.27	0.39	259.48	0.86	0.86339	27	2.19
397	0.23	183.67	134.38	2738.22	19.01	2.47	0.85	220.37	0.86	0.86265	23	2.39
398	0.23	184.15	134.61	2412.39	16.55	2.63	1.39	16.55	0.74	0.74289	18	2.63
399	0.23	184.62	134.84	2354.98	16.10	2.63	1.29	16.10	0.74	0.74162	17	2.63
400	0.23	185.10	135.07	3812.66	26.86	2.26	0.57	312.13	0.86	0.86044	32	2.19
401	0.23	185.57	135.30	6507.86	46.73	1.92	0.29	543.53	0.86	0.85971	56	1.85
402	0.23	186.05	135.53	7532.16	54.20	1.90	0.35	631.02	0.86	0.85898	65	1.83
403	0.23	186.52	135.76	7484.77	53.76	1.94	0.43	626.38	0.86	0.85826	64	1.87
404	0.23	187.00	135.99	7043.73	50.42	1.99	0.49	587.99	0.86	0.85753	60	1.92
405	0.23	187.47	136.22	6469.50	46.12	2.07	0.61	538.25	0.86	0.85681	55	2.00
406	0.23	187.95	136.45	6225.85	44.25	2.07	0.58	516.90	0.86	0.85609	53	2.00
407	0.23	188.42	136.68	5664.11	40.06	2.10	0.56	468.37	0.86	0.85537	48	2.03
408	0.23	188.90	136.91	4455.24	31.16	2.25	0.72	364.62	0.85	0.85465	38	2.18
409	0.23	189.37	137.14	3587.27	24.78	2.40	0.96	290.16	0.85	0.85393	31	2.32
410	0.23	189.85	137.37	2934.50	19.98	2.49	1.02	234.18	0.85	0.85322	25	2.41
411	0.23	190.32	137.60	2422.80	16.22	2.54	0.87	190.32	0.85	0.8525	21	2.45
412	0.23	190.80	137.83	1954.36	12.80	2.69	1.15	12.80	0.73	0.72555	14	2.69
413	0.23	191.27	138.06	1632.87	10.44	2.87	1.88	10.44	0.72	0.72435	12	2.87
414	0.23	191.75	138.29	1392.31	8.68	2.92	1.76	8.68	0.72	0.72314	10	2.92
415	0.23	192.22	138.52	1410.12	8.79	2.90	1.60	8.79	0.72	0.72194	10	2.90

	K	L	M	N	O	P	Q	R	S	T	U	V
416	0.23	192.70	138.75	1794.91	11.55	2.74	1.21	11.55	0.72	0.72075	13	2.74
417	0.23	193.17	138.97	2267.46	14.93	2.62	1.09	14.93	0.72	0.71956	16	2.62
418	0.23	193.65	139.20	2363.42	15.59	2.58	0.99	183.90	0.85	0.84757	20	2.49
419	0.23	194.12	139.43	2515.76	16.65	2.47	0.64	196.61	0.85	0.84687	21	2.38
420	0.23	194.60	139.66	2875.79	19.20	2.36	0.46	226.87	0.85	0.84617	24	2.26
421	0.23	195.07	139.89	2790.90	18.56	2.41	0.58	219.47	0.85	0.84548	23	2.32
422	0.23	195.55	140.12	2544.70	16.76	2.54	0.93	198.45	0.84	0.84478	21	2.45
423	0.23	196.02	140.35	2252.48	14.65	2.60	0.96	173.58	0.84	0.84409	19	2.50
424	0.23	196.50	140.58	2034.84	13.08	2.63	0.92	13.08	0.71	0.71132	14	2.63
425	0.23	196.97	140.81	1903.49	12.12	2.64	0.80	12.12	0.71	0.71016	13	2.64
426	0.23	197.45	141.04	1772.64	11.17	2.72	1.02	11.17	0.71	0.70901	12	2.72
427	0.23	197.92	141.27	1635.04	10.17	2.82	1.44	10.17	0.71	0.70785	11	2.82
428	0.23	198.40	141.50	1432.91	8.72	2.92	1.77	8.72	0.71	0.7067	10	2.92
429	0.23	198.87	141.73	1311.47	7.85	2.95	1.67	7.85	0.71	0.70556	9	2.95
430	0.23	199.35	141.96	1316.54	7.87	2.93	1.51	7.87	0.7	0.70442	9	2.93
431	0.23	199.82	142.19	1321.45	7.89	3.15	3.92	7.89	0.7	0.70328	9	3.15
432	0.23	200.30	142.42	1272.24	7.53	3.10	3.03	7.53	0.7	0.70214	9	3.10
433	0.23	200.77	142.65	1359.86	8.13	2.98	1.98	8.13	0.7	0.70101	9	2.98
434	0.23	201.25	142.88	1286.61	7.60	3.00	1.93	7.60	0.7	0.69989	9	3.00
435	0.23	201.72	143.11	1826.90	11.36	2.75	1.26	11.36	0.7	0.69876	13	2.75
436	0.23	202.20	143.34	1618.58	9.88	2.80	1.24	9.88	0.7	0.69764	11	2.80
437	0.23	202.67	143.57	1646.26	10.05	2.78	1.18	10.05	0.7	0.69653	11	2.78
438	0.23	203.15	143.80	1744.31	10.72	2.74	1.08	10.72	0.7	0.69541	12	2.74
439	0.23	203.62	144.03	1668.65	10.17	2.76	1.05	10.17	0.69	0.6943	11	2.76
440	0.23	204.10	144.26	1637.29	9.93	2.76	1.03	9.93	0.69	0.6932	11	2.76
441	0.23	204.57	144.49	1693.12	10.30	2.78	1.19	10.30	0.69	0.6921	11	2.78
442	0.23	205.05	144.72	1787.96	10.94	2.80	1.46	10.94	0.69	0.691	12	2.80
443	0.23	205.52	144.95	1719.33	10.44	2.86	1.81	10.44	0.69	0.6899	12	2.86
444	0.23	206.00	145.18	1711.78	10.37	2.89	2.04	10.37	0.69	0.68881	11	2.89
445	0.23	206.47	145.41	1553.42	9.26	2.98	2.52	9.26	0.69	0.68772	10	2.98
446	0.23	206.95	145.64	1490.91	8.82	3.02	2.70	8.82	0.69	0.68664	10	3.02
447	0.23	207.42	145.87	1416.51	8.29	3.06	3.00	8.29	0.69	0.68555	9	3.06
448	0.23	207.90	146.10	1394.77	8.12	3.03	2.54	8.12	0.68	0.68448	9	3.03
449	0.23	208.37	146.33	1465.51	8.59	2.98	2.19	8.59	0.68	0.6834	10	2.98
450	0.23	208.85	146.56	2329.99	14.47	2.74	1.82	14.47	0.68	0.68233	15	2.74
451	0.23	209.32	146.79	2914.45	18.43	2.63	1.66	18.43	0.68	0.68126	19	2.63
452	0.23	209.80	147.02	2466.00	15.35	2.75	2.06	15.35	0.68	0.6802	17	2.75
453	0.23	210.27	147.25	2075.46	12.67	2.87	2.52	12.67	0.68	0.67914	14	2.87
454	0.23	210.75	147.48	1678.56	9.95	3.03	3.38	9.95	0.68	0.67808	11	3.03
455	0.23	211.22	147.71	1313.77	7.46	3.19	4.21	7.46	0.68	0.67702	9	3.19
456	0.23	211.70	147.94	1203.23	6.70	3.17	3.41	6.70	0.68	0.67597	8	3.17
457	0.23	212.17	148.16	1248.47	6.99	3.05	2.14	6.99	0.67	0.67492	8	3.05
458	0.23	212.65	148.39	3519.86	22.29	2.32	0.54	271.49	0.82	0.8209	28	2.23
459	0.23	213.12	148.62	7740.89	50.65	1.92	0.35	617.48	0.82	0.82027	63	1.84
460	0.23	213.60	148.85	6301.20	40.90	2.21	0.96	498.96	0.82	0.81963	52	2.13
461	0.23	214.07	149.08	4275.48	27.24	2.50	1.71	332.63	0.82	0.819	35	2.41
462	0.23	214.55	149.31	3058.55	19.05	2.69	2.17	19.05	0.67	0.66973	20	2.69
463	0.23	215.02	149.54	2180.13	13.14	2.85	2.46	13.14	0.67	0.6687	15	2.85
464	0.23	215.50	149.77	1817.46	10.70	3.04	3.89	10.70	0.67	0.66768	12	3.04
465	0.23	215.97	150.00	2597.94	15.88	2.82	2.81	15.88	0.67	0.66665	17	2.82
466	0.23	216.45	150.23	4219.59	26.65	2.52	1.81	326.60	0.82	0.81586	34	2.44
467	0.23	216.92	150.46	3269.45	20.29	2.64	2.00	20.29	0.66	0.66462	21	2.64
468	0.23	217.40	150.69	2408.26	14.54	2.85	2.86	14.54	0.66	0.66361	16	2.85
469	0.23	217.87	150.92	1999.39	11.80	2.98	3.57	11.80	0.66	0.6626	13	2.98
470	0.23	218.35	151.15	2793.14	17.03	2.75	2.36	17.03	0.66	0.66159	18	2.75
471	0.23	218.82	151.38	3805.32	23.69	2.64	2.47	23.69	0.66	0.66058	25	2.64
472	0.23	219.30	151.61	3149.13	19.32	2.81	3.53	19.32	0.66	0.65958	20	2.81
473	0.23	219.77	151.84	2692.34	16.28	2.94	4.54	16.28	0.66	0.65858	18	2.94
474	0.23	220.25	152.07	2550.38	15.32	2.95	4.48	15.32	0.66	0.65759	17	2.95
475	0.23	220.72	152.30	2606.15	15.66	2.91	3.89	15.66	0.66	0.6566	17	2.91
476	0.23	221.20	152.53	3518.96	21.62	2.68	2.47	21.62	0.66	0.65561	23	2.68
477	0.23	221.67	152.76	7422.25	47.14	2.15	0.92	582.59	0.81	0.80909	60	2.07
478	0.23	222.15	152.99	9475.32	60.48	2.00	0.72	748.10	0.81	0.80848	76	1.92
479	0.23	222.62	153.22	8024.58	50.92	2.16	1.07	630.30	0.81	0.80787	65	2.08
480	0.23	223.10	153.45	6615.98	41.66	2.30	1.40	516.08	0.81	0.80727	53	2.21
481	0.23	223.57	153.68	6065.90	38.02	2.39	1.72	471.28	0.81	0.80666	49	2.30
482	0.23	224.05	153.91	4674.99	28.92	2.58	2.49	358.77	0.81	0.80606	38	2.49
483	0.23	224.52	154.14	3276.78	19.80	2.81	3.60	19.80	0.65	0.64877	21	2.81
484	0.23	225.00	154.37	2488.64	14.66	2.95	4.18	14.66	0.65	0.6478	16	2.95
485	0.23	225.47	154.60	1983.72	11.37	3.02	3.86	11.37	0.65	0.64684	13	3.02

	K	L	M	N	O	P	Q	R	S	T	U	V
486	0.23	225.95	154.83	1595.86	8.85	3.10	3.74	8.85	0.65	0.64588	10	3.10
487	0.23	226.42	155.06	1368.21	7.36	3.15	3.52	7.36	0.64	0.64492	9	3.15
488	0.23	226.90	155.29	1243.19	6.54	3.14	2.82	6.54	0.64	0.64397	8	3.14
489	0.23	227.37	155.52	1178.03	6.11	3.04	1.63	6.11	0.64	0.64302	7	3.04
490	0.23	227.85	155.75	1178.85	6.11	2.98	1.21	6.11	0.64	0.64207	7	2.98
491	0.23	228.32	155.98	1162.23	5.99	2.95	0.97	5.99	0.64	0.64112	7	2.95
492	0.23	228.80	156.21	1157.08	5.94	2.92	0.82	5.94	0.64	0.64018	7	2.92
493	0.23	229.27	156.44	1120.84	5.70	2.91	0.67	5.70	0.64	0.63924	7	2.91
494	0.23	229.75	156.67	1142.11	5.82	2.88	0.58	5.82	0.64	0.6383	7	2.88
495	0.23	230.22	156.90	1103.01	5.56	2.93	0.74	5.56	0.64	0.63737	6	2.93
496	0.23	230.70	157.13	1054.78	5.24	3.04	1.16	5.24	0.64	0.63644	6	3.04
497	0.23	231.17	157.35	1056.19	5.24	3.00	0.96	5.24	0.64	0.63551	6	3.00
498	0.23	231.65	157.58	1081.02	5.39	2.96	0.81	5.39	0.63	0.63458	6	2.96
499	0.23	232.12	157.81	1165.59	5.91	2.91	0.75	5.91	0.63	0.63366	7	2.91
500	0.23	232.60	158.04	1685.65	9.19	2.70	0.60	9.19	0.63	0.63274	10	2.70
501	0.23	233.07	158.27	1870.74	10.35	2.67	0.66	10.35	0.63	0.63182	11	2.67
502	0.23	233.55	158.50	1565.83	8.41	2.80	0.88	8.41	0.63	0.6309	10	2.80
503	0.23	234.02	158.73	1308.01	6.77	2.94	1.17	6.77	0.63	0.62999	8	2.94
504	0.23	234.50	158.96	1152.42	5.77	3.03	1.41	5.77	0.63	0.62908	7	3.03
505	0.23	234.97	159.19	1044.70	5.09	3.08	1.36	5.09	0.63	0.62817	6	3.08
506	0.23	235.45	159.42	1026.75	4.96	3.03	1.00	4.96	0.63	0.62726	6	3.03
507	0.23	235.92	159.65	1011.50	4.86	3.02	0.90	4.86	0.63	0.62636	6	3.02
508	0.23	236.40	159.88	1013.25	4.86	3.01	0.83	4.86	0.63	0.62546	6	3.01
509	0.23	236.87	160.11	951.82	4.47	3.05	0.86	4.47	0.62	0.62456	5	3.05
510	0.23	237.35	160.34	971.14	4.58	3.01	0.74	4.58	0.62	0.62367	5	3.01
511	0.23	237.82	160.57	971.88	4.57	3.06	0.96	4.57	0.62	0.62278	5	3.06
512	0.23	238.30	160.80	997.51	4.72	3.04	0.96	4.72	0.62	0.62189	6	3.04
513	0.23	238.77	161.03	980.59	4.61	3.11	1.35	4.61	0.62	0.621	5	3.11
514	0.23	239.25	161.26	1059.14	5.08	3.10	1.54	5.08	0.62	0.62011	6	3.10
515	0.23	239.72	161.49	1275.73	6.42	3.02	1.60	6.42	0.62	0.61923	7	3.02
516	0.23	240.20	161.72	1443.11	7.44	3.04	2.32	7.44	0.62	0.61835	8	3.04
517	0.23	240.67	161.95	1761.69	9.39	2.95	2.20	9.39	0.62	0.61748	10	2.95
518	0.23	241.15	162.18	1715.96	9.09	2.98	2.45	9.09	0.62	0.6166	10	2.98
519	0.23	241.62	162.41	1465.26	7.53	3.10	3.00	7.53	0.62	0.61573	9	3.10
520	0.23	242.10	162.64	1228.21	6.06	3.20	3.29	6.06	0.61	0.61486	7	3.20
521	0.23	242.57	162.87	1125.08	5.42	3.23	3.20	5.42	0.61	0.61399	7	3.23
522	0.23	243.05	163.10	1149.93	5.56	3.12	1.97	5.56	0.61	0.61313	7	3.12
523	0.23	243.52	163.33	1144.56	5.52	3.03	1.25	5.52	0.61	0.61226	7	3.03
524	0.23	244.00	163.56	1086.56	5.15	3.03	1.08	5.15	0.61	0.6114	6	3.03
525	0.23	244.47	163.79	1042.87	4.87	3.06	1.12	4.87	0.61	0.61055	6	3.06
526	0.23	244.95	164.02	1036.13	4.82	3.09	1.30	4.82	0.61	0.60969	6	3.09
527	0.23	245.42	164.25	1065.28	4.99	3.15	1.91	4.99	0.61	0.60884	6	3.15
528	0.23	245.90	164.48	1215.70	5.90	3.14	2.37	5.90	0.61	0.60799	7	3.14
529	0.23	246.37	164.71	1684.22	8.73	2.98	2.26	8.73	0.61	0.60714	10	2.98
530	0.23	246.85	164.94	2576.70	14.13	2.79	2.11	14.13	0.61	0.60629	15	2.79
531	0.23	247.32	165.17	3007.08	16.71	2.69	1.80	16.71	0.61	0.60545	18	2.69
532	0.23	247.80	165.40	3027.60	16.81	2.71	1.95	16.81	0.6	0.60461	18	2.71
533	0.23	248.27	165.63	2920.78	16.14	2.73	2.01	16.14	0.6	0.60377	18	2.73
534	0.23	248.75	165.86	2637.21	14.40	2.79	2.21	14.40	0.6	0.60293	16	2.79
535	0.23	249.22	166.09	2414.78	13.04	2.88	2.69	13.04	0.6	0.6021	14	2.88
536	0.23	249.70	166.32	2835.96	15.55	2.78	2.36	15.55	0.6	0.60127	17	2.78
537	0.23	250.17	166.54	2968.72	16.32	2.69	1.74	16.32	0.6	0.60044	18	2.69
538	0.23	250.65	166.77	2534.13	13.69	2.73	1.58	13.69	0.6	0.59961	15	2.73
539	0.23	251.12	167.00	1966.74	10.27	2.88	1.94	10.27	0.6	0.59879	12	2.88
540	0.23	251.60	167.23	1540.05	7.70	3.06	2.58	7.70	0.6	0.59796	9	3.06
541	0.23	252.07	167.46	1336.26	6.47	3.16	3.07	6.47	0.6	0.59714	8	3.16
542	0.23	252.55	167.69	1285.06	6.16	3.12	2.34	6.16	0.6	0.59633	7	3.12
543	0.23	253.02	167.92	1304.10	6.26	3.11	2.31	6.26	0.6	0.59551	7	3.11
544	0.23	253.50	168.15	1424.19	6.96	3.05	2.17	6.96	0.59	0.5947	8	3.05
545	0.23	253.97	168.38	1585.05	7.91	3.05	2.57	7.91	0.59	0.59389	9	3.05
546	0.23	254.45	168.61	1847.39	9.45	2.93	2.10	9.45	0.59	0.59308	11	2.93
547	0.23	254.92	168.84	2426.47	12.86	2.82	2.10	12.86	0.59	0.59227	14	2.82
548	0.23	255.40	169.07	3009.70	16.29	2.71	1.91	16.29	0.59	0.59146	18	2.71
549	0.23	255.87	169.30	2786.38	14.95	2.78	2.23	14.95	0.59	0.59066	16	2.78
550	0.23	256.35	169.53	2453.27	12.96	2.84	2.34	12.96	0.59	0.58986	14	2.84
551	0.23	256.82	169.76	2270.25	11.86	2.93	2.92	11.86	0.59	0.58906	13	2.93
552	0.23	257.30	169.99	2529.14	13.36	2.84	2.45	13.36	0.59	0.58827	15	2.84
553	0.23	257.77	170.22	2641.17	14.00	2.78	2.01	14.00	0.59	0.58747	15	2.78
554	0.23	258.25	170.45	2199.80	11.39	2.87	2.17	11.39	0.59	0.58668	13	2.87
555	0.23	258.72	170.68	1668.06	8.26	3.02	2.52	8.26	0.59	0.58589	10	3.02

	K	L	M	N	O	P	Q	R	S	T	U	V
556	0.23	259.20	170.91	1257.53	5.84	3.18	2.83	5.84	0.59	0.5851	7	3.18
557	0.23	259.67	171.14	1090.23	4.85	3.24	2.76	4.85	0.58	0.58432	6	3.24
558	0.23	260.15	171.37	1060.63	4.67	3.16	1.77	4.67	0.58	0.58353	6	3.16
559	0.23	260.62	171.60	1011.18	4.37	3.14	1.36	4.37	0.58	0.58275	6	3.14
560	0.23	261.10	171.83	975.67	4.16	3.17	1.47	4.16	0.58	0.58197	5	3.17
561	0.23	261.57	172.06	1027.03	4.45	3.10	1.14	4.45	0.58	0.5812	6	3.10
562	0.23	262.05	172.29	1088.94	4.80	3.13	1.59	4.80	0.58	0.58042	6	3.13
563	0.23	262.52	172.52	1226.43	5.59	3.10	1.86	5.59	0.58	0.57965	7	3.10
564	0.23	263.00	172.75	1590.12	7.68	2.95	1.59	7.68	0.58	0.57888	9	2.95
565	0.20	263.45	172.95	1480.89	7.04	3.00	1.76	7.04	0.58	0.57819	8	3.00
566	0.20	263.90	173.16	1189.95	5.35	3.16	2.26	5.35	0.58	0.57751	7	3.16
567	0.20	264.35	173.36	1037.52	4.46	3.26	2.56	4.46	0.58	0.57683	6	3.26
568	0.20	264.80	173.57	1095.59	4.79	3.21	2.34	4.79	0.58	0.57615	6	3.21
569	0.20	265.25	173.77	1091.91	4.76	3.09	1.30	4.76	0.58	0.57547	6	3.09
570	0.20	265.70	173.98	1019.63	4.33	3.12	1.23	4.33	0.57	0.57479	5	3.12
571	0.20	266.15	174.18	1001.58	4.22	3.14	1.25	4.22	0.57	0.57411	5	3.14
572	0.20	266.60	174.39	992.78	4.16	3.13	1.18	4.16	0.57	0.57344	5	3.13
573	0.20	267.05	174.59	965.35	4.00	3.13	1.11	4.00	0.57	0.57277	5	3.13
574	0.20	267.50	174.80	949.06	3.90	3.13	1.04	3.90	0.57	0.5721	5	3.13
575	0.20	267.95	175.00	944.18	3.86	3.14	1.07	3.86	0.57	0.57143	5	3.14
576	0.20	268.40	175.21	958.22	3.94	3.14	1.11	3.94	0.57	0.57076	5	3.14
577	0.20	268.85	175.41	964.26	3.96	3.12	1.00	3.96	0.57	0.57009	5	3.12
578	0.20	269.30	175.61	926.69	3.74	3.18	1.21	3.74	0.57	0.56943	5	3.18
579	0.20	269.75	175.82	954.81	3.90	3.16	1.24	3.90	0.57	0.56877	5	3.16
580	0.20	270.20	176.02	1031.63	4.33	3.12	1.24	4.33	0.57	0.5681	5	3.12
581	0.20	270.65	176.23	1118.97	4.81	3.06	1.12	4.81	0.57	0.56744	6	3.06
582	0.20	271.10	176.43	1130.49	4.87	3.07	1.17	4.87	0.57	0.56679	6	3.07
583	0.20	271.55	176.64	1054.90	4.43	3.12	1.29	4.43	0.57	0.56613	6	3.12
584	0.20	272.00	176.84	1039.31	4.34	3.13	1.32	4.34	0.57	0.56547	5	3.13
585	0.20	272.45	177.05	1016.10	4.20	3.16	1.44	4.20	0.56	0.56482	5	3.16
586	0.20	272.90	177.25	1001.67	4.11	3.13	1.14	4.11	0.56	0.56417	5	3.13
587	0.20	273.35	177.46	1012.29	4.16	3.10	1.01	4.16	0.56	0.56352	5	3.10
588	0.20	273.80	177.66	1027.76	4.24	3.07	0.90	4.24	0.56	0.56287	5	3.07
589	0.20	274.25	177.87	1015.82	4.17	3.09	0.94	4.17	0.56	0.56222	5	3.09
590	0.20	274.70	178.07	1034.60	4.27	3.07	0.88	4.27	0.56	0.56157	5	3.07
591	0.20	275.15	178.28	1012.47	4.14	3.12	1.09	4.14	0.56	0.56093	5	3.12
592	0.20	275.60	178.48	1029.34	4.22	3.10	1.01	4.22	0.56	0.56028	5	3.10
593	0.20	276.05	178.69	935.13	3.69	3.19	1.23	3.69	0.56	0.55964	5	3.19
594	0.20	276.50	178.89	969.96	3.88	3.17	1.25	3.88	0.56	0.55959	5	3.17
595	0.20	276.95	179.10	1079.51	4.48	3.08	1.06	4.48	0.56	0.55836	5	3.08
596	0.20	277.40	179.30	1001.51	4.04	3.15	1.26	4.04	0.56	0.55772	5	3.15
597	0.20	277.85	179.50	944.31	3.71	3.22	1.50	3.71	0.56	0.55709	5	3.22
598	0.20	278.30	179.71	957.29	3.78	3.24	1.70	3.78	0.56	0.55645	5	3.24
599	0.20	278.75	179.91	1010.14	4.07	3.18	1.45	4.07	0.56	0.55582	5	3.18
600	0.20	279.20	180.12	1100.13	4.56	3.08	1.06	4.56	0.56	0.55519	6	3.08
601	0.20	279.65	180.32	1251.54	5.39	3.11	1.80	5.39	0.55	0.55456	6	3.11
602	0.20	280.10	180.53	1514.20	6.84	3.02	1.81	6.84	0.55	0.55393	8	3.02
603	0.20	280.55	180.73	1671.68	7.70	2.96	1.68	7.70	0.55	0.5533	9	2.96
604	0.20	281.00	180.94	1509.51	6.79	3.03	1.90	6.79	0.55	0.55268	8	3.03
605	0.20	281.45	181.14	1240.77	5.30	3.18	2.44	5.30	0.55	0.55205	7	3.18
606	0.20	281.90	181.35	1193.73	5.03	3.20	2.46	5.03	0.55	0.55143	6	3.20
607	0.20	282.35	181.55	1225.13	5.19	3.15	2.07	5.19	0.55	0.55081	6	3.15
608	0.20	282.80	181.76	1261.75	5.39	3.09	1.62	5.39	0.55	0.55019	7	3.09
609	0.20	283.25	181.96	1145.87	4.74	3.13	1.55	4.74	0.55	0.54957	6	3.13
610	0.20	283.70	182.17	1135.22	4.67	3.14	1.56	4.67	0.55	0.54895	6	3.14
611	0.20	284.15	182.37	1129.85	4.64	3.17	1.80	4.64	0.55	0.54833	6	3.17
612	0.20	284.60	182.58	1236.24	5.21	3.09	1.49	5.21	0.55	0.54772	6	3.09
613	0.20	285.05	182.78	1305.23	5.58	3.03	1.30	5.58	0.55	0.5471	7	3.03
614	0.20	285.50	182.99	1295.28	5.52	3.03	1.28	5.52	0.55	0.54649	7	3.03
615	0.20	285.95	183.19	1255.04	5.29	3.05	1.30	5.29	0.55	0.54588	6	3.05
616	0.20	286.40	183.39	1166.67	4.80	3.10	1.37	4.80	0.55	0.54527	6	3.10
617	0.20	286.85	183.60	1083.83	4.34	3.15	1.47	4.34	0.54	0.54466	5	3.15
618	0.20	287.30	183.80	1024.98	4.01	3.17	1.39	4.01	0.54	0.54406	5	3.17
619	0.20	287.75	184.01	973.90	3.73	3.19	1.30	3.73	0.54	0.54345	5	3.19
620	0.20	288.20	184.21	956.90	3.63	3.20	1.28	3.63	0.54	0.54285	5	3.20
621	0.20	288.65	184.42	992.35	3.82	3.16	1.13	3.82	0.54	0.54224	5	3.16
622	0.20	289.10	184.62	1013.86	3.93	3.13	1.02	3.93	0.54	0.54164	5	3.13
623	0.20	289.55	184.83	997.17	3.83	3.14	1.06	3.83	0.54	0.54104	5	3.14
624	0.20	290.00	185.03	1011.17	3.90	3.13	1.02	3.90	0.54	0.54044	5	3.13
625	0.20	290.45	185.24	982.37	3.74	3.16	1.09	3.74	0.54	0.53985	5	3.16

	K	L	M	N	O	P	Q	R	S	T	U	V
626	0.20	290.90	185.44	1026.89	3.97	3.12	1.01	3.97	0.54	0.53925	5	3.12
627	0.20	291.35	185.65	984.92	3.74	3.15	1.07	3.74	0.54	0.53866	5	3.15
628	0.20	291.80	185.85	1004.58	3.84	3.12	0.92	3.84	0.54	0.53806	5	3.12
629	0.20	292.25	186.06	1092.59	4.30	3.08	0.93	4.30	0.54	0.53747	5	3.08
630	0.20	292.70	186.26	1215.46	4.95	3.04	1.07	4.95	0.54	0.53688	6	3.04
631	0.20	293.15	186.47	1191.11	4.82	3.07	1.16	4.82	0.54	0.53629	6	3.07
632	0.20	293.60	186.67	1117.64	4.41	3.12	1.29	4.41	0.54	0.5357	6	3.12
633	0.20	294.05	186.88	1036.22	3.97	3.19	1.46	3.97	0.54	0.53511	5	3.19
634	0.20	294.50	187.08	996.79	3.75	3.22	1.51	3.75	0.53	0.53453	5	3.22
635	0.20	294.95	187.29	1004.94	3.79	3.18	1.28	3.79	0.53	0.53394	5	3.18
636	0.20	295.40	187.49	1000.92	3.76	3.14	0.97	3.76	0.53	0.53336	5	3.14
637	0.20	295.85	187.69	989.24	3.69	3.13	0.89	3.69	0.53	0.53278	5	3.13
638	0.20	296.30	187.90	989.77	3.69	3.12	0.86	3.69	0.53	0.5322	5	3.12
639	0.20	296.75	188.10	989.94	3.69	3.13	0.86	3.69	0.53	0.53162	5	3.13
640	0.20	297.20	188.31	959.31	3.52	3.16	0.95	3.52	0.53	0.53104	5	3.16
641	0.20	297.65	188.51	977.52	3.61	3.15	0.95	3.61	0.53	0.53047	5	3.15
642	0.20	298.10	188.72	970.59	3.56	3.16	0.96	3.56	0.53	0.52989	5	3.16
643	0.20	298.55	188.92	983.07	3.62	3.15	0.99	3.62	0.53	0.52932	5	3.15
644	0.20	299.00	189.13	977.60	3.59	3.16	0.99	3.59	0.53	0.52874	5	3.16
645	0.20	299.45	189.33	990.02	3.65	3.15	0.95	3.65	0.53	0.52817	5	3.15
646	0.20	299.90	189.54	1007.11	3.73	3.14	0.97	3.73	0.53	0.5276	5	3.14
647	0.20	300.35	189.74	970.32	3.53	3.17	0.99	3.53	0.53	0.52703	5	3.17
648	0.20	300.80	189.95	1012.83	3.75	3.12	0.89	3.75	0.53	0.52646	5	3.12
649	0.20	301.25	190.15	1002.75	3.69	3.14	0.92	3.69	0.53	0.5259	5	3.14
650	0.20	301.70	190.36	992.00	3.63	3.15	0.97	3.63	0.53	0.52533	5	3.15
651	0.20	302.15	190.56	981.74	3.57	3.16	0.99	3.57	0.52	0.52477	5	3.16
652	0.20	302.60	190.77	964.76	3.47	3.18	1.02	3.47	0.52	0.5242	5	3.18
653	0.20	303.05	190.97	977.60	3.53	3.15	0.91	3.53	0.52	0.52364	5	3.15
654	0.20	303.50	191.18	1002.01	3.65	3.14	0.90	3.65	0.52	0.52308	5	3.14
655	0.20	303.95	191.38	984.33	3.56	3.15	0.91	3.56	0.52	0.52252	5	3.15
656	0.20	304.40	191.58	972.87	3.49	3.15	0.89	3.49	0.52	0.52196	5	3.15
657	0.20	304.85	191.79	985.26	3.55	3.15	0.90	3.55	0.52	0.5214	5	3.15
658	0.20	305.30	191.99	1009.00	3.67	3.13	0.89	3.67	0.52	0.52085	5	3.13
659	0.20	305.75	192.20	1002.51	3.63	3.14	0.88	3.63	0.52	0.52029	5	3.14
660	0.20	306.20	192.40	997.30	3.59	3.14	0.91	3.59	0.52	0.51974	5	3.14
661	0.20	306.65	192.61	1003.02	3.62	3.14	0.90	3.62	0.52	0.51919	5	3.14
662	0.20	307.10	192.81	996.44	3.58	3.15	0.94	3.58	0.52	0.51864	5	3.15
663	0.20	307.55	193.02	1002.89	3.60	3.14	0.89	3.60	0.52	0.51809	5	3.14
664	0.20	308.00	193.22	1003.67	3.60	3.15	0.93	3.60	0.52	0.51754	5	3.15
665	0.20	308.45	193.43	985.38	3.50	3.16	0.93	3.50	0.52	0.51699	5	3.16
666	0.20	308.90	193.63	978.95	3.46	3.15	0.88	3.46	0.52	0.51644	5	3.15
667	0.20	309.35	193.84	966.32	3.39	3.16	0.89	3.39	0.52	0.5159	4	3.16
668	0.20	309.80	194.04	972.87	3.42	3.15	0.85	3.42	0.52	0.51535	4	3.15
669	0.20	310.25	194.25	973.54	3.41	3.16	0.87	3.41	0.51	0.51481	4	3.16
670	0.20	310.70	194.45	949.40	3.28	3.10	0.54	3.28	0.51	0.51427	4	3.10
671	0.20	311.15	194.66	974.66	3.41	3.12	0.70	3.41	0.51	0.51373	4	3.12
672	0.20	311.60	194.86	956.51	3.31	3.15	0.75	3.31	0.51	0.51319	4	3.15
673	0.20	312.05	195.07	962.66	3.34	3.13	0.70	3.34	0.51	0.51265	4	3.13
674	0.20	312.50	195.27	970.19	3.37	3.14	0.74	3.37	0.51	0.51211	4	3.14
675	0.20	312.95	195.48	986.50	3.45	3.13	0.74	3.45	0.51	0.51157	4	3.13
676	0.20	313.40	195.68	1005.63	3.54	3.11	0.72	3.54	0.51	0.51104	5	3.11
677	0.20	313.85	195.88	957.44	3.29	3.16	0.80	3.29	0.51	0.5105	4	3.16
678	0.20	314.30	196.09	976.17	3.38	3.14	0.78	3.38	0.51	0.50997	4	3.14
679	0.20	314.75	196.29	975.75	3.37	3.14	0.75	3.37	0.51	0.50944	4	3.14
680	0.20	315.20	196.50	963.29	3.30	3.15	0.77	3.30	0.51	0.50891	4	3.15
681	0.20	315.65	196.70	1000.06	3.48	3.13	0.77	3.48	0.51	0.50838	5	3.13
682	0.20	316.10	196.91	967.16	3.31	3.18	0.91	3.31	0.51	0.50785	4	3.18
683	0.20	316.55	197.11	981.28	3.37	3.17	0.92	3.37	0.51	0.50732	4	3.17
684	0.20	317.00	197.32	1023.01	3.58	3.13	0.84	3.58	0.51	0.5068	5	3.13
685	0.20	317.45	197.52	1060.80	3.76	3.12	0.87	3.76	0.51	0.50627	5	3.12
686	0.20	317.90	197.73	1075.36	3.83	3.12	0.91	3.83	0.51	0.50575	5	3.12
687	0.20	318.35	197.93	1124.17	4.07	3.08	0.83	4.07	0.51	0.50522	5	3.08
688	0.20	318.80	198.14	1105.10	3.97	3.10	0.87	3.97	0.5	0.5047	5	3.10
689	0.20	319.25	198.34	1141.70	4.15	3.07	0.85	4.15	0.5	0.50418	5	3.07
690	0.20	319.70	198.55	1147.82	4.17	3.07	0.84	4.17	0.5	0.50366	5	3.07
691	0.20	320.15	198.75	1153.30	4.19	3.07	0.85	4.19	0.5	0.50314	5	3.07
692	0.20	320.60	198.96	1165.72	4.25	3.06	0.84	4.25	0.5	0.50262	5	3.06
693	0.20	321.05	199.16	1141.76	4.12	3.09	0.91	4.12	0.5	0.50211	5	3.09
694	0.20	321.50	199.37	1178.49	4.30	3.06	0.85	4.30	0.5	0.50159	5	3.06
695	0.20	321.95	199.57	1186.83	4.33	3.07	0.94	4.33	0.5	0.50108	5	3.07

	K	L	M	N	O	P	Q	R	S	T	U	V
696	0.20	322.40	199.77	1243.00	4.61	3.01	0.76	4.61	0.5	0.50056	6	3.01
697	0.20	322.85	199.98	1289.34	4.83	2.99	0.73	4.83	0.5	0.50005	6	2.99
698	0.20	323.30	200.18	1417.09	5.46	2.93	0.67	5.46	0.5	0.49954	7	2.93
699	0.20	323.75	200.39	1519.07	5.96	2.89	0.65	5.96	0.5	0.49903	7	2.89
700	0.20	324.20	200.59	1453.63	5.63	2.94	0.79	5.63	0.5	0.49852	7	2.94
701	0.20	324.65	200.80	1227.65	4.50	3.07	0.98	4.50	0.5	0.49801	6	3.07
702	0.20	325.10	201.00	1192.40	4.31	3.09	1.03	4.31	0.5	0.4975	5	3.09
703	0.20	325.55	201.21	1266.73	4.68	3.10	1.30	4.68	0.5	0.497	6	3.10
704	0.20	326.00	201.41	1509.26	5.87	2.98	1.07	5.87	0.5	0.49649	7	2.98
705	0.20	326.45	201.62	1613.97	6.39	2.94	1.06	6.39	0.5	0.49599	8	2.94
706	0.20	326.90	201.82	1298.35	4.81	3.12	1.48	4.81	0.5	0.49548	6	3.12
707	0.20	327.35	202.03	1366.50	5.14	3.13	1.79	5.14	0.49	0.49498	6	3.13
708	0.20	327.80	202.23	1400.28	5.30	3.04	1.25	5.30	0.49	0.49448	6	3.04
709	0.20	328.25	202.44	1466.93	5.62	2.97	0.92	5.62	0.49	0.49398	7	2.97
710	0.20	328.70	202.64	1655.05	6.55	3.06	1.99	6.55	0.49	0.49348	8	3.06
711	0.20	329.15	202.85	3795.85	17.09	2.53	0.93	243.41	0.7	0.70213	26	2.37
712	0.20	329.60	203.05	5759.27	26.74	2.40	1.09	381.04	0.7	0.70177	40	2.25
713	0.20	330.05	203.26	4682.92	21.42	2.63	2.03	21.42	0.49	0.49199	23	2.63
714	0.20	330.50	203.46	3451.54	15.34	2.85	3.00	15.34	0.49	0.4915	17	2.85
715	0.20	330.95	203.67	2864.98	12.44	2.95	3.36	12.44	0.49	0.491	14	2.95
716	0.20	331.40	203.87	1996.75	8.17	3.16	4.32	8.17	0.49	0.49051	10	3.16
717	0.20	331.85	204.07	1628.92	6.36	3.25	4.35	6.36	0.49	0.49002	8	3.25
718	0.20	332.30	204.28	1197.67	4.24	3.36	3.73	4.24	0.49	0.48953	6	3.36
719	0.20	332.75	204.48	1050.06	3.51	3.37	2.82	3.51	0.49	0.48904	5	3.37
720	0.20	333.20	204.69	1033.17	3.42	3.29	1.87	3.42	0.49	0.48855	5	3.29
721	0.20	333.65	204.89	1008.27	3.29	3.25	1.38	3.29	0.49	0.48806	5	3.25
722	0.20	334.10	205.10	927.15	2.89	3.32	1.51	2.89	0.49	0.48757	4	3.32
723	0.20	334.55	205.30	918.74	2.85	3.32	1.46	2.85	0.49	0.48708	4	3.32
724	0.20	335.00	205.51	922.11	2.86	3.32	1.50	2.86	0.49	0.4866	4	3.32
725	0.20	335.45	205.71	918.19	2.83	3.33	1.56	2.83	0.49	0.48611	4	3.33
726	0.20	335.90	205.92	968.40	3.07	3.28	1.43	3.07	0.49	0.48563	4	3.28
727	0.20	336.35	206.12	952.98	2.99	3.31	1.53	2.99	0.49	0.48515	4	3.31
728	0.20	336.80	206.33	981.49	3.12	3.29	1.54	3.12	0.48	0.48467	4	3.29
729	0.20	337.25	206.53	1022.97	3.32	3.26	1.50	3.32	0.48	0.48419	4	3.26
730	0.20	337.70	206.74	1083.53	3.61	3.22	1.46	3.61	0.48	0.48371	5	3.22
731	0.20	338.15	206.94	1153.21	3.94	3.18	1.36	3.94	0.48	0.48323	5	3.18
732	0.20	338.60	207.15	1179.08	4.06	3.16	1.31	4.06	0.48	0.48275	5	3.16
733	0.20	339.05	207.35	1173.65	4.03	3.18	1.41	4.03	0.48	0.48227	5	3.18
734	0.20	339.50	207.56	1214.14	4.21	3.16	1.40	4.21	0.48	0.4818	5	3.16
735	0.20	339.95	207.76	1221.84	4.24	3.15	1.38	4.24	0.48	0.48132	5	3.15
736	0.20	340.40	207.96	1239.12	4.32	3.14	1.35	4.32	0.48	0.48085	5	3.14
737	0.20	340.85	208.17	1215.24	4.20	3.15	1.37	4.20	0.48	0.48038	5	3.15
738	0.20	341.30	208.37	1249.58	4.36	3.13	1.32	4.36	0.48	0.47991	5	3.13
739	0.20	341.75	208.58	1273.16	4.47	3.12	1.30	4.47	0.48	0.47943	6	3.12
740	0.20	342.20	208.78	1209.53	4.15	3.15	1.34	4.15	0.48	0.47896	5	3.15
741	0.20	342.65	208.99	1201.30	4.11	3.16	1.34	4.11	0.48	0.47849	5	3.16
742	0.20	343.10	209.19	1185.22	4.03	3.17	1.35	4.03	0.48	0.47803	5	3.17
743	0.20	343.55	209.40	1192.99	4.06	3.16	1.31	4.06	0.48	0.47756	5	3.16
744	0.20	344.00	209.60	1165.20	3.92	3.18	1.38	3.92	0.48	0.47709	5	3.18
745	0.20	344.45	209.81	1163.48	3.90	3.20	1.47	3.90	0.48	0.47663	5	3.20
746	0.20	344.90	210.01	1170.07	3.93	3.11	0.92	3.93	0.48	0.47616	5	3.11
747	0.20	345.35	210.22	1176.44	3.95	3.14	1.09	3.95	0.48	0.47577	5	3.14
748	0.20	345.80	210.42	1243.08	4.26	3.26	2.35	4.26	0.48	0.47524	5	3.26
749	0.20	346.25	210.63	1640.59	6.15	3.03	1.53	6.15	0.47	0.47477	7	3.03
750	0.20	346.70	210.83	1832.89	7.05	2.97	1.51	7.05	0.47	0.47431	8	2.97
751	0.20	347.15	211.04	1498.57	5.46	3.18	2.52	5.46	0.47	0.47385	7	3.18
752	0.20	347.60	211.24	1262.12	4.33	3.31	3.11	4.33	0.47	0.47339	6	3.31
753	0.20	348.05	211.45	1227.37	4.16	3.34	3.26	4.16	0.47	0.47293	5	3.34
754	0.20	348.50	211.65	1246.80	4.24	3.23	2.06	4.24	0.47	0.47248	5	3.23
755	0.20	348.95	211.86	1194.61	3.99	3.19	1.52	3.99	0.47	0.47202	5	3.19
756	0.20	349.40	212.06	1174.85	3.89	3.19	1.41	3.89	0.47	0.47156	5	3.19
757	0.20	349.85	212.26	1179.80	3.91	3.19	1.42	3.91	0.47	0.47111	5	3.19
758	0.20	350.30	212.47	1159.31	3.81	3.20	1.42	3.81	0.47	0.47066	5	3.20
759	0.20	350.75	212.67	1149.18	3.75	3.19	1.30	3.75	0.47	0.4702	5	3.19
760	0.20	351.20	212.88	1125.11	3.64	3.21	1.33	3.64	0.47	0.46975	5	3.21
761	0.20	351.65	213.08	1175.31	3.87	3.17	1.27	3.87	0.47	0.4693	5	3.17
762	0.20	352.10	213.29	1182.27	3.89	3.17	1.26	3.89	0.47	0.46885	5	3.17
763	0.20	352.55	213.49	1197.70	3.96	3.15	1.19	3.96	0.47	0.4684	5	3.15
764	0.20	353.00	213.70	1232.36	4.11	3.14	1.20	4.11	0.47	0.46795	5	3.14
765	0.20	353.45	213.90	1201.37	3.96	3.18	1.38	3.96	0.47	0.4675	5	3.18

	K	L	M	N	O	P	Q	R	S	T	U	V
766	0.20	353.90	214.11	1205.07	3.98	3.17	1.35	3.98	0.47	0.46706	5	3.17
767	0.20	354.35	214.31	1241.04	4.14	3.14	1.23	4.14	0.47	0.46661	5	3.14
768	0.20	354.80	214.52	1274.84	4.29	3.11	1.15	4.29	0.47	0.46616	5	3.11
769	0.20	355.25	214.72	1262.92	4.23	3.13	1.20	4.23	0.47	0.46572	5	3.13
770	0.20	355.70	214.93	1262.88	4.22	3.13	1.25	4.22	0.47	0.46528	5	3.13
771	0.20	356.15	215.13	1269.94	4.25	3.14	1.28	4.25	0.46	0.46483	5	3.14
772	0.20	356.60	215.34	1304.39	4.40	3.11	1.17	4.40	0.46	0.46439	5	3.11
773	0.20	357.05	215.54	1337.18	4.55	3.11	1.28	4.55	0.46	0.46395	6	3.11
774	0.20	357.50	215.75	1446.14	5.05	3.06	1.19	5.05	0.46	0.46351	6	3.06
775	0.20	357.95	215.95	1408.57	4.87	3.06	1.16	4.87	0.46	0.46307	6	3.06
776	0.20	358.40	216.15	1346.11	4.57	3.10	1.26	4.57	0.46	0.46263	6	3.10
777	0.20	358.85	216.36	1351.20	4.59	3.12	1.35	4.59	0.46	0.46219	6	3.12
778	0.20	359.30	216.56	1314.77	4.41	3.14	1.43	4.41	0.46	0.46176	6	3.14
779	0.20	359.75	216.77	1401.13	4.80	3.08	1.20	4.80	0.46	0.46132	6	3.08
780	0.20	360.20	216.97	1372.20	4.66	3.10	1.25	4.66	0.46	0.46088	6	3.10
781	0.20	360.65	217.18	1346.40	4.54	3.10	1.22	4.54	0.46	0.46045	6	3.10
782	0.20	361.10	217.38	1325.57	4.44	3.12	1.30	4.44	0.46	0.46002	6	3.12
783	0.20	361.55	217.59	1343.64	4.51	3.13	1.39	4.51	0.46	0.45958	6	3.13
784	0.20	362.00	217.79	1462.57	5.05	3.08	1.35	5.05	0.46	0.45915	6	3.08
785	0.20	362.45	218.00	1527.97	5.35	3.03	1.18	5.35	0.46	0.45872	6	3.03
786	0.20	362.90	218.20	1445.72	4.96	3.06	1.20	4.96	0.46	0.45829	6	3.06
787	0.20	363.35	218.41	1442.14	4.94	3.06	1.18	4.94	0.46	0.45786	6	3.06
788	0.20	363.80	218.61	1397.41	4.73	3.07	1.15	4.73	0.46	0.45743	6	3.07
789	0.20	364.25	218.82	1343.13	4.47	3.11	1.22	4.47	0.46	0.457	6	3.11
790	0.20	364.70	219.02	1280.73	4.18	3.13	1.22	4.18	0.46	0.45658	5	3.13
791	0.20	365.15	219.23	1272.42	4.14	3.14	1.21	4.14	0.46	0.45615	5	3.14
792	0.20	365.60	219.43	1269.14	4.12	3.15	1.31	4.12	0.46	0.45572	5	3.15
793	0.20	366.05	219.64	1296.24	4.24	3.11	1.10	4.24	0.46	0.4553	5	3.11
794	0.20	366.50	219.84	1306.22	4.27	3.11	1.10	4.27	0.45	0.45488	5	3.11
795	0.20	366.95	220.05	1408.17	4.73	3.05	1.00	4.73	0.45	0.45445	6	3.05
796	0.20	367.40	220.25	1481.24	5.06	3.03	1.02	5.06	0.45	0.45403	6	3.03
797	0.20	367.85	220.45	1426.69	4.80	3.07	1.16	4.80	0.45	0.45361	6	3.07
798	0.20	368.30	220.66	1408.89	4.72	3.07	1.12	4.72	0.45	0.45319	6	3.07
799	0.20	368.75	220.86	1375.70	4.56	3.10	1.19	4.56	0.45	0.45277	6	3.10
800	0.20	369.20	221.07	1423.17	4.77	3.07	1.13	4.77	0.45	0.45235	6	3.07
801	0.20	369.65	221.27	1372.36	4.53	3.08	1.11	4.53	0.45	0.45193	6	3.08
802	0.20	370.10	221.48	1431.93	4.79	3.05	1.05	4.79	0.45	0.45151	6	3.05
803	0.20	370.55	221.68	1446.69	4.85	3.05	1.07	4.85	0.45	0.45109	6	3.05
804	0.20	371.00	221.89	1499.87	5.09	3.03	1.04	5.09	0.45	0.45068	6	3.03
805	0.20	371.45	222.09	1498.02	5.07	3.02	0.99	5.07	0.45	0.45026	6	3.02
806	0.20	371.90	222.30	1418.16	4.71	3.06	1.07	4.71	0.45	0.44985	6	3.06
807	0.20	372.35	222.50	1371.12	4.49	3.09	1.14	4.49	0.45	0.44943	6	3.09
808	0.20	372.80	222.71	1382.41	4.53	3.09	1.17	4.53	0.45	0.44902	6	3.09
809	0.20	373.25	222.91	1358.23	4.42	3.10	1.12	4.42	0.45	0.44861	6	3.10
810	0.20	373.70	223.12	1361.19	4.43	3.09	1.11	4.43	0.45	0.4482	6	3.09
811	0.20	374.15	223.32	1346.99	4.36	3.10	1.13	4.36	0.45	0.44779	5	3.10
812	0.20	374.60	223.53	1334.38	4.29	3.11	1.13	4.29	0.45	0.44738	5	3.11
813	0.20	375.05	223.73	1292.94	4.10	3.13	1.12	4.10	0.45	0.44697	5	3.13
814	0.20	375.50	223.94	1267.94	3.99	3.14	1.13	3.99	0.45	0.44656	5	3.14
815	0.20	375.95	224.14	1285.29	4.06	3.12	1.05	4.06	0.45	0.44615	5	3.12
816	0.20	376.40	224.34	1229.71	3.80	3.16	1.12	3.80	0.45	0.44574	5	3.16
817	0.20	376.85	224.55	1252.66	3.90	3.14	1.06	3.90	0.45	0.44534	5	3.14
818	0.20	377.30	224.75	1242.17	3.85	3.13	1.00	3.85	0.44	0.44493	5	3.13
819	0.20	377.75	224.96	1206.75	3.69	3.16	1.08	3.69	0.44	0.44452	5	3.16
820	0.20	378.20	225.16	1205.30	3.67	3.17	1.09	3.67	0.44	0.44412	5	3.17
821	0.20	378.65	225.37	1231.08	3.78	3.15	1.07	3.78	0.44	0.44372	5	3.15
822	0.20	379.10	225.57	1286.58	4.02	3.13	1.08	4.02	0.44	0.44331	5	3.13
823	0.20	379.55	225.78	1254.74	3.88	3.14	1.04	3.88	0.44	0.44291	5	3.14
824	0.20	380.00	225.98	1261.89	3.90	3.14	1.10	3.90	0.44	0.44251	5	3.14
825	0.20	380.45	226.19	1276.44	3.96	3.15	1.19	3.96	0.44	0.44211	5	3.15
826	0.20	380.90	226.39	1322.88	4.16	3.13	1.18	4.16	0.44	0.44171	5	3.13
827	0.20	381.35	226.60	1338.94	4.23	3.11	1.11	4.23	0.44	0.44131	5	3.11
828	0.20	381.80	226.80	1445.48	4.69	3.06	1.02	4.69	0.44	0.44091	6	3.06
829	0.20	382.25	227.01	1430.41	4.62	3.07	1.07	4.62	0.44	0.44052	6	3.07
830	0.20	382.70	227.21	1302.89	4.05	3.15	1.27	4.05	0.44	0.44012	5	3.15
831	0.20	383.15	227.42	1232.37	3.73	3.20	1.35	3.73	0.44	0.43972	5	3.20
832	0.20	383.60	227.62	1260.84	3.85	3.20	1.45	3.85	0.44	0.43933	5	3.20
833	0.20	384.05	227.83	1221.17	3.67	3.20	1.29	3.67	0.44	0.43893	5	3.20
834	0.20	384.50	228.03	1253.86	3.81	3.16	1.14	3.81	0.44	0.43854	5	3.16
835	0.20	384.95	228.24	1263.68	3.85	3.16	1.20	3.85	0.44	0.43814	5	3.16

	K	L	M	N	O	P	Q	R	S	T	U	V
836	0.20	385.40	228.44	1253.45	3.80	3.18	1.29	3.80	0.44	0.43775	5	3.18
837	0.20	385.85	228.64	1292.60	3.97	3.15	1.20	3.97	0.44	0.43736	5	3.15
838	0.20	386.30	228.85	1307.84	4.03	3.16	1.27	4.03	0.44	0.43697	5	3.16
839	0.20	386.75	229.05	1469.05	4.73	3.11	1.36	4.73	0.44	0.43658	6	3.11
840	0.20	387.20	229.26	1853.30	6.39	2.95	1.14	6.39	0.44	0.43619	7	2.95
841	0.20	387.65	229.46	1962.08	6.86	2.92	1.07	6.86	0.44	0.4358	8	2.92
842	0.20	388.10	229.67	1858.31	6.40	2.97	1.25	6.40	0.44	0.43541	8	2.97
843	0.20	388.55	229.87	1773.66	6.03	3.03	1.49	6.03	0.44	0.43502	7	3.03
844	0.20	389.00	230.08	1766.57	5.99	3.07	1.78	5.99	0.43	0.43464	7	3.07
845	0.20	389.45	230.28	1823.37	6.23	3.06	1.80	6.23	0.43	0.43425	7	3.06
846	0.20	389.90	230.49	1897.68	6.54	2.98	1.38	6.54	0.43	0.43386	8	2.98
847	0.20	390.35	230.69	2092.50	7.38	2.94	1.42	7.38	0.43	0.43348	9	2.94
848	0.20	390.80	230.90	2498.50	9.13	2.83	1.23	9.13	0.43	0.43309	10	2.83
849	0.20	391.25	231.10	2436.76	8.85	2.85	1.25	8.85	0.43	0.43271	10	2.85
850	0.20	391.70	231.31	1865.38	6.37	3.03	1.68	6.37	0.43	0.43233	8	3.03
851	0.20	392.15	231.51	1532.31	4.92	3.18	2.10	4.92	0.43	0.43194	6	3.18
852	0.20	392.60	231.72	1384.24	4.28	3.26	2.39	4.28	0.43	0.43156	6	3.26
853	0.20	393.05	231.92	1271.85	3.79	3.28	2.13	3.79	0.43	0.43118	5	3.28
854	0.20	393.50	232.13	1259.37	3.73	3.21	1.43	3.73	0.43	0.4308	5	3.21
855	0.20	393.95	232.33	1251.88	3.69	3.18	1.18	3.69	0.43	0.43042	5	3.18
856	0.20	394.40	232.53	1250.53	3.68	3.17	1.16	3.68	0.43	0.43004	5	3.17
857	0.20	394.85	232.74	1175.17	3.35	3.23	1.25	3.35	0.43	0.42966	5	3.23
858	0.20	395.30	232.94	1165.61	3.31	3.24	1.28	3.31	0.43	0.42929	5	3.24
859	0.20	395.75	233.15	1224.33	3.55	3.19	1.18	3.55	0.43	0.42891	5	3.19
860	0.20	396.20	233.35	1233.35	3.59	3.20	1.22	3.59	0.43	0.42853	5	3.20
861	0.20	396.65	233.56	1241.50	3.62	3.19	1.24	3.62	0.43	0.42816	5	3.19
862	0.20	397.10	233.76	1256.38	3.68	3.19	1.22	3.68	0.43	0.42778	5	3.19
863	0.20	397.55	233.97	1257.28	3.67	3.19	1.24	3.67	0.43	0.42741	5	3.19
864	0.20	398.00	234.17	1271.68	3.73	3.18	1.24	3.73	0.43	0.42703	5	3.18
865	0.20	398.45	234.38	1267.16	3.71	3.19	1.26	3.71	0.43	0.42666	5	3.19
866	0.20	398.90	234.58	1268.44	3.71	3.19	1.27	3.71	0.43	0.42629	5	3.19
867	0.20	399.35	234.79	1274.82	3.73	3.19	1.32	3.73	0.43	0.42592	5	3.19
868	0.20	399.80	234.99	1282.54	3.76	3.19	1.33	3.76	0.43	0.42555	5	3.19
869	0.20	400.25	235.20	1277.26	3.73	3.20	1.34	3.73	0.43	0.42518	5	3.20
870	0.20	400.70	235.40	1284.75	3.76	3.19	1.31	3.76	0.42	0.42481	5	3.19
871	0.20	401.15	235.61	1272.61	3.70	3.18	1.18	3.70	0.42	0.42444	5	3.18
872	0.20	401.60	235.81	1320.70	3.90	3.15	1.12	3.90	0.42	0.42407	5	3.15
873	0.20	402.05	236.02	1353.32	4.03	3.12	1.05	4.03	0.42	0.4237	5	3.12
874	0.20	402.50	236.22	1324.07	3.90	3.15	1.15	3.90	0.42	0.42333	5	3.15
875	0.20	402.95	236.43	1325.16	3.90	3.16	1.19	3.90	0.42	0.42297	5	3.16
876	0.20	403.40	236.63	1306.43	3.82	3.17	1.21	3.82	0.42	0.42226	5	3.17
877	0.20	403.85	236.83	1321.46	3.87	3.16	1.18	3.87	0.42	0.42224	5	3.16
878	0.20	404.30	237.04	1320.83	3.87	3.15	1.10	3.87	0.42	0.42187	5	3.15
879	0.20	404.75	237.24	1303.57	3.79	3.16	1.11	3.79	0.42	0.42151	5	3.16
880	0.20	405.20	237.45	1290.41	3.73	3.16	1.11	3.73	0.42	0.42114	5	3.16
881	0.20	405.65	237.65	1284.66	3.70	3.18	1.22	3.70	0.42	0.42078	5	3.18
882	0.20	406.10	237.86	1279.47	3.67	3.19	1.28	3.67	0.42	0.42042	5	3.19
883	0.20	406.55	238.06	1266.33	3.61	3.20	1.26	3.61	0.42	0.42006	5	3.20
884	0.20	407.00	238.27	1298.47	3.74	3.18	1.23	3.74	0.42	0.4197	5	3.18
885	0.20	407.45	238.47	1332.29	3.88	3.16	1.21	3.88	0.42	0.41934	5	3.16
886	0.20	407.90	238.68	1338.90	3.90	3.17	1.27	3.90	0.42	0.41898	5	3.17
887	0.20	408.35	238.88	1339.69	3.90	3.18	1.36	3.90	0.42	0.41862	5	3.18
888	0.20	408.80	239.09	1339.35	3.89	3.18	1.36	3.89	0.42	0.41826	5	3.18
889	0.20	409.25	239.29	1323.23	3.82	3.19	1.38	3.82	0.42	0.4179	5	3.19
890	0.20	409.70	239.50	1252.88	3.52	3.27	1.72	3.52	0.42	0.41754	5	3.27
891	0.20	410.15	239.70	1251.94	3.51	3.26	1.67	3.51	0.42	0.41719	5	3.26
892	0.20	410.60	239.91	1290.45	3.67	3.22	1.44	3.67	0.42	0.41683	5	3.22
893	0.20	411.05	240.11	1307.65	3.73	3.21	1.42	3.73	0.42	0.41647	5	3.21
894	0.20	411.50	240.32	1371.34	3.99	3.17	1.32	3.99	0.42	0.41612	5	3.17
895	0.20	411.95	240.52	1443.36	4.29	3.13	1.24	4.29	0.42	0.41577	5	3.13
896	0.20	412.40	240.72	1317.58	3.76	3.20	1.36	3.76	0.42	0.41541	5	3.20
897	0.20	412.85	240.93	1249.81	3.47	3.23	1.39	3.47	0.42	0.41506	5	3.23
898	0.20	413.30	241.13	1258.27	3.50	3.23	1.39	3.50	0.41	0.41471	5	3.23
899	0.20	413.75	241.34	1261.34	3.51	3.24	1.51	3.51	0.41	0.41435	5	3.24
900	0.20	414.20	241.54	1256.78	3.49	3.23	1.41	3.49	0.41	0.41414	5	3.23
901	0.20	414.65	241.75	1262.40	3.51	3.23	1.39	3.51	0.41	0.41365	5	3.23
902	0.20	415.10	241.95	1281.17	3.58	3.20	1.28	3.58	0.41	0.4133	5	3.20
903	0.20	415.55	242.16	1277.26	3.56	3.22	1.35	3.56	0.41	0.41295	5	3.22
904	0.20	416.00	242.36	1258.91	3.48	3.24	1.44	3.48	0.41	0.4126	5	3.24
905	0.20	416.45	242.57	1266.33	3.50	3.25	1.54	3.50	0.41	0.41226	5	3.25

	K	L	M	N	O	P	Q	R	S	T	U	V
906	0.20	416.90	242.77	1272.25	3.52	3.26	1.66	3.52	0.41	0.41191	5	3.26
907	0.20	417.35	242.98	1279.38	3.55	3.25	1.59	3.55	0.41	0.41156	5	3.25
908	0.20	417.80	243.18	1286.62	3.57	3.24	1.57	3.57	0.41	0.41121	5	3.24
909	0.20	418.25	243.39	1313.86	3.68	3.24	1.62	3.68	0.41	0.41087	5	3.24
910	0.20	418.70	243.59	1386.93	3.97	3.20	1.54	3.97	0.41	0.41052	5	3.20
911	0.20	419.15	243.80	1347.68	3.81	3.26	1.93	3.81	0.41	0.41018	5	3.26
912	0.20	419.60	244.00	1347.59	3.80	3.30	2.40	3.80	0.41	0.40983	5	3.30
913	0.20	420.05	244.21	1383.04	3.94	3.30	2.54	3.94	0.41	0.40949	5	3.30
914	0.20	420.50	244.41	1386.34	3.95	3.31	2.67	3.95	0.41	0.40915	5	3.31
915	0.20	420.95	244.62	1551.05	4.62	3.27	2.84	4.62	0.41	0.40881	6	3.27
916	0.20	421.40	244.82	2250.99	7.47	3.07	2.65	7.47	0.41	0.40846	9	3.07
917	0.27	421.91	245.09	2676.28	9.20	3.03	3.00	9.20	0.41	0.40802	10	3.03
918	0.27	422.43	245.35	2790.05	9.65	3.06	3.70	9.65	0.41	0.40757	11	3.06
919	0.27	422.94	245.62	2849.14	9.88	3.09	4.19	9.88	0.41	0.40713	11	3.09
920	0.27	423.45	245.89	2844.89	9.85	3.11	4.64	9.85	0.41	0.40669	11	3.11
921	0.27	423.96	246.16	2863.23	9.91	3.12	4.73	9.91	0.41	0.40625	11	3.12
922	0.27	424.48	246.42	2712.01	9.28	3.16	5.08	9.28	0.41	0.40581	11	3.16
923	0.27	424.99	246.69	2593.07	8.79	3.19	5.25	8.79	0.41	0.40537	10	3.19
924	0.27	425.50	246.96	2453.03	8.21	3.21	5.20	8.21	0.4	0.40493	10	3.21
925	0.27	426.01	247.23	2303.75	7.60	3.23	5.06	7.60	0.4	0.40449	9	3.23
926	0.27	426.53	247.49	2156.38	6.99	3.25	5.01	6.99	0.4	0.40405	8	3.25
927	0.27	427.04	247.76	2006.74	6.38	3.28	4.91	6.38	0.4	0.40362	8	3.28
928	0.27	427.55	248.03	1912.74	5.99	3.27	4.32	5.99	0.4	0.40318	7	3.27
929	0.27	428.06	248.29	1972.43	6.22	3.18	3.21	6.22	0.4	0.40275	8	3.18
930	0.27	428.58	248.56	2014.88	6.38	3.10	2.30	6.38	0.4	0.40231	8	3.10
931	0.27	429.09	248.83	1938.78	6.07	3.08	1.91	6.07	0.4	0.40188	8	3.08
932	0.27	429.60	249.10	1794.23	5.48	3.12	1.93	5.48	0.4	0.40145	7	3.12
933	0.27	430.11	249.36	1617.31	4.76	3.20	2.20	4.76	0.4	0.40102	6	3.20
934	0.27	430.63	249.63	1663.15	4.94	3.19	2.28	4.94	0.4	0.40059	6	3.19
935	0.27	431.14	249.90	1721.91	5.17	3.19	2.43	5.17	0.4	0.40016	7	3.19
936	0.27	431.65	250.16	1745.53	5.25	3.20	2.57	5.25	0.4	0.39974	7	3.20
937	0.27	432.16	250.43	1761.27	5.31	3.20	2.69	5.31	0.4	0.39931	7	3.20
938	0.27	432.68	250.70	1878.98	5.77	3.18	2.77	5.77	0.4	0.39888	7	3.18
939	0.27	433.19	250.97	2015.33	6.30	3.14	2.71	6.30	0.4	0.39846	8	3.14
940	0.27	433.70	251.23	2178.66	6.95	3.09	2.54	6.95	0.4	0.39804	8	3.09
941	0.27	434.21	251.50	2263.94	7.28	3.06	2.45	7.28	0.4	0.39761	9	3.06
942	0.27	434.73	251.77	2255.09	7.23	3.07	2.51	7.23	0.4	0.39719	9	3.07
943	0.27	435.24	252.04	2205.06	7.02	3.07	2.36	7.02	0.4	0.39677	8	3.07
944	0.27	435.75	252.30	2084.69	6.54	3.09	2.32	6.54	0.4	0.39635	8	3.09
945	0.27	436.26	252.57	1996.02	6.18	3.11	2.28	6.18	0.4	0.39593	8	3.11
946	0.27	436.78	252.84	1942.00	5.95	3.14	2.48	5.95	0.4	0.39551	7	3.14
947	0.27	437.29	253.10	2049.44	6.37	3.14	2.72	6.37	0.4	0.39509	8	3.14
948	0.27	437.80	253.37	2678.98	8.85	2.98	2.37	8.85	0.39	0.39468	10	2.98
949	0.27	438.31	253.64	3641.12	12.63	2.75	1.52	12.63	0.39	0.39426	14	2.75
950	0.27	438.83	253.91	4137.98	14.57	2.69	1.45	14.57	0.39	0.39385	16	2.69
951	0.27	439.34	254.17	3982.70	13.94	2.70	1.43	13.94	0.39	0.39343	16	2.70
952	0.27	439.85	254.44	3331.16	11.36	2.83	1.84	11.36	0.39	0.39302	13	2.83
953	0.27	440.36	254.71	3003.61	10.06	2.93	2.28	10.06	0.39	0.39261	12	2.93
954	0.27	440.88	254.98	2913.29	9.70	2.98	2.65	9.70	0.39	0.39219	11	2.98
955	0.27	441.39	255.24	2997.50	10.01	2.93	2.26	10.01	0.39	0.39178	11	2.93
956	0.27	441.90	255.51	2793.37	9.20	2.98	2.46	9.20	0.39	0.39137	11	2.98
957	0.27	442.41	255.78	2685.49	8.77	2.98	2.24	8.77	0.39	0.39097	10	2.98
958	0.27	442.93	256.04	2612.90	8.47	2.99	2.28	8.47	0.39	0.39056	10	2.99
959	0.27	443.44	256.31	2601.59	8.42	2.99	2.28	8.42	0.39	0.39015	10	2.99
960	0.27	443.95	256.58	2747.39	8.98	2.94	1.96	8.98	0.39	0.38974	10	2.94
961	0.27	444.46	256.85	2818.60	9.24	2.88	1.61	9.24	0.39	0.38934	11	2.88
962	0.27	444.98	257.11	2815.35	9.22	2.84	1.33	9.22	0.39	0.38893	11	2.84
963	0.27	445.49	257.38	2502.05	7.99	2.88	1.20	7.99	0.39	0.38853	10	2.88
964	0.27	446.00	257.65	2010.99	6.07	3.02	1.43	6.07	0.39	0.38813	8	3.02
965	0.27	446.51	257.92	1696.54	4.85	3.13	1.66	4.85	0.39	0.38772	6	3.13
966	0.27	447.03	258.18	1473.61	3.98	3.25	2.00	3.98	0.39	0.38732	5	3.25
967	0.27	447.54	258.45	1441.02	3.84	3.25	1.90	3.84	0.39	0.38692	5	3.25
968	0.27	448.05	258.72	1453.64	3.89	3.24	1.81	3.89	0.39	0.38652	5	3.24
969	0.27	448.56	258.98	1509.74	4.10	3.19	1.55	4.10	0.39	0.38612	5	3.19
970	0.27	449.08	259.25	1644.29	4.61	3.14	1.58	4.61	0.39	0.38573	6	3.14
971	0.27	449.59	259.52	1820.24	5.28	3.10	1.66	5.28	0.39	0.38533	7	3.10
972	0.27	450.10	259.79	2032.25	6.09	3.09	2.07	6.09	0.38	0.38493	7	3.09
973	0.27	450.61	260.05	2543.91	8.05	3.02	2.36	8.05	0.38	0.38454	9	3.02
974	0.27	451.13	260.32	3477.99	11.63	2.84	1.92	11.63	0.38	0.38414	13	2.84
975	0.27	451.64	260.59	4340.05	14.92	2.75	1.97	14.92	0.38	0.38375	16	2.75

	K	L	M	N	O	P	Q	R	S	T	U	V
976	0.27	452.15	260.86	4839.17	16.82	2.77	2.54	16.82	0.38	0.38335	18	2.77
977	0.27	452.66	261.12	4748.77	16.45	2.80	2.79	16.45	0.38	0.38296	18	2.80
978	0.27	453.18	261.39	4872.42	16.91	2.79	2.76	16.91	0.38	0.38257	18	2.79
979	0.27	453.69	261.66	6609.57	23.53	2.57	1.80	380.56	0.62	0.61821	40	2.38
980	0.27	454.20	261.92	9586.44	34.87	2.29	1.03	564.27	0.62	0.61789	59	2.10
981	0.27	454.71	262.19	10938.27	39.98	2.21	0.92	647.44	0.62	0.61758	68	2.02
982	0.27	455.23	262.46	11327.80	41.43	2.21	0.98	671.12	0.62	0.61726	70	2.03
983	0.27	455.74	262.73	11295.53	41.26	2.24	1.08	668.76	0.62	0.61695	70	2.05
984	0.27	456.25	262.99	11119.12	40.54	2.31	1.40	657.51	0.62	0.61663	69	2.13
985	0.27	456.76	263.26	11119.14	40.50	2.34	1.59	657.15	0.62	0.61632	69	2.17
986	0.27	457.28	263.53	11209.67	40.80	2.33	1.52	662.36	0.62	0.61601	69	2.15
987	0.27	457.79	263.79	10970.43	39.85	2.31	1.35	647.26	0.62	0.6157	68	2.13
988	0.27	458.30	264.06	9969.03	36.02	2.42	1.86	585.28	0.62	0.61539	61	2.25
989	0.27	458.81	264.33	8586.38	30.75	2.52	2.15	499.91	0.62	0.61507	53	2.34
990	0.27	459.33	264.60	7372.90	26.13	2.63	2.68	26.13	0.38	0.37793	28	2.63
991	0.27	459.84	264.86	6733.59	23.69	2.66	2.63	23.69	0.38	0.37755	25	2.66
992	0.27	460.35	265.13	8624.60	30.79	2.49	1.97	501.40	0.61	0.61414	53	2.31
993	0.27	460.86	265.40	11199.58	40.46	2.35	1.61	659.18	0.61	0.61383	69	2.17
994	0.27	461.38	265.67	12320.06	44.64	2.31	1.57	727.56	0.61	0.61353	76	2.13
995	0.27	461.89	265.93	13774.02	50.06	2.21	1.25	816.32	0.61	0.61322	84	2.03
996	0.27	462.40	266.20	14218.84	51.68	2.16	1.07	843.14	0.61	0.61291	87	1.98
997	0.27	462.91	266.47	14285.01	51.87	2.14	1.00	846.74	0.61	0.6126	87	1.95
998	0.27	463.43	266.73	14341.75	52.03	2.13	0.99	849.76	0.61	0.61229	88	1.95
999	0.27	463.94	267.00	14421.81	52.28	2.13	0.96	854.21	0.61	0.61199	88	1.94
1000	0.27	464.45	267.27	14067.15	50.90	2.13	0.96	832.05	0.61	0.61168	86	1.95
1001	0.27	464.96	267.54	13639.13	49.24	2.15	0.97	805.44	0.61	0.61138	83	1.96
1002	0.27	465.48	267.80	13308.79	47.96	2.17	1.01	784.82	0.61	0.61107	81	1.98
1003	0.27	465.99	268.07	12473.24	44.79	2.22	1.11	733.36	0.61	0.61077	76	2.03
1004	0.27	466.50	268.34	11460.71	40.97	2.28	1.25	671.16	0.61	0.61046	70	2.09
1005	0.27	467.01	268.61	10294.10	36.59	2.35	1.44	599.61	0.61	0.61016	63	2.17
1006	0.27	467.53	268.87	9414.21	33.27	2.43	1.69	545.62	0.61	0.60986	57	2.24
1007	0.27	468.04	269.14	7956.10	27.82	2.56	2.22	456.44	0.61	0.60955	48	2.37
1008	0.27	468.55	269.41	7182.37	24.92	2.62	2.41	24.92	0.37	0.37119	27	2.62
1009	0.27	469.06	269.67	6655.00	22.94	2.67	2.64	22.94	0.37	0.37082	25	2.67
1010	0.27	469.58	269.94	5514.41	18.69	2.80	3.25	18.69	0.37	0.37045	20	2.80
1011	0.27	470.09	270.21	4594.27	15.26	2.87	3.30	15.26	0.37	0.37008	17	2.87
1012	0.27	470.60	270.48	4121.88	13.50	2.91	3.28	13.50	0.37	0.36972	15	2.91
1013	0.27	471.11	270.74	3678.83	11.85	2.97	3.47	11.85	0.37	0.36935	13	2.97
1014	0.27	471.63	271.01	3622.15	11.63	2.98	3.50	11.63	0.37	0.36899	13	2.98
1015	0.27	472.14	271.28	3914.97	12.69	2.91	2.94	12.69	0.37	0.36863	14	2.91
1016	0.27	472.65	271.55	4721.43	15.65	2.78	2.38	15.65	0.37	0.36826	17	2.78
1017	0.27	473.16	271.81	5424.94	18.22	2.69	2.07	18.22	0.37	0.3679	20	2.69
1018	0.27	473.68	272.08	5810.30	19.61	2.62	1.70	19.61	0.37	0.36754	21	2.62
1019	0.27	474.19	272.35	5665.73	19.06	2.60	1.50	314.58	0.61	0.60595	34	2.39
1020	0.27	474.70	272.61	5693.72	19.14	2.57	1.34	316.09	0.61	0.60566	34	2.36
1021	0.27	475.21	272.88	5268.66	17.57	2.64	1.56	17.57	0.37	0.36646	19	2.64
1022	0.27	475.73	273.15	4782.63	15.77	2.70	1.71	15.77	0.37	0.3661	17	2.70
1023	0.27	476.24	273.42	4205.80	13.64	2.75	1.70	13.64	0.37	0.36574	15	2.75
1024	0.27	476.75	273.68	3568.88	11.30	2.82	1.71	11.30	0.37	0.36539	13	2.82
1025	0.27	477.26	273.95	3310.54	10.34	2.80	1.32	10.34	0.37	0.36503	12	2.80
1026	0.27	477.78	274.22	2894.63	8.81	2.83	1.13	8.81	0.36	0.36467	10	2.83
1027	0.27	478.29	274.48	2364.64	6.87	2.93	1.16	6.87	0.36	0.36432	9	2.93
1028	0.27	478.80	274.75	1982.39	5.47	3.04	1.32	5.47	0.36	0.36396	7	3.04
1029	0.27	479.31	275.02	1774.85	4.71	3.13	1.53	4.71	0.36	0.36361	6	3.13
1030	0.27	479.83	275.29	1693.84	4.41	3.17	1.68	4.41	0.36	0.36326	6	3.17
1031	0.27	480.34	275.55	1679.57	4.35	3.22	2.08	4.35	0.36	0.36291	6	3.22
1032	0.27	480.85	275.82	1683.82	4.36	3.23	2.19	4.36	0.36	0.36255	6	3.23
1033	0.27	481.36	276.09	1809.49	4.81	3.21	2.35	4.81	0.36	0.3622	6	3.21
1034	0.27	481.88	276.36	1939.47	5.27	3.20	2.65	5.27	0.36	0.36185	7	3.20
1035	0.27	482.39	276.62	2046.65	5.65	3.20	3.00	5.65	0.36	0.3615	7	3.20
1036	0.27	482.90	276.89	2052.92	5.67	3.22	3.24	5.67	0.36	0.36115	7	3.22
1037	0.27	483.41	277.16	2098.06	5.83	3.21	3.23	5.83	0.36	0.36081	7	3.21
1038	0.27	483.93	277.42	2277.52	6.47	3.16	3.06	6.47	0.36	0.36046	8	3.16
1039	0.27	484.44	277.69	2879.62	8.63	2.95	1.92	8.63	0.36	0.36011	10	2.95
1040	0.27	484.95	277.96	3109.94	9.44	2.85	1.46	9.44	0.36	0.35977	11	2.85
1041	0.27	485.46	278.23	2558.18	7.45	2.97	1.65	7.45	0.36	0.35942	9	2.97
1042	0.27	485.98	278.49	2065.56	5.67	3.12	2.03	5.67	0.36	0.35907	7	3.12
1043	0.27	486.49	278.76	1902.62	5.08	3.23	2.78	5.08	0.36	0.35873	7	3.23
1044	0.27	487.00	279.03	2107.70	5.81	3.18	2.81	5.81	0.36	0.35839	7	3.18
1045	0.27	487.51	279.30	2319.57	6.56	3.13	2.75	6.56	0.36	0.35804	8	3.13

	K	L	M	N	O	P	Q	R	S	T	U	V
1046	0.27	488.03	279.56	2377.71	6.76	3.15	3.11	6.76	0.36	0.3577	8	3.15
1047	0.27	488.54	279.83	2551.25	7.37	3.13	3.26	7.37	0.36	0.35736	9	3.13
1048	0.27	489.05	280.10	2595.70	7.52	3.16	3.92	7.52	0.36	0.35702	9	3.16
1049	0.27	489.56	280.36	2702.42	7.89	3.16	4.06	7.89	0.36	0.35668	9	3.16
1050	0.27	490.08	280.63	2751.49	8.06	3.16	4.16	8.06	0.36	0.35634	10	3.16
1051	0.27	490.59	280.90	2857.91	8.43	3.14	4.10	8.43	0.36	0.356	10	3.14
1052	0.27	491.10	281.17	2958.26	8.77	3.12	4.13	8.77	0.36	0.35566	10	3.12
1053	0.27	491.61	281.43	2963.96	8.78	3.13	4.30	8.78	0.36	0.35532	10	3.13
1054	0.27	492.13	281.70	2940.52	8.69	3.12	3.99	8.69	0.35	0.35499	10	3.12
1055	0.27	492.64	281.97	2884.17	8.48	3.13	4.00	8.48	0.35	0.35465	10	3.13
1056	0.27	493.15	282.24	2946.83	8.69	3.12	3.99	8.69	0.35	0.35431	10	3.12
1057	0.27	493.66	282.50	2900.02	8.52	3.13	4.00	8.52	0.35	0.35398	10	3.13
1058	0.27	494.18	282.77	2776.18	8.07	3.15	4.04	8.07	0.35	0.35364	10	3.15
1059	0.27	494.69	283.04	2644.22	7.59	3.17	4.05	7.59	0.35	0.35331	9	3.17
1060	0.27	495.20	283.30	2660.59	7.64	3.16	3.89	7.64	0.35	0.35298	9	3.16
1061	0.27	495.71	283.57	2638.66	7.56	3.16	3.89	7.56	0.35	0.35265	9	3.16
1062	0.27	496.23	283.84	2519.75	7.13	3.18	3.91	7.13	0.35	0.35231	9	3.18
1063	0.27	496.74	284.11	2388.91	6.66	3.21	3.91	6.66	0.35	0.35198	8	3.21
1064	0.27	497.25	284.37	2300.17	6.34	3.24	4.10	6.34	0.35	0.35165	8	3.24
1065	0.27	497.76	284.64	2315.74	6.39	3.22	3.82	6.39	0.35	0.35132	8	3.22
1066	0.27	498.28	284.91	2320.78	6.40	3.21	3.80	6.40	0.35	0.35099	8	3.21
1067	0.27	498.79	285.17	2975.93	8.69	3.03	2.84	8.69	0.35	0.35066	10	3.03
1068	0.27	499.30	285.44	4535.44	14.14	2.81	2.30	14.14	0.35	0.35033	16	2.81
1069	0.27	499.81	285.71	6312.80	20.35	2.64	1.98	20.35	0.35	0.35001	22	2.64
1070	0.27	500.33	285.98	7233.82	23.55	2.60	2.07	23.55	0.35	0.34968	25	2.60
1071	0.27	500.84	286.24	7412.21	24.15	2.65	2.59	24.15	0.35	0.34935	26	2.65
1072	0.27	501.35	286.51	8538.36	28.05	2.51	1.88	474.81	0.59	0.59078	50	2.31
1073	0.27	501.86	286.78	11643.31	38.85	2.28	1.17	657.91	0.59	0.59051	69	2.08
1074	0.27	502.38	287.05	14013.11	47.07	2.16	0.93	797.45	0.59	0.59023	83	1.96
1075	0.27	502.89	287.31	11998.53	40.01	2.28	1.24	678.20	0.59	0.58996	71	2.09
1076	0.27	503.40	287.58	8823.55	28.93	2.49	1.78	490.63	0.59	0.58969	52	2.29
1077	0.27	503.91	287.85	6424.76	20.57	2.67	2.24	20.57	0.35	0.34741	22	2.67
1078	0.27	504.43	288.11	4938.02	15.39	2.84	2.98	15.39	0.35	0.34708	17	2.84
1079	0.27	504.94	288.38	3831.71	11.54	3.02	4.01	11.54	0.35	0.34676	13	3.02
1080	0.27	505.45	288.65	3202.56	9.34	3.13	4.56	9.34	0.35	0.34644	11	3.13
1081	0.27	505.96	288.92	2432.36	6.67	3.27	5.09	6.67	0.35	0.34612	8	3.27
1082	0.27	506.48	289.18	2127.58	5.61	3.30	4.46	5.61	0.35	0.3458	7	3.30
1083	0.27	506.99	289.45	2085.21	5.45	3.27	3.81	5.45	0.35	0.34548	7	3.27
1084	0.27	507.50	289.72	2056.46	5.35	3.12	1.86	5.35	0.35	0.34516	7	3.12
1085	0.27	508.01	289.99	2014.92	5.20	3.09	1.53	5.20	0.34	0.34485	6	3.09
1086	0.27	508.53	290.25	1999.96	5.14	3.07	1.35	5.14	0.34	0.34453	6	3.07
1087	0.27	509.04	290.52	2023.25	5.21	3.04	1.17	5.21	0.34	0.34421	6	3.04
1088	0.27	509.55	290.79	2050.97	5.30	3.02	1.09	5.30	0.34	0.34389	7	3.02
1089	0.27	510.06	291.05	1909.03	4.81	3.09	1.30	4.81	0.34	0.34358	6	3.09
1090	0.27	510.58	291.32	1827.25	4.52	3.11	1.29	4.52	0.34	0.34326	6	3.11
1091	0.27	511.09	291.59	1716.33	4.13	3.16	1.38	4.13	0.34	0.34295	5	3.16
1092	0.27	511.60	291.86	1702.21	4.08	3.17	1.42	4.08	0.34	0.34263	5	3.17
1093	0.27	512.11	292.12	1711.87	4.11	3.19	1.57	4.11	0.34	0.34232	5	3.19
1094	0.27	512.63	292.39	1676.95	3.98	3.20	1.57	3.98	0.34	0.34201	5	3.20
1095	0.27	513.14	292.66	1670.89	3.96	3.21	1.60	3.96	0.34	0.3417	5	3.21
1096	0.27	513.65	292.93	1691.42	4.02	3.20	1.61	4.02	0.34	0.34138	5	3.20
1097	0.27	514.16	293.19	1676.24	3.96	3.21	1.62	3.96	0.34	0.34107	5	3.21
1098	0.27	514.68	293.46	1608.87	3.73	3.24	1.71	3.73	0.34	0.34076	5	3.24
1099	0.27	515.19	293.73	1613.39	3.74	3.24	1.72	3.74	0.34	0.34045	5	3.24
1100	0.27	515.70	293.99	1642.31	3.83	3.22	1.61	3.83	0.34	0.34014	5	3.22
1101	0.27	516.21	294.26	1693.60	4.00	3.19	1.49	4.00	0.34	0.33983	5	3.19
1102	0.27	516.73	294.53	1714.37	4.07	3.18	1.47	4.07	0.34	0.33953	5	3.18
1103	0.27	517.24	294.80	1723.14	4.09	3.18	1.48	4.09	0.34	0.33922	5	3.18
1104	0.27	517.75	295.06	1791.86	4.32	3.14	1.38	4.32	0.34	0.33891	6	3.14
1105	0.27	518.26	295.33	1796.79	4.33	3.14	1.35	4.33	0.34	0.3386	5	3.14
1106	0.27	518.78	295.60	1794.66	4.32	3.13	1.30	4.32	0.34	0.3383	5	3.13
1107	0.27	519.29	295.86	1768.63	4.22	3.14	1.30	4.22	0.34	0.33799	5	3.14
1108	0.27	519.80	296.13	1745.56	4.14	3.14	1.25	4.14	0.34	0.33769	5	3.14
1109	0.27	520.31	296.40	1734.59	4.10	3.14	1.22	4.10	0.34	0.33738	5	3.14
1110	0.27	520.83	296.67	1734.72	4.09	3.14	1.19	4.09	0.34	0.33708	5	3.14
1111	0.27	521.34	296.93	1697.36	3.96	3.12	1.00	3.96	0.34	0.33678	5	3.12
1112	0.27	521.85	297.20	1695.83	3.95	3.13	1.08	3.95	0.34	0.33647	5	3.13
1113	0.27	522.36	297.47	1675.75	3.88	3.15	1.10	3.88	0.34	0.33617	5	3.15
1114	0.27	522.88	297.74	1643.38	3.76	3.16	1.12	3.76	0.34	0.33587	5	3.16
1115	0.27	523.39	298.00	1609.08	3.64	3.17	1.11	3.64	0.34	0.33557	5	3.17

	K	L	M	N	O	P	Q	R	S	T	U	V
1116	0.27	523.90	298.27	1591.58	3.58	3.18	1.14	3.58	0.34	0.33527	5	3.18
1117	0.27	524.41	298.54	1579.90	3.54	3.19	1.15	3.54	0.33	0.33497	5	3.19
1118	0.27	524.93	298.80	1562.05	3.47	3.20	1.16	3.47	0.33	0.33467	5	3.20
1119	0.27	525.44	299.07	1556.20	3.45	3.21	1.21	3.45	0.33	0.33437	5	3.21
1120	0.27	525.95	299.34	1551.49	3.43	3.22	1.25	3.43	0.33	0.33407	5	3.22
1121	0.27	526.46	299.61	1571.55	3.49	3.19	1.12	3.49	0.33	0.33377	5	3.19
1122	0.27	526.98	299.87	1603.29	3.59	3.17	1.08	3.59	0.33	0.33347	5	3.17
1123	0.27	527.49	300.14	1642.16	3.71	3.15	1.05	3.71	0.33	0.33318	5	3.15
1124	0.27	528.00	300.41	1685.76	3.85	3.13	0.99	3.85	0.33	0.33288	5	3.13
1125	0.27	528.51	300.68	1652.74	3.74	3.14	0.97	3.74	0.33	0.33258	5	3.14
1126	0.27	529.03	300.94	1621.41	3.63	3.16	1.00	3.63	0.33	0.33229	5	3.16
1127	0.27	529.54	301.21	1552.35	3.40	3.20	1.09	3.40	0.33	0.33199	5	3.20
1128	0.27	530.05	301.48	1530.61	3.32	3.22	1.19	3.32	0.33	0.3317	4	3.22
1129	0.27	530.56	301.74	1555.45	3.40	3.20	1.11	3.40	0.33	0.33141	5	3.20
1130	0.27	531.08	302.01	1549.77	3.37	3.19	1.05	3.37	0.33	0.33111	5	3.19
1131	0.27	531.59	302.28	1532.74	3.31	3.21	1.12	3.31	0.33	0.33082	4	3.21
1132	0.27	532.10	302.55	1546.37	3.35	3.21	1.12	3.35	0.33	0.33053	5	3.21
1133	0.27	532.61	302.81	1554.29	3.37	3.21	1.13	3.37	0.33	0.33024	5	3.21
1134	0.27	533.13	303.08	1556.58	3.38	3.20	1.10	3.38	0.33	0.32995	5	3.20
1135	0.27	533.64	303.35	1632.83	3.62	3.17	1.07	3.62	0.33	0.32965	5	3.17
1136	0.27	534.15	303.62	1554.06	3.36	3.21	1.12	3.36	0.33	0.32936	5	3.21
1137	0.27	534.66	303.88	1533.87	3.29	3.25	1.34	3.29	0.33	0.32907	4	3.25
1138	0.27	535.18	304.15	1544.27	3.32	3.25	1.39	3.32	0.33	0.32879	4	3.25
1139	0.27	535.69	304.42	1595.58	3.48	3.25	1.51	3.48	0.33	0.3285	5	3.25
1140	0.27	536.20	304.68	1702.16	3.83	3.12	0.90	3.83	0.33	0.32821	5	3.12
1141	0.27	536.71	304.95	1794.43	4.12	3.13	1.17	4.12	0.33	0.32792	5	3.13
1142	0.27	537.23	305.22	2509.65	6.46	3.04	1.80	6.46	0.33	0.32763	8	3.04
1143	0.27	537.74	305.49	4110.18	11.69	2.77	1.42	11.69	0.33	0.32735	13	2.77
1144	0.27	538.25	305.75	5106.07	14.94	2.71	1.64	14.94	0.33	0.32706	16	2.71
1145	0.27	538.76	306.02	5525.39	16.30	2.68	1.68	16.30	0.33	0.32678	18	2.68
1146	0.27	539.28	306.29	6307.39	18.83	2.70	2.22	18.83	0.33	0.32649	21	2.70
1147	0.27	539.79	306.55	6443.99	19.26	2.73	2.59	19.26	0.33	0.32621	21	2.73
1148	0.27	540.30	306.82	5851.00	17.31	2.80	2.93	17.31	0.33	0.32592	19	2.80
1149	0.27	540.81	307.09	4955.81	14.38	2.92	3.69	14.38	0.33	0.32564	16	2.92
1150	0.27	541.33	307.36	4297.22	12.22	3.04	4.65	12.22	0.33	0.32536	14	3.04
1151	0.27	541.84	307.62	4920.83	14.23	2.92	3.63	14.23	0.33	0.32507	16	2.92
1152	0.27	542.35	307.89	5589.58	16.39	2.83	3.09	16.39	0.32	0.32479	18	2.83
1153	0.27	542.86	308.16	6641.24	19.79	2.72	2.57	19.79	0.32	0.32451	22	2.72
1154	0.27	543.38	308.43	7380.19	22.17	2.71	2.89	22.17	0.32	0.32423	24	2.71
1155	0.27	543.89	308.69	7891.34	23.80	2.64	2.45	23.80	0.32	0.32395	26	2.64
1156	0.27	544.40	308.96	6944.92	20.72	2.70	2.58	20.72	0.32	0.32367	22	2.70
1157	0.27	544.91	309.23	6813.06	20.27	2.67	2.22	20.27	0.32	0.32339	22	2.67
1158	0.27	545.43	309.49	9205.97	27.98	2.44	1.37	492.29	0.57	0.56843	52	2.22
1159	0.27	545.94	309.76	11786.74	36.29	2.26	0.99	638.68	0.57	0.56818	67	2.05
1160	0.27	546.45	310.03	11369.46	34.91	2.31	1.15	614.68	0.57	0.56794	65	2.10
1161	0.27	546.96	310.30	9171.82	27.80	2.45	1.42	489.62	0.57	0.56769	52	2.23
1162	0.27	547.48	310.56	6918.25	20.51	2.61	1.78	20.51	0.32	0.3222	22	2.61
1163	0.27	547.99	310.83	4593.07	13.01	2.87	2.66	13.01	0.32	0.32172	15	2.87
1164	0.27	548.50	311.10	3021.06	7.95	3.16	4.24	7.95	0.32	0.32144	10	3.16
1165	0.27	549.01	311.37	2430.98	6.04	3.32	5.25	6.04	0.32	0.32117	8	3.32
1166	0.27	549.53	311.63	2363.98	5.82	3.25	3.86	5.82	0.32	0.32089	7	3.25
1167	0.27	550.04	311.90	2431.81	6.03	3.18	2.95	6.03	0.32	0.32062	8	3.18
1168	0.27	550.55	312.17	2362.21	5.80	3.18	2.88	5.80	0.32	0.32034	7	3.18
1169	0.27	551.06	312.43	2313.97	5.64	3.12	2.05	5.64	0.32	0.32007	7	3.12
1170	0.27	551.58	312.70	2882.00	7.45	2.99	1.80	7.45	0.32	0.31979	9	2.99
1171	0.27	552.09	312.97	3853.93	10.55	2.85	1.77	10.55	0.32	0.31952	12	2.85
1172	0.27	552.60	313.24	5110.43	14.55	2.70	1.54	14.55	0.32	0.31925	16	2.70
1173	0.27	553.11	313.50	5217.14	14.88	2.73	1.78	14.88	0.32	0.31898	17	2.73
1174	0.27	553.63	313.77	4280.42	11.88	2.87	2.27	11.88	0.32	0.3187	14	2.87
1175	0.27	554.14	314.04	3327.67	8.83	3.04	3.04	8.83	0.32	0.31843	10	3.04
1176	0.27	554.65	314.31	2495.49	6.18	3.23	3.83	6.18	0.32	0.31816	8	3.23
1177	0.27	555.16	314.57	2223.86	5.30	3.28	3.79	5.30	0.32	0.31789	7	3.28
1178	0.27	555.68	314.84	2129.39	5.00	3.24	2.90	5.00	0.32	0.31762	6	3.24
1179	0.27	556.19	315.11	2028.73	4.67	3.17	1.83	4.67	0.32	0.31735	6	3.17
1180	0.27	556.70	315.37	1922.15	4.33	3.19	1.73	4.33	0.32	0.31708	6	3.19
1181	0.27	557.21	315.64	1860.56	4.13	3.21	1.75	4.13	0.32	0.31682	6	3.21
1182	0.27	557.72	315.91	1844.36	4.07	3.20	1.65	4.07	0.32	0.31655	5	3.20
1183	0.27	558.24	316.18	1857.70	4.11	3.19	1.56	4.11	0.32	0.31628	6	3.19
1184	0.27	558.75	316.44	1836.50	4.04	3.19	1.54	4.04	0.32	0.31601	5	3.19
1185	0.27	559.26	316.71	1759.08	3.79	3.23	1.64	3.79	0.32	0.31575	5	3.23

	K	L	M	N	O	P	Q	R	S	T	U	V
1186	0.27	559.77	316.98	1733.06	3.70	3.23	1.61	3.70	0.32	0.31548	5	3.23
1187	0.27	560.29	317.24	1810.24	3.94	3.21	1.58	3.94	0.32	0.31521	5	3.21
1188	0.27	560.80	317.51	1800.18	3.90	3.21	1.55	3.90	0.31	0.31495	5	3.21
1189	0.27	561.31	317.78	1719.44	3.64	3.24	1.61	3.64	0.31	0.31468	5	3.24
1190	0.27	561.82	318.05	1798.14	3.89	3.20	1.53	3.89	0.31	0.31442	5	3.20
1191	0.27	562.34	318.31	1900.05	4.20	3.17	1.50	4.20	0.31	0.31416	6	3.17
1192	0.27	562.85	318.58	1957.54	4.38	3.13	1.30	4.38	0.31	0.31389	6	3.13
1193	0.27	563.36	318.85	1966.38	4.40	3.13	1.34	4.40	0.31	0.31363	6	3.13
1194	0.27	563.87	319.12	2052.12	4.66	3.10	1.26	4.66	0.31	0.31337	6	3.10
1195	0.27	564.39	319.38	2007.61	4.52	3.11	1.28	4.52	0.31	0.31311	6	3.11
1196	0.27	564.90	319.65	1880.49	4.12	3.15	1.30	4.12	0.31	0.31284	5	3.15
1197	0.27	565.41	319.92	1767.85	3.76	3.20	1.36	3.76	0.31	0.31258	5	3.20
1198	0.27	565.92	320.18	1779.57	3.79	3.19	1.35	3.79	0.31	0.31232	5	3.19
1199	0.27	566.44	320.45	1815.20	3.90	3.16	1.20	3.90	0.31	0.31206	5	3.16
1200	0.27	566.95	320.72	1791.17	3.82	3.16	1.14	3.82	0.31	0.3118	5	3.16
1201	0.27	567.46	320.99	1756.64	3.70	3.17	1.14	3.70	0.31	0.31154	5	3.17
1202	0.27	567.97	321.25	1688.17	3.49	3.20	1.21	3.49	0.31	0.31128	5	3.20
1203	0.27	568.49	321.52	1715.02	3.57	3.19	1.15	3.57	0.31	0.31102	5	3.19
1204	0.27	569.00	321.79	1691.83	3.49	3.20	1.19	3.49	0.31	0.31076	5	3.20
1205	0.27	569.51	322.06	1706.27	3.53	3.19	1.12	3.53	0.31	0.31051	5	3.19
1206	0.27	570.02	322.32	1701.38	3.51	3.19	1.14	3.51	0.31	0.31025	5	3.19
1207	0.27	570.54	322.59	1744.68	3.64	3.18	1.17	3.64	0.31	0.30999	5	3.18
1208	0.27	571.05	322.86	1789.25	3.77	3.16	1.12	3.77	0.31	0.30973	5	3.16
1209	0.27	571.56	323.12	1778.19	3.73	3.16	1.08	3.73	0.31	0.30948	5	3.16
1210	0.27	572.07	323.39	1723.74	3.56	3.19	1.19	3.56	0.31	0.30922	5	3.19
1211	0.27	572.59	323.66	1742.93	3.62	3.18	1.16	3.62	0.31	0.30897	5	3.18
1212	0.27	573.10	323.93	1714.98	3.53	3.20	1.20	3.53	0.31	0.30871	5	3.20
1213	0.27	573.61	324.19	1717.13	3.53	3.20	1.19	3.53	0.31	0.30846	5	3.20
1214	0.27	574.12	324.46	1712.88	3.51	3.20	1.23	3.51	0.31	0.3082	5	3.20
1215	0.27	574.64	324.73	1732.68	3.57	3.19	1.16	3.57	0.31	0.30795	5	3.19
1216	0.27	575.15	325.00	1770.52	3.68	3.17	1.10	3.68	0.31	0.3077	5	3.17
1217	0.27	575.66	325.26	1743.67	3.59	3.19	1.18	3.59	0.31	0.30744	5	3.19
1218	0.27	576.17	325.53	1885.69	4.02	3.13	1.11	4.02	0.31	0.30719	5	3.13
1219	0.27	576.69	325.80	1940.74	4.19	3.12	1.14	4.19	0.31	0.30694	5	3.12
1220	0.27	577.20	326.06	1975.01	4.29	3.11	1.15	4.29	0.31	0.30669	6	3.11
1221	0.27	577.71	326.33	1928.05	4.14	3.14	1.24	4.14	0.31	0.30644	5	3.14
1222	0.27	578.22	326.60	1936.78	4.16	3.14	1.26	4.16	0.31	0.30619	5	3.14
1223	0.27	578.74	326.87	1906.40	4.06	3.18	1.49	4.06	0.31	0.30594	5	3.18
1224	0.27	579.25	327.13	1820.03	3.79	3.21	1.48	3.79	0.31	0.30569	5	3.21
1225	0.27	579.76	327.40	1824.17	3.80	3.17	1.24	3.80	0.31	0.30544	5	3.17
1226	0.27	580.27	327.67	1832.59	3.82	3.18	1.28	3.82	0.31	0.30519	5	3.18
1227	0.27	580.79	327.93	1996.08	4.32	3.13	1.29	4.32	0.3	0.30494	6	3.13
1228	0.27	581.30	328.20	2134.10	4.73	3.09	1.26	4.73	0.3	0.30469	6	3.09
1229	0.27	581.81	328.47	2200.25	4.93	3.10	1.41	4.93	0.3	0.30444	6	3.10
1230	0.27	582.32	328.74	2195.33	4.91	3.10	1.44	4.91	0.3	0.3042	6	3.10
1231	0.27	582.84	329.00	2188.44	4.88	3.16	1.89	4.88	0.3	0.30395	6	3.16
1232	0.27	583.35	329.27	2193.05	4.89	3.17	1.96	4.89	0.3	0.3037	6	3.17
1233	0.27	583.86	329.54	2276.92	5.14	3.13	1.83	5.14	0.3	0.30345	6	3.13
1234	0.27	584.37	329.81	2430.52	5.60	3.09	1.71	5.60	0.3	0.30321	7	3.09
1235	0.27	584.89	330.07	2582.48	6.05	3.05	1.66	6.05	0.3	0.30296	7	3.05
1236	0.27	585.40	330.34	2597.84	6.09	3.04	1.60	6.09	0.3	0.30272	7	3.04
1237	0.27	585.91	330.61	2386.13	5.45	3.09	1.69	5.45	0.3	0.30247	7	3.09
1238	0.27	586.42	330.87	2145.17	4.71	3.18	1.92	4.71	0.3	0.30223	6	3.18
1239	0.27	586.94	331.14	1973.04	4.19	3.24	2.06	4.19	0.3	0.30199	6	3.24
1240	0.27	587.45	331.41	1843.58	3.79	3.27	2.05	3.79	0.3	0.30174	5	3.27
1241	0.27	587.96	331.68	1823.58	3.73	3.26	1.90	3.73	0.3	0.3015	5	3.26
1242	0.27	588.47	331.94	1883.81	3.90	3.20	1.54	3.90	0.3	0.30126	5	3.20
1243	0.27	588.99	332.21	1905.97	3.96	3.17	1.35	3.96	0.3	0.30101	5	3.17
1244	0.27	589.50	332.48	1973.14	4.16	3.14	1.25	4.16	0.3	0.30077	5	3.14
1245	0.27	590.01	332.75	1922.29	4.00	3.15	1.25	4.00	0.3	0.30053	5	3.15
1246	0.27	590.52	333.01	1895.51	3.92	3.17	1.27	3.92	0.3	0.30029	5	3.17
1247	0.27	591.04	333.28	1911.09	3.96	3.16	1.27	3.96	0.3	0.30005	5	3.16
1248	0.27	591.55	333.55	1891.98	3.90	3.18	1.33	3.90	0.3	0.29981	5	3.18
1249	0.27	592.06	333.81	1898.90	3.91	3.17	1.27	3.91	0.3	0.29957	5	3.17
1250	0.27	592.57	334.08	1868.64	3.82	3.17	1.22	3.82	0.3	0.29933	5	3.17
1251	0.27	593.09	334.35	1887.96	3.87	3.16	1.21	3.87	0.3	0.29909	5	3.16
1252	0.27	593.60	334.62	1916.25	3.95	3.16	1.22	3.95	0.3	0.29885	5	3.16
1253	0.27	594.11	334.88	1942.82	4.03	3.15	1.21	4.03	0.3	0.29861	5	3.15
1254	0.27	594.62	335.15	1930.56	3.99	3.15	1.21	3.99	0.3	0.29837	5	3.15
1255	0.27	595.14	335.42	1886.97	3.85	3.18	1.29	3.85	0.3	0.29814	5	3.18

	K	L	M	N	O	P	Q	R	S	T	U	V
1256	0.27	595.65	335.69	1905.34	3.90	3.17	1.27	3.90	0.3	0.2979	5	3.17
1257	0.27	596.16	335.95	1902.88	3.89	3.18	1.31	3.89	0.3	0.29766	5	3.18
1258	0.27	596.67	336.22	1909.46	3.90	3.17	1.27	3.90	0.3	0.29742	5	3.17
1259	0.27	597.19	336.49	1884.42	3.83	3.18	1.28	3.83	0.3	0.29719	5	3.18
1260	0.27	597.70	336.75	1884.13	3.82	3.17	1.24	3.82	0.3	0.29695	5	3.17
1261	0.27	598.21	337.02	1936.58	3.97	3.15	1.16	3.97	0.3	0.29672	5	3.15
1262	0.27	598.72	337.29	1999.25	4.15	3.12	1.11	4.15	0.3	0.29648	5	3.12
1263	0.27	599.24	337.56	2013.18	4.19	3.11	1.10	4.19	0.3	0.29625	5	3.11
1264	0.27	599.75	337.82	1940.59	3.97	3.15	1.22	3.97	0.3	0.29601	5	3.15
1265	0.27	600.26	338.09	1892.54	3.82	3.18	1.29	3.82	0.3	0.29578	5	3.18
1266	0.27	600.77	338.36	1879.75	3.78	3.18	1.27	3.78	0.3	0.29555	5	3.18
1267	0.27	601.29	338.62	1907.11	3.86	3.17	1.26	3.86	0.3	0.29531	5	3.17
1268	0.27	601.80	338.89	1934.63	3.93	3.16	1.21	3.93	0.3	0.29508	5	3.16
1269	0.27	602.31	339.16	1967.83	4.03	3.15	1.23	4.03	0.29	0.29485	5	3.15
1270	0.27	602.82	339.43	1968.88	4.02	3.16	1.33	4.02	0.29	0.29461	5	3.16
1271	0.27	603.34	339.69	1940.64	3.94	3.18	1.34	3.94	0.29	0.29438	5	3.18
1272	0.27	603.85	339.96	1948.11	3.95	3.18	1.36	3.95	0.29	0.29415	5	3.18
1273	0.27	604.36	340.23	2023.85	4.17	3.16	1.38	4.17	0.29	0.29392	5	3.16
1274	0.27	604.87	340.50	2090.59	4.36	3.14	1.40	4.36	0.29	0.29369	6	3.14
1275	0.27	605.39	340.76	2216.01	4.73	3.09	1.25	4.73	0.29	0.29346	6	3.09
1276	0.27	605.90	341.03	2256.61	4.84	3.14	1.68	4.84	0.29	0.29323	6	3.14
1277	0.27	606.41	341.30	2277.78	4.90	3.12	1.60	4.90	0.29	0.293	6	3.12
1278	0.27	606.92	341.56	2281.68	4.90	3.10	1.41	4.90	0.29	0.29277	6	3.10
1279	0.27	607.44	341.83	2455.91	5.41	3.04	1.24	5.41	0.29	0.29254	7	3.04
1280	0.27	607.95	342.10	3678.85	8.98	2.87	1.47	8.98	0.29	0.29231	11	2.87
1281	0.27	608.46	342.37	5154.24	13.28	2.71	1.39	13.28	0.29	0.29208	15	2.71
1282	0.27	608.97	342.63	5067.67	13.01	2.76	1.68	13.01	0.29	0.29186	15	2.76
1283	0.27	609.49	342.90	3690.59	8.99	3.04	3.07	8.99	0.29	0.29163	11	3.04
1284	0.27	610.00	343.17	4287.91	10.72	3.00	3.36	10.72	0.29	0.2914	12	3.00
1285	0.27	610.51	343.44	7191.78	19.16	2.67	2.04	19.16	0.29	0.29118	21	2.67
1286	0.27	611.02	343.70	11393.96	31.37	2.36	1.21	581.63	0.54	0.5394	61	2.13
1287	0.27	611.54	343.97	13693.94	38.03	2.27	1.08	705.39	0.54	0.53919	74	2.03
1288	0.27	612.05	344.24	12800.87	35.41	2.33	1.26	656.95	0.54	0.53898	69	2.10
1289	0.27	612.56	344.50	11117.61	30.49	2.45	1.65	565.98	0.54	0.53877	60	2.22
1290	0.27	613.07	344.77	9326.88	25.27	2.59	2.23	469.29	0.54	0.53856	50	2.36
1291	0.27	613.59	345.04	7386.20	19.63	2.75	2.89	19.63	0.29	0.28982	21	2.75
1292	0.27	614.10	345.31	5427.53	13.94	2.93	3.61	13.94	0.29	0.2896	16	2.93
1293	0.27	614.61	345.57	4102.24	10.09	3.09	4.39	10.09	0.29	0.28937	12	3.09
1294	0.27	615.12	345.84	3168.43	7.38	3.22	4.80	7.38	0.29	0.28915	9	3.22
1295	0.27	615.64	346.11	2981.72	6.84	3.17	3.45	6.84	0.29	0.28893	8	3.17
1296	0.27	616.15	346.38	2699.57	6.01	3.14	2.53	6.01	0.29	0.2887	8	3.14
1297	0.27	616.66	346.64	2509.73	5.46	3.09	1.71	5.46	0.29	0.28848	7	3.09
1298	0.27	617.17	346.91	2205.26	4.58	3.15	1.63	4.58	0.29	0.28826	6	3.15
1299	0.27	617.69	347.18	2004.49	3.99	3.23	1.85	3.99	0.29	0.28804	6	3.23
1300	0.27	618.20	347.44	1930.50	3.78	3.25	1.83	3.78	0.29	0.28782	5	3.25
1301	0.27	618.71	347.71	1931.91	3.78	3.24	1.75	3.78	0.29	0.28759	5	3.24
1302	0.27	619.22	347.98	1964.56	3.87	3.22	1.64	3.87	0.29	0.28737	5	3.22
1303	0.27	619.74	348.25	1977.94	3.90	3.22	1.65	3.90	0.29	0.28715	5	3.22
1304	0.27	620.25	348.51	1999.68	3.96	3.24	1.88	3.96	0.29	0.28693	5	3.24
1305	0.27	620.76	348.78	2100.03	4.24	3.21	1.88	4.24	0.29	0.28671	6	3.21
1306	0.27	621.27	349.05	2240.25	4.64	3.16	1.76	4.64	0.29	0.28649	6	3.16
1307	0.27	621.79	349.31	2347.54	4.94	3.14	1.81	4.94	0.29	0.28627	6	3.14
1308	0.27	622.30	349.58	2332.93	4.89	3.18	2.12	4.89	0.29	0.28606	6	3.18
1309	0.27	622.81	349.85	2278.32	4.73	3.22	2.43	4.73	0.29	0.28584	6	3.22
1310	0.27	623.32	350.12	2363.36	4.97	3.22	2.61	4.97	0.29	0.28562	6	3.22
1311	0.27	623.84	350.38	2518.14	5.41	3.20	2.75	5.41	0.29	0.2854	7	3.20
1312	0.27	624.35	350.65	2919.50	6.55	3.17	3.29	6.55	0.29	0.28518	8	3.17
1313	0.27	624.86	350.92	4119.43	9.96	3.01	3.20	9.96	0.28	0.28497	11	3.01
1314	0.27	625.37	351.19	5842.45	14.86	2.84	2.79	14.86	0.28	0.28475	16	2.84
1315	0.27	625.89	351.45	8128.83	21.35	2.65	2.17	21.35	0.28	0.28453	23	2.65
1316	0.27	626.40	351.72	7556.56	19.70	2.66	2.07	19.70	0.28	0.28432	21	2.66
1317	0.27	626.91	351.99	6743.10	17.38	2.73	2.28	17.38	0.28	0.2841	19	2.73
1318	0.27	627.42	352.25	6146.12	15.67	2.78	2.38	15.67	0.28	0.28389	17	2.78
1319	0.27	627.94	352.52	4867.24	12.03	2.93	2.96	12.03	0.28	0.28367	14	2.93
1320	0.27	628.45	352.79	3920.99	9.33	3.05	3.34	9.33	0.28	0.28346	11	3.05
1321	0.27	628.96	353.06	3071.74	6.92	3.18	3.75	6.92	0.28	0.28324	9	3.18
1322	0.27	629.47	353.32	2539.55	5.41	3.30	4.21	5.41	0.28	0.28303	7	3.30
1323	0.27	629.99	353.59	2364.24	4.90	3.32	3.90	4.90	0.28	0.28281	7	3.32
1324	0.27	630.50	353.86	2185.06	4.39	3.32	3.27	4.39	0.28	0.2826	6	3.32
1325	0.27	631.01	354.13	2111.89	4.18	3.31	2.97	4.18	0.28	0.28239	6	3.31

	K	L	M	N	O	P	Q	R	S	T	U	V
1326	0.27	631.52	354.39	2125.10	4.21	3.28	2.62	4.21	0.28	0.28217	6	3.28
1327	0.27	632.04	354.66	2060.72	4.03	3.29	2.55	4.03	0.28	0.28196	6	3.29
1328	0.27	632.55	354.93	1992.44	3.83	3.32	2.60	3.83	0.28	0.28175	5	3.32
1329	0.27	633.06	355.19	2012.61	3.88	3.30	2.41	3.88	0.28	0.28154	5	3.30
1330	0.27	633.57	355.46	2017.53	3.89	3.30	2.42	3.89	0.28	0.28132	5	3.30
1331	0.27	634.09	355.73	2039.11	3.95	3.28	2.30	3.95	0.28	0.28111	5	3.28
1332	0.27	634.60	356.00	2037.38	3.94	3.27	2.21	3.94	0.28	0.2809	5	3.27
1333	0.27	635.11	356.26	2030.77	3.92	3.28	2.23	3.92	0.28	0.28069	5	3.28
1334	0.27	635.62	356.53	2087.64	4.07	3.26	2.19	4.07	0.28	0.28048	6	3.26
1335	0.27	636.14	356.80	2175.45	4.31	3.23	2.10	4.31	0.28	0.28027	6	3.23
1336	0.27	636.65	357.07	2257.29	4.54	3.19	1.88	4.54	0.28	0.28006	6	3.19
1337	0.27	637.16	357.33	2295.62	4.64	3.17	1.79	4.64	0.28	0.27985	6	3.17
1338	0.27	637.67	357.60	2287.03	4.61	3.17	1.82	4.61	0.28	0.27964	6	3.17
1339	0.27	638.19	357.87	2294.20	4.63	3.17	1.78	4.63	0.28	0.27943	6	3.17
1340	0.27	638.70	358.13	2265.24	4.54	3.17	1.74	4.54	0.28	0.27923	6	3.17
1341	0.27	639.21	358.40	2223.62	4.42	3.16	1.57	4.42	0.28	0.27902	6	3.16
1342	0.27	639.72	358.67	2106.70	4.09	3.20	1.67	4.09	0.28	0.27881	5	3.20
1343	0.27	640.24	358.94	2052.34	3.93	3.22	1.74	3.93	0.28	0.2786	5	3.22
1344	0.27	640.75	359.20	2085.63	4.02	3.20	1.63	4.02	0.28	0.27839	5	3.20
1345	0.27	641.26	359.47	2096.29	4.05	3.17	1.42	4.05	0.28	0.27819	5	3.17
1346	0.27	641.77	359.74	2081.45	4.00	3.19	1.47	4.00	0.28	0.27798	5	3.19
1347	0.27	642.29	360.00	2179.61	4.27	3.21	1.87	4.27	0.28	0.27777	6	3.21
1348	0.27	642.80	360.27	2344.46	4.72	3.16	1.77	4.72	0.28	0.27757	6	3.16
1349	0.27	643.31	360.54	2679.86	5.65	3.17	2.55	5.65	0.28	0.27736	7	3.17
1350	0.27	643.82	360.81	3380.41	7.58	3.13	3.44	7.58	0.28	0.27716	9	3.13
1351	0.27	644.34	361.07	5822.70	14.34	2.76	1.95	14.34	0.28	0.27695	16	2.76
1352	0.27	644.85	361.34	8426.34	21.54	2.58	1.69	409.36	0.53	0.52607	44	2.33
1353	0.27	645.36	361.61	8975.53	23.04	2.56	1.74	438.06	0.53	0.52587	47	2.32
1354	0.27	645.87	361.88	7885.36	20.01	2.68	2.27	20.01	0.28	0.27634	22	2.68
1355	0.27	646.39	362.14	7419.55	18.70	2.75	2.68	18.70	0.28	0.27613	20	2.75
1356	0.27	646.90	362.41	6690.21	16.68	2.84	3.29	16.68	0.28	0.27593	18	2.84
1357	0.27	647.41	362.68	6011.91	14.79	2.91	3.61	14.79	0.28	0.27573	17	2.91
1358	0.27	647.92	362.94	5492.94	13.35	2.96	3.85	13.35	0.28	0.27552	15	2.96
1359	0.27	648.44	363.21	4902.23	11.71	3.02	4.02	11.71	0.28	0.27532	13	3.02
1360	0.27	648.95	363.48	4121.66	9.55	3.09	4.07	9.55	0.28	0.27512	11	3.09
1361	0.27	649.46	363.75	3888.97	8.91	3.08	3.56	8.91	0.27	0.27492	11	3.08
1362	0.27	649.97	364.01	3746.94	8.51	3.07	3.15	8.51	0.27	0.27472	10	3.07
1363	0.27	650.49	364.28	3364.37	7.45	3.10	2.98	7.45	0.27	0.27451	9	3.10
1364	0.27	651.00	364.55	3065.97	6.62	3.15	3.04	6.62	0.27	0.27431	8	3.15
1365	0.27	651.51	364.82	2788.20	5.86	3.22	3.40	5.86	0.27	0.27411	7	3.22
1366	0.27	652.02	365.08	2813.77	5.92	3.23	3.55	5.92	0.27	0.27391	8	3.23
1367	0.27	652.54	365.35	2931.10	6.24	3.20	3.49	6.24	0.27	0.27371	8	3.20
1368	0.27	653.05	365.62	2920.37	6.20	3.22	3.72	6.20	0.27	0.27351	8	3.22
1369	0.27	653.56	365.88	2780.46	5.81	3.26	4.01	5.81	0.27	0.27331	7	3.26
1370	0.27	654.07	366.15	2731.54	5.67	3.28	4.18	5.67	0.27	0.27311	7	3.28
1371	0.27	654.59	366.42	2750.48	5.72	3.28	4.17	5.72	0.27	0.27291	7	3.28
1372	0.27	655.10	366.69	2842.98	5.97	3.25	3.93	5.97	0.27	0.27271	8	3.25
1373	0.27	655.61	366.95	2873.75	6.04	3.23	3.74	6.04	0.27	0.27251	8	3.23
1374	0.27	656.12	367.22	2930.28	6.19	3.20	3.45	6.19	0.27	0.27232	8	3.20
1375	0.27	656.64	367.49	2890.27	6.08	3.21	3.46	6.08	0.27	0.27212	8	3.21
1376	0.27	657.15	367.76	2981.59	6.32	3.20	3.48	6.32	0.27	0.27192	8	3.20
1377	0.27	657.66	368.02	2918.68	6.14	3.22	3.70	6.14	0.27	0.27172	8	3.22
1378	0.27	658.17	368.29	2934.72	6.18	3.22	3.69	6.18	0.27	0.27153	8	3.22
1379	0.27	658.69	368.56	2920.81	6.14	3.23	3.81	6.14	0.27	0.27133	8	3.23
1380	0.27	659.20	368.82	2888.11	6.04	3.24	3.93	6.04	0.27	0.27113	8	3.24
1381	0.27	659.71	369.09	2883.95	6.03	3.25	4.04	6.03	0.27	0.27094	8	3.25
1382	0.27	660.22	369.36	2909.78	6.09	3.25	4.04	6.09	0.27	0.27074	8	3.25
1383	0.27	660.74	369.63	2904.49	6.07	3.24	3.96	6.07	0.27	0.27054	8	3.24
1384	0.27	661.25	369.89	2933.88	6.14	3.23	3.79	6.14	0.27	0.27035	8	3.23
1385	0.27	661.76	370.16	2909.07	6.07	3.23	3.79	6.07	0.27	0.27015	8	3.23
1386	0.27	662.27	370.43	2913.91	6.08	3.22	3.64	6.08	0.27	0.26996	8	3.22
1387	0.27	662.79	370.69	2880.89	5.98	3.22	3.57	5.98	0.27	0.26976	8	3.22
1388	0.27	663.30	370.96	2841.04	5.87	3.22	3.46	5.87	0.27	0.26957	7	3.22
1389	0.27	663.81	371.23	2793.94	5.74	3.22	3.33	5.74	0.27	0.26938	7	3.22
1390	0.27	664.32	371.50	2735.98	5.58	3.24	3.38	5.58	0.27	0.26918	7	3.24
1391	0.27	664.84	371.76	2759.99	5.64	3.23	3.34	5.64	0.27	0.26899	7	3.23
1392	0.27	665.35	372.03	2743.36	5.59	3.24	3.37	5.59	0.27	0.26879	7	3.24
1393	0.27	665.86	372.30	2767.23	5.64	3.23	3.33	5.64	0.27	0.2686	7	3.23
1394	0.27	666.37	372.57	2743.99	5.58	3.24	3.37	5.58	0.27	0.26841	7	3.24

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
1												
2												
3												
4												
5												
6												
7												
Clean Sand												
8												
9	25	26	27	28	29	30	31		32	33	34	35
10	C _{Qrecal}	C _{Qfinal}	q _{c1Nfinal}	I _{c final}	K _c	q _{c1Ncs}	(N1) ₆₀	Equiv.	r _d	CSRE	MSF	K _{test}
11												
12												
13	4.66	2	194	1.21	1.0	193.6	48.4	99.0	1.00	0.26	1.19	1.14
14	4.42	2	682	0.69	1.0	681.5	170.4	99.0	1.00	0.26	1.19	1.14
15	4.21	2	631	0.71	1.0	630.7	157.7	99.0	1.00	0.26	1.19	1.14
16	4.03	2	530	0.77	1.0	529.8	132.4	99.0	1.00	0.26	1.19	1.14
17	3.87	2	462	0.84	1.0	462.2	115.5	99.0	1.00	0.26	1.19	1.14
18	3.73	2	404	0.88	1.0	403.8	101.0	99.0	1.00	0.26	1.19	1.14
19	3.61	2	375	0.93	1.0	375.5	93.9	99.0	1.00	0.26	1.19	1.14
20	3.49	2	324	0.99	1.0	323.9	81.0	99.0	1.00	0.26	1.19	1.13
21	3.39	2	274	1.14	1.0	274.2	68.5	99.0	1.00	0.26	1.19	1.13
22	3.29	2	223	1.21	1.0	222.9	55.7	99.0	1.00	0.26	1.19	1.13
23	3.20	2	174	1.39	1.0	173.9	43.5	99.0	1.00	0.26	1.19	1.13
24	3.12	2	135	1.55	1.0	135.0	33.8	99.0	1.00	0.26	1.19	1.13
25	3.05	2	99	1.77	1.1	107.1	24.7	99.0	1.00	0.26	1.19	1.13
26	2.98	2	72	1.99	1.3	92.4	17.9	99.0	1.00	0.26	1.19	1.13
27	2.91	2	52	2.22	1.7	88.5	12.9	99.0	1.00	0.26	1.19	1.13
28	2.85	2	39	2.39	2.3	89.7	9.9	99.0	1.00	0.26	1.19	1.13
29	2.79	2	29	2.55	3.0	87.9	7.3	99.0	1.00	0.26	1.19	1.13
30	4.10	2	22	2.69	3.9	84.4	5.4	99.0	1.00	0.26	1.19	1.13
31	3.99	2	20	2.64	3.6	71.4	4.9	99.0	1.00	0.26	1.19	1.13
32	3.89	2	18	2.67	3.8	66.5	4.4	99.0	1.00	0.26	1.19	1.12
33	2.59	2	19	2.59	3.2	63.0	4.9	99.0	1.00	0.26	1.19	1.12
34	2.55	2	27	2.40	2.3	62.0	6.7	99.0	1.00	0.26	1.19	1.12
35	2.51	2	34	2.25	1.8	61.7	8.6	99.0	1.00	0.26	1.19	1.12
36	2.47	2	28	2.37	2.2	61.6	7.0	99.0	1.00	0.26	1.19	1.12
37	2.44	2	28	2.39	2.3	62.9	6.9	99.0	1.00	0.26	1.19	1.12
38	2.40	2	29	2.38	2.2	64.2	7.2	99.0	1.00	0.26	1.19	1.12
39	2.37	2	27	2.42	2.4	65.5	6.8	99.0	1.00	0.26	1.19	1.12
40	2.34	2	25	2.50	2.8	70.2	6.3	99.0	1.00	0.26	1.19	1.12
41	2.32	2	26	2.50	2.8	72.2	6.5	99.0	0.99	0.26	1.19	1.12
42	3.19	2	18	2.71	4.1	74.9	4.6	99.0	0.99	0.26	1.19	1.12
43	3.13	2	17	2.77	4.6	76.2	4.2	99.0	0.99	0.26	1.19	1.12
44	3.09	2	16	2.76	4.5	69.3	3.9	99.0	0.99	0.26	1.19	1.12
45	3.04	2	14	2.71	4.0	56.7	3.5	99.0	0.99	0.26	1.19	1.11
46	2.99	2	14	2.70	4.0	56.0	3.5	99.0	0.99	0.26	1.19	1.11
47	2.95	2	15	2.68	3.9	59.1	3.8	99.0	0.99	0.26	1.19	1.11
48	2.90	2	16	2.67	3.8	59.2	3.9	99.0	0.99	0.26	1.19	1.11
49	2.86	2	18	2.60	3.4	60.6	4.5	99.0	0.99	0.26	1.19	1.11
50	2.82	2	15	2.72	4.1	63.4	3.8	99.0	0.99	0.26	1.19	1.11
51	2.78	2	13	2.83	5.1	67.4	3.3	99.0	0.99	0.26	1.19	1.11
52	2.75	2	13	2.92	5.9	77.6	3.3	99.0	0.99	0.26	1.19	1.11
53	2.71	2	14	2.86	5.4	76.5	3.6	99.0	0.99	0.26	1.19	1.11
54	2.68	2	13	2.89	5.6	70.9	3.2	99.0	0.99	0.26	1.19	1.11
55	2.64	2	13	2.83	5.1	65.4	3.2	99.0	0.99	0.26	1.19	1.11
56	2.61	2	17	2.65	3.6	61.7	4.2	99.0	0.99	0.26	1.19	1.11
57	1.97	1.9668	27	2.37	2.2	59.9	6.8	99.0	0.99	0.26	1.19	1.11
58	1.95	1.9499	31	2.26	1.8	56.3	7.7	99.0	0.99	0.26	1.19	1.11
59	1.93	1.9335	37	2.21	1.7	63.1	9.3	99.0	0.99	0.26	1.19	1.10
60	1.92	1.9174	38	2.21	1.7	64.5	9.6	99.0	0.99	0.26	1.19	1.10
61	1.90	1.9017	37	2.19	1.6	60.3	9.1	99.0	0.99	0.26	1.19	1.10
62	1.89	1.8865	33	2.28	1.9	61.2	8.2	99.0	0.99	0.26	1.19	1.10
63	1.87	1.8715	31	2.29	1.9	58.4	7.7	99.0	0.99	0.26	1.19	1.10
64	1.86	1.857	29	2.33	2.0	59.0	7.2	99.0	0.99	0.26	1.19	1.10
65	1.84	1.8427	25	2.39	2.3	57.8	6.3	99.0	0.99	0.26	1.19	1.10

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
66	1.83	1.8288	22	2.48	2.7	60.0	5.6	99.0	0.99	0.26	1.19	1.10
67	1.82	1.8152	20	2.57	3.1	62.2	5.0	99.0	0.99	0.26	1.19	1.10
68	2.28	2	19	2.66	3.7	68.9	4.6	99.0	0.99	0.26	1.19	1.10
69	2.26	2	17	2.73	4.3	71.2	4.2	99.0	0.99	0.26	1.19	1.10
70	2.23	2	14	2.84	5.2	71.2	3.4	99.0	0.99	0.26	1.19	1.10
71	2.21	2	12	2.66	3.7	44.4	3.0	99.0	0.99	0.26	1.19	1.10
72	2.19	2	13	2.69	4.0	49.7	3.1	99.0	0.99	0.26	1.19	1.10
73	2.17	2	12	2.73	4.2	52.2	3.1	99.0	0.99	0.26	1.19	1.10
74	2.15	2	13	2.73	4.2	56.3	3.4	99.0	0.99	0.26	1.19	1.09
75	2.13	2	13	2.82	4.9	62.2	3.1	99.0	0.99	0.26	1.19	1.09
76	2.11	2	13	2.83	5.0	65.2	3.2	99.0	0.99	0.26	1.19	1.09
77	2.09	2	15	2.78	4.6	67.3	3.6	99.0	0.99	0.26	1.19	1.09
78	2.07	2	16	2.75	4.4	68.2	3.9	99.0	0.99	0.26	1.19	1.09
79	2.05	2	15	2.78	4.6	70.1	3.8	99.0	0.99	0.26	1.19	1.09
80	2.04	2	15	2.79	4.7	70.1	3.8	99.0	0.99	0.26	1.19	1.09
81	2.02	2	14	2.81	4.8	68.6	3.5	99.0	0.99	0.26	1.19	1.09
82	2.00	2	14	2.82	5.0	70.7	3.5	99.0	0.99	0.26	1.19	1.09
83	1.99	1.9851	14	2.84	5.1	70.3	3.4	99.0	0.99	0.26	1.19	1.09
84	1.97	1.9686	14	2.84	5.2	70.1	3.4	99.0	0.99	0.26	1.19	1.09
85	1.95	1.9524	14	2.84	5.2	71.8	3.5	99.0	0.99	0.26	1.19	1.09
86	1.94	1.9366	16	2.77	4.5	71.1	3.9	99.0	0.99	0.26	1.19	1.09
87	1.92	1.9211	16	2.78	4.6	72.8	3.9	99.0	0.99	0.26	1.19	1.09
88	1.91	1.9058	18	2.70	4.0	71.3	4.4	99.0	0.99	0.26	1.19	1.08
89	1.89	1.8909	18	2.72	4.2	73.4	4.4	99.0	0.99	0.26	1.19	1.08
90	1.88	1.8762	17	2.74	4.3	73.9	4.3	99.0	0.99	0.26	1.19	1.08
91	1.86	1.8618	17	2.72	4.1	69.2	4.2	99.0	0.99	0.26	1.19	1.08
92	1.85	1.8477	18	2.70	4.0	72.9	4.6	99.0	0.99	0.26	1.19	1.08
93	1.83	1.8338	21	2.69	3.9	84.0	5.3	99.0	0.99	0.26	1.19	1.08
94	1.82	1.8202	24	2.60	3.3	81.8	6.1	99.0	0.98	0.26	1.19	1.08
95	1.81	1.8069	25	2.62	3.4	84.8	6.2	99.0	0.98	0.26	1.19	1.08
96	1.79	1.7937	21	2.71	4.1	84.0	5.2	99.0	0.98	0.26	1.19	1.08
97	1.78	1.7808	20	2.74	4.3	86.2	5.0	99.0	0.98	0.26	1.19	1.08
98	1.77	1.7681	19	2.76	4.4	85.4	4.8	99.0	0.98	0.26	1.19	1.08
99	1.76	1.7557	22	2.66	3.7	81.9	5.5	99.0	0.98	0.26	1.19	1.08
100	1.74	1.7434	20	2.70	4.0	80.4	5.0	99.0	0.98	0.26	1.19	1.08
101	1.73	1.7314	20	2.68	3.9	78.6	5.1	99.0	0.98	0.26	1.19	1.08
102	1.72	1.7195	20	2.67	3.8	76.7	5.0	99.0	0.98	0.26	1.19	1.08
103	1.71	1.7079	20	2.68	3.8	75.6	4.9	99.0	0.98	0.26	1.19	1.07
104	1.70	1.6964	20	2.66	3.7	75.4	5.0	99.0	0.98	0.26	1.19	1.07
105	1.69	1.6851	21	2.63	3.5	74.9	5.3	99.0	0.98	0.26	1.19	1.07
106	1.67	1.674	20	2.66	3.7	75.3	5.1	99.0	0.98	0.26	1.19	1.07
107	1.66	1.6631	20	2.67	3.8	75.1	5.0	99.0	0.98	0.26	1.19	1.07
108	1.65	1.6524	19	2.68	3.9	73.9	4.8	99.0	0.98	0.26	1.19	1.07
109	1.64	1.6418	19	2.66	3.7	72.4	4.9	99.0	0.98	0.26	1.19	1.07
110	1.63	1.6314	18	2.69	3.9	69.2	4.4	99.0	0.98	0.26	1.19	1.07
111	1.62	1.6211	17	2.71	4.1	67.4	4.2	99.0	0.98	0.26	1.19	1.07
112	1.61	1.6111	15	2.78	4.7	71.4	3.8	99.0	0.98	0.26	1.19	1.07
113	1.60	1.601	14	2.88	5.5	77.6	3.5	99.0	0.98	0.26	1.19	1.07
114	1.59	1.5912	13	2.94	6.1	79.0	3.2	99.0	0.98	0.26	1.19	1.07
115	1.58	1.5816	14	2.91	5.8	78.2	3.4	99.0	0.98	0.26	1.19	1.07
116	1.57	1.5721	18	2.73	4.2	74.5	4.4	99.0	0.98	0.26	1.19	1.07
117	1.56	1.5627	16	2.78	4.6	73.6	4.0	99.0	0.98	0.25	1.19	1.06
118	1.55	1.5534	14	2.81	4.8	68.3	3.5	99.0	0.98	0.25	1.19	1.06
119	1.54	1.5443	14	2.78	4.6	64.9	3.5	99.0	0.98	0.25	1.19	1.06
120	1.54	1.5353	15	2.71	4.1	59.2	3.6	99.0	0.98	0.25	1.19	1.06
121	1.53	1.5265	15	2.67	3.8	54.6	3.6	99.0	0.98	0.25	1.19	1.06
122	1.52	1.5177	14	2.64	3.6	52.1	3.6	99.0	0.98	0.25	1.19	1.06
123	1.51	1.5091	14	2.66	3.7	53.7	3.6	99.0	0.98	0.25	1.19	1.06
124	1.50	1.5006	13	2.77	4.5	58.0	3.2	99.0	0.98	0.25	1.19	1.06
125	1.49	1.4922	12	2.87	5.4	63.0	2.9	99.0	0.98	0.25	1.19	1.06
126	1.48	1.484	11	2.91	5.8	63.9	2.8	99.0	0.98	0.25	1.19	1.06
127	1.48	1.4758	11	2.93	6.0	64.2	2.7	99.0	0.98	0.25	1.19	1.06
128	1.47	1.4677	11	2.93	6.0	64.0	2.7	99.0	0.98	0.25	1.19	1.06
129	1.46	1.4598	12	2.86	5.3	62.6	2.9	99.0	0.98	0.25	1.19	1.06
130	1.45	1.452	14	2.73	4.3	57.7	3.4	99.0	0.98	0.25	1.19	1.06
131	1.44	1.4442	14	2.70	4.0	56.5	3.5	99.0	0.98	0.25	1.19	1.06
132	1.44	1.4366	12	2.74	4.3	51.7	3.0	99.0	0.98	0.25	1.19	1.05
133	1.43	1.429	10	2.84	5.1	53.4	2.6	99.0	0.98	0.25	1.19	1.05
134	1.42	1.4216	10	2.86	5.3	50.9	2.4	99.0	0.98	0.25	1.19	1.05
135	1.41	1.4142	9	2.88	5.5	51.6	2.3	99.0	0.98	0.25	1.19	1.05

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
136	1.41	1.407	8	2.92	5.9	49.4	2.1	99.0	0.98	0.25	1.19	1.05
137	1.40	1.3998	8	2.99	6.6	53.7	2.0	99.0	0.98	0.25	1.19	1.05
138	1.39	1.3927	8	3.06	7.5	58.6	2.0	99.0	0.98	0.25	1.19	1.05
139	1.39	1.3857	7	3.10	8.0	58.7	1.8	99.0	0.98	0.25	1.19	1.05
140	1.38	1.3788	7	3.16	8.7	57.9	1.7	99.0	0.98	0.25	1.19	1.05
141	1.37	1.372	6	3.17	8.8	57.0	1.6	99.0	0.98	0.25	1.19	1.05
142	1.37	1.3652	6	3.18	9.0	56.2	1.6	99.0	0.98	0.25	1.19	1.05
143	1.36	1.3585	5	3.23	9.7	53.1	1.4	99.0	0.98	0.25	1.19	1.05
144	1.35	1.352	6	3.15	8.6	49.1	1.4	99.0	0.98	0.25	1.19	1.05
145	1.35	1.3454	6	3.10	7.9	46.1	1.5	99.0	0.98	0.25	1.19	1.05
146	1.34	1.339	6	3.05	7.3	45.2	1.6	99.0	0.98	0.25	1.19	1.05
147	1.33	1.3326	6	3.06	7.5	44.5	1.5	99.0	0.98	0.25	1.19	1.05
148	1.33	1.3263	6	3.10	8.0	43.8	1.4	99.0	0.98	0.25	1.19	1.04
149	1.32	1.3201	6	3.05	7.3	42.6	1.5	99.0	0.98	0.25	1.19	1.04
150	1.31	1.314	5	3.07	7.6	40.9	1.3	99.0	0.97	0.25	1.19	1.04
151	1.31	1.3079	5	2.96	6.3	34.3	1.4	99.0	0.97	0.25	1.19	1.04
152	1.30	1.3019	6	3.00	6.7	37.2	1.4	99.0	0.97	0.25	1.19	1.04
153	1.30	1.2959	6	3.00	6.7	38.7	1.4	99.0	0.97	0.25	1.19	1.04
154	1.29	1.2901	6	3.02	6.9	38.8	1.4	99.0	0.97	0.25	1.19	1.04
155	1.28	1.2842	6	3.01	6.8	40.2	1.5	99.0	0.97	0.25	1.19	1.04
156	1.28	1.2785	6	3.07	7.6	42.5	1.4	99.0	0.97	0.25	1.19	1.04
157	1.27	1.2728	6	3.07	7.5	42.7	1.4	99.0	0.97	0.25	1.19	1.04
158	1.27	1.2672	5	3.15	8.5	43.6	1.3	99.0	0.97	0.25	1.19	1.04
159	1.26	1.2616	5	3.16	8.7	43.7	1.3	99.0	0.97	0.25	1.19	1.04
160	1.26	1.2561	5	3.12	8.2	41.7	1.3	99.0	0.97	0.25	1.19	1.04
161	1.25	1.2506	5	3.09	7.8	39.8	1.3	99.0	0.97	0.25	1.19	1.04
162	1.25	1.2453	6	3.03	7.1	39.3	1.4	99.0	0.97	0.25	1.19	1.04
163	1.24	1.2399	6	3.01	6.8	39.7	1.5	99.0	0.97	0.25	1.19	1.03
164	1.23	1.2346	5	3.06	7.4	40.2	1.4	99.0	0.97	0.25	1.19	1.03
165	1.23	1.2294	5	3.09	7.8	38.7	1.2	99.0	0.97	0.25	1.19	1.03
166	1.22	1.2242	5	3.08	7.7	40.3	1.3	99.0	0.97	0.25	1.19	1.03
167	1.22	1.2191	6	3.07	7.5	43.1	1.4	99.0	0.97	0.25	1.19	1.03
168	1.21	1.214	6	3.04	7.3	44.6	1.5	99.0	0.97	0.25	1.19	1.03
169	1.21	1.209	6	3.06	7.4	45.5	1.5	99.0	0.97	0.25	1.19	1.03
170	1.20	1.204	6	3.08	7.6	47.7	1.6	99.0	0.97	0.25	1.19	1.03
171	1.20	1.1991	7	3.08	7.7	52.0	1.7	99.0	0.97	0.25	1.19	1.03
172	1.19	1.1943	7	3.10	7.9	55.4	1.7	99.0	0.97	0.25	1.19	1.03
173	1.19	1.1894	7	3.15	8.5	57.7	1.7	99.0	0.97	0.25	1.19	1.03
174	1.18	1.1847	6	3.21	9.5	60.1	1.6	99.0	0.97	0.25	1.19	1.03
175	1.18	1.1799	6	3.31	10.9	61.2	1.4	99.0	0.97	0.25	1.19	1.03
176	1.18	1.1752	6	3.29	10.6	62.4	1.5	99.0	0.97	0.25	1.19	1.03
177	1.17	1.1706	6	3.33	11.1	62.0	1.4	99.0	0.97	0.25	1.19	1.03
178	1.17	1.166	5	3.34	11.3	60.2	1.3	99.0	0.97	0.25	1.19	1.02
179	1.16	1.1614	5	3.31	10.8	58.4	1.3	99.0	0.97	0.25	1.19	1.02
180	1.16	1.1569	5	3.30	10.7	57.4	1.3	99.0	0.97	0.25	1.19	1.02
181	1.15	1.1525	5	3.32	11.0	57.4	1.3	99.0	0.97	0.25	1.19	1.02
182	1.15	1.148	5	3.30	10.8	56.6	1.3	99.0	0.97	0.25	1.19	1.02
183	1.14	1.1437	6	3.27	10.2	56.5	1.4	99.0	0.97	0.25	1.19	1.02
184	1.14	1.1393	6	3.22	9.5	56.0	1.5	99.0	0.97	0.25	1.19	1.02
185	1.14	1.135	6	3.17	8.9	54.9	1.5	99.0	0.97	0.25	1.19	1.02
186	1.13	1.1308	6	3.18	8.9	55.3	1.6	99.0	0.97	0.25	1.19	1.02
187	1.13	1.1265	7	3.15	8.6	56.6	1.7	99.0	0.97	0.25	1.19	1.02
188	1.12	1.1223	6	3.19	9.1	56.0	1.5	99.0	0.97	0.25	1.19	1.02
189	1.12	1.1182	6	3.18	9.0	55.2	1.5	99.0	0.97	0.25	1.19	1.02
190	1.11	1.1141	6	3.18	9.0	52.4	1.5	99.0	0.97	0.25	1.19	1.02
191	1.11	1.11	6	3.12	8.1	47.9	1.5	99.0	0.97	0.25	1.19	1.02
192	1.11	1.106	6	3.13	8.3	50.0	1.5	99.0	0.97	0.25	1.19	1.02
193	1.10	1.1019	6	3.18	9.0	51.6	1.4	99.0	0.97	0.25	1.19	1.02
194	1.10	1.098	5	3.21	9.4	50.5	1.3	99.0	0.97	0.25	1.19	1.01
195	1.09	1.094	8	2.95	6.2	49.2	2.0	99.0	0.97	0.25	1.19	1.01
196	1.09	1.0901	7	3.01	6.9	49.4	1.8	99.0	0.97	0.25	1.19	1.01
197	1.09	1.0884	7	3.05	7.4	51.4	1.7	99.0	0.97	0.25	1.19	1.01
198	1.09	1.0866	6	3.10	7.9	51.2	1.6	99.0	0.97	0.25	1.19	1.01
199	1.08	1.0849	6	3.09	7.8	50.4	1.6	99.0	0.97	0.25	1.19	1.01
200	1.08	1.0831	6	3.08	7.6	49.0	1.6	99.0	0.97	0.25	1.19	1.01
201	1.08	1.0814	7	3.06	7.5	49.8	1.7	99.0	0.97	0.25	1.19	1.01
202	1.08	1.0797	7	3.08	7.6	51.3	1.7	99.0	0.97	0.26	1.19	1.01
203	1.08	1.0779	7	3.07	7.5	52.9	1.8	99.0	0.97	0.26	1.19	1.01
204	1.08	1.0762	7	3.01	6.9	51.5	1.9	99.0	0.97	0.26	1.19	1.01
205	1.07	1.0743	8	2.99	6.6	53.6	2.0	99.0	0.97	0.26	1.19	1.01

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
206	1.07	1.0724	9	2.98	6.5	56.0	2.1	99.0	0.97	0.26	1.19	1.01
207	1.07	1.0705	10	2.92	5.9	59.5	2.5	99.0	0.96	0.26	1.19	1.01
208	1.07	1.0686	12	2.73	4.3	53.0	3.1	99.0	0.96	0.26	1.19	1.01
209	1.07	1.0667	15	2.61	3.4	50.8	3.7	99.0	0.96	0.26	1.19	1.01
210	1.06	1.0648	15	2.63	3.5	54.0	3.9	99.0	0.96	0.26	1.19	1.00
211	1.06	1.063	15	2.69	3.9	60.0	3.8	99.0	0.96	0.26	1.19	1.00
212	1.06	1.0611	14	2.80	4.8	65.0	3.4	99.0	0.96	0.26	1.19	1.00
213	1.06	1.0593	12	2.89	5.6	67.3	3.0	99.0	0.96	0.26	1.19	1.00
214	1.06	1.0574	12	2.84	5.1	61.1	3.0	99.0	0.96	0.26	1.19	1.00
215	1.06	1.0556	16	2.61	3.4	55.4	4.1	99.0	0.96	0.26	1.19	1.00
216	1.04	1.0381	24	2.35	2.1	51.5	6.1	6.1	0.96	0.26	1.19	1.00
217	1.04	1.0368	27	2.31	2.0	52.8	6.7	6.7	0.96	0.26	1.19	1.00
218	1.04	1.0355	28	2.29	1.9	53.3	6.9	6.9	0.96	0.26	1.19	1.00
219	1.03	1.0343	28	2.32	2.0	55.7	7.0	7.0	0.96	0.27	1.19	1.00
220	1.03	1.033	30	2.30	2.0	59.3	7.6	7.6	0.96	0.27	1.19	1.00
221	1.03	1.0317	33	2.25	1.8	60.0	8.3	8.3	0.96	0.27	1.19	1.00
222	1.03	1.0305	34	2.19	1.6	56.4	8.6	8.6	0.96	0.27	1.19	1.00
223	1.03	1.0292	32	2.11	1.5	46.9	8.0	8.0	0.96	0.27	1.19	1.00
224	1.03	1.028	27	2.23	1.7	47.5	6.9	6.9	0.96	0.27	1.19	1.00
225	1.03	1.0267	21	2.45	2.5	52.3	5.2	5.2	0.96	0.27	1.19	0.99
226	1.04	1.0359	15	2.72	4.1	63.7	3.8	99.0	0.96	0.27	1.19	0.99
227	1.03	1.0341	10	2.93	6.0	61.3	2.5	99.0	0.96	0.27	1.19	0.99
228	1.03	1.0324	9	3.00	6.7	61.2	2.3	99.0	0.96	0.27	1.19	0.99
229	1.03	1.0306	8	3.05	7.4	57.8	2.0	99.0	0.96	0.27	1.19	0.99
230	1.03	1.0289	7	3.07	7.5	51.9	1.7	99.0	0.96	0.27	1.19	0.99
231	1.03	1.0272	7	3.08	7.7	50.5	1.6	99.0	0.96	0.27	1.19	0.99
232	1.03	1.0255	7	3.10	7.9	51.9	1.6	99.0	0.96	0.27	1.19	0.99
233	1.02	1.0238	7	3.02	7.0	51.1	1.8	99.0	0.96	0.27	1.19	0.99
234	1.02	1.0221	10	2.82	5.0	49.1	2.5	99.0	0.96	0.27	1.19	0.99
235	1.01	1.0145	17	2.50	2.8	45.8	4.1	4.1	0.96	0.27	1.19	0.99
236	1.02	1.0187	13	2.63	3.5	47.3	3.4	99.0	0.96	0.27	1.19	0.99
237	1.02	1.017	10	2.81	4.9	48.0	2.5	99.0	0.96	0.28	1.19	0.99
238	1.02	1.0153	7	2.98	6.5	46.5	1.8	99.0	0.96	0.28	1.19	0.99
239	1.01	1.0137	6	3.02	6.9	44.3	1.6	99.0	0.96	0.28	1.19	0.99
240	1.01	1.012	6	3.00	6.7	41.0	1.5	99.0	0.96	0.28	1.19	0.99
241	1.01	1.0104	7	2.91	5.8	39.4	1.7	99.0	0.96	0.28	1.19	0.98
242	1.01	1.0087	8	2.78	4.6	36.4	2.0	99.0	0.96	0.28	1.19	0.98
243	1.01	1.0071	9	2.70	4.0	36.3	2.3	99.0	0.96	0.28	1.19	0.98
244	1.01	1.0054	10	2.71	4.0	41.0	2.5	99.0	0.96	0.28	1.19	0.98
245	1.00	1.0038	10	2.70	4.0	41.5	2.6	99.0	0.96	0.28	1.19	0.98
246	1.00	1.0022	11	2.75	4.4	46.8	2.7	99.0	0.96	0.28	1.19	0.98
247	1.00	1.0006	11	2.80	4.8	50.5	2.7	99.0	0.96	0.28	1.19	0.98
248	1.00	0.999	9	2.92	5.9	52.5	2.2	99.0	0.96	0.28	1.19	0.98
249	1.00	0.9974	8	3.02	7.0	55.8	2.0	99.0	0.96	0.28	1.19	0.98
250	1.00	0.9958	7	3.14	8.4	57.4	1.7	99.0	0.96	0.28	1.19	0.98
251	0.99	0.9942	7	3.17	8.9	58.8	1.7	99.0	0.96	0.28	1.19	0.98
252	0.99	0.9926	6	3.18	9.0	55.8	1.5	99.0	0.96	0.28	1.19	0.98
253	0.99	0.991	8	3.05	7.3	56.5	1.9	99.0	0.96	0.28	1.19	0.98
254	0.99	0.9895	13	2.74	4.3	57.8	3.4	99.0	0.96	0.28	1.19	0.98
255	0.99	0.9913	19	2.48	2.6	50.5	4.8	4.8	0.96	0.28	1.19	0.98
256	0.99	0.9902	21	2.37	2.2	44.9	5.1	5.1	0.96	0.28	1.19	0.98
257	0.99	0.9891	18	2.48	2.7	47.7	4.5	4.5	0.95	0.28	1.19	0.97
258	0.99	0.988	18	2.49	2.7	47.5	4.4	4.4	0.95	0.29	1.19	0.97
259	0.99	0.9869	21	2.43	2.4	50.7	5.2	5.2	0.95	0.29	1.19	0.97
260	0.99	0.9858	23	2.40	2.3	53.8	5.9	5.9	0.95	0.29	1.19	0.97
261	0.98	0.9847	25	2.33	2.0	51.8	6.3	6.3	0.95	0.29	1.19	0.97
262	0.98	0.9836	27	2.27	1.8	49.3	6.7	6.7	0.95	0.29	1.19	0.97
263	0.98	0.9825	27	2.26	1.8	48.6	6.7	6.7	0.95	0.29	1.19	0.97
264	0.98	0.9814	22	2.35	2.1	47.8	5.6	5.6	0.95	0.29	1.19	0.97
265	0.98	0.9803	18	2.48	2.7	48.2	4.5	4.5	0.95	0.29	1.19	0.97
266	0.98	0.9793	15	2.53	2.9	44.9	3.8	3.8	0.95	0.29	1.19	0.97
267	0.97	0.9696	11	2.74	4.3	48.7	2.9	99.0	0.95	0.29	1.19	0.97
268	0.97	0.9681	9	2.94	6.1	51.9	2.1	99.0	0.95	0.29	1.19	0.97
269	0.97	0.9666	7	3.16	8.8	58.4	1.7	99.0	0.95	0.29	1.19	0.97
270	0.97	0.9651	7	3.16	8.7	58.2	1.7	99.0	0.95	0.29	1.19	0.97
271	0.96	0.9637	8	3.08	7.7	61.7	2.0	99.0	0.95	0.29	1.19	0.97
272	0.97	0.9728	18	2.54	3.0	52.2	4.4	4.4	0.95	0.29	1.19	0.97
273	0.97	0.9718	28	2.19	1.6	46.6	7.1	7.1	0.95	0.29	1.19	0.96
274	0.97	0.9707	23	2.26	1.8	43.1	5.9	5.9	0.95	0.29	1.19	0.96
275	0.97	0.9697	18	2.43	2.5	43.6	4.5	4.5	0.95	0.29	1.19	0.96

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
276	0.96	0.9564	13	2.64	3.6	45.4	3.2	99.0	0.95	0.29	1.19	0.96
277	0.95	0.9549	11	2.73	4.2	44.8	2.6	99.0	0.95	0.29	1.19	0.96
278	0.95	0.9535	10	2.79	4.7	46.3	2.4	99.0	0.95	0.29	1.19	0.96
279	0.95	0.9521	8	2.90	5.7	46.5	2.0	99.0	0.95	0.29	1.19	0.96
280	0.95	0.9506	8	2.99	6.7	50.7	1.9	99.0	0.95	0.29	1.19	0.96
281	0.95	0.9492	8	2.97	6.4	52.4	2.0	99.0	0.95	0.29	1.19	0.96
282	0.95	0.9478	9	2.87	5.4	49.9	2.3	99.0	0.95	0.29	1.19	0.96
283	0.95	0.9464	10	2.74	4.3	44.0	2.6	99.0	0.95	0.30	1.19	0.96
284	0.94	0.945	10	2.73	4.3	43.2	2.5	99.0	0.95	0.30	1.19	0.96
285	0.94	0.9436	9	2.75	4.4	39.9	2.3	99.0	0.95	0.30	1.19	0.96
286	0.94	0.9422	8	2.79	4.7	38.7	2.1	99.0	0.95	0.30	1.19	0.96
287	0.94	0.9408	7	2.92	5.9	40.2	1.7	99.0	0.95	0.30	1.19	0.96
288	0.94	0.9394	6	3.00	6.7	40.9	1.5	99.0	0.95	0.30	1.19	0.96
289	0.94	0.938	6	3.06	7.4	43.4	1.5	99.0	0.95	0.30	1.19	0.96
290	0.94	0.9367	6	3.11	8.1	47.5	1.5	99.0	0.95	0.30	1.19	0.95
291	0.94	0.9353	7	3.04	7.2	52.8	1.8	99.0	0.95	0.30	1.19	0.95
292	0.93	0.9339	8	2.95	6.2	52.7	2.1	99.0	0.95	0.30	1.19	0.95
293	0.93	0.9326	9	2.97	6.4	60.1	2.3	99.0	0.95	0.30	1.19	0.95
294	0.93	0.9312	18	2.61	3.4	61.5	4.5	99.0	0.95	0.30	1.19	0.95
295	0.95	0.9494	38	2.19	1.6	61.5	9.4	9.4	0.95	0.30	1.19	0.95
296	0.95	0.9484	32	2.23	1.7	56.3	8.0	8.0	0.95	0.30	1.19	0.95
297	0.95	0.9474	22	2.38	2.2	49.3	5.6	5.6	0.95	0.30	1.19	0.95
298	0.93	0.9259	16	2.60	3.3	53.1	4.0	99.0	0.94	0.30	1.19	0.95
299	0.92	0.9245	12	2.66	3.7	45.6	3.0	99.0	0.94	0.30	1.19	0.95
300	0.92	0.9232	11	2.68	3.8	42.3	2.8	99.0	0.94	0.30	1.19	0.95
301	0.92	0.9219	9	2.87	5.4	48.2	2.2	99.0	0.94	0.30	1.19	0.95
302	0.92	0.9206	8	2.98	6.5	50.0	1.9	99.0	0.94	0.30	1.19	0.95
303	0.92	0.9192	8	3.04	7.2	56.4	1.9	99.0	0.94	0.30	1.19	0.95
304	0.92	0.9179	9	3.03	7.1	64.0	2.2	99.0	0.94	0.30	1.19	0.95
305	0.92	0.9166	15	2.70	4.0	60.4	3.8	99.0	0.94	0.30	1.19	0.95
306	0.94	0.9388	23	2.52	2.9	67.5	5.8	5.8	0.94	0.30	1.19	0.94
307	0.94	0.9378	25	2.48	2.7	66.4	6.2	6.2	0.94	0.30	1.19	0.94
308	0.94	0.9369	30	2.34	2.1	61.4	7.4	7.4	0.94	0.30	1.19	0.94
309	0.94	0.9359	41	2.09	1.4	58.6	10.2	10.2	0.94	0.30	1.19	0.94
310	0.93	0.935	41	2.04	1.4	56.0	10.3	10.3	0.94	0.30	1.19	0.94
311	0.93	0.934	29	2.32	2.0	57.8	7.2	7.2	0.94	0.30	1.19	0.94
312	0.93	0.9331	21	2.47	2.6	54.3	5.2	5.2	0.94	0.31	1.19	0.94
313	0.91	0.9064	15	2.66	3.7	55.7	3.7	99.0	0.94	0.31	1.19	0.94
314	0.91	0.9051	11	2.87	5.4	58.5	2.7	99.0	0.94	0.31	1.19	0.94
315	0.90	0.9038	10	2.90	5.7	58.1	2.6	99.0	0.94	0.31	1.19	0.94
316	0.90	0.9026	10	2.93	6.0	57.8	2.4	99.0	0.94	0.31	1.19	0.94
317	0.90	0.9013	10	2.88	5.5	57.2	2.6	99.0	0.94	0.31	1.19	0.94
318	0.90	0.9001	14	2.72	4.1	59.4	3.6	99.0	0.94	0.31	1.19	0.94
319	0.93	0.9266	21	2.52	2.8	59.1	5.2	5.2	0.94	0.31	1.19	0.94
320	0.93	0.9257	24	2.39	2.3	55.5	6.1	6.1	0.94	0.31	1.19	0.94
321	0.92	0.9248	33	2.18	1.6	53.8	8.3	8.3	0.94	0.31	1.19	0.94
322	0.92	0.9239	38	2.08	1.4	53.8	9.4	9.4	0.94	0.31	1.19	0.94
323	0.92	0.923	32	2.18	1.6	52.5	8.1	8.1	0.94	0.31	1.19	0.93
324	0.92	0.9221	25	2.34	2.1	52.4	6.2	6.2	0.94	0.31	1.19	0.93
325	0.92	0.9212	20	2.51	2.8	55.4	4.9	4.9	0.94	0.31	1.19	0.93
326	0.89	0.8902	15	2.61	3.4	52.4	3.9	99.0	0.94	0.31	1.19	0.93
327	0.92	0.9194	17	2.46	2.6	44.0	4.3	4.3	0.94	0.31	1.19	0.93
328	0.92	0.9185	22	2.31	2.0	42.9	5.5	5.5	0.94	0.31	1.19	0.93
329	0.92	0.9176	21	2.34	2.1	43.2	5.2	5.2	0.94	0.31	1.19	0.93
330	0.92	0.9168	16	2.51	2.8	44.2	3.9	3.9	0.94	0.31	1.19	0.93
331	0.88	0.8842	11	2.74	4.3	47.7	2.8	99.0	0.93	0.31	1.19	0.93
332	0.88	0.883	9	2.86	5.3	47.8	2.3	99.0	0.93	0.31	1.19	0.93
333	0.88	0.8819	8	2.98	6.5	49.3	1.9	99.0	0.93	0.31	1.19	0.93
334	0.88	0.8807	7	3.06	7.4	49.3	1.7	99.0	0.93	0.31	1.19	0.93
335	0.88	0.8795	6	3.08	7.6	49.2	1.6	99.0	0.93	0.31	1.19	0.93
336	0.88	0.8783	7	3.06	7.5	50.5	1.7	99.0	0.93	0.31	1.19	0.93
337	0.88	0.8771	8	2.88	5.5	45.3	2.0	99.0	0.93	0.31	1.19	0.93
338	0.88	0.876	11	2.66	3.7	41.7	2.8	99.0	0.93	0.31	1.19	0.93
339	0.87	0.8748	12	2.66	3.7	44.6	3.0	99.0	0.93	0.31	1.19	0.93
340	0.87	0.8737	10	2.77	4.5	45.5	2.5	99.0	0.93	0.31	1.19	0.93
341	0.87	0.8725	8	2.93	6.0	48.7	2.0	99.0	0.93	0.31	1.19	0.92
342	0.87	0.8713	7	3.02	7.0	49.3	1.8	99.0	0.93	0.31	1.19	0.92
343	0.87	0.8702	6	3.12	8.2	52.1	1.6	99.0	0.93	0.31	1.19	0.92
344	0.87	0.869	7	3.09	7.9	52.5	1.7	99.0	0.93	0.31	1.19	0.92
345	0.87	0.8679	8	2.99	6.6	50.8	1.9	99.0	0.93	0.31	1.19	0.92

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
346	0.87	0.8668	10	2.88	5.5	52.7	2.4	99.0	0.93	0.31	1.19	0.92
347	0.87	0.8656	13	2.70	4.0	51.5	3.2	99.0	0.93	0.31	1.19	0.92
348	0.86	0.8645	16	2.55	3.0	48.3	4.0	4.0	0.93	0.31	1.19	0.92
349	0.90	0.9004	19	2.39	2.3	44.5	4.9	4.9	0.93	0.31	1.19	0.92
350	0.90	0.8995	21	2.27	1.9	39.8	5.4	5.4	0.93	0.32	1.19	0.92
351	0.90	0.8987	23	2.32	2.0	46.9	5.8	5.8	0.93	0.32	1.19	0.92
352	0.90	0.8979	22	2.37	2.2	49.3	5.6	5.6	0.93	0.32	1.19	0.92
353	0.86	0.8589	18	2.55	3.0	54.7	4.5	4.5	0.93	0.32	1.19	0.92
354	0.86	0.8578	14	2.75	4.4	60.5	3.5	99.0	0.93	0.32	1.19	0.92
355	0.86	0.8567	11	2.90	5.7	65.1	2.8	99.0	0.93	0.32	1.19	0.92
356	0.86	0.8556	10	2.97	6.5	61.4	2.4	99.0	0.93	0.32	1.19	0.92
357	0.85	0.8545	9	2.97	6.4	54.3	2.1	99.0	0.93	0.32	1.19	0.92
358	0.85	0.8534	8	2.89	5.6	47.5	2.1	99.0	0.93	0.32	1.19	0.92
359	0.85	0.8523	8	2.84	5.1	41.9	2.1	99.0	0.92	0.32	1.19	0.91
360	0.85	0.8512	8	2.85	5.2	39.1	1.9	99.0	0.92	0.32	1.19	0.91
361	0.85	0.8501	6	2.94	6.1	38.4	1.6	99.0	0.92	0.32	1.19	0.91
362	0.85	0.849	6	2.96	6.3	37.6	1.5	99.0	0.92	0.32	1.19	0.91
363	0.85	0.848	6	2.92	5.9	37.2	1.6	99.0	0.92	0.32	1.19	0.91
364	0.85	0.8469	6	2.89	5.6	35.4	1.6	99.0	0.92	0.32	1.19	0.91
365	0.85	0.8458	6	2.95	6.2	39.4	1.6	99.0	0.92	0.32	1.19	0.91
366	0.84	0.8447	7	2.99	6.7	45.3	1.7	99.0	0.92	0.32	1.19	0.91
367	0.84	0.8437	7	3.05	7.3	51.7	1.8	99.0	0.92	0.32	1.19	0.91
368	0.84	0.8426	8	3.08	7.7	58.4	1.9	99.0	0.92	0.32	1.19	0.91
369	0.84	0.8415	9	2.97	6.4	58.9	2.3	99.0	0.92	0.32	1.19	0.91
370	0.84	0.8405	11	2.88	5.5	59.9	2.7	99.0	0.92	0.32	1.19	0.91
371	0.84	0.8394	12	2.86	5.3	61.7	2.9	99.0	0.92	0.32	1.19	0.91
372	0.84	0.8384	11	2.87	5.4	59.4	2.8	99.0	0.92	0.32	1.19	0.91
373	0.84	0.8373	11	2.85	5.3	59.2	2.8	99.0	0.92	0.32	1.19	0.91
374	0.84	0.8363	13	2.81	4.9	64.2	3.3	99.0	0.92	0.32	1.19	0.91
375	0.84	0.8353	15	2.72	4.2	62.9	3.8	99.0	0.92	0.32	1.19	0.91
376	0.83	0.8342	16	2.66	3.7	59.5	4.0	99.0	0.92	0.32	1.19	0.91
377	0.83	0.8332	19	2.57	3.1	58.6	4.7	4.7	0.92	0.32	1.19	0.90
378	0.88	0.8777	22	2.45	2.5	56.4	5.6	5.6	0.92	0.32	1.19	0.90
379	0.88	0.8762	20	2.47	2.6	53.2	5.1	5.1	0.92	0.32	1.19	0.90
380	0.88	0.8755	18	2.47	2.6	46.3	4.4	4.4	0.92	0.32	1.19	0.90
381	0.83	0.8291	15	2.55	3.0	44.2	3.6	3.6	0.92	0.32	1.19	0.90
382	0.83	0.8281	12	2.63	3.5	43.4	3.1	99.0	0.92	0.32	1.19	0.90
383	0.83	0.827	10	2.77	4.5	45.6	2.5	99.0	0.91	0.32	1.19	0.90
384	0.83	0.826	9	2.86	5.3	47.8	2.2	99.0	0.91	0.32	1.19	0.90
385	0.83	0.825	9	2.91	5.7	49.5	2.2	99.0	0.91	0.32	1.19	0.90
386	0.82	0.824	9	2.89	5.6	48.8	2.2	99.0	0.91	0.32	1.19	0.90
387	0.82	0.823	9	2.81	4.9	45.1	2.3	99.0	0.91	0.32	1.19	0.90
388	0.82	0.822	10	2.83	5.1	49.5	2.4	99.0	0.91	0.32	1.19	0.90
389	0.82	0.821	10	2.92	5.9	55.8	2.4	99.0	0.91	0.32	1.19	0.90
390	0.82	0.82	9	2.96	6.3	58.3	2.3	99.0	0.91	0.32	1.19	0.90
391	0.82	0.819	10	2.75	4.4	45.6	2.6	99.0	0.91	0.32	1.19	0.90
392	0.87	0.8664	16	2.47	2.6	42.5	4.0	4.0	0.91	0.32	1.19	0.90
393	0.87	0.8656	23	2.24	1.8	41.5	5.8	5.8	0.91	0.32	1.19	0.90
394	0.86	0.8649	27	2.15	1.6	42.6	6.8	6.8	0.91	0.32	1.19	0.90
395	0.86	0.8641	31	2.10	1.5	44.6	7.7	7.7	0.91	0.32	1.19	0.89
396	0.86	0.8634	27	2.19	1.6	44.9	6.9	6.9	0.91	0.32	1.19	0.89
397	0.86	0.8626	23	2.39	2.3	53.7	5.9	5.9	0.91	0.32	1.19	0.89
398	0.81	0.8122	19	2.57	3.2	61.5	4.9	4.9	0.91	0.32	1.19	0.89
399	0.81	0.8112	19	2.57	3.1	58.9	4.7	4.7	0.91	0.32	1.19	0.89
400	0.86	0.8604	32	2.19	1.6	53.1	8.1	8.1	0.91	0.32	1.19	0.89
401	0.86	0.8597	56	1.85	1.1	63.9	13.9	13.9	0.91	0.32	1.19	0.89
402	0.86	0.859	65	1.83	1.1	72.9	16.1	16.1	0.91	0.32	1.19	0.89
403	0.86	0.8583	64	1.87	1.2	74.4	16.0	16.0	0.91	0.32	1.19	0.89
404	0.86	0.8575	60	1.92	1.2	73.0	15.1	15.1	0.90	0.32	1.19	0.89
405	0.86	0.8568	55	2.00	1.3	71.9	13.8	13.8	0.90	0.32	1.19	0.89
406	0.86	0.8561	53	2.00	1.3	69.5	13.3	13.3	0.90	0.32	1.19	0.89
407	0.86	0.8554	48	2.03	1.3	64.9	12.1	12.1	0.90	0.32	1.19	0.89
408	0.85	0.8546	38	2.18	1.6	61.2	9.5	9.5	0.90	0.32	1.19	0.89
409	0.85	0.8539	31	2.32	2.0	61.5	7.6	7.6	0.90	0.32	1.19	0.89
410	0.85	0.8532	25	2.41	2.3	58.6	6.2	6.2	0.90	0.32	1.19	0.89
411	0.85	0.8525	21	2.45	2.5	51.8	5.2	5.2	0.90	0.32	1.19	0.89
412	0.80	0.7989	16	2.61	3.4	53.0	3.9	99.0	0.90	0.32	1.19	0.89
413	0.80	0.7979	13	2.79	4.7	61.0	3.2	99.0	0.90	0.32	1.19	0.89
414	0.80	0.797	11	2.84	5.1	56.1	2.7	99.0	0.90	0.32	1.19	0.88
415	0.80	0.7961	11	2.81	4.9	54.2	2.8	99.0	0.90	0.32	1.19	0.88

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
416	0.80	0.7951	14	2.66	3.7	52.5	3.5	99.0	0.90	0.32	1.19	0.88
417	0.79	0.7942	18	2.55	3.0	54.1	4.4	4.4	0.90	0.32	1.19	0.88
418	0.85	0.8476	20	2.49	2.7	53.9	5.0	5.0	0.90	0.32	1.19	0.88
419	0.85	0.8469	21	2.38	2.2	46.9	5.3	5.3	0.90	0.32	1.19	0.88
420	0.85	0.8462	24	2.26	1.8	44.4	6.0	6.0	0.90	0.32	1.19	0.88
421	0.85	0.8455	23	2.32	2.0	47.2	5.9	5.9	0.90	0.32	1.19	0.88
422	0.84	0.8448	21	2.45	2.5	53.9	5.3	5.3	0.90	0.32	1.19	0.88
423	0.84	0.8441	19	2.50	2.8	52.5	4.7	4.7	0.89	0.32	1.19	0.88
424	0.79	0.7879	16	2.56	3.1	48.9	4.0	4.0	0.89	0.33	1.19	0.88
425	0.79	0.787	15	2.56	3.1	45.8	3.7	3.7	0.89	0.33	1.19	0.88
426	0.79	0.7861	14	2.64	3.6	48.8	3.4	99.0	0.89	0.33	1.19	0.88
427	0.79	0.7852	13	2.74	4.3	54.2	3.2	99.0	0.89	0.33	1.19	0.88
428	0.78	0.7843	11	2.84	5.1	56.2	2.7	99.0	0.89	0.33	1.19	0.88
429	0.78	0.7834	10	2.86	5.3	53.1	2.5	99.0	0.89	0.33	1.19	0.88
430	0.78	0.7825	10	2.84	5.1	51.2	2.5	99.0	0.89	0.33	1.19	0.88
431	0.78	0.7816	10	3.07	7.5	74.6	2.5	99.0	0.89	0.33	1.19	0.88
432	0.78	0.7807	9	3.02	7.0	65.9	2.4	99.0	0.89	0.33	1.19	0.88
433	0.78	0.7798	10	2.89	5.6	57.1	2.5	99.0	0.89	0.33	1.19	0.87
434	0.78	0.779	10	2.91	5.8	55.3	2.4	99.0	0.89	0.33	1.19	0.87
435	0.78	0.7781	14	2.67	3.8	53.4	3.5	99.0	0.89	0.33	1.19	0.87
436	0.78	0.7772	12	2.71	4.1	51.0	3.1	99.0	0.89	0.33	1.19	0.87
437	0.78	0.7763	13	2.70	4.0	50.2	3.2	99.0	0.89	0.33	1.19	0.87
438	0.78	0.7755	13	2.66	3.7	49.5	3.3	99.0	0.89	0.33	1.19	0.87
439	0.77	0.7746	13	2.67	3.8	48.3	3.2	99.0	0.89	0.33	1.19	0.87
440	0.77	0.7737	12	2.68	3.8	47.6	3.1	99.0	0.89	0.33	1.19	0.87
441	0.77	0.7729	13	2.70	4.0	50.6	3.2	99.0	0.88	0.33	1.19	0.87
442	0.77	0.772	13	2.72	4.1	55.8	3.4	99.0	0.88	0.33	1.19	0.87
443	0.77	0.7712	13	2.78	4.6	60.1	3.2	99.0	0.88	0.33	1.19	0.87
444	0.77	0.7703	13	2.81	4.9	62.9	3.2	99.0	0.88	0.33	1.19	0.87
445	0.77	0.7695	12	2.90	5.7	66.3	2.9	99.0	0.88	0.33	1.19	0.87
446	0.77	0.7686	11	2.93	6.0	67.1	2.8	99.0	0.88	0.33	1.19	0.87
447	0.77	0.7678	11	2.98	6.5	68.5	2.6	99.0	0.88	0.33	1.19	0.87
448	0.77	0.7669	10	2.94	6.1	63.5	2.6	99.0	0.88	0.33	1.19	0.87
449	0.77	0.7661	11	2.89	5.6	61.0	2.7	99.0	0.88	0.33	1.19	0.87
450	0.77	0.7652	17	2.68	3.8	66.5	4.3	99.0	0.88	0.33	1.19	0.87
451	0.76	0.7644	22	2.57	3.2	68.8	5.4	5.4	0.88	0.33	1.19	0.87
452	0.76	0.7636	19	2.68	3.9	72.1	4.7	99.0	0.88	0.33	1.19	0.87
453	0.76	0.7627	16	2.79	4.7	74.2	3.9	99.0	0.88	0.33	1.19	0.86
454	0.76	0.7619	13	2.94	6.1	77.7	3.2	99.0	0.88	0.33	1.19	0.86
455	0.76	0.7611	10	3.09	7.8	76.4	2.5	99.0	0.88	0.33	1.19	0.86
456	0.76	0.7602	9	3.07	7.6	67.3	2.2	99.0	0.88	0.33	1.19	0.86
457	0.76	0.7594	9	2.95	6.2	56.8	2.3	99.0	0.87	0.33	1.19	0.86
458	0.82	0.8209	28	2.23	1.7	49.5	7.1	7.1	0.87	0.33	1.19	0.86
459	0.82	0.8203	63	1.84	1.1	71.5	15.7	15.7	0.87	0.33	1.19	0.86
460	0.82	0.8196	52	2.13	1.5	77.8	12.9	12.9	0.87	0.33	1.19	0.86
461	0.82	0.819	35	2.41	2.4	82.8	8.7	8.7	0.87	0.33	1.19	0.86
462	0.76	0.7553	23	2.62	3.4	79.5	5.8	99.0	0.87	0.33	1.19	0.86
463	0.75	0.7545	16	2.77	4.6	74.6	4.1	99.0	0.87	0.33	1.19	0.86
464	0.75	0.7537	14	2.95	6.3	85.2	3.4	99.0	0.87	0.33	1.19	0.86
465	0.75	0.7529	19	2.75	4.4	83.9	4.8	99.0	0.87	0.33	1.19	0.86
466	0.82	0.8159	34	2.44	2.5	83.9	8.5	8.5	0.87	0.33	1.19	0.86
467	0.75	0.7513	24	2.58	3.2	77.7	6.0	6.0	0.87	0.33	1.19	0.86
468	0.75	0.7505	18	2.78	4.6	82.2	4.4	99.0	0.87	0.33	1.19	0.86
469	0.75	0.7497	15	2.91	5.8	84.6	3.7	99.0	0.87	0.33	1.19	0.86
470	0.75	0.7489	21	2.68	3.9	79.4	5.1	99.0	0.87	0.33	1.19	0.86
471	0.75	0.7481	28	2.59	3.2	91.0	7.0	7.0	0.87	0.33	1.19	0.86
472	0.75	0.7473	23	2.75	4.4	101.2	5.8	99.0	0.86	0.33	1.19	0.86
473	0.75	0.7465	20	2.87	5.4	107.7	5.0	99.0	0.86	0.33	1.19	0.86
474	0.75	0.7457	19	2.88	5.5	104.5	4.7	99.0	0.86	0.33	1.19	0.85
475	0.74	0.7449	19	2.84	5.1	98.5	4.8	99.0	0.86	0.33	1.19	0.85
476	0.74	0.7441	26	2.61	3.4	88.3	6.5	99.0	0.86	0.33	1.19	0.85
477	0.81	0.8091	60	2.07	1.4	83.5	14.9	14.9	0.86	0.33	1.19	0.85
478	0.81	0.8085	76	1.92	1.2	92.2	19.1	19.1	0.86	0.32	1.19	0.85
479	0.81	0.8079	65	2.08	1.4	91.6	16.2	16.2	0.86	0.32	1.19	0.85
480	0.81	0.8073	53	2.21	1.7	90.8	13.3	13.3	0.86	0.32	1.19	0.85
481	0.81	0.8067	49	2.30	2.0	95.4	12.2	12.2	0.86	0.32	1.19	0.85
482	0.81	0.8061	38	2.49	2.7	102.4	9.4	9.4	0.86	0.32	1.19	0.85
483	0.74	0.7387	24	2.74	4.3	103.9	6.0	99.0	0.86	0.32	1.19	0.85
484	0.74	0.7379	18	2.87	5.4	99.9	4.6	99.0	0.86	0.32	1.19	0.85
485	0.74	0.7372	15	2.93	6.0	87.4	3.6	99.0	0.86	0.32	1.19	0.85

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
486	0.74	0.7364	12	3.00	6.7	78.4	2.9	99.0	0.86	0.32	1.19	0.85
487	0.74	0.7356	10	3.04	7.3	71.0	2.4	99.0	0.85	0.32	1.19	0.85
488	0.73	0.7349	9	3.03	7.1	61.9	2.2	99.0	0.85	0.32	1.19	0.85
489	0.73	0.7341	8	2.93	6.0	49.0	2.0	99.0	0.85	0.32	1.19	0.85
490	0.73	0.7333	8	2.88	5.5	44.1	2.0	99.0	0.85	0.32	1.19	0.85
491	0.73	0.7326	8	2.84	5.2	40.6	2.0	99.0	0.85	0.32	1.19	0.85
492	0.73	0.7318	8	2.81	4.9	38.4	2.0	99.0	0.85	0.32	1.19	0.85
493	0.73	0.7311	8	2.80	4.7	35.8	1.9	99.0	0.85	0.32	1.19	0.85
494	0.73	0.7303	8	2.76	4.5	34.5	1.9	99.0	0.85	0.32	1.19	0.85
495	0.73	0.7296	7	2.82	4.9	36.7	1.9	99.0	0.85	0.32	1.19	0.84
496	0.73	0.7288	7	2.92	5.9	41.5	1.8	99.0	0.85	0.32	1.19	0.84
497	0.73	0.7281	7	2.89	5.6	39.1	1.8	99.0	0.85	0.32	1.19	0.84
498	0.73	0.7273	7	2.85	5.2	37.2	1.8	99.0	0.85	0.32	1.19	0.84
499	0.73	0.7266	8	2.80	4.8	37.2	1.9	99.0	0.85	0.32	1.19	0.84
500	0.73	0.7259	11	2.61	3.4	38.9	2.9	99.0	0.84	0.32	1.19	0.84
501	0.73	0.7251	13	2.58	3.2	41.4	3.2	3.2	0.84	0.32	1.19	0.84
502	0.72	0.7244	11	2.70	4.0	43.3	2.7	99.0	0.84	0.32	1.19	0.84
503	0.72	0.7237	9	2.83	5.0	45.1	2.2	99.0	0.84	0.32	1.19	0.84
504	0.72	0.7229	8	2.92	5.9	45.8	1.9	99.0	0.84	0.32	1.19	0.84
505	0.72	0.7222	7	2.96	6.3	43.5	1.7	99.0	0.84	0.32	1.19	0.84
506	0.72	0.7215	7	2.91	5.8	39.1	1.7	99.0	0.84	0.32	1.19	0.84
507	0.72	0.7207	7	2.90	5.7	37.5	1.6	99.0	0.84	0.32	1.19	0.84
508	0.72	0.72	7	2.88	5.5	36.6	1.6	99.0	0.84	0.32	1.19	0.84
509	0.72	0.7193	6	2.92	5.9	36.2	1.5	99.0	0.84	0.32	1.19	0.84
510	0.72	0.7186	6	2.89	5.6	34.9	1.6	99.0	0.84	0.32	1.19	0.84
511	0.72	0.7178	6	2.93	6.0	37.7	1.6	99.0	0.84	0.32	1.19	0.84
512	0.72	0.7171	6	2.92	5.9	38.0	1.6	99.0	0.84	0.32	1.19	0.84
513	0.72	0.7164	6	2.99	6.7	42.0	1.6	99.0	0.84	0.32	1.19	0.84
514	0.72	0.7157	7	2.99	6.6	45.2	1.7	99.0	0.83	0.32	1.19	0.84
515	0.71	0.715	8	2.92	5.9	49.4	2.1	99.0	0.83	0.32	1.19	0.84
516	0.71	0.7143	10	2.95	6.2	59.7	2.4	99.0	0.83	0.32	1.19	0.83
517	0.71	0.7136	12	2.86	5.3	63.3	3.0	99.0	0.83	0.32	1.19	0.83
518	0.71	0.7129	12	2.89	5.6	65.8	2.9	99.0	0.83	0.32	1.19	0.83
519	0.71	0.7122	10	2.99	6.6	67.5	2.5	99.0	0.83	0.32	1.19	0.83
520	0.71	0.7114	8	3.08	7.7	64.8	2.1	99.0	0.83	0.32	1.19	0.83
521	0.71	0.7107	8	3.11	8.1	61.3	1.9	99.0	0.83	0.32	1.19	0.83
522	0.71	0.71	8	3.00	6.7	51.4	1.9	99.0	0.83	0.32	1.19	0.83
523	0.71	0.7093	8	2.91	5.8	43.6	1.9	99.0	0.83	0.32	1.19	0.83
524	0.71	0.7086	7	2.90	5.7	40.7	1.8	99.0	0.83	0.32	1.19	0.83
525	0.71	0.708	7	2.93	6.0	40.6	1.7	99.0	0.83	0.32	1.19	0.83
526	0.71	0.7073	7	2.96	6.3	42.3	1.7	99.0	0.83	0.32	1.19	0.83
527	0.71	0.7066	7	3.03	7.1	48.7	1.7	99.0	0.82	0.32	1.19	0.83
528	0.71	0.7059	8	3.03	7.1	55.6	2.0	99.0	0.82	0.32	1.19	0.83
529	0.71	0.7052	11	2.89	5.6	62.4	2.8	99.0	0.82	0.32	1.19	0.83
530	0.70	0.7045	18	2.71	4.1	71.3	4.4	99.0	0.82	0.32	1.19	0.83
531	0.70	0.7038	21	2.61	3.4	70.4	5.2	99.0	0.82	0.32	1.19	0.83
532	0.70	0.7031	21	2.62	3.5	73.4	5.3	99.0	0.82	0.32	1.19	0.83
533	0.70	0.7024	20	2.64	3.6	73.5	5.1	99.0	0.82	0.32	1.19	0.83
534	0.70	0.7018	18	2.70	4.0	74.1	4.6	99.0	0.82	0.32	1.19	0.83
535	0.70	0.7011	17	2.79	4.7	78.4	4.2	99.0	0.82	0.32	1.19	0.83
536	0.70	0.7004	20	2.70	4.0	78.3	4.9	99.0	0.82	0.32	1.19	0.83
537	0.70	0.6997	21	2.60	3.4	69.2	5.2	99.0	0.82	0.32	1.19	0.83
538	0.70	0.6991	18	2.64	3.6	62.8	4.4	99.0	0.82	0.32	1.19	0.83
539	0.70	0.6984	14	2.78	4.6	62.9	3.4	99.0	0.81	0.32	1.19	0.82
540	0.70	0.6977	11	2.94	6.1	64.6	2.7	99.0	0.81	0.32	1.19	0.82
541	0.70	0.697	9	3.03	7.1	65.3	2.3	99.0	0.81	0.32	1.19	0.82
542	0.70	0.6964	9	2.99	6.6	57.6	2.2	99.0	0.81	0.32	1.19	0.82
543	0.70	0.6957	9	2.98	6.6	57.3	2.2	99.0	0.81	0.32	1.19	0.82
544	0.70	0.695	10	2.94	6.1	57.8	2.4	99.0	0.81	0.32	1.19	0.82
545	0.69	0.6944	11	2.94	6.1	64.4	2.6	99.0	0.81	0.32	1.19	0.82
546	0.69	0.6937	12	2.83	5.1	62.9	3.1	99.0	0.81	0.32	1.19	0.82
547	0.69	0.693	16	2.73	4.2	69.3	4.1	99.0	0.81	0.32	1.19	0.82
548	0.69	0.6924	20	2.63	3.5	71.9	5.1	99.0	0.81	0.32	1.19	0.82
549	0.69	0.6917	19	2.69	3.9	75.4	4.8	99.0	0.81	0.32	1.19	0.82
550	0.69	0.6911	17	2.75	4.4	73.7	4.2	99.0	0.81	0.32	1.19	0.82
551	0.69	0.6904	16	2.83	5.1	79.0	3.9	99.0	0.80	0.32	1.19	0.82
552	0.69	0.6898	17	2.75	4.4	75.9	4.3	99.0	0.80	0.32	1.19	0.82
553	0.69	0.6891	18	2.69	3.9	70.5	4.5	99.0	0.80	0.32	1.19	0.82
554	0.69	0.6885	15	2.77	4.5	68.3	3.8	99.0	0.80	0.32	1.19	0.82
555	0.69	0.6878	11	2.91	5.8	65.6	2.8	99.0	0.80	0.32	1.19	0.82

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
556	0.69	0.6872	8	3.04	7.2	61.3	2.1	99.0	0.80	0.32	1.19	0.82
557	0.69	0.6865	7	3.09	7.8	56.8	1.8	99.0	0.80	0.32	1.19	0.82
558	0.69	0.6859	7	3.01	6.9	47.7	1.7	99.0	0.80	0.32	1.19	0.82
559	0.69	0.6852	7	2.98	6.5	42.6	1.6	99.0	0.80	0.32	1.19	0.82
560	0.68	0.6846	6	3.01	6.9	43.0	1.6	99.0	0.80	0.32	1.19	0.82
561	0.68	0.684	7	2.95	6.2	40.2	1.6	99.0	0.80	0.31	1.19	0.82
562	0.68	0.6833	7	2.99	6.6	45.7	1.7	99.0	0.80	0.31	1.19	0.81
563	0.68	0.6827	8	2.98	6.5	50.6	1.9	99.0	0.80	0.31	1.19	0.81
564	0.68	0.682	10	2.84	5.1	52.6	2.6	99.0	0.79	0.31	1.19	0.81
565	0.68	0.6815	10	2.88	5.5	53.9	2.4	99.0	0.79	0.31	1.19	0.81
566	0.68	0.6809	8	3.02	6.9	54.6	2.0	99.0	0.79	0.31	1.19	0.81
567	0.68	0.6803	7	3.11	8.0	53.5	1.7	99.0	0.79	0.31	1.19	0.81
568	0.68	0.6798	7	3.07	7.6	52.7	1.7	99.0	0.79	0.31	1.19	0.81
569	0.68	0.6792	7	2.95	6.2	42.8	1.7	99.0	0.79	0.31	1.19	0.81
570	0.68	0.6787	6	2.97	6.4	40.9	1.6	99.0	0.79	0.31	1.19	0.81
571	0.68	0.6781	6	2.98	6.5	40.9	1.6	99.0	0.79	0.31	1.19	0.81
572	0.68	0.6776	6	2.97	6.5	39.8	1.5	99.0	0.79	0.31	1.19	0.81
573	0.68	0.677	6	2.98	6.5	38.7	1.5	99.0	0.79	0.31	1.19	0.81
574	0.68	0.6764	6	2.97	6.5	37.6	1.5	99.0	0.79	0.31	1.19	0.81
575	0.68	0.6759	6	2.98	6.6	37.9	1.4	99.0	0.79	0.31	1.19	0.81
576	0.68	0.6753	6	2.98	6.6	38.4	1.5	99.0	0.78	0.31	1.19	0.81
577	0.67	0.6748	6	2.96	6.3	37.3	1.5	99.0	0.78	0.31	1.19	0.81
578	0.67	0.6742	6	3.01	6.9	38.9	1.4	99.0	0.78	0.31	1.19	0.81
579	0.67	0.6737	6	3.01	6.8	39.6	1.4	99.0	0.78	0.31	1.19	0.81
580	0.67	0.6731	6	2.98	6.5	40.8	1.6	99.0	0.78	0.31	1.19	0.81
581	0.67	0.6726	7	2.92	5.9	40.7	1.7	99.0	0.78	0.31	1.19	0.81
582	0.67	0.672	7	2.92	5.9	41.6	1.8	99.0	0.78	0.31	1.19	0.81
583	0.67	0.6715	7	2.97	6.4	42.1	1.6	99.0	0.78	0.31	1.19	0.81
584	0.67	0.6709	6	2.98	6.5	42.0	1.6	99.0	0.78	0.31	1.19	0.81
585	0.67	0.6704	6	3.01	6.8	42.8	1.6	99.0	0.78	0.31	1.19	0.81
586	0.67	0.6699	6	2.97	6.4	39.4	1.5	99.0	0.78	0.31	1.19	0.81
587	0.67	0.6693	6	2.95	6.2	38.0	1.5	99.0	0.78	0.31	1.19	0.80
588	0.67	0.6688	6	2.92	5.9	36.9	1.6	99.0	0.77	0.31	1.19	0.80
589	0.67	0.6682	6	2.93	6.0	37.2	1.5	99.0	0.77	0.31	1.19	0.80
590	0.67	0.6677	6	2.92	5.9	36.7	1.6	99.0	0.77	0.31	1.19	0.80
591	0.67	0.6672	6	2.96	6.4	38.8	1.5	99.0	0.77	0.31	1.19	0.80
592	0.67	0.6666	6	2.94	6.1	38.2	1.6	99.0	0.77	0.31	1.19	0.80
593	0.67	0.6661	6	3.02	7.0	39.1	1.4	99.0	0.77	0.31	1.19	0.80
594	0.67	0.6656	6	3.01	6.8	39.8	1.5	99.0	0.77	0.31	1.19	0.80
595	0.67	0.665	6	2.94	6.1	39.3	1.6	99.0	0.77	0.31	1.19	0.80
596	0.66	0.6645	6	2.99	6.7	40.4	1.5	99.0	0.77	0.31	1.19	0.80
597	0.66	0.664	6	3.05	7.4	41.8	1.4	99.0	0.77	0.31	1.19	0.80
598	0.66	0.6634	6	3.08	7.6	43.6	1.4	99.0	0.77	0.31	1.19	0.80
599	0.66	0.6629	6	3.02	7.0	42.3	1.5	99.0	0.76	0.31	1.19	0.80
600	0.66	0.6624	7	2.93	6.0	39.5	1.6	99.0	0.76	0.31	1.19	0.80
601	0.66	0.6619	8	2.98	6.5	49.5	1.9	99.0	0.76	0.31	1.19	0.80
602	0.66	0.6613	9	2.90	5.7	53.6	2.3	99.0	0.76	0.31	1.19	0.80
603	0.66	0.6608	10	2.84	5.2	54.2	2.6	99.0	0.76	0.31	1.19	0.80
604	0.66	0.6603	10	2.90	5.7	55.3	2.4	99.0	0.76	0.31	1.19	0.80
605	0.66	0.6598	8	3.03	7.1	56.5	2.0	99.0	0.76	0.31	1.19	0.80
606	0.66	0.6592	8	3.05	7.4	55.4	1.9	99.0	0.76	0.31	1.19	0.80
607	0.66	0.6587	8	3.01	6.8	52.2	1.9	99.0	0.76	0.31	1.19	0.80
608	0.66	0.6582	8	2.95	6.2	48.3	2.0	99.0	0.76	0.31	1.19	0.80
609	0.66	0.6577	7	2.97	6.5	45.9	1.8	99.0	0.76	0.31	1.19	0.80
610	0.66	0.6572	7	2.98	6.6	45.7	1.7	99.0	0.76	0.31	1.19	0.80
611	0.66	0.6566	7	3.02	6.9	47.8	1.7	99.0	0.75	0.31	1.19	0.80
612	0.66	0.6561	8	2.94	6.1	46.3	1.9	99.0	0.75	0.31	1.19	0.80
613	0.66	0.6556	8	2.89	5.6	45.2	2.0	99.0	0.75	0.31	1.19	0.79
614	0.66	0.6551	8	2.89	5.6	44.7	2.0	99.0	0.75	0.31	1.19	0.79
615	0.65	0.6546	8	2.90	5.7	44.7	1.9	99.0	0.75	0.31	1.19	0.79
616	0.65	0.6541	7	2.95	6.2	44.2	1.8	99.0	0.75	0.30	1.19	0.79
617	0.65	0.6536	7	2.99	6.7	43.9	1.6	99.0	0.75	0.30	1.19	0.79
618	0.65	0.6531	6	3.01	6.8	42.1	1.5	99.0	0.75	0.30	1.19	0.79
619	0.65	0.6525	6	3.02	6.9	40.3	1.5	99.0	0.75	0.30	1.19	0.79
620	0.65	0.652	6	3.02	7.0	39.7	1.4	99.0	0.75	0.30	1.19	0.79
621	0.65	0.6515	6	2.99	6.6	38.6	1.5	99.0	0.75	0.30	1.19	0.79
622	0.65	0.651	6	2.96	6.3	37.7	1.5	99.0	0.75	0.30	1.19	0.79
623	0.65	0.6505	6	2.98	6.5	37.9	1.5	99.0	0.74	0.30	1.19	0.79
624	0.65	0.65	6	2.96	6.4	37.5	1.5	99.0	0.74	0.30	1.19	0.79
625	0.65	0.6495	6	2.99	6.6	37.9	1.4	99.0	0.74	0.30	1.19	0.79

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
626	0.65	0.649	6	2.96	6.3	37.7	1.5	99.0	0.74	0.30	1.19	0.79
627	0.65	0.6485	6	2.99	6.6	37.6	1.4	99.0	0.74	0.30	1.19	0.79
628	0.65	0.648	6	2.95	6.2	36.3	1.5	99.0	0.74	0.30	1.19	0.79
629	0.65	0.6475	6	2.92	5.9	37.5	1.6	99.0	0.74	0.30	1.19	0.79
630	0.65	0.647	7	2.90	5.7	40.6	1.8	99.0	0.74	0.30	1.19	0.79
631	0.65	0.6465	7	2.92	5.9	41.5	1.8	99.0	0.74	0.30	1.19	0.79
632	0.65	0.646	7	2.96	6.3	42.2	1.7	99.0	0.74	0.30	1.19	0.79
633	0.65	0.6455	6	3.02	6.9	42.6	1.5	99.0	0.74	0.30	1.19	0.79
634	0.65	0.645	6	3.05	7.3	42.2	1.4	99.0	0.74	0.30	1.19	0.79
635	0.64	0.6445	6	3.01	6.9	40.1	1.5	99.0	0.73	0.30	1.19	0.79
636	0.64	0.644	6	2.96	6.4	36.8	1.4	99.0	0.73	0.30	1.19	0.79
637	0.64	0.6436	6	2.96	6.3	35.7	1.4	99.0	0.73	0.30	1.19	0.79
638	0.64	0.6431	6	2.95	6.2	35.3	1.4	99.0	0.73	0.30	1.19	0.79
639	0.64	0.6426	6	2.95	6.2	35.3	1.4	99.0	0.73	0.30	1.19	0.79
640	0.64	0.6421	5	2.98	6.5	35.9	1.4	99.0	0.73	0.30	1.19	0.78
641	0.64	0.6416	6	2.97	6.5	36.2	1.4	99.0	0.73	0.30	1.19	0.78
642	0.64	0.6411	6	2.98	6.5	36.2	1.4	99.0	0.73	0.30	1.19	0.78
643	0.64	0.6406	6	2.98	6.5	36.6	1.4	99.0	0.73	0.30	1.19	0.78
644	0.64	0.6401	6	2.98	6.5	36.6	1.4	99.0	0.73	0.30	1.19	0.78
645	0.64	0.6396	6	2.97	6.4	36.3	1.4	99.0	0.73	0.30	1.19	0.78
646	0.64	0.6392	6	2.96	6.4	36.7	1.4	99.0	0.73	0.30	1.19	0.78
647	0.64	0.6387	6	2.99	6.6	36.5	1.4	99.0	0.73	0.30	1.19	0.78
648	0.64	0.6382	6	2.95	6.2	35.9	1.5	99.0	0.72	0.30	1.19	0.78
649	0.64	0.6377	6	2.96	6.3	36.2	1.4	99.0	0.72	0.30	1.19	0.78
650	0.64	0.6372	6	2.97	6.4	36.6	1.4	99.0	0.72	0.30	1.19	0.78
651	0.64	0.6368	6	2.98	6.5	36.6	1.4	99.0	0.72	0.30	1.19	0.78
652	0.64	0.6363	5	3.00	6.7	36.7	1.4	99.0	0.72	0.30	1.19	0.78
653	0.64	0.6358	6	2.97	6.4	35.6	1.4	99.0	0.72	0.30	1.19	0.78
654	0.64	0.6353	6	2.96	6.3	35.8	1.4	99.0	0.72	0.30	1.19	0.78
655	0.63	0.6349	6	2.97	6.4	35.6	1.4	99.0	0.72	0.30	1.19	0.78
656	0.63	0.6344	5	2.97	6.4	35.2	1.4	99.0	0.72	0.30	1.19	0.78
657	0.63	0.6339	6	2.97	6.4	35.5	1.4	99.0	0.72	0.30	1.19	0.78
658	0.63	0.6334	6	2.95	6.3	35.8	1.4	99.0	0.72	0.30	1.19	0.78
659	0.63	0.633	6	2.96	6.3	35.6	1.4	99.0	0.72	0.30	1.19	0.78
660	0.63	0.6325	6	2.96	6.3	35.8	1.4	99.0	0.71	0.30	1.19	0.78
661	0.63	0.632	6	2.96	6.3	35.8	1.4	99.0	0.71	0.30	1.19	0.78
662	0.63	0.6315	6	2.97	6.4	36.1	1.4	99.0	0.71	0.30	1.19	0.78
663	0.63	0.6311	6	2.96	6.3	35.6	1.4	99.0	0.71	0.30	1.19	0.78
664	0.63	0.6306	6	2.97	6.4	36.1	1.4	99.0	0.71	0.29	1.19	0.78
665	0.63	0.6301	6	2.97	6.5	35.8	1.4	99.0	0.71	0.29	1.19	0.78
666	0.63	0.6297	5	2.97	6.4	35.2	1.4	99.0	0.71	0.29	1.19	0.78
667	0.63	0.6292	5	2.98	6.5	35.1	1.4	99.0	0.71	0.29	1.19	0.78
668	0.63	0.6287	5	2.96	6.4	34.7	1.4	99.0	0.71	0.29	1.19	0.78
669	0.63	0.6283	5	2.97	6.4	35.0	1.4	99.0	0.71	0.29	1.19	0.77
670	0.63	0.6278	5	2.91	5.8	30.6	1.3	99.0	0.71	0.29	1.19	0.77
671	0.63	0.6274	5	2.93	6.0	32.9	1.4	99.0	0.71	0.29	1.19	0.77
672	0.63	0.6269	5	2.95	6.2	33.2	1.3	99.0	0.71	0.29	1.19	0.77
673	0.63	0.6264	5	2.94	6.1	32.8	1.3	99.0	0.70	0.29	1.19	0.77
674	0.63	0.6262	5	2.94	6.2	33.4	1.4	99.0	0.70	0.29	1.19	0.77
675	0.63	0.6255	5	2.94	6.1	33.5	1.4	99.0	0.70	0.29	1.19	0.77
676	0.63	0.6251	6	2.93	6.0	33.5	1.4	99.0	0.70	0.29	1.19	0.77
677	0.62	0.6246	5	2.97	6.4	33.8	1.3	99.0	0.70	0.29	1.19	0.77
678	0.62	0.6241	5	2.95	6.2	33.7	1.4	99.0	0.70	0.29	1.19	0.77
679	0.62	0.6237	5	2.95	6.2	33.4	1.4	99.0	0.70	0.29	1.19	0.77
680	0.62	0.6232	5	2.96	6.3	33.5	1.3	99.0	0.70	0.29	1.19	0.77
681	0.62	0.6228	6	2.94	6.1	33.9	1.4	99.0	0.70	0.29	1.19	0.77
682	0.62	0.6223	5	2.98	6.6	35.2	1.3	99.0	0.70	0.29	1.19	0.77
683	0.62	0.6219	5	2.98	6.5	35.4	1.4	99.0	0.70	0.29	1.19	0.77
684	0.62	0.6214	6	2.95	6.2	35.1	1.4	99.0	0.70	0.29	1.19	0.77
685	0.62	0.621	6	2.94	6.1	35.9	1.5	99.0	0.70	0.29	1.19	0.77
686	0.62	0.6205	6	2.94	6.1	36.5	1.5	99.0	0.69	0.29	1.19	0.77
687	0.62	0.6201	6	2.91	5.7	36.1	1.6	99.0	0.69	0.29	1.19	0.77
688	0.62	0.6196	6	2.92	5.9	36.4	1.5	99.0	0.69	0.29	1.19	0.77
689	0.62	0.6192	6	2.90	5.7	36.5	1.6	99.0	0.69	0.29	1.19	0.77
690	0.62	0.6187	6	2.90	5.7	36.5	1.6	99.0	0.69	0.29	1.19	0.77
691	0.62	0.6183	6	2.90	5.7	36.6	1.6	99.0	0.69	0.29	1.19	0.77
692	0.62	0.6178	7	2.89	5.6	36.6	1.6	99.0	0.69	0.29	1.19	0.77
693	0.62	0.6174	6	2.91	5.8	37.2	1.6	99.0	0.69	0.29	1.19	0.77
694	0.62	0.6169	7	2.89	5.6	36.9	1.6	99.0	0.69	0.29	1.19	0.77
695	0.62	0.6165	7	2.91	5.7	38.1	1.7	99.0	0.69	0.29	1.19	0.77

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
696	0.62	0.6161	7	2.85	5.2	36.2	1.7	99.0	0.69	0.29	1.19	0.77
697	0.62	0.6156	7	2.83	5.0	36.3	1.8	99.0	0.69	0.29	1.19	0.77
698	0.62	0.6152	8	2.77	4.5	36.4	2.0	99.0	0.69	0.29	1.19	0.76
699	0.61	0.6147	9	2.74	4.3	36.9	2.2	99.0	0.68	0.29	1.19	0.76
700	0.61	0.6143	8	2.78	4.6	38.9	2.1	99.0	0.68	0.29	1.19	0.76
701	0.61	0.6139	7	2.89	5.6	39.2	1.7	99.0	0.68	0.29	1.19	0.76
702	0.61	0.6134	7	2.92	5.9	39.4	1.7	99.0	0.68	0.29	1.19	0.76
703	0.61	0.613	7	2.94	6.1	43.3	1.8	99.0	0.68	0.29	1.19	0.76
704	0.61	0.6125	9	2.83	5.0	43.0	2.1	99.0	0.68	0.29	1.19	0.76
705	0.61	0.6121	9	2.79	4.7	44.1	2.3	99.0	0.68	0.29	1.19	0.76
706	0.61	0.6117	8	2.94	6.1	46.1	1.9	99.0	0.68	0.29	1.19	0.76
707	0.61	0.6112	8	2.97	6.4	50.0	1.9	99.0	0.68	0.29	1.19	0.76
708	0.61	0.6108	8	2.89	5.6	44.3	2.0	99.0	0.68	0.29	1.19	0.76
709	0.61	0.6104	8	2.81	4.9	40.6	2.1	99.0	0.68	0.29	1.19	0.76
710	0.61	0.6099	9	2.92	5.9	55.7	2.4	99.0	0.68	0.29	1.19	0.76
711	0.70	0.7021	26	2.37	2.2	57.6	6.6	6.6	0.68	0.29	1.19	0.76
712	0.70	0.7018	40	2.25	1.8	71.8	9.9	9.9	0.68	0.29	1.19	0.76
713	0.61	0.6087	28	2.53	2.9	83.0	7.1	7.1	0.67	0.28	1.19	0.76
714	0.61	0.6082	21	2.74	4.3	89.5	5.2	99.0	0.67	0.28	1.19	0.76
715	0.61	0.6078	17	2.84	5.1	87.8	4.3	99.0	0.67	0.28	1.19	0.76
716	0.61	0.6074	12	3.03	7.1	84.3	3.0	99.0	0.67	0.28	1.19	0.76
717	0.61	0.6069	10	3.10	7.9	77.1	2.4	99.0	0.67	0.28	1.19	0.76
718	0.61	0.6065	7	3.18	9.0	62.5	1.7	99.0	0.67	0.28	1.19	0.76
719	0.61	0.6061	6	3.17	8.9	52.7	1.5	99.0	0.67	0.28	1.19	0.76
720	0.61	0.6057	6	3.09	7.8	45.3	1.5	99.0	0.67	0.28	1.19	0.76
721	0.61	0.6052	6	3.04	7.2	40.6	1.4	99.0	0.67	0.28	1.19	0.76
722	0.60	0.6048	5	3.10	7.9	40.2	1.3	99.0	0.67	0.28	1.19	0.76
723	0.60	0.6044	5	3.10	7.9	39.5	1.3	99.0	0.67	0.28	1.19	0.76
724	0.60	0.604	5	3.10	7.9	39.8	1.3	99.0	0.67	0.28	1.19	0.76
725	0.60	0.6036	5	3.11	8.1	40.2	1.2	99.0	0.67	0.28	1.19	0.76
726	0.60	0.6031	5	3.07	7.6	40.0	1.3	99.0	0.67	0.28	1.19	0.76
727	0.60	0.6027	5	3.10	7.9	40.6	1.3	99.0	0.66	0.28	1.19	0.76
728	0.60	0.6023	5	3.09	7.8	41.1	1.3	99.0	0.66	0.28	1.19	0.76
729	0.60	0.6019	6	3.07	7.5	41.4	1.4	99.0	0.66	0.28	1.19	0.76
730	0.60	0.6015	6	3.04	7.2	41.8	1.5	99.0	0.66	0.28	1.19	0.75
731	0.60	0.601	6	3.00	6.7	41.9	1.6	99.0	0.66	0.28	1.19	0.75
732	0.60	0.6006	6	2.98	6.6	41.8	1.6	99.0	0.66	0.28	1.19	0.75
733	0.60	0.6002	6	3.00	6.7	42.7	1.6	99.0	0.66	0.28	1.19	0.75
734	0.60	0.5998	7	2.98	6.6	43.0	1.6	99.0	0.66	0.28	1.19	0.75
735	0.60	0.5994	7	2.98	6.5	43.0	1.6	99.0	0.66	0.28	1.19	0.75
736	0.60	0.599	7	2.97	6.4	42.9	1.7	99.0	0.66	0.28	1.19	0.75
737	0.60	0.5986	7	2.98	6.5	42.7	1.6	99.0	0.66	0.28	1.19	0.75
738	0.60	0.5981	7	2.96	6.4	42.7	1.7	99.0	0.66	0.28	1.19	0.75
739	0.60	0.5977	7	2.95	6.2	42.7	1.7	99.0	0.66	0.28	1.19	0.75
740	0.60	0.5973	6	2.98	6.5	42.3	1.6	99.0	0.66	0.28	1.19	0.75
741	0.60	0.5969	6	2.98	6.6	42.3	1.6	99.0	0.66	0.28	1.19	0.75
742	0.60	0.5965	6	2.99	6.6	42.0	1.6	99.0	0.65	0.28	1.19	0.75
743	0.60	0.5961	6	2.98	6.6	41.8	1.6	99.0	0.65	0.28	1.19	0.75
744	0.60	0.5957	6	3.00	6.8	42.0	1.5	99.0	0.65	0.28	1.19	0.75
745	0.60	0.5953	6	3.02	6.9	42.8	1.5	99.0	0.65	0.28	1.19	0.75
746	0.59	0.5949	6	2.93	6.0	37.1	1.6	99.0	0.65	0.28	1.19	0.75
747	0.59	0.5945	6	2.96	6.3	39.1	1.6	99.0	0.65	0.28	1.19	0.75
748	0.59	0.5941	7	3.09	7.8	51.7	1.7	99.0	0.65	0.28	1.19	0.75
749	0.59	0.5937	9	2.88	5.5	49.7	2.2	99.0	0.65	0.28	1.19	0.75
750	0.59	0.5933	10	2.83	5.0	51.7	2.6	99.0	0.65	0.28	1.19	0.75
751	0.59	0.5929	9	3.01	6.9	58.6	2.1	99.0	0.65	0.28	1.19	0.75
752	0.59	0.5925	7	3.13	8.3	58.9	1.8	99.0	0.65	0.28	1.19	0.75
753	0.59	0.5921	7	3.16	8.7	58.8	1.7	99.0	0.65	0.28	1.19	0.75
754	0.59	0.5917	7	3.05	7.3	50.0	1.7	99.0	0.65	0.28	1.19	0.75
755	0.59	0.5913	6	3.01	6.8	43.9	1.6	99.0	0.65	0.28	1.19	0.75
756	0.59	0.5909	6	3.00	6.8	42.4	1.6	99.0	0.65	0.28	1.19	0.75
757	0.59	0.5905	6	3.01	6.8	42.5	1.6	99.0	0.65	0.28	1.19	0.75
758	0.59	0.5901	6	3.02	6.9	42.1	1.5	99.0	0.64	0.28	1.19	0.75
759	0.59	0.5897	6	3.00	6.8	40.8	1.5	99.0	0.64	0.28	1.19	0.75
760	0.59	0.5893	6	3.02	6.9	40.7	1.5	99.0	0.64	0.28	1.19	0.75
761	0.59	0.5889	6	2.99	6.6	40.8	1.5	99.0	0.64	0.28	1.19	0.75
762	0.59	0.5885	6	2.99	6.6	40.8	1.5	99.0	0.64	0.28	1.19	0.75
763	0.59	0.5881	6	2.97	6.4	40.3	1.6	99.0	0.64	0.28	1.19	0.75
764	0.59	0.5877	6	2.96	6.3	40.8	1.6	99.0	0.64	0.28	1.19	0.74
765	0.59	0.5873	6	3.00	6.7	42.3	1.6	99.0	0.64	0.28	1.19	0.74

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
766	0.59	0.5869	6	2.99	6.6	42.0	1.6	99.0	0.64	0.27	1.19	0.74
767	0.59	0.5865	7	2.96	6.3	41.3	1.6	99.0	0.64	0.27	1.19	0.74
768	0.59	0.5861	7	2.94	6.1	40.8	1.7	99.0	0.64	0.27	1.19	0.74
769	0.59	0.5857	7	2.95	6.2	41.2	1.7	99.0	0.64	0.27	1.19	0.74
770	0.59	0.5853	7	2.96	6.3	41.8	1.7	99.0	0.64	0.27	1.19	0.74
771	0.58	0.5849	7	2.96	6.3	42.1	1.7	99.0	0.64	0.27	1.19	0.74
772	0.58	0.5845	7	2.93	6.0	41.4	1.7	99.0	0.64	0.27	1.19	0.74
773	0.58	0.5842	7	2.94	6.1	43.0	1.8	99.0	0.64	0.27	1.19	0.74
774	0.58	0.5838	8	2.89	5.6	43.2	1.9	99.0	0.63	0.27	1.19	0.74
775	0.58	0.5834	8	2.89	5.6	42.5	1.9	99.0	0.63	0.27	1.19	0.74
776	0.58	0.583	7	2.93	6.0	43.0	1.8	99.0	0.63	0.27	1.19	0.74
777	0.58	0.5826	7	2.94	6.1	44.1	1.8	99.0	0.63	0.27	1.19	0.74
778	0.58	0.5822	7	2.97	6.4	44.3	1.7	99.0	0.63	0.27	1.19	0.74
779	0.58	0.5818	7	2.90	5.7	42.7	1.9	99.0	0.63	0.27	1.19	0.74
780	0.58	0.5815	7	2.92	5.9	43.1	1.8	99.0	0.63	0.27	1.19	0.74
781	0.58	0.5811	7	2.92	5.9	42.5	1.8	99.0	0.63	0.27	1.19	0.74
782	0.58	0.5807	7	2.94	6.1	43.1	1.8	99.0	0.63	0.27	1.19	0.74
783	0.58	0.5803	7	2.95	6.2	44.3	1.8	99.0	0.63	0.27	1.19	0.74
784	0.58	0.5799	8	2.91	5.8	45.2	2.0	99.0	0.63	0.27	1.19	0.74
785	0.58	0.5795	8	2.87	5.4	43.8	2.0	99.0	0.63	0.27	1.19	0.74
786	0.58	0.5792	8	2.89	5.6	43.3	1.9	99.0	0.63	0.27	1.19	0.74
787	0.58	0.5788	8	2.89	5.6	43.1	1.9	99.0	0.63	0.27	1.19	0.74
788	0.58	0.5784	7	2.90	5.7	42.1	1.9	99.0	0.63	0.27	1.19	0.74
789	0.58	0.578	7	2.93	6.0	42.3	1.8	99.0	0.63	0.27	1.19	0.74
790	0.58	0.5776	7	2.95	6.2	41.6	1.7	99.0	0.63	0.27	1.19	0.74
791	0.58	0.5773	7	2.95	6.2	41.3	1.7	99.0	0.63	0.27	1.19	0.74
792	0.58	0.5769	7	2.97	6.4	42.3	1.7	99.0	0.62	0.27	1.19	0.74
793	0.58	0.5765	7	2.93	6.0	40.3	1.7	99.0	0.62	0.27	1.19	0.74
794	0.58	0.5761	7	2.93	5.9	40.4	1.7	99.0	0.62	0.27	1.19	0.74
795	0.58	0.5758	7	2.88	5.5	40.2	1.8	99.0	0.62	0.27	1.19	0.74
796	0.58	0.5754	8	2.86	5.3	41.1	1.9	99.0	0.62	0.27	1.19	0.74
797	0.58	0.575	7	2.90	5.7	42.4	1.9	99.0	0.62	0.27	1.19	0.74
798	0.57	0.5746	7	2.89	5.6	41.7	1.9	99.0	0.62	0.27	1.19	0.74
799	0.57	0.5743	7	2.92	5.9	42.2	1.8	99.0	0.62	0.27	1.19	0.74
800	0.57	0.5739	7	2.90	5.7	42.0	1.9	99.0	0.62	0.27	1.19	0.73
801	0.57	0.5735	7	2.91	5.8	41.1	1.8	99.0	0.62	0.27	1.19	0.73
802	0.57	0.5731	7	2.88	5.5	41.0	1.9	99.0	0.62	0.27	1.19	0.73
803	0.57	0.5728	8	2.88	5.5	41.3	1.9	99.0	0.62	0.27	1.19	0.73
804	0.57	0.5724	8	2.86	5.3	41.5	2.0	99.0	0.62	0.27	1.19	0.73
805	0.57	0.572	8	2.85	5.2	40.9	2.0	99.0	0.62	0.27	1.19	0.73
806	0.57	0.5717	7	2.89	5.6	41.1	1.8	99.0	0.62	0.27	1.19	0.73
807	0.57	0.5713	7	2.91	5.8	41.5	1.8	99.0	0.62	0.27	1.19	0.73
808	0.57	0.5709	7	2.91	5.8	41.9	1.8	99.0	0.62	0.27	1.19	0.73
809	0.57	0.5706	7	2.91	5.8	41.0	1.8	99.0	0.62	0.27	1.19	0.73
810	0.57	0.5702	7	2.91	5.8	40.9	1.8	99.0	0.61	0.27	1.19	0.73
811	0.57	0.5698	7	2.92	5.9	41.0	1.7	99.0	0.61	0.27	1.19	0.73
812	0.57	0.5695	7	2.92	5.9	40.9	1.7	99.0	0.61	0.27	1.19	0.73
813	0.57	0.5691	7	2.94	6.1	40.4	1.7	99.0	0.61	0.27	1.19	0.73
814	0.57	0.5687	7	2.94	6.1	40.1	1.6	99.0	0.61	0.27	1.19	0.73
815	0.57	0.5684	7	2.93	6.0	39.3	1.6	99.0	0.61	0.27	1.19	0.73
816	0.57	0.568	6	2.96	6.3	39.5	1.6	99.0	0.61	0.27	1.19	0.73
817	0.57	0.5677	6	2.94	6.1	39.1	1.6	99.0	0.61	0.27	1.19	0.73
818	0.57	0.5673	6	2.93	6.0	38.2	1.6	99.0	0.61	0.27	1.19	0.73
819	0.57	0.5669	6	2.96	6.3	38.7	1.5	99.0	0.61	0.27	1.19	0.73
820	0.57	0.5666	6	2.96	6.3	38.8	1.5	99.0	0.61	0.27	1.19	0.73
821	0.57	0.5662	6	2.95	6.2	38.9	1.6	99.0	0.61	0.27	1.19	0.73
822	0.57	0.5658	7	2.93	6.0	39.6	1.6	99.0	0.61	0.27	1.19	0.73
823	0.57	0.5655	6	2.94	6.1	38.8	1.6	99.0	0.61	0.27	1.19	0.73
824	0.57	0.5651	6	2.95	6.2	39.6	1.6	99.0	0.61	0.27	1.19	0.73
825	0.56	0.5648	6	2.96	6.3	40.7	1.6	99.0	0.61	0.27	1.19	0.73
826	0.56	0.5644	7	2.94	6.1	41.1	1.7	99.0	0.61	0.27	1.19	0.73
827	0.56	0.5641	7	2.92	5.9	40.5	1.7	99.0	0.61	0.27	1.19	0.73
828	0.56	0.5637	7	2.88	5.5	40.4	1.8	99.0	0.61	0.27	1.19	0.73
829	0.56	0.5633	7	2.89	5.6	41.0	1.8	99.0	0.61	0.26	1.19	0.73
830	0.56	0.563	7	2.96	6.3	42.0	1.7	99.0	0.60	0.26	1.19	0.73
831	0.56	0.5626	6	2.99	6.7	41.9	1.6	99.0	0.60	0.26	1.19	0.73
832	0.56	0.5623	6	3.00	6.7	43.2	1.6	99.0	0.60	0.26	1.19	0.73
833	0.56	0.5619	6	2.99	6.7	41.1	1.5	99.0	0.60	0.26	1.19	0.73
834	0.56	0.5616	6	2.96	6.3	39.8	1.6	99.0	0.60	0.26	1.19	0.73
835	0.56	0.5612	6	2.97	6.4	40.6	1.6	99.0	0.60	0.26	1.19	0.73

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
836	0.56	0.5609	6	2.98	6.6	41.3	1.6	99.0	0.60	0.26	1.19	0.73
837	0.56	0.5605	7	2.96	6.3	40.8	1.6	99.0	0.60	0.26	1.19	0.73
838	0.56	0.5602	7	2.96	6.4	41.7	1.6	99.0	0.60	0.26	1.19	0.73
839	0.56	0.5598	7	2.93	6.0	44.6	1.9	99.0	0.60	0.26	1.19	0.72
840	0.56	0.5595	10	2.80	4.8	45.5	2.4	99.0	0.60	0.26	1.19	0.72
841	0.56	0.5591	10	2.76	4.4	45.7	2.6	99.0	0.60	0.26	1.19	0.72
842	0.56	0.5588	10	2.81	4.9	47.4	2.4	99.0	0.60	0.26	1.19	0.72
843	0.56	0.5584	9	2.86	5.4	49.7	2.3	99.0	0.60	0.26	1.19	0.72
844	0.56	0.5581	9	2.91	5.8	53.0	2.3	99.0	0.60	0.26	1.19	0.72
845	0.56	0.5577	9	2.90	5.7	53.8	2.4	99.0	0.60	0.26	1.19	0.72
846	0.56	0.5574	10	2.83	5.0	49.4	2.5	99.0	0.60	0.26	1.19	0.72
847	0.56	0.557	11	2.79	4.7	51.6	2.7	99.0	0.60	0.26	1.19	0.72
848	0.56	0.5567	13	2.69	3.9	51.8	3.3	99.0	0.60	0.26	1.19	0.72
849	0.56	0.5563	13	2.70	4.0	52.0	3.3	99.0	0.60	0.26	1.19	0.72
850	0.56	0.556	10	2.86	5.3	53.6	2.5	99.0	0.60	0.26	1.19	0.72
851	0.56	0.5556	8	2.99	6.6	54.0	2.1	99.0	0.59	0.26	1.19	0.72
852	0.56	0.5553	7	3.06	7.4	54.0	1.8	99.0	0.59	0.26	1.19	0.72
853	0.55	0.555	7	3.07	7.6	49.9	1.7	99.0	0.59	0.26	1.19	0.72
854	0.55	0.5546	6	2.99	6.7	43.3	1.6	99.0	0.59	0.26	1.19	0.72
855	0.55	0.5543	6	2.96	6.3	40.5	1.6	99.0	0.59	0.26	1.19	0.72
856	0.55	0.5539	6	2.96	6.3	40.1	1.6	99.0	0.59	0.26	1.19	0.72
857	0.55	0.5536	6	3.00	6.7	40.1	1.5	99.0	0.59	0.26	1.19	0.72
858	0.55	0.5533	6	3.01	6.9	40.3	1.5	99.0	0.59	0.26	1.19	0.72
859	0.55	0.5529	6	2.97	6.5	39.9	1.5	99.0	0.59	0.26	1.19	0.72
860	0.55	0.5526	6	2.98	6.5	40.5	1.6	99.0	0.59	0.26	1.19	0.72
861	0.55	0.5522	6	2.98	6.5	40.6	1.6	99.0	0.59	0.26	1.19	0.72
862	0.55	0.5519	6	2.97	6.5	40.6	1.6	99.0	0.59	0.26	1.19	0.72
863	0.55	0.5516	6	2.98	6.5	40.9	1.6	99.0	0.59	0.26	1.19	0.72
864	0.55	0.5512	6	2.97	6.4	41.0	1.6	99.0	0.59	0.26	1.19	0.72
865	0.55	0.5509	6	2.98	6.5	41.1	1.6	99.0	0.59	0.26	1.19	0.72
866	0.55	0.5505	6	2.98	6.5	41.2	1.6	99.0	0.59	0.26	1.19	0.72
867	0.55	0.5502	6	2.99	6.6	41.8	1.6	99.0	0.59	0.26	1.19	0.72
868	0.55	0.5499	6	2.99	6.6	42.0	1.6	99.0	0.59	0.26	1.19	0.72
869	0.55	0.5495	6	2.99	6.6	41.9	1.6	99.0	0.59	0.26	1.19	0.72
870	0.55	0.5492	6	2.98	6.5	41.7	1.6	99.0	0.59	0.26	1.19	0.72
871	0.55	0.5489	6	2.97	6.4	40.2	1.6	99.0	0.59	0.26	1.19	0.72
872	0.55	0.5485	7	2.94	6.1	40.1	1.6	99.0	0.59	0.26	1.19	0.72
873	0.55	0.5482	7	2.92	5.9	39.6	1.7	99.0	0.59	0.26	1.19	0.72
874	0.55	0.5479	7	2.94	6.1	40.4	1.6	99.0	0.58	0.26	1.19	0.72
875	0.55	0.5475	7	2.95	6.2	40.9	1.7	99.0	0.58	0.26	1.19	0.72
876	0.55	0.5472	6	2.96	6.3	40.9	1.6	99.0	0.58	0.26	1.19	0.72
877	0.55	0.5469	7	2.95	6.2	40.8	1.6	99.0	0.58	0.26	1.19	0.72
878	0.55	0.5465	7	2.94	6.1	39.8	1.6	99.0	0.58	0.26	1.19	0.72
879	0.55	0.5462	6	2.95	6.2	39.7	1.6	99.0	0.58	0.26	1.19	0.72
880	0.55	0.5459	6	2.95	6.2	39.6	1.6	99.0	0.58	0.26	1.19	0.72
881	0.55	0.5456	6	2.97	6.4	40.7	1.6	99.0	0.58	0.26	1.19	0.72
882	0.55	0.5452	6	2.98	6.6	41.2	1.6	99.0	0.58	0.26	1.19	0.71
883	0.54	0.5449	6	2.98	6.6	40.9	1.6	99.0	0.58	0.26	1.19	0.71
884	0.54	0.5446	6	2.97	6.4	40.9	1.6	99.0	0.58	0.26	1.19	0.71
885	0.54	0.5442	7	2.96	6.3	41.0	1.6	99.0	0.58	0.26	1.19	0.71
886	0.54	0.5439	7	2.96	6.3	41.7	1.6	99.0	0.58	0.26	1.19	0.71
887	0.54	0.5436	7	2.98	6.5	42.8	1.7	99.0	0.58	0.26	1.19	0.71
888	0.54	0.5433	7	2.98	6.5	42.7	1.6	99.0	0.58	0.26	1.19	0.71
889	0.54	0.5429	7	2.98	6.6	42.8	1.6	99.0	0.58	0.26	1.19	0.71
890	0.54	0.5426	6	3.05	7.3	45.1	1.5	99.0	0.58	0.26	1.19	0.71
891	0.54	0.5423	6	3.04	7.2	44.6	1.5	99.0	0.58	0.26	1.19	0.71
892	0.54	0.542	6	3.00	6.8	43.0	1.6	99.0	0.58	0.26	1.19	0.71
893	0.54	0.5416	6	2.99	6.7	43.1	1.6	99.0	0.58	0.26	1.19	0.71
894	0.54	0.5413	7	2.96	6.3	42.7	1.7	99.0	0.58	0.26	1.19	0.71
895	0.54	0.541	7	2.93	6.0	42.7	1.8	99.0	0.58	0.26	1.19	0.71
896	0.54	0.5407	7	2.98	6.5	42.6	1.6	99.0	0.58	0.26	1.19	0.71
897	0.54	0.5404	6	3.01	6.8	42.1	1.5	99.0	0.58	0.26	1.19	0.71
898	0.54	0.54	6	3.01	6.8	42.0	1.5	99.0	0.58	0.26	1.19	0.71
899	0.54	0.5397	6	3.02	7.0	43.1	1.5	99.0	0.57	0.26	1.19	0.71
900	0.54	0.5394	6	3.01	6.9	42.1	1.5	99.0	0.57	0.26	1.19	0.71
901	0.54	0.5391	6	3.01	6.8	42.0	1.5	99.0	0.57	0.26	1.19	0.71
902	0.54	0.5388	6	2.99	6.6	41.2	1.6	99.0	0.57	0.26	1.19	0.71
903	0.54	0.5384	6	3.00	6.7	41.8	1.6	99.0	0.57	0.26	1.19	0.71
904	0.54	0.5381	6	3.02	6.9	42.4	1.5	99.0	0.57	0.26	1.19	0.71
905	0.54	0.5378	6	3.03	7.1	43.4	1.5	99.0	0.57	0.26	1.19	0.71

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
906	0.54	0.5375	6	3.04	7.2	44.5	1.5	99.0	0.57	0.26	1.19	0.71
907	0.54	0.5372	6	3.03	7.1	44.0	1.5	99.0	0.57	0.26	1.19	0.71
908	0.54	0.5368	6	3.03	7.1	43.9	1.6	99.0	0.57	0.26	1.19	0.71
909	0.54	0.5365	6	3.03	7.0	44.7	1.6	99.0	0.57	0.26	1.19	0.71
910	0.54	0.5362	7	2.99	6.7	45.0	1.7	99.0	0.57	0.26	1.19	0.71
911	0.54	0.5359	7	3.05	7.3	48.0	1.6	99.0	0.57	0.25	1.19	0.71
912	0.54	0.5356	7	3.10	7.9	51.9	1.6	99.0	0.57	0.25	1.19	0.71
913	0.54	0.5353	7	3.10	7.9	53.5	1.7	99.0	0.57	0.25	1.19	0.71
914	0.53	0.535	7	3.11	8.1	54.5	1.7	99.0	0.57	0.25	1.19	0.71
915	0.53	0.5346	8	3.08	7.7	58.5	1.9	99.0	0.57	0.25	1.19	0.71
916	0.53	0.5343	11	2.93	6.0	66.6	2.8	99.0	0.57	0.25	1.19	0.71
917	0.53	0.5339	13	2.89	5.6	75.4	3.3	99.0	0.57	0.25	1.19	0.71
918	0.53	0.5335	14	2.93	6.0	84.8	3.5	99.0	0.57	0.25	1.19	0.71
919	0.53	0.5331	15	2.95	6.2	90.9	3.7	99.0	0.57	0.25	1.19	0.71
920	0.53	0.5327	15	2.98	6.5	95.2	3.7	99.0	0.57	0.25	1.19	0.71
921	0.53	0.5323	15	2.98	6.5	96.3	3.7	99.0	0.57	0.25	1.19	0.71
922	0.53	0.5319	14	3.02	7.0	97.0	3.5	99.0	0.57	0.25	1.19	0.71
923	0.53	0.5315	13	3.04	7.3	96.5	3.3	99.0	0.57	0.25	1.19	0.71
924	0.53	0.5311	13	3.06	7.4	93.7	3.2	99.0	0.57	0.25	1.19	0.71
925	0.53	0.5307	12	3.07	7.6	90.1	3.0	99.0	0.57	0.25	1.19	0.71
926	0.53	0.5303	11	3.09	7.8	86.9	2.8	99.0	0.57	0.25	1.19	0.71
927	0.53	0.5299	10	3.12	8.1	83.0	2.6	99.0	0.56	0.25	1.19	0.71
928	0.53	0.5295	10	3.10	7.9	76.8	2.4	99.0	0.56	0.25	1.19	0.71
929	0.53	0.5291	10	3.01	6.9	69.1	2.5	99.0	0.56	0.25	1.19	0.71
930	0.53	0.5287	10	2.92	5.9	60.9	2.6	99.0	0.56	0.25	1.19	0.70
931	0.53	0.5283	10	2.90	5.7	55.8	2.5	99.0	0.56	0.25	1.19	0.70
932	0.53	0.5279	9	2.93	6.0	54.3	2.3	99.0	0.56	0.25	1.19	0.70
933	0.53	0.5275	8	3.00	6.8	54.6	2.0	99.0	0.56	0.25	1.19	0.70
934	0.53	0.5271	8	3.00	6.8	55.9	2.1	99.0	0.56	0.25	1.19	0.70
935	0.53	0.5267	9	3.00	6.8	58.1	2.1	99.0	0.56	0.25	1.19	0.70
936	0.53	0.5263	9	3.01	6.8	59.7	2.2	99.0	0.56	0.25	1.19	0.70
937	0.53	0.5259	9	3.02	6.9	61.0	2.2	99.0	0.56	0.25	1.19	0.70
938	0.53	0.5255	9	3.00	6.8	63.3	2.3	99.0	0.56	0.25	1.19	0.70
939	0.53	0.5251	10	2.97	6.4	64.5	2.5	99.0	0.56	0.25	1.19	0.70
940	0.52	0.5247	11	2.92	5.9	64.9	2.7	99.0	0.56	0.25	1.19	0.70
941	0.52	0.5244	11	2.90	5.7	65.1	2.9	99.0	0.56	0.25	1.19	0.70
942	0.52	0.524	11	2.91	5.8	65.8	2.9	99.0	0.56	0.25	1.19	0.70
943	0.52	0.5236	11	2.90	5.7	63.5	2.8	99.0	0.56	0.25	1.19	0.70
944	0.52	0.5232	11	2.92	5.9	61.7	2.6	99.0	0.56	0.25	1.19	0.70
945	0.52	0.5228	10	2.93	6.0	60.2	2.5	99.0	0.56	0.25	1.19	0.70
946	0.52	0.5224	10	2.96	6.3	61.4	2.4	99.0	0.56	0.25	1.19	0.70
947	0.52	0.522	10	2.97	6.4	65.0	2.5	99.0	0.56	0.25	1.19	0.70
948	0.52	0.5216	13	2.83	5.1	68.0	3.3	99.0	0.56	0.25	1.19	0.70
949	0.52	0.5213	18	2.61	3.4	62.9	4.6	99.0	0.56	0.25	1.19	0.70
950	0.52	0.5209	21	2.55	3.0	64.5	5.3	5.3	0.56	0.25	1.19	0.70
951	0.52	0.5205	21	2.56	3.1	63.3	5.1	5.1	0.56	0.25	1.19	0.70
952	0.52	0.5201	17	2.68	3.9	66.6	4.3	99.0	0.56	0.25	1.19	0.70
953	0.52	0.5197	15	2.78	4.6	70.3	3.8	99.0	0.56	0.25	1.19	0.70
954	0.52	0.5193	15	2.83	5.0	74.2	3.7	99.0	0.56	0.25	1.19	0.70
955	0.52	0.519	15	2.78	4.6	69.7	3.8	99.0	0.56	0.25	1.19	0.70
956	0.52	0.5186	14	2.82	5.0	70.6	3.5	99.0	0.56	0.25	1.19	0.70
957	0.52	0.5182	14	2.82	4.9	66.7	3.4	99.0	0.55	0.25	1.19	0.70
958	0.52	0.5178	13	2.83	5.1	66.4	3.3	99.0	0.55	0.25	1.19	0.70
959	0.52	0.5174	13	2.84	5.1	66.3	3.3	99.0	0.55	0.25	1.19	0.70
960	0.52	0.5171	14	2.78	4.6	63.3	3.4	99.0	0.55	0.25	1.19	0.70
961	0.52	0.5167	14	2.72	4.2	59.0	3.5	99.0	0.55	0.25	1.19	0.70
962	0.52	0.5163	14	2.68	3.8	54.7	3.6	99.0	0.55	0.25	1.19	0.70
963	0.52	0.5159	13	2.70	4.0	50.6	3.2	99.0	0.55	0.25	1.19	0.70
964	0.52	0.5156	10	2.82	5.0	50.3	2.5	99.0	0.55	0.25	1.19	0.70
965	0.52	0.5152	8	2.92	5.9	49.9	2.1	99.0	0.55	0.25	1.19	0.70
966	0.51	0.5148	7	3.02	7.0	50.3	1.8	99.0	0.55	0.25	1.19	0.70
967	0.51	0.5144	7	3.03	7.0	48.9	1.7	99.0	0.55	0.25	1.19	0.70
968	0.51	0.5141	7	3.01	6.9	48.1	1.7	99.0	0.55	0.25	1.19	0.70
969	0.51	0.5137	7	2.97	6.4	46.2	1.8	99.0	0.55	0.25	1.19	0.70
970	0.51	0.5133	8	2.94	6.1	48.0	2.0	99.0	0.55	0.25	1.19	0.70
971	0.51	0.513	9	2.91	5.8	50.7	2.2	99.0	0.55	0.25	1.19	0.70
972	0.51	0.5126	10	2.92	5.9	57.4	2.4	99.0	0.55	0.25	1.19	0.70
973	0.51	0.5122	12	2.86	5.3	66.0	3.1	99.0	0.55	0.25	1.19	0.70
974	0.51	0.5119	17	2.69	3.9	67.8	4.3	99.0	0.55	0.25	1.19	0.70
975	0.51	0.5115	22	2.61	3.4	74.6	5.5	99.0	0.55	0.25	1.19	0.70

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
976	0.51	0.5111	24	2.64	3.6	87.8	6.1	99.0	0.55	0.25	1.19	0.70
977	0.51	0.5108	24	2.67	3.8	91.3	6.0	99.0	0.55	0.25	1.19	0.70
978	0.51	0.5104	25	2.66	3.7	91.6	6.1	99.0	0.55	0.25	1.19	0.70
979	0.62	0.6182	40	2.38	2.2	89.7	10.1	10.1	0.55	0.25	1.19	0.70
980	0.62	0.6179	59	2.10	1.5	85.7	14.7	14.7	0.55	0.25	1.19	0.69
981	0.62	0.6176	68	2.02	1.3	89.9	16.9	16.9	0.55	0.25	1.19	0.69
982	0.62	0.6173	70	2.03	1.3	93.5	17.5	17.5	0.55	0.25	1.19	0.69
983	0.62	0.6169	70	2.05	1.4	96.0	17.4	17.4	0.55	0.25	1.19	0.69
984	0.62	0.6166	69	2.13	1.5	103.7	17.1	17.1	0.55	0.25	1.19	0.69
985	0.62	0.6163	69	2.17	1.6	108.8	17.1	17.1	0.55	0.25	1.19	0.69
986	0.62	0.616	69	2.15	1.6	107.2	17.3	17.3	0.55	0.25	1.19	0.69
987	0.62	0.6157	68	2.13	1.5	101.5	16.9	16.9	0.55	0.25	1.19	0.69
988	0.62	0.6154	61	2.25	1.8	109.7	15.3	15.3	0.55	0.25	1.19	0.69
989	0.62	0.6151	53	2.34	2.1	109.6	13.2	13.2	0.55	0.25	1.19	0.69
990	0.51	0.506	37	2.51	2.8	105.8	9.3	9.3	0.55	0.25	1.19	0.69
991	0.51	0.5057	34	2.54	3.0	101.0	8.5	8.5	0.54	0.25	1.19	0.69
992	0.61	0.6141	53	2.31	2.0	105.0	13.2	13.2	0.54	0.25	1.19	0.69
993	0.61	0.6138	69	2.17	1.6	109.3	17.2	17.2	0.54	0.25	1.19	0.69
994	0.61	0.6135	76	2.13	1.5	114.1	18.9	18.9	0.54	0.25	1.19	0.69
995	0.61	0.6132	84	2.03	1.3	113.2	21.1	21.1	0.54	0.25	1.19	0.69
996	0.61	0.6129	87	1.98	1.3	110.7	21.8	21.8	0.54	0.25	1.19	0.69
997	0.61	0.6126	87	1.95	1.2	108.9	21.9	21.9	0.54	0.25	1.19	0.69
998	0.61	0.6123	88	1.95	1.2	109.0	21.9	21.9	0.54	0.25	1.19	0.69
999	0.61	0.612	88	1.94	1.2	108.7	22.1	22.1	0.54	0.25	1.19	0.69
1000	0.61	0.6117	86	1.95	1.2	106.7	21.5	21.5	0.54	0.25	1.19	0.69
1001	0.61	0.6114	83	1.96	1.3	104.6	20.8	20.8	0.54	0.25	1.19	0.69
1002	0.61	0.6111	81	1.98	1.3	104.0	20.3	20.3	0.54	0.24	1.19	0.69
1003	0.61	0.6108	76	2.03	1.3	102.3	19.0	19.0	0.54	0.24	1.19	0.69
1004	0.61	0.6105	70	2.09	1.4	100.8	17.5	17.5	0.54	0.24	1.19	0.69
1005	0.61	0.6102	63	2.17	1.6	99.8	15.7	15.7	0.54	0.24	1.19	0.69
1006	0.61	0.6099	57	2.24	1.8	101.7	14.3	14.3	0.54	0.24	1.19	0.69
1007	0.61	0.6096	48	2.37	2.2	107.1	12.1	12.1	0.54	0.24	1.19	0.69
1008	0.50	0.4997	36	2.50	2.8	98.8	9.0	9.0	0.54	0.24	1.19	0.69
1009	0.50	0.4994	33	2.55	3.0	100.4	8.3	8.3	0.54	0.24	1.19	0.69
1010	0.50	0.499	27	2.67	3.8	103.7	6.9	99.0	0.54	0.24	1.19	0.69
1011	0.50	0.4987	23	2.73	4.3	97.2	5.7	99.0	0.54	0.24	1.19	0.69
1012	0.50	0.4983	20	2.77	4.5	92.8	5.1	99.0	0.54	0.24	1.19	0.69
1013	0.50	0.498	18	2.83	5.0	91.0	4.5	99.0	0.54	0.24	1.19	0.69
1014	0.50	0.4976	18	2.84	5.1	90.7	4.4	99.0	0.54	0.24	1.19	0.69
1015	0.50	0.4973	19	2.76	4.5	86.0	4.8	99.0	0.54	0.24	1.19	0.69
1016	0.50	0.4969	23	2.64	3.6	83.4	5.8	99.0	0.54	0.24	1.19	0.69
1017	0.50	0.4966	27	2.56	3.1	82.0	6.7	6.7	0.54	0.24	1.19	0.69
1018	0.50	0.4963	29	2.48	2.7	76.7	7.2	7.2	0.54	0.24	1.19	0.69
1019	0.61	0.606	34	2.39	2.3	77.3	8.6	8.6	0.54	0.24	1.19	0.69
1020	0.61	0.6057	34	2.36	2.1	73.8	8.6	8.6	0.54	0.24	1.19	0.69
1021	0.50	0.4952	26	2.49	2.7	71.3	6.5	6.5	0.54	0.24	1.19	0.69
1022	0.49	0.4949	24	2.55	3.0	71.7	5.9	5.9	0.54	0.24	1.19	0.69
1023	0.49	0.4946	21	2.60	3.3	68.5	5.2	5.2	0.54	0.24	1.19	0.69
1024	0.49	0.4942	18	2.66	3.7	64.9	4.4	99.0	0.54	0.24	1.19	0.69
1025	0.49	0.4939	16	2.63	3.5	56.7	4.1	99.0	0.54	0.24	1.19	0.69
1026	0.49	0.4936	14	2.65	3.6	51.2	3.5	99.0	0.54	0.24	1.19	0.69
1027	0.49	0.4932	12	2.73	4.2	48.5	2.9	99.0	0.54	0.24	1.19	0.69
1028	0.49	0.4929	10	2.83	5.0	48.0	2.4	99.0	0.54	0.24	1.19	0.69
1029	0.49	0.4925	9	2.90	5.7	48.7	2.1	99.0	0.54	0.24	1.19	0.69
1030	0.49	0.4922	8	2.94	6.1	49.4	2.0	99.0	0.53	0.24	1.19	0.69
1031	0.49	0.4919	8	2.99	6.7	53.1	2.0	99.0	0.53	0.24	1.19	0.69
1032	0.49	0.4915	8	3.01	6.8	54.2	2.0	99.0	0.53	0.24	1.19	0.69
1033	0.49	0.4912	9	3.00	6.7	57.2	2.1	99.0	0.53	0.24	1.19	0.69
1034	0.49	0.4909	9	3.00	6.7	61.6	2.3	99.0	0.53	0.24	1.19	0.69
1035	0.49	0.4905	10	3.01	6.8	66.3	2.4	99.0	0.53	0.24	1.19	0.69
1036	0.49	0.4902	10	3.03	7.0	68.4	2.4	99.0	0.53	0.24	1.19	0.69
1037	0.49	0.4899	10	3.02	7.0	68.9	2.5	99.0	0.53	0.24	1.19	0.69
1038	0.49	0.4896	11	2.98	6.5	69.5	2.7	99.0	0.53	0.24	1.19	0.69
1039	0.49	0.4892	14	2.78	4.6	62.6	3.4	99.0	0.53	0.24	1.19	0.69
1040	0.49	0.4889	15	2.68	3.9	57.6	3.7	99.0	0.53	0.24	1.19	0.69
1041	0.49	0.4886	12	2.78	4.6	56.8	3.1	99.0	0.53	0.24	1.19	0.69
1042	0.49	0.4882	10	2.91	5.8	57.0	2.5	99.0	0.53	0.24	1.19	0.69
1043	0.49	0.4879	9	3.02	7.0	62.1	2.2	99.0	0.53	0.24	1.19	0.69
1044	0.49	0.4876	10	2.99	6.6	65.0	2.5	99.0	0.53	0.24	1.19	0.69
1045	0.49	0.4873	11	2.94	6.1	67.1	2.7	99.0	0.53	0.24	1.19	0.68

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
1046	0.49	0.4869	11	2.96	6.3	71.5	2.8	99.0	0.53	0.24	1.19	0.68
1047	0.49	0.4866	12	2.95	6.2	75.1	3.0	99.0	0.53	0.24	1.19	0.68
1048	0.49	0.4863	12	2.99	6.6	81.9	3.1	99.0	0.53	0.24	1.19	0.68
1049	0.49	0.486	13	2.99	6.6	84.7	3.2	99.0	0.53	0.24	1.19	0.68
1050	0.49	0.4856	13	2.99	6.6	86.5	3.3	99.0	0.53	0.24	1.19	0.68
1051	0.49	0.4853	14	2.97	6.4	87.4	3.4	99.0	0.53	0.24	1.19	0.68
1052	0.48	0.485	14	2.96	6.3	89.1	3.5	99.0	0.53	0.24	1.19	0.68
1053	0.48	0.4847	14	2.97	6.4	90.8	3.5	99.0	0.53	0.24	1.19	0.68
1054	0.48	0.4843	14	2.95	6.2	87.4	3.5	99.0	0.53	0.24	1.19	0.68
1055	0.48	0.484	14	2.96	6.3	86.8	3.4	99.0	0.53	0.24	1.19	0.68
1056	0.48	0.4837	14	2.95	6.2	87.4	3.5	99.0	0.53	0.24	1.19	0.68
1057	0.48	0.4834	14	2.96	6.3	86.9	3.5	99.0	0.53	0.24	1.19	0.68
1058	0.48	0.4831	13	2.97	6.5	85.7	3.3	99.0	0.53	0.24	1.19	0.68
1059	0.48	0.4827	13	2.99	6.7	83.9	3.2	99.0	0.53	0.24	1.19	0.68
1060	0.48	0.4824	13	2.98	6.5	82.6	3.2	99.0	0.53	0.24	1.19	0.68
1061	0.48	0.4821	13	2.98	6.6	82.4	3.1	99.0	0.53	0.24	1.19	0.68
1062	0.48	0.4818	12	3.00	6.7	80.9	3.0	99.0	0.53	0.24	1.19	0.68
1063	0.48	0.4815	11	3.02	7.0	79.0	2.8	99.0	0.53	0.24	1.19	0.68
1064	0.48	0.4811	11	3.05	7.3	79.1	2.7	99.0	0.53	0.24	1.19	0.68
1065	0.48	0.4808	11	3.03	7.0	76.9	2.7	99.0	0.53	0.24	1.19	0.68
1066	0.48	0.4805	11	3.03	7.0	76.6	2.7	99.0	0.53	0.24	1.19	0.68
1067	0.48	0.4802	14	2.87	5.4	74.8	3.5	99.0	0.53	0.24	1.19	0.68
1068	0.48	0.4799	21	2.66	3.7	79.7	5.4	99.0	0.53	0.24	1.19	0.68
1069	0.48	0.4796	30	2.50	2.8	83.9	7.5	7.5	0.53	0.24	1.19	0.68
1070	0.48	0.4793	35	2.47	2.6	90.2	8.7	8.7	0.53	0.24	1.19	0.68
1071	0.48	0.4789	35	2.52	2.9	102.0	8.9	8.9	0.53	0.24	1.19	0.68
1072	0.59	0.5908	50	2.31	2.0	100.4	12.6	12.6	0.53	0.24	1.19	0.68
1073	0.59	0.5905	69	2.08	1.4	97.6	17.2	17.2	0.53	0.24	1.19	0.68
1074	0.59	0.5902	83	1.96	1.2	103.1	20.7	20.7	0.52	0.24	1.19	0.68
1075	0.59	0.59	71	2.09	1.4	101.2	17.7	17.7	0.52	0.24	1.19	0.68
1076	0.59	0.5897	52	2.29	1.9	99.4	13.0	13.0	0.52	0.24	1.19	0.68
1077	0.48	0.4771	31	2.53	2.9	89.6	7.7	7.7	0.52	0.24	1.19	0.68
1078	0.48	0.4768	23	2.70	4.0	93.5	5.9	99.0	0.52	0.24	1.19	0.68
1079	0.48	0.4765	18	2.87	5.4	97.4	4.5	99.0	0.52	0.24	1.19	0.68
1080	0.48	0.4761	15	2.96	6.3	95.6	3.8	99.0	0.52	0.24	1.19	0.68
1081	0.48	0.4758	11	3.10	7.9	87.6	2.8	99.0	0.52	0.24	1.19	0.68
1082	0.48	0.4755	10	3.11	8.1	77.5	2.4	99.0	0.52	0.24	1.19	0.68
1083	0.48	0.4752	9	3.08	7.7	71.7	2.3	99.0	0.52	0.24	1.19	0.68
1084	0.47	0.4749	9	2.92	5.9	53.7	2.3	99.0	0.52	0.24	1.19	0.68
1085	0.47	0.4746	9	2.88	5.6	49.5	2.2	99.0	0.52	0.24	1.19	0.68
1086	0.47	0.4743	9	2.86	5.3	47.2	2.2	99.0	0.52	0.24	1.19	0.68
1087	0.47	0.474	9	2.83	5.0	45.0	2.2	99.0	0.52	0.24	1.19	0.68
1088	0.47	0.4737	9	2.81	4.9	44.1	2.3	99.0	0.52	0.24	1.19	0.68
1089	0.47	0.4734	8	2.88	5.5	45.8	2.1	99.0	0.52	0.24	1.19	0.68
1090	0.47	0.4731	8	2.89	5.6	44.8	2.0	99.0	0.52	0.24	1.19	0.68
1091	0.47	0.4728	7	2.93	6.0	44.8	1.9	99.0	0.52	0.24	1.19	0.68
1092	0.47	0.4725	7	2.94	6.1	45.0	1.8	99.0	0.52	0.24	1.19	0.68
1093	0.47	0.4722	7	2.96	6.3	46.7	1.8	99.0	0.52	0.24	1.19	0.68
1094	0.47	0.4719	7	2.97	6.4	46.4	1.8	99.0	0.52	0.24	1.19	0.68
1095	0.47	0.4716	7	2.98	6.5	46.6	1.8	99.0	0.52	0.24	1.19	0.68
1096	0.47	0.4713	7	2.97	6.4	46.9	1.8	99.0	0.52	0.24	1.19	0.68
1097	0.47	0.471	7	2.98	6.5	46.8	1.8	99.0	0.52	0.24	1.19	0.68
1098	0.47	0.4707	7	3.01	6.8	46.9	1.7	99.0	0.52	0.24	1.19	0.68
1099	0.47	0.4704	7	3.01	6.8	47.0	1.7	99.0	0.52	0.24	1.19	0.68
1100	0.47	0.4701	7	2.99	6.6	46.2	1.7	99.0	0.52	0.24	1.19	0.68
1101	0.47	0.4698	7	2.96	6.3	45.5	1.8	99.0	0.52	0.24	1.19	0.68
1102	0.47	0.4695	7	2.95	6.2	45.4	1.8	99.0	0.52	0.24	1.19	0.68
1103	0.47	0.4692	7	2.95	6.2	45.6	1.8	99.0	0.52	0.24	1.19	0.68
1104	0.47	0.4689	8	2.92	5.9	45.2	1.9	99.0	0.52	0.24	1.19	0.68
1105	0.47	0.4686	8	2.92	5.9	44.8	1.9	99.0	0.52	0.24	1.19	0.68
1106	0.47	0.4683	8	2.91	5.8	44.2	1.9	99.0	0.52	0.24	1.19	0.68
1107	0.47	0.468	7	2.92	5.9	43.9	1.9	99.0	0.52	0.24	1.19	0.68
1108	0.47	0.4677	7	2.92	5.9	43.1	1.8	99.0	0.52	0.24	1.19	0.68
1109	0.47	0.4674	7	2.92	5.9	42.6	1.8	99.0	0.52	0.24	1.19	0.68
1110	0.47	0.4671	7	2.91	5.8	42.2	1.8	99.0	0.52	0.24	1.19	0.68
1111	0.47	0.4668	7	2.89	5.6	39.7	1.8	99.0	0.52	0.24	1.19	0.68
1112	0.47	0.4665	7	2.90	5.7	40.6	1.8	99.0	0.52	0.24	1.19	0.68
1113	0.47	0.4662	7	2.91	5.8	40.7	1.7	99.0	0.52	0.24	1.19	0.68
1114	0.47	0.4659	7	2.93	6.0	40.6	1.7	99.0	0.52	0.24	1.19	0.68
1115	0.47	0.4656	7	2.93	6.0	40.3	1.7	99.0	0.52	0.24	1.19	0.68

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
1116	0.47	0.4653	7	2.94	6.1	40.4	1.6	99.0	0.52	0.24	1.19	0.68
1117	0.47	0.4651	7	2.95	6.2	40.4	1.6	99.0	0.52	0.24	1.19	0.68
1118	0.46	0.4648	6	2.95	6.3	40.3	1.6	99.0	0.52	0.24	1.19	0.68
1119	0.46	0.4645	6	2.96	6.4	40.7	1.6	99.0	0.52	0.24	1.19	0.68
1120	0.46	0.4642	6	2.97	6.4	41.1	1.6	99.0	0.52	0.24	1.19	0.68
1121	0.46	0.4639	6	2.95	6.2	39.9	1.6	99.0	0.52	0.24	1.19	0.68
1122	0.46	0.4636	7	2.93	6.0	39.7	1.6	99.0	0.52	0.24	1.19	0.68
1123	0.46	0.4633	7	2.92	5.9	39.6	1.7	99.0	0.52	0.24	1.19	0.68
1124	0.46	0.463	7	2.90	5.7	39.3	1.7	99.0	0.51	0.24	1.19	0.68
1125	0.46	0.4627	7	2.90	5.7	38.8	1.7	99.0	0.51	0.24	1.19	0.68
1126	0.46	0.4624	7	2.91	5.8	38.9	1.7	99.0	0.51	0.24	1.19	0.68
1127	0.46	0.4622	6	2.95	6.2	39.3	1.6	99.0	0.51	0.24	1.19	0.68
1128	0.46	0.4619	6	2.97	6.4	40.2	1.6	99.0	0.51	0.24	1.19	0.68
1129	0.46	0.4616	6	2.95	6.2	39.5	1.6	99.0	0.51	0.23	1.19	0.68
1130	0.46	0.4613	6	2.94	6.1	38.9	1.6	99.0	0.51	0.23	1.19	0.68
1131	0.46	0.461	6	2.96	6.3	39.4	1.6	99.0	0.51	0.23	1.19	0.68
1132	0.46	0.4607	6	2.96	6.3	39.6	1.6	99.0	0.51	0.23	1.19	0.68
1133	0.46	0.4604	6	2.96	6.3	39.7	1.6	99.0	0.51	0.23	1.19	0.68
1134	0.46	0.4602	6	2.95	6.2	39.4	1.6	99.0	0.51	0.23	1.19	0.68
1135	0.46	0.4599	7	2.92	5.9	39.7	1.7	99.0	0.51	0.23	1.19	0.68
1136	0.46	0.4596	6	2.96	6.3	39.7	1.6	99.0	0.51	0.23	1.19	0.68
1137	0.46	0.4593	6	2.99	6.7	41.8	1.6	99.0	0.51	0.23	1.19	0.68
1138	0.46	0.459	6	3.00	6.7	42.3	1.6	99.0	0.51	0.23	1.19	0.68
1139	0.46	0.4587	6	3.00	6.8	44.0	1.6	99.0	0.51	0.23	1.19	0.68
1140	0.46	0.4585	7	2.88	5.5	38.1	1.7	99.0	0.51	0.23	1.19	0.68
1141	0.46	0.4582	7	2.90	5.7	42.3	1.8	99.0	0.51	0.23	1.19	0.68
1142	0.46	0.4579	11	2.86	5.3	56.0	2.7	99.0	0.51	0.23	1.19	0.68
1143	0.46	0.4576	18	2.61	3.4	60.4	4.5	99.0	0.51	0.23	1.19	0.68
1144	0.46	0.4573	23	2.55	3.0	69.8	5.7	5.7	0.51	0.23	1.19	0.68
1145	0.46	0.4571	25	2.53	2.9	72.7	6.3	6.3	0.51	0.23	1.19	0.68
1146	0.46	0.4568	29	2.55	3.0	87.1	7.2	7.2	0.51	0.23	1.19	0.68
1147	0.46	0.4565	29	2.58	3.2	94.9	7.3	7.3	0.51	0.23	1.19	0.68
1148	0.46	0.4562	27	2.65	3.6	97.2	6.7	99.0	0.51	0.23	1.19	0.68
1149	0.46	0.4559	23	2.77	4.5	102.2	5.6	99.0	0.51	0.23	1.19	0.68
1150	0.46	0.4557	20	2.88	5.5	108.0	4.9	99.0	0.51	0.23	1.19	0.68
1151	0.46	0.4554	22	2.77	4.5	100.9	5.6	99.0	0.51	0.23	1.19	0.68
1152	0.46	0.4551	25	2.68	3.9	98.0	6.3	99.0	0.51	0.23	1.19	0.68
1153	0.45	0.4548	30	2.57	3.2	95.4	7.5	7.5	0.51	0.23	1.19	0.68
1154	0.45	0.4546	34	2.57	3.2	105.6	8.4	8.4	0.51	0.23	1.19	0.68
1155	0.45	0.4543	36	2.50	2.8	99.5	9.0	9.0	0.51	0.23	1.19	0.68
1156	0.45	0.454	32	2.56	3.1	97.1	7.9	7.9	0.51	0.23	1.19	0.68
1157	0.45	0.4537	31	2.53	2.9	89.3	7.7	7.7	0.51	0.23	1.19	0.68
1158	0.57	0.5684	52	2.22	1.7	89.0	13.0	13.0	0.51	0.23	1.19	0.68
1159	0.57	0.5682	67	2.05	1.4	91.3	16.7	16.7	0.51	0.23	1.19	0.68
1160	0.57	0.5679	65	2.10	1.5	93.6	16.1	16.1	0.51	0.23	1.19	0.68
1161	0.57	0.5677	52	2.23	1.7	90.2	13.0	13.0	0.51	0.23	1.19	0.67
1162	0.45	0.4524	31	2.46	2.6	80.8	7.8	7.8	0.51	0.23	1.19	0.67
1163	0.45	0.4521	21	2.71	4.1	84.3	5.2	99.0	0.51	0.23	1.19	0.67
1164	0.45	0.4518	14	2.98	6.5	88.5	3.4	99.0	0.51	0.23	1.19	0.67
1165	0.45	0.4516	11	3.11	8.1	87.8	2.7	99.0	0.51	0.23	1.19	0.67
1166	0.45	0.4513	10	3.05	7.3	75.7	2.6	99.0	0.51	0.23	1.19	0.67
1167	0.45	0.451	11	2.97	6.4	68.3	2.7	99.0	0.51	0.23	1.19	0.67
1168	0.45	0.4507	10	2.98	6.5	66.6	2.6	99.0	0.51	0.23	1.19	0.67
1169	0.45	0.4505	10	2.91	5.8	57.6	2.5	99.0	0.51	0.23	1.19	0.67
1170	0.45	0.4502	12	2.80	4.7	59.1	3.1	99.0	0.51	0.23	1.19	0.67
1171	0.45	0.4499	17	2.68	3.9	65.1	4.2	99.0	0.51	0.23	1.19	0.67
1172	0.45	0.4497	23	2.54	3.0	67.5	5.7	5.7	0.51	0.23	1.19	0.67
1173	0.45	0.4494	23	2.57	3.1	72.7	5.8	5.8	0.51	0.23	1.19	0.67
1174	0.45	0.4491	19	2.70	4.0	76.0	4.8	99.0	0.51	0.23	1.19	0.67
1175	0.45	0.4489	15	2.86	5.3	78.9	3.7	99.0	0.51	0.23	1.19	0.67
1176	0.45	0.4486	11	3.02	7.0	77.3	2.8	99.0	0.51	0.23	1.19	0.67
1177	0.45	0.4483	10	3.07	7.5	72.7	2.4	99.0	0.51	0.23	1.19	0.67
1178	0.45	0.4481	9	3.02	7.0	63.9	2.3	99.0	0.51	0.23	1.19	0.67
1179	0.45	0.4478	9	2.94	6.1	52.3	2.2	99.0	0.51	0.23	1.19	0.67
1180	0.45	0.4475	8	2.94	6.2	50.1	2.0	99.0	0.51	0.23	1.19	0.67
1181	0.45	0.4473	8	2.96	6.3	49.7	2.0	99.0	0.51	0.23	1.19	0.67
1182	0.45	0.447	8	2.95	6.2	48.4	1.9	99.0	0.50	0.23	1.19	0.67
1183	0.45	0.4467	8	2.94	6.1	47.5	1.9	99.0	0.50	0.23	1.19	0.67
1184	0.45	0.4465	8	2.94	6.1	47.0	1.9	99.0	0.50	0.23	1.19	0.67
1185	0.45	0.4462	7	2.98	6.5	47.2	1.8	99.0	0.50	0.23	1.19	0.67

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
1186	0.45	0.4459	7	2.98	6.5	46.6	1.8	99.0	0.50	0.23	1.19	0.67
1187	0.45	0.4457	7	2.96	6.3	47.0	1.9	99.0	0.50	0.23	1.19	0.67
1188	0.45	0.4454	7	2.96	6.3	46.6	1.9	99.0	0.50	0.23	1.19	0.67
1189	0.45	0.4452	7	2.98	6.6	46.5	1.8	99.0	0.50	0.23	1.19	0.67
1190	0.44	0.4449	7	2.96	6.3	46.3	1.8	99.0	0.50	0.23	1.19	0.67
1191	0.44	0.4446	8	2.93	6.0	46.9	2.0	99.0	0.50	0.23	1.19	0.67
1192	0.44	0.4444	8	2.89	5.6	45.2	2.0	99.0	0.50	0.23	1.19	0.67
1193	0.44	0.4441	8	2.90	5.7	45.7	2.0	99.0	0.50	0.23	1.19	0.67
1194	0.44	0.4439	8	2.86	5.4	45.3	2.1	99.0	0.50	0.23	1.19	0.67
1195	0.44	0.4436	8	2.88	5.5	45.2	2.1	99.0	0.50	0.23	1.19	0.67
1196	0.44	0.4433	8	2.91	5.8	44.4	1.9	99.0	0.50	0.23	1.19	0.67
1197	0.44	0.4431	7	2.94	6.1	44.0	1.8	99.0	0.50	0.23	1.19	0.67
1198	0.44	0.4428	7	2.94	6.1	44.0	1.8	99.0	0.50	0.23	1.19	0.67
1199	0.44	0.4426	7	2.91	5.8	42.6	1.8	99.0	0.50	0.23	1.19	0.67
1200	0.44	0.4423	7	2.91	5.8	41.6	1.8	99.0	0.50	0.23	1.19	0.67
1201	0.44	0.442	7	2.92	5.8	41.3	1.8	99.0	0.50	0.23	1.19	0.67
1202	0.44	0.4418	7	2.94	6.1	41.5	1.7	99.0	0.50	0.23	1.19	0.67
1203	0.44	0.4415	7	2.93	6.0	41.1	1.7	99.0	0.50	0.23	1.19	0.67
1204	0.44	0.4413	7	2.94	6.1	41.3	1.7	99.0	0.50	0.23	1.19	0.67
1205	0.44	0.441	7	2.93	6.0	40.6	1.7	99.0	0.50	0.23	1.19	0.67
1206	0.44	0.4408	7	2.93	6.0	40.8	1.7	99.0	0.50	0.23	1.19	0.67
1207	0.44	0.4405	7	2.93	6.0	41.5	1.7	99.0	0.50	0.23	1.19	0.67
1208	0.44	0.4402	7	2.91	5.8	41.2	1.8	99.0	0.50	0.23	1.19	0.67
1209	0.44	0.44	7	2.90	5.7	40.7	1.8	99.0	0.50	0.23	1.19	0.67
1210	0.44	0.4397	7	2.93	6.0	41.5	1.7	99.0	0.50	0.23	1.19	0.67
1211	0.44	0.4395	7	2.92	5.9	41.3	1.7	99.0	0.50	0.23	1.19	0.67
1212	0.44	0.4392	7	2.94	6.1	41.5	1.7	99.0	0.50	0.23	1.19	0.67
1213	0.44	0.439	7	2.94	6.1	41.4	1.7	99.0	0.50	0.23	1.19	0.67
1214	0.44	0.4387	7	2.95	6.2	41.7	1.7	99.0	0.50	0.23	1.19	0.67
1215	0.44	0.4385	7	2.93	6.0	41.2	1.7	99.0	0.50	0.23	1.19	0.67
1216	0.44	0.4382	7	2.91	5.8	40.8	1.8	99.0	0.50	0.23	1.19	0.67
1217	0.44	0.438	7	2.93	6.0	41.4	1.7	99.0	0.50	0.23	1.19	0.67
1218	0.44	0.4377	7	2.89	5.6	41.7	1.9	99.0	0.50	0.23	1.19	0.67
1219	0.44	0.4375	8	2.88	5.5	42.5	1.9	99.0	0.50	0.23	1.19	0.67
1220	0.44	0.4372	8	2.87	5.4	43.0	2.0	99.0	0.50	0.23	1.19	0.67
1221	0.44	0.437	8	2.90	5.7	43.8	1.9	99.0	0.50	0.23	1.19	0.67
1222	0.44	0.4367	8	2.90	5.7	44.0	1.9	99.0	0.50	0.23	1.19	0.67
1223	0.44	0.4365	8	2.94	6.1	46.4	1.9	99.0	0.50	0.23	1.19	0.67
1224	0.44	0.4362	7	2.96	6.3	45.4	1.8	99.0	0.50	0.23	1.19	0.67
1225	0.44	0.436	7	2.92	5.9	42.7	1.8	99.0	0.50	0.23	1.19	0.67
1226	0.44	0.4357	7	2.93	6.0	43.3	1.8	99.0	0.50	0.23	1.19	0.67
1227	0.44	0.4355	8	2.90	5.7	44.7	2.0	99.0	0.50	0.23	1.19	0.67
1228	0.44	0.4352	8	2.86	5.4	45.4	2.1	99.0	0.50	0.23	1.19	0.67
1229	0.43	0.435	9	2.87	5.4	48.0	2.2	99.0	0.50	0.23	1.19	0.67
1230	0.43	0.4347	9	2.87	5.4	48.3	2.2	99.0	0.50	0.23	1.19	0.67
1231	0.43	0.4345	9	2.93	6.0	53.2	2.2	99.0	0.50	0.23	1.19	0.67
1232	0.43	0.4342	9	2.94	6.1	54.0	2.2	99.0	0.50	0.23	1.19	0.67
1233	0.43	0.434	9	2.92	5.8	53.3	2.3	99.0	0.50	0.23	1.19	0.67
1234	0.43	0.4337	10	2.87	5.4	53.2	2.4	99.0	0.50	0.23	1.19	0.67
1235	0.43	0.4335	11	2.84	5.1	54.0	2.6	99.0	0.50	0.23	1.19	0.67
1236	0.43	0.4332	11	2.83	5.0	53.3	2.6	99.0	0.50	0.23	1.19	0.67
1237	0.43	0.433	10	2.87	5.5	52.9	2.4	99.0	0.50	0.23	1.19	0.67
1238	0.43	0.4327	9	2.94	6.1	53.3	2.2	99.0	0.50	0.23	1.19	0.67
1239	0.43	0.4325	8	3.00	6.7	52.8	2.0	99.0	0.50	0.23	1.19	0.67
1240	0.43	0.4323	7	3.02	7.0	51.1	1.8	99.0	0.50	0.23	1.19	0.67
1241	0.43	0.432	7	3.01	6.9	49.4	1.8	99.0	0.50	0.23	1.19	0.67
1242	0.43	0.4318	7	2.96	6.3	46.5	1.9	99.0	0.50	0.23	1.19	0.67
1243	0.43	0.4315	7	2.93	6.0	44.6	1.9	99.0	0.50	0.23	1.19	0.67
1244	0.43	0.4313	8	2.90	5.7	44.0	1.9	99.0	0.50	0.23	1.19	0.67
1245	0.43	0.431	8	2.91	5.8	43.5	1.9	99.0	0.50	0.23	1.19	0.67
1246	0.43	0.4308	7	2.92	5.9	43.5	1.8	99.0	0.50	0.23	1.19	0.67
1247	0.43	0.4306	7	2.92	5.9	43.6	1.9	99.0	0.50	0.23	1.19	0.67
1248	0.43	0.4303	7	2.93	6.0	44.1	1.8	99.0	0.49	0.23	1.19	0.67
1249	0.43	0.4301	7	2.92	5.9	43.5	1.8	99.0	0.49	0.23	1.19	0.67
1250	0.43	0.4298	7	2.92	5.9	42.6	1.8	99.0	0.49	0.23	1.19	0.67
1251	0.43	0.4296	7	2.91	5.8	42.6	1.8	99.0	0.49	0.23	1.19	0.67
1252	0.43	0.4294	7	2.91	5.8	43.0	1.9	99.0	0.49	0.23	1.19	0.67
1253	0.43	0.4291	8	2.90	5.7	43.1	1.9	99.0	0.49	0.23	1.19	0.67
1254	0.43	0.4289	7	2.91	5.8	42.9	1.9	99.0	0.49	0.23	1.19	0.67
1255	0.43	0.4286	7	2.93	6.0	43.4	1.8	99.0	0.49	0.23	1.19	0.67

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
1256	0.43	0.4284	7	2.92	5.9	43.4	1.8	99.0	0.49	0.23	1.19	0.67
1257	0.43	0.4282	7	2.93	6.0	43.8	1.8	99.0	0.49	0.23	1.19	0.67
1258	0.43	0.4279	7	2.92	5.9	43.4	1.8	99.0	0.49	0.23	1.19	0.67
1259	0.43	0.4277	7	2.93	6.0	43.2	1.8	99.0	0.49	0.23	1.19	0.67
1260	0.43	0.4274	7	2.92	5.9	42.8	1.8	99.0	0.49	0.23	1.19	0.67
1261	0.43	0.4272	7	2.90	5.7	42.3	1.9	99.0	0.49	0.23	1.19	0.67
1262	0.43	0.427	8	2.88	5.5	42.1	1.9	99.0	0.49	0.23	1.19	0.67
1263	0.43	0.4267	8	2.87	5.4	42.1	1.9	99.0	0.49	0.23	1.19	0.67
1264	0.43	0.4265	7	2.91	5.8	43.0	1.9	99.0	0.49	0.23	1.19	0.67
1265	0.43	0.4263	7	2.93	6.0	43.4	1.8	99.0	0.49	0.23	1.19	0.67
1266	0.43	0.426	7	2.93	6.0	43.1	1.8	99.0	0.49	0.23	1.19	0.67
1267	0.43	0.4258	7	2.92	5.9	43.1	1.8	99.0	0.49	0.23	1.19	0.67
1268	0.43	0.4256	7	2.91	5.8	42.7	1.8	99.0	0.49	0.23	1.19	0.67
1269	0.43	0.4253	8	2.91	5.8	43.3	1.9	99.0	0.49	0.23	1.19	0.67
1270	0.43	0.4251	8	2.92	5.9	44.4	1.9	99.0	0.49	0.23	1.19	0.67
1271	0.42	0.4249	7	2.93	6.0	44.3	1.8	99.0	0.49	0.23	1.19	0.67
1272	0.42	0.4246	7	2.93	6.0	44.5	1.9	99.0	0.49	0.23	1.19	0.67
1273	0.42	0.4244	8	2.92	5.9	45.4	1.9	99.0	0.49	0.23	1.19	0.67
1274	0.42	0.4242	8	2.91	5.8	46.1	2.0	99.0	0.49	0.23	1.19	0.67
1275	0.42	0.4239	8	2.86	5.3	45.3	2.1	99.0	0.49	0.23	1.19	0.68
1276	0.42	0.4237	9	2.92	5.9	50.7	2.2	99.0	0.49	0.23	1.19	0.68
1277	0.42	0.4235	9	2.90	5.7	50.0	2.2	99.0	0.49	0.23	1.19	0.68
1278	0.42	0.4232	9	2.87	5.5	47.8	2.2	99.0	0.49	0.23	1.19	0.68
1279	0.42	0.423	9	2.82	4.9	46.7	2.4	99.0	0.49	0.23	1.19	0.68
1280	0.42	0.4228	15	2.67	3.8	58.3	3.8	99.0	0.49	0.23	1.19	0.68
1281	0.42	0.4225	21	2.54	3.0	63.2	5.3	5.3	0.49	0.23	1.19	0.68
1282	0.42	0.4223	21	2.59	3.2	68.7	5.3	5.3	0.49	0.23	1.19	0.68
1283	0.42	0.4221	15	2.85	5.2	80.5	3.9	99.0	0.49	0.23	1.19	0.68
1284	0.42	0.4218	18	2.83	5.0	88.5	4.4	99.0	0.49	0.23	1.19	0.68
1285	0.42	0.4216	30	2.51	2.8	84.7	7.4	7.4	0.49	0.23	1.19	0.68
1286	0.54	0.5394	61	2.13	1.5	92.3	15.3	15.3	0.49	0.23	1.19	0.68
1287	0.54	0.5392	74	2.03	1.3	99.3	18.5	18.5	0.49	0.23	1.19	0.68
1288	0.54	0.539	69	2.10	1.5	100.2	17.2	17.2	0.49	0.23	1.19	0.68
1289	0.54	0.5388	60	2.22	1.7	103.0	15.0	15.0	0.49	0.23	1.19	0.68
1290	0.54	0.5386	50	2.36	2.2	109.0	12.5	12.5	0.49	0.23	1.19	0.68
1291	0.42	0.4202	31	2.60	3.3	102.4	7.8	7.8	0.49	0.23	1.19	0.68
1292	0.42	0.42	23	2.76	4.5	101.5	5.7	99.0	0.49	0.23	1.19	0.68
1293	0.42	0.4198	17	2.91	5.8	99.0	4.3	99.0	0.49	0.23	1.19	0.68
1294	0.42	0.4196	13	3.03	7.1	91.8	3.3	99.0	0.49	0.23	1.19	0.68
1295	0.42	0.4193	12	2.96	6.4	77.1	3.0	99.0	0.49	0.23	1.19	0.68
1296	0.42	0.4191	11	2.92	5.9	64.9	2.7	99.0	0.49	0.23	1.19	0.68
1297	0.42	0.4189	10	2.86	5.3	54.0	2.5	99.0	0.49	0.23	1.19	0.68
1298	0.42	0.4186	9	2.90	5.7	50.6	2.2	99.0	0.49	0.23	1.19	0.68
1299	0.42	0.4184	8	2.97	6.4	51.0	2.0	99.0	0.49	0.23	1.19	0.68
1300	0.42	0.4182	8	2.98	6.5	50.0	1.9	99.0	0.49	0.23	1.19	0.68
1301	0.42	0.418	8	2.97	6.4	49.2	1.9	99.0	0.49	0.23	1.19	0.68
1302	0.42	0.4177	8	2.95	6.2	48.3	1.9	99.0	0.49	0.23	1.19	0.68
1303	0.42	0.4175	8	2.95	6.2	48.6	2.0	99.0	0.49	0.23	1.19	0.68
1304	0.42	0.4173	8	2.98	6.5	51.1	2.0	99.0	0.49	0.23	1.19	0.68
1305	0.42	0.4171	8	2.96	6.3	52.0	2.1	99.0	0.49	0.23	1.19	0.68
1306	0.42	0.4169	9	2.92	5.9	52.0	2.2	99.0	0.49	0.23	1.19	0.68
1307	0.42	0.4166	9	2.90	5.7	53.5	2.3	99.0	0.49	0.23	1.19	0.68
1308	0.42	0.4164	9	2.94	6.1	56.7	2.3	99.0	0.49	0.23	1.19	0.68
1309	0.42	0.4162	9	2.98	6.6	59.1	2.2	99.0	0.49	0.23	1.19	0.68
1310	0.42	0.416	9	2.99	6.6	61.6	2.3	99.0	0.49	0.23	1.19	0.68
1311	0.42	0.4157	10	2.98	6.5	64.5	2.5	99.0	0.49	0.23	1.19	0.68
1312	0.42	0.4155	12	2.97	6.4	73.9	2.9	99.0	0.49	0.23	1.19	0.68
1313	0.42	0.4153	17	2.84	5.1	84.4	4.1	99.0	0.49	0.23	1.19	0.68
1314	0.42	0.4151	24	2.68	3.8	90.9	5.9	99.0	0.49	0.23	1.19	0.68
1315	0.41	0.4149	34	2.49	2.7	91.4	8.4	8.4	0.49	0.23	1.19	0.68
1316	0.41	0.4146	31	2.50	2.8	86.8	7.8	7.8	0.49	0.23	1.19	0.68
1317	0.41	0.4144	28	2.57	3.1	87.3	7.0	7.0	0.49	0.22	1.19	0.68
1318	0.41	0.4142	25	2.61	3.4	86.1	6.4	99.0	0.49	0.22	1.19	0.68
1319	0.41	0.414	20	2.75	4.4	87.6	5.0	99.0	0.49	0.22	1.19	0.68
1320	0.41	0.4138	16	2.86	5.3	85.3	4.0	99.0	0.49	0.22	1.19	0.68
1321	0.41	0.4135	13	2.97	6.4	81.1	3.1	99.0	0.49	0.22	1.19	0.68
1322	0.41	0.4133	10	3.07	7.6	78.3	2.6	99.0	0.49	0.22	1.19	0.68
1323	0.41	0.4131	10	3.08	7.6	73.3	2.4	99.0	0.49	0.22	1.19	0.68
1324	0.41	0.4129	9	3.06	7.5	65.9	2.2	99.0	0.48	0.22	1.19	0.68
1325	0.41	0.4127	8	3.05	7.4	62.5	2.1	99.0	0.48	0.22	1.19	0.68

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
1326	0.41	0.4124	9	3.02	7.0	59.5	2.1	99.0	0.48	0.22	1.19	0.68
1327	0.41	0.4122	8	3.03	7.1	58.1	2.1	99.0	0.48	0.22	1.19	0.68
1328	0.41	0.412	8	3.05	7.3	57.7	2.0	99.0	0.48	0.22	1.19	0.68
1329	0.41	0.4118	8	3.03	7.1	56.2	2.0	99.0	0.48	0.22	1.19	0.68
1330	0.41	0.4116	8	3.03	7.1	56.2	2.0	99.0	0.48	0.22	1.19	0.68
1331	0.41	0.4114	8	3.01	6.9	55.4	2.0	99.0	0.48	0.22	1.19	0.68
1332	0.41	0.4111	8	3.01	6.8	54.6	2.0	99.0	0.48	0.22	1.19	0.68
1333	0.41	0.4109	8	3.01	6.9	54.6	2.0	99.0	0.48	0.22	1.19	0.68
1334	0.41	0.4107	8	3.00	6.7	54.8	2.0	99.0	0.48	0.22	1.19	0.68
1335	0.41	0.4105	8	2.97	6.4	54.7	2.1	99.0	0.48	0.22	1.19	0.68
1336	0.41	0.4103	9	2.94	6.1	53.2	2.2	99.0	0.48	0.22	1.19	0.68
1337	0.41	0.4101	9	2.92	5.9	52.5	2.2	99.0	0.48	0.22	1.19	0.68
1338	0.41	0.4098	9	2.92	5.9	52.8	2.2	99.0	0.48	0.22	1.19	0.68
1339	0.41	0.4096	9	2.92	5.9	52.2	2.2	99.0	0.48	0.22	1.19	0.68
1340	0.41	0.4094	9	2.92	5.9	51.6	2.2	99.0	0.48	0.22	1.19	0.68
1341	0.41	0.4092	9	2.91	5.8	49.2	2.1	99.0	0.48	0.22	1.19	0.68
1342	0.41	0.409	8	2.94	6.1	49.3	2.0	99.0	0.48	0.22	1.19	0.68
1343	0.41	0.4088	8	2.96	6.3	49.5	2.0	99.0	0.48	0.22	1.19	0.68
1344	0.41	0.4086	8	2.94	6.1	48.6	2.0	99.0	0.48	0.22	1.19	0.68
1345	0.41	0.4084	8	2.91	5.8	46.3	2.0	99.0	0.48	0.22	1.19	0.68
1346	0.41	0.4081	8	2.92	5.9	46.7	2.0	99.0	0.48	0.22	1.19	0.68
1347	0.41	0.4079	8	2.96	6.3	51.8	2.1	99.0	0.48	0.22	1.19	0.68
1348	0.41	0.4077	9	2.92	5.9	52.2	2.2	99.0	0.48	0.22	1.19	0.68
1349	0.41	0.4075	10	2.95	6.2	63.4	2.6	99.0	0.48	0.22	1.19	0.68
1350	0.41	0.4073	13	2.94	6.1	79.2	3.3	99.0	0.48	0.22	1.19	0.68
1351	0.41	0.4071	23	2.59	3.3	75.5	5.7	5.7	0.48	0.22	1.19	0.68
1352	0.53	0.5261	44	2.33	2.1	90.2	11.0	11.0	0.48	0.22	1.19	0.68
1353	0.53	0.5259	47	2.32	2.0	94.2	11.8	11.8	0.48	0.22	1.19	0.68
1354	0.41	0.4065	32	2.52	2.9	91.8	8.0	8.0	0.48	0.22	1.19	0.68
1355	0.41	0.4062	30	2.59	3.2	97.4	7.5	7.5	0.48	0.22	1.19	0.68
1356	0.41	0.406	27	2.68	3.8	103.9	6.8	99.0	0.48	0.22	1.19	0.68
1357	0.41	0.4058	24	2.74	4.3	104.3	6.1	99.0	0.48	0.22	1.19	0.68
1358	0.41	0.4056	22	2.79	4.7	103.9	5.5	99.0	0.48	0.22	1.19	0.68
1359	0.41	0.4054	20	2.84	5.1	101.2	4.9	99.0	0.48	0.22	1.19	0.68
1360	0.41	0.4052	17	2.90	5.7	94.5	4.1	99.0	0.48	0.22	1.19	0.68
1361	0.40	0.405	16	2.89	5.6	86.5	3.9	99.0	0.48	0.22	1.19	0.68
1362	0.40	0.4048	15	2.87	5.4	80.4	3.7	99.0	0.48	0.22	1.19	0.68
1363	0.40	0.4046	13	2.89	5.6	75.2	3.3	99.0	0.48	0.22	1.19	0.68
1364	0.40	0.4044	12	2.93	6.0	73.1	3.0	99.0	0.48	0.22	1.19	0.68
1365	0.40	0.4042	11	2.99	6.7	73.5	2.8	99.0	0.48	0.22	1.19	0.68
1366	0.40	0.4039	11	3.00	6.8	75.0	2.8	99.0	0.48	0.22	1.19	0.68
1367	0.40	0.4037	12	2.99	6.6	75.7	2.9	99.0	0.48	0.22	1.19	0.68
1368	0.40	0.4035	12	3.00	6.8	77.8	2.9	99.0	0.48	0.22	1.19	0.68
1369	0.40	0.4033	11	3.04	7.2	78.6	2.7	99.0	0.48	0.22	1.19	0.68
1370	0.40	0.4031	11	3.06	7.4	79.3	2.7	99.0	0.48	0.22	1.19	0.68
1371	0.40	0.4029	11	3.05	7.4	79.3	2.7	99.0	0.48	0.22	1.19	0.68
1372	0.40	0.4027	11	3.03	7.1	78.5	2.8	99.0	0.48	0.22	1.19	0.68
1373	0.40	0.4025	11	3.01	6.9	77.2	2.8	99.0	0.48	0.22	1.19	0.68
1374	0.40	0.4023	11	2.98	6.6	75.1	2.9	99.0	0.48	0.22	1.19	0.68
1375	0.40	0.4021	11	2.99	6.6	74.8	2.8	99.0	0.48	0.22	1.19	0.68
1376	0.40	0.4019	12	2.98	6.5	76.0	2.9	99.0	0.48	0.22	1.19	0.68
1377	0.40	0.4017	11	3.00	6.8	77.2	2.8	99.0	0.48	0.22	1.19	0.68
1378	0.40	0.4015	11	3.00	6.8	77.3	2.9	99.0	0.48	0.22	1.19	0.68
1379	0.40	0.4013	11	3.01	6.9	78.3	2.8	99.0	0.48	0.22	1.19	0.68
1380	0.40	0.4011	11	3.02	7.0	78.9	2.8	99.0	0.48	0.22	1.19	0.68
1381	0.40	0.4009	11	3.03	7.1	79.7	2.8	99.0	0.48	0.22	1.19	0.68
1382	0.40	0.4007	11	3.03	7.1	80.0	2.8	99.0	0.48	0.22	1.19	0.68
1383	0.40	0.4005	11	3.03	7.0	79.2	2.8	99.0	0.48	0.22	1.19	0.68
1384	0.40	0.4003	11	3.01	6.9	78.0	2.8	99.0	0.48	0.22	1.19	0.68
1385	0.40	0.4001	11	3.01	6.9	77.8	2.8	99.0	0.48	0.22	1.19	0.68
1386	0.40	0.3999	11	3.00	6.8	76.4	2.8	99.0	0.48	0.22	1.19	0.68
1387	0.40	0.3997	11	3.00	6.8	75.4	2.8	99.0	0.48	0.22	1.19	0.68
1388	0.40	0.3995	11	3.00	6.7	74.0	2.7	99.0	0.48	0.22	1.19	0.68
1389	0.40	0.3993	11	3.00	6.7	72.2	2.7	99.0	0.48	0.22	1.19	0.68
1390	0.40	0.3991	10	3.01	6.9	71.9	2.6	99.0	0.48	0.22	1.19	0.68
1391	0.40	0.3989	11	3.00	6.8	71.8	2.6	99.0	0.48	0.22	1.19	0.69
1392	0.40	0.3987	11	3.01	6.8	71.9	2.6	99.0	0.48	0.22	1.19	0.69
1393	0.40	0.3985	11	3.00	6.8	71.7	2.6	99.0	0.48	0.22	1.19	0.69
1394	0.40	0.3983	11	3.01	6.8	71.8	2.6	99.0	0.48	0.22	1.19	0.69

	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
1										
2										
3										
4										
5										
6										
7										
8										
9	36	37	38	39	40	41	42.a	42.b	43	
10	K _σ	CRR _{7,5}	CRR	FS	(N1) ₆₀ Equiv.	CSRE	% Strain	Settl.		Summary
11								(m)	Cumm (mm)	
12										
13	1.00	0.75	99.99	99.99	48	0.26	0.00	0.000000	0.00	granular
14	1.00	29.52	99.99	99.99	170	0.26	0.00	0.000000	0.00	granular
15	1.00	23.42	99.99	99.99	158	0.26	0.00	0.000000	0.00	granular
16	1.00	13.91	99.99	99.99	132	0.26	0.00	0.000000	0.00	granular
17	1.00	9.26	99.99	99.99	116	0.26	0.00	0.000000	0.00	granular
18	1.00	6.20	99.99	99.99	101	0.26	0.00	0.000000	0.00	granular
19	1.00	5.00	99.99	99.99	94	0.26	0.00	0.000000	0.00	granular
20	1.00	3.24	99.99	99.99	81	0.26	0.00	0.000000	0.00	granular
21	1.00	2.00	99.99	99.99	69	0.26	0.00	0.000000	0.00	granular
22	1.00	1.11	99.99	99.99	56	0.26	0.00	0.000000	0.00	granular
23	1.00	0.57	99.99	99.99	43	0.26	0.00	0.000000	0.00	granular
24	1.00	0.31	99.99	99.99	34	0.26	0.00	0.000000	0.00	granular
25	1.00	0.19	99.99	99.99	25	0.26	0.00	0.000000	0.00	granular
26	1.00	0.15	99.99	99.99	18	0.26	0.00	0.000000	0.00	granular
27	1.00	0.14	99.99	99.99	13	0.26	0.00	0.000000	0.00	granular
28	1.00	0.15	99.99	99.99	10	0.26	0.00	0.000000	0.00	granular
29	1.00	0.14	99.99	99.99	7	0.26	0.00	0.000000	0.00	granular
30	1.00	0.14	99.99	99.99	5	0.26	0.00	0.000000	0.00	plastic
31	1.00	0.11	99.99	99.99	5	0.26	0.00	0.000000	0.00	plastic
32	1.00	0.11	99.99	99.99	4	0.26	0.00	0.000000	0.00	plastic
33	1.00	0.10	99.99	99.99	5	0.26	0.00	0.000000	0.00	granular
34	1.00	0.10	99.99	99.99	7	0.26	0.00	0.000000	0.00	granular
35	1.00	0.10	99.99	99.99	9	0.26	0.00	0.000000	0.00	granular
36	1.00	0.10	99.99	99.99	7	0.26	0.00	0.000000	0.00	granular
37	1.00	0.10	99.99	99.99	7	0.26	0.00	0.000000	0.00	granular
38	1.00	0.10	99.99	99.99	7	0.26	0.00	0.000000	0.00	granular
39	1.00	0.11	99.99	99.99	7	0.26	0.00	0.000000	0.00	granular
40	1.00	0.11	99.99	99.99	6	0.26	0.00	0.000000	0.00	granular
41	1.00	0.11	99.99	99.99	7	0.26	0.00	0.000000	0.00	granular
42	1.00	0.12	99.99	99.99	5	0.26	0.00	0.000000	0.00	plastic
43	1.00	0.12	99.99	99.99	4	0.26	0.00	0.000000	0.00	plastic
44	1.00	0.11	99.99	99.99	4	0.26	0.00	0.000000	0.00	plastic
45	1.00	0.10	99.99	99.99	4	0.26	0.00	0.000000	0.00	plastic
46	1.00	0.10	99.99	99.99	4	0.26	0.00	0.000000	0.00	plastic
47	1.00	0.10	99.99	99.99	4	0.26	0.00	0.000000	0.00	plastic
48	1.00	0.10	99.99	99.99	4	0.26	0.00	0.000000	0.00	plastic
49	1.00	0.10	99.99	99.99	5	0.26	0.00	0.000000	0.00	plastic
50	1.00	0.10	99.99	99.99	4	0.26	0.00	0.000000	0.00	plastic
51	1.00	0.11	99.99	99.99	3	0.26	0.00	0.000000	0.00	plastic
52	1.00	0.12	99.99	99.99	3	0.26	0.00	0.000000	0.00	plastic
53	1.00	0.12	99.99	99.99	4	0.26	0.00	0.000000	0.00	plastic
54	1.00	0.11	99.99	99.99	3	0.26	0.00	0.000000	0.00	plastic
55	1.00	0.11	99.99	99.99	3	0.26	0.00	0.000000	0.00	plastic
56	1.00	0.10	99.99	99.99	4	0.26	0.00	0.000000	0.00	plastic
57	1.00	0.10	99.99	99.99	7	0.26	0.00	0.000000	0.00	granular
58	1.00	0.10	99.99	99.99	8	0.26	0.00	0.000000	0.00	granular
59	1.00	0.10	99.99	99.99	9	0.26	0.00	0.000000	0.00	granular
60	1.00	0.10	99.99	99.99	10	0.26	0.00	0.000000	0.00	granular
61	1.00	0.10	99.99	99.99	9	0.26	0.00	0.000000	0.00	granular
62	1.00	0.10	99.99	99.99	8	0.26	0.00	0.000000	0.00	granular
63	1.00	0.10	99.99	99.99	8	0.26	0.00	0.000000	0.00	granular
64	1.00	0.10	99.99	99.99	7	0.26	0.00	0.000000	0.00	granular
65	1.00	0.10	99.99	99.99	6	0.26	0.00	0.000000	0.00	granular

	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
206	1.00	0.10	99.99	99.99	2	0.26	7.00	0.000000	0.00	plastic
207	1.00	0.10	99.99	99.99	3	0.26	5.00	0.000000	0.00	plastic
208	1.00	0.09	99.99	99.99	3	0.26	5.00	0.000000	0.00	plastic
209	1.00	0.09	99.99	99.99	4	0.26	4.40	0.000000	0.00	plastic
210	1.00	0.09	99.99	99.99	4	0.26	4.40	0.000000	0.00	plastic
211	1.00	0.10	99.99	99.99	4	0.26	4.40	0.000000	0.00	plastic
212	1.00	0.11	99.99	99.99	3	0.26	5.00	0.000000	0.00	plastic
213	1.00	0.11	99.99	99.99	3	0.26	5.00	0.000000	0.00	plastic
214	1.00	0.10	99.99	99.99	3	0.26	5.00	0.000000	0.00	plastic
215	1.00	0.10	99.99	99.99	4	0.26	4.40	0.000000	0.00	plastic
216	1.00	0.09	0.11	0.42	6	0.26	3.50	0.000875	0.87	granular
217	1.00	0.09	0.11	0.42	7	0.26	3.00	0.000750	1.62	granular
218	1.00	0.09	0.11	0.42	7	0.26	3.00	0.000750	2.37	granular
219	1.00	0.10	0.11	0.43	7	0.27	3.00	0.000750	3.12	granular
220	1.00	0.10	0.12	0.44	8	0.27	2.90	0.000725	3.85	granular
221	1.00	0.10	0.12	0.45	8	0.27	2.90	0.000725	4.57	granular
222	1.00	0.10	0.11	0.43	9	0.27	2.80	0.000700	5.27	granular
223	1.00	0.09	0.11	0.40	8	0.27	2.90	0.000725	6.00	granular
224	1.00	0.09	0.11	0.40	7	0.27	3.00	0.000750	6.75	granular
225	0.99	0.09	0.11	0.41	5	0.27	4.00	0.001000	7.75	granular
226	0.99	0.10	99.99	99.99	4	0.27	4.40	0.000000	7.75	plastic
227	0.99	0.10	99.99	99.99	3	0.27	5.00	0.000000	7.75	plastic
228	0.99	0.10	99.99	99.99	2	0.27	7.00	0.000000	7.75	plastic
229	0.99	0.10	99.99	99.99	2	0.27	7.00	0.000000	7.75	plastic
230	0.99	0.09	99.99	99.99	2	0.27	7.00	0.000000	7.75	plastic
231	0.99	0.09	99.99	99.99	2	0.27	7.00	0.000000	7.75	plastic
232	0.99	0.09	99.99	99.99	2	0.27	7.00	0.000000	7.75	plastic
233	0.99	0.09	99.99	99.99	2	0.27	7.00	0.000000	7.75	plastic
234	0.99	0.09	99.99	99.99	2	0.27	7.00	0.000000	7.75	plastic
235	0.99	0.09	0.10	0.38	4	0.27	4.40	0.001100	8.85	granular
236	0.99	0.09	99.99	99.99	3	0.27	5.00	0.000000	8.85	plastic
237	0.99	0.09	99.99	99.99	2	0.28	7.00	0.000000	8.85	plastic
238	0.99	0.09	99.99	99.99	2	0.28	7.00	0.000000	8.85	plastic
239	0.99	0.09	99.99	99.99	2	0.28	7.00	0.000000	8.85	plastic
240	0.99	0.08	99.99	99.99	2	0.28	7.00	0.000000	8.85	plastic
241	0.98	0.08	99.99	99.99	2	0.28	7.00	0.000000	8.85	plastic
242	0.98	0.08	99.99	99.99	2	0.28	7.00	0.000000	8.85	plastic
243	0.98	0.08	99.99	99.99	2	0.28	7.00	0.000000	8.85	plastic
244	0.98	0.08	99.99	99.99	3	0.28	5.00	0.000000	8.85	plastic
245	0.98	0.08	99.99	99.99	3	0.28	5.00	0.000000	8.85	plastic
246	0.98	0.09	99.99	99.99	3	0.28	5.00	0.000000	8.85	plastic
247	0.98	0.09	99.99	99.99	3	0.28	5.00	0.000000	8.85	plastic
248	0.98	0.09	99.99	99.99	2	0.28	7.00	0.000000	8.85	plastic
249	0.98	0.10	99.99	99.99	2	0.28	7.00	0.000000	8.85	plastic
250	0.98	0.10	99.99	99.99	2	0.28	7.00	0.000000	8.85	plastic
251	0.98	0.10	99.99	99.99	2	0.28	7.00	0.000000	8.85	plastic
252	0.98	0.10	99.99	99.99	2	0.28	7.00	0.000000	8.85	plastic
253	0.98	0.10	99.99	99.99	2	0.28	7.00	0.000000	8.85	plastic
254	0.98	0.10	99.99	99.99	3	0.28	5.00	0.000000	8.85	plastic
255	0.98	0.09	0.11	0.38	5	0.28	4.00	0.001000	9.85	granular
256	0.98	0.09	0.10	0.36	5	0.28	4.00	0.001000	10.85	granular
257	0.97	0.09	0.10	0.37	4	0.28	4.40	0.001100	11.95	granular
258	0.97	0.09	0.10	0.37	4	0.29	4.40	0.001100	13.05	granular
259	0.97	0.09	0.11	0.37	5	0.29	4.00	0.001000	14.05	granular
260	0.97	0.09	0.11	0.38	6	0.29	3.50	0.000875	14.93	granular
261	0.97	0.09	0.11	0.38	6	0.29	3.50	0.000875	15.80	granular
262	0.97	0.09	0.11	0.37	7	0.29	3.00	0.000750	16.55	granular
263	0.97	0.09	0.10	0.36	7	0.29	3.00	0.000750	17.30	granular
264	0.97	0.09	0.10	0.36	6	0.29	3.50	0.000875	18.18	granular
265	0.97	0.09	0.10	0.36	5	0.29	4.00	0.001000	19.18	granular
266	0.97	0.09	0.10	0.35	4	0.29	4.40	0.001100	20.28	granular
267	0.97	0.09	99.99	99.99	3	0.29	5.00	0.000000	20.28	plastic
268	0.97	0.09	99.99	99.99	2	0.29	7.00	0.000000	20.28	plastic
269	0.97	0.10	99.99	99.99	2	0.29	7.00	0.000000	20.28	plastic
270	0.97	0.10	99.99	99.99	2	0.29	7.00	0.000000	20.28	plastic
271	0.97	0.10	99.99	99.99	2	0.29	7.00	0.000000	20.28	plastic
272	0.97	0.09	0.11	0.37	4	0.29	4.40	0.001100	21.38	granular
273	0.96	0.09	0.10	0.35	7	0.29	3.00	0.000750	22.13	granular
274	0.96	0.09	0.10	0.34	6	0.29	3.50	0.000875	23.00	granular
275	0.96	0.09	0.10	0.34	4	0.29	4.40	0.001100	24.10	granular

	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
276	0.96	0.09	99.99	99.99	3	0.29	5.00	0.000000	24.10	plastic
277	0.96	0.09	99.99	99.99	3	0.29	5.00	0.000000	24.10	plastic
278	0.96	0.09	99.99	99.99	2	0.29	7.00	0.000000	24.10	plastic
279	0.96	0.09	99.99	99.99	2	0.29	7.00	0.000000	24.10	plastic
280	0.96	0.09	99.99	99.99	2	0.29	7.00	0.000000	24.10	plastic
281	0.96	0.09	99.99	99.99	2	0.29	7.00	0.000000	24.10	plastic
282	0.96	0.09	99.99	99.99	2	0.29	7.00	0.000000	24.10	plastic
283	0.96	0.09	99.99	99.99	3	0.30	5.00	0.000000	24.10	plastic
284	0.96	0.09	99.99	99.99	3	0.30	5.00	0.000000	24.10	plastic
285	0.96	0.08	99.99	99.99	2	0.30	7.00	0.000000	24.10	plastic
286	0.96	0.08	99.99	99.99	2	0.30	7.00	0.000000	24.10	plastic
287	0.96	0.08	99.99	99.99	2	0.30	7.00	0.000000	24.10	plastic
288	0.96	0.08	99.99	99.99	2	0.30	7.00	0.000000	24.10	plastic
289	0.96	0.09	99.99	99.99	1	0.30	10.00	0.000000	24.10	plastic
290	0.95	0.09	99.99	99.99	1	0.30	10.00	0.000000	24.10	plastic
291	0.95	0.09	99.99	99.99	2	0.30	7.00	0.000000	24.10	plastic
292	0.95	0.09	99.99	99.99	2	0.30	7.00	0.000000	24.10	plastic
293	0.95	0.10	99.99	99.99	2	0.30	7.00	0.000000	24.10	plastic
294	0.95	0.10	99.99	99.99	5	0.30	4.00	0.000000	24.10	plastic
295	0.95	0.10	0.12	0.38	9	0.30	2.80	0.000700	24.80	granular
296	0.95	0.10	0.11	0.36	8	0.30	2.90	0.000725	25.53	granular
297	0.95	0.09	0.10	0.34	6	0.30	3.50	0.000875	26.40	granular
298	0.95	0.09	99.99	99.99	4	0.30	4.40	0.000000	26.40	plastic
299	0.95	0.09	99.99	99.99	3	0.30	5.00	0.000000	26.40	plastic
300	0.95	0.09	99.99	99.99	3	0.30	5.00	0.000000	26.40	plastic
301	0.95	0.09	99.99	99.99	2	0.30	7.00	0.000000	26.40	plastic
302	0.95	0.09	99.99	99.99	2	0.30	7.00	0.000000	26.40	plastic
303	0.95	0.10	99.99	99.99	2	0.30	7.00	0.000000	26.40	plastic
304	0.95	0.10	99.99	99.99	2	0.30	7.00	0.000000	26.40	plastic
305	0.95	0.10	99.99	99.99	4	0.30	4.40	0.000000	26.40	plastic
306	0.94	0.11	0.12	0.40	6	0.30	3.50	0.000875	27.28	granular
307	0.94	0.11	0.12	0.40	6	0.30	3.50	0.000875	28.15	granular
308	0.94	0.10	0.11	0.38	7	0.30	3.00	0.000750	28.90	granular
309	0.94	0.10	0.11	0.36	10	0.30	2.70	0.000675	29.58	granular
310	0.94	0.10	0.11	0.36	10	0.30	2.70	0.000675	30.25	granular
311	0.94	0.10	0.11	0.36	7	0.30	3.00	0.000750	31.00	granular
312	0.94	0.09	0.11	0.35	5	0.30	4.00	0.001000	32.00	granular
313	0.94	0.10	99.99	99.99	4	0.30	4.40	0.000000	32.00	plastic
314	0.94	0.10	99.99	99.99	3	0.30	5.00	0.000000	32.00	plastic
315	0.94	0.10	99.99	99.99	3	0.30	5.00	0.000000	32.00	plastic
316	0.94	0.10	99.99	99.99	2	0.30	7.00	0.000000	32.00	plastic
317	0.94	0.10	99.99	99.99	3	0.30	5.00	0.000000	32.00	plastic
318	0.94	0.10	99.99	99.99	4	0.30	4.40	0.000000	32.00	plastic
319	0.94	0.10	0.11	0.36	5	0.30	4.00	0.001000	33.00	granular
320	0.94	0.10	0.11	0.35	6	0.30	3.50	0.000875	33.88	granular
321	0.94	0.09	0.11	0.34	8	0.30	2.90	0.000725	34.60	granular
322	0.94	0.09	0.11	0.34	9	0.30	2.80	0.000700	35.30	granular
323	0.93	0.09	0.10	0.34	8	0.30	2.90	0.000725	36.03	granular
324	0.93	0.09	0.10	0.34	6	0.30	3.50	0.000875	36.90	granular
325	0.93	0.10	0.11	0.35	5	0.30	4.00	0.001000	37.90	granular
326	0.93	0.09	99.99	99.99	4	0.30	4.40	0.000000	37.90	plastic
327	0.93	0.09	0.10	0.31	4	0.30	4.40	0.001100	39.00	granular
328	0.93	0.09	0.10	0.31	5	0.30	4.00	0.001000	40.00	granular
329	0.93	0.09	0.10	0.31	5	0.30	4.00	0.001000	41.00	granular
330	0.93	0.09	0.10	0.31	4	0.30	4.40	0.001100	42.10	granular
331	0.93	0.09	99.99	99.99	3	0.30	5.00	0.000000	42.10	plastic
332	0.93	0.09	99.99	99.99	2	0.30	7.00	0.000000	42.10	plastic
333	0.93	0.09	99.99	99.99	2	0.30	7.00	0.000000	42.10	plastic
334	0.93	0.09	99.99	99.99	2	0.30	7.00	0.000000	42.10	plastic
335	0.93	0.09	99.99	99.99	2	0.30	7.00	0.000000	42.10	plastic
336	0.93	0.09	99.99	99.99	2	0.30	7.00	0.000000	42.10	plastic
337	0.93	0.09	99.99	99.99	2	0.30	7.00	0.000000	42.10	plastic
338	0.93	0.08	99.99	99.99	3	0.30	5.00	0.000000	42.10	plastic
339	0.93	0.09	99.99	99.99	3	0.30	5.00	0.000000	42.10	plastic
340	0.93	0.09	99.99	99.99	3	0.30	5.00	0.000000	42.10	plastic
341	0.92	0.09	99.99	99.99	2	0.30	7.00	0.000000	42.10	plastic
342	0.92	0.09	99.99	99.99	2	0.30	7.00	0.000000	42.10	plastic
343	0.92	0.09	99.99	99.99	2	0.30	7.00	0.000000	42.10	plastic
344	0.92	0.09	99.99	99.99	2	0.30	7.00	0.000000	42.10	plastic
345	0.92	0.09	99.99	99.99	2	0.30	7.00	0.000000	42.10	plastic

	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
346	0.92	0.09	99.99	99.99	2	0.30	7.00	0.000000	42.10	plastic
347	0.92	0.09	99.99	99.99	3	0.30	5.00	0.000000	42.10	plastic
348	0.92	0.09	0.10	0.31	4	0.30	4.40	0.001100	43.20	granular
349	0.92	0.09	0.10	0.30	5	0.30	4.00	0.001000	44.20	granular
350	0.92	0.08	0.09	0.29	5	0.30	4.00	0.001000	45.20	granular
351	0.92	0.09	0.10	0.31	6	0.30	3.50	0.000875	46.08	granular
352	0.92	0.09	0.10	0.32	6	0.30	3.50	0.000875	46.95	granular
353	0.92	0.10	0.10	0.33	5	0.30	4.00	0.001000	47.95	granular
354	0.92	0.10	99.99	99.99	3	0.30	5.00	0.000000	47.95	plastic
355	0.92	0.11	99.99	99.99	3	0.30	5.00	0.000000	47.95	plastic
356	0.92	0.10	99.99	99.99	2	0.30	7.00	0.000000	47.95	plastic
357	0.92	0.09	99.99	99.99	2	0.30	7.00	0.000000	47.95	plastic
358	0.92	0.09	99.99	99.99	2	0.30	7.00	0.000000	47.95	plastic
359	0.91	0.08	99.99	99.99	2	0.30	7.00	0.000000	47.95	plastic
360	0.91	0.08	99.99	99.99	2	0.30	7.00	0.000000	47.95	plastic
361	0.91	0.08	99.99	99.99	2	0.30	7.00	0.000000	47.95	plastic
362	0.91	0.08	99.99	99.99	1	0.30	10.00	0.000000	47.95	plastic
363	0.91	0.08	99.99	99.99	2	0.30	7.00	0.000000	47.95	plastic
364	0.91	0.08	99.99	99.99	2	0.30	7.00	0.000000	47.95	plastic
365	0.91	0.08	99.99	99.99	2	0.30	7.00	0.000000	47.95	plastic
366	0.91	0.09	99.99	99.99	2	0.30	7.00	0.000000	47.95	plastic
367	0.91	0.09	99.99	99.99	2	0.30	7.00	0.000000	47.95	plastic
368	0.91	0.10	99.99	99.99	2	0.30	7.00	0.000000	47.95	plastic
369	0.91	0.10	99.99	99.99	2	0.30	7.00	0.000000	47.95	plastic
370	0.91	0.10	99.99	99.99	3	0.30	5.00	0.000000	47.95	plastic
371	0.91	0.10	99.99	99.99	3	0.30	5.00	0.000000	47.95	plastic
372	0.91	0.10	99.99	99.99	3	0.30	5.00	0.000000	47.95	plastic
373	0.91	0.10	99.99	99.99	3	0.30	5.00	0.000000	47.95	plastic
374	0.91	0.10	99.99	99.99	3	0.30	5.00	0.000000	47.95	plastic
375	0.91	0.10	99.99	99.99	4	0.30	4.40	0.000000	47.95	plastic
376	0.91	0.10	99.99	99.99	4	0.30	4.40	0.000000	47.95	plastic
377	0.90	0.10	0.11	0.33	5	0.30	4.00	0.001000	48.95	granular
378	0.90	0.10	0.10	0.33	6	0.30	3.50	0.000875	49.83	granular
379	0.90	0.09	0.10	0.32	5	0.30	4.00	0.001000	50.83	granular
380	0.90	0.09	0.10	0.30	4	0.30	4.40	0.001100	51.93	granular
381	0.90	0.09	0.09	0.29	4	0.30	4.40	0.001100	53.03	granular
382	0.90	0.09	99.99	99.99	3	0.30	5.00	0.000000	53.03	plastic
383	0.90	0.09	99.99	99.99	3	0.30	5.00	0.000000	53.03	plastic
384	0.90	0.09	99.99	99.99	2	0.30	7.00	0.000000	53.03	plastic
385	0.90	0.09	99.99	99.99	2	0.30	7.00	0.000000	53.03	plastic
386	0.90	0.09	99.99	99.99	2	0.30	7.00	0.000000	53.03	plastic
387	0.90	0.09	99.99	99.99	2	0.30	7.00	0.000000	53.03	plastic
388	0.90	0.09	99.99	99.99	2	0.30	7.00	0.000000	53.03	plastic
389	0.90	0.10	99.99	99.99	2	0.30	7.00	0.000000	53.03	plastic
390	0.90	0.10	99.99	99.99	2	0.30	7.00	0.000000	53.03	plastic
391	0.90	0.09	99.99	99.99	3	0.30	5.00	0.000000	53.03	plastic
392	0.90	0.09	0.09	0.28	4	0.30	4.40	0.001100	54.13	granular
393	0.90	0.08	0.09	0.28	6	0.30	3.50	0.000875	55.00	granular
394	0.90	0.09	0.09	0.28	7	0.30	3.00	0.000750	55.75	granular
395	0.89	0.09	0.09	0.29	8	0.30	2.90	0.000725	56.48	granular
396	0.89	0.09	0.09	0.29	7	0.30	3.00	0.000750	57.23	granular
397	0.89	0.09	0.10	0.31	6	0.30	3.50	0.000875	58.10	granular
398	0.89	0.10	0.11	0.34	5	0.30	4.00	0.001000	59.10	granular
399	0.89	0.10	0.11	0.33	5	0.30	4.00	0.001000	60.10	granular
400	0.89	0.09	0.10	0.31	8	0.30	2.90	0.000725	60.83	granular
401	0.89	0.10	0.11	0.34	14	0.30	2.00	0.000500	61.33	granular
402	0.89	0.12	0.12	0.38	16	0.30	1.80	0.000450	61.78	granular
403	0.89	0.12	0.13	0.39	16	0.30	1.80	0.000450	62.23	granular
404	0.89	0.12	0.12	0.38	15	0.30	1.90	0.000475	62.70	granular
405	0.89	0.11	0.12	0.38	14	0.30	2.00	0.000500	63.20	granular
406	0.89	0.11	0.12	0.36	13	0.30	2.10	0.000525	63.73	granular
407	0.89	0.11	0.11	0.35	12	0.30	2.30	0.000575	64.30	granular
408	0.89	0.10	0.11	0.33	10	0.30	2.70	0.000675	64.98	granular
409	0.89	0.10	0.11	0.33	8	0.30	2.90	0.000725	65.70	granular
410	0.89	0.10	0.10	0.32	6	0.30	3.50	0.000875	66.58	granular
411	0.89	0.09	0.10	0.30	5	0.30	4.00	0.001000	67.58	granular
412	0.89	0.09	99.99	99.99	4	0.30	4.40	0.000000	67.58	plastic
413	0.89	0.10	99.99	99.99	3	0.30	5.00	0.000000	67.58	plastic
414	0.88	0.10	99.99	99.99	3	0.30	5.00	0.000000	67.58	plastic
415	0.88	0.09	99.99	99.99	3	0.30	5.00	0.000000	67.58	plastic

	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
416	0.88	0.09	99.99	99.99	4	0.30	4.40	0.000000	67.58	plastic
417	0.88	0.09	0.10	0.31	4	0.30	4.40	0.001100	68.68	granular
418	0.88	0.09	0.10	0.31	5	0.30	4.00	0.001000	69.68	granular
419	0.88	0.09	0.09	0.29	5	0.30	4.00	0.001000	70.68	granular
420	0.88	0.09	0.09	0.28	6	0.30	3.50	0.000875	71.55	granular
421	0.88	0.09	0.09	0.29	6	0.30	3.50	0.000875	72.43	granular
422	0.88	0.09	0.10	0.31	5	0.30	4.00	0.001000	73.43	granular
423	0.88	0.09	0.10	0.30	5	0.30	4.00	0.001000	74.43	granular
424	0.88	0.09	0.10	0.29	4	0.30	4.40	0.001100	75.53	granular
425	0.88	0.09	0.09	0.28	4	0.30	4.40	0.001100	76.63	granular
426	0.88	0.09	99.99	99.99	3	0.30	5.00	0.000000	76.63	plastic
427	0.88	0.09	99.99	99.99	3	0.30	5.00	0.000000	76.63	plastic
428	0.88	0.10	99.99	99.99	3	0.30	5.00	0.000000	76.63	plastic
429	0.88	0.09	99.99	99.99	2	0.30	7.00	0.000000	76.63	plastic
430	0.88	0.09	99.99	99.99	2	0.30	7.00	0.000000	76.63	plastic
431	0.88	0.12	99.99	99.99	2	0.30	7.00	0.000000	76.63	plastic
432	0.88	0.11	99.99	99.99	2	0.30	7.00	0.000000	76.63	plastic
433	0.87	0.10	99.99	99.99	3	0.30	5.00	0.000000	76.63	plastic
434	0.87	0.10	99.99	99.99	2	0.30	7.00	0.000000	76.63	plastic
435	0.87	0.09	99.99	99.99	4	0.30	4.40	0.000000	76.63	plastic
436	0.87	0.09	99.99	99.99	3	0.30	5.00	0.000000	76.63	plastic
437	0.87	0.09	99.99	99.99	3	0.30	5.00	0.000000	76.63	plastic
438	0.87	0.09	99.99	99.99	3	0.30	5.00	0.000000	76.63	plastic
439	0.87	0.09	99.99	99.99	3	0.30	5.00	0.000000	76.63	plastic
440	0.87	0.09	99.99	99.99	3	0.30	5.00	0.000000	76.63	plastic
441	0.87	0.09	99.99	99.99	3	0.30	5.00	0.000000	76.63	plastic
442	0.87	0.10	99.99	99.99	3	0.30	5.00	0.000000	76.63	plastic
443	0.87	0.10	99.99	99.99	3	0.30	5.00	0.000000	76.63	plastic
444	0.87	0.10	99.99	99.99	3	0.30	5.00	0.000000	76.63	plastic
445	0.87	0.11	99.99	99.99	3	0.30	5.00	0.000000	76.63	plastic
446	0.87	0.11	99.99	99.99	3	0.30	5.00	0.000000	76.63	plastic
447	0.87	0.11	99.99	99.99	3	0.30	5.00	0.000000	76.63	plastic
448	0.87	0.10	99.99	99.99	3	0.30	5.00	0.000000	76.63	plastic
449	0.87	0.10	99.99	99.99	3	0.30	5.00	0.000000	76.63	plastic
450	0.87	0.11	99.99	99.99	4	0.30	4.40	0.000000	76.63	plastic
451	0.87	0.11	0.11	0.35	5	0.30	4.00	0.001000	77.63	granular
452	0.87	0.11	99.99	99.99	5	0.30	4.00	0.000000	77.63	plastic
453	0.86	0.12	99.99	99.99	4	0.30	4.40	0.000000	77.63	plastic
454	0.86	0.12	99.99	99.99	3	0.30	5.00	0.000000	77.63	plastic
455	0.86	0.12	99.99	99.99	2	0.30	7.00	0.000000	77.63	plastic
456	0.86	0.11	99.99	99.99	2	0.30	7.00	0.000000	77.63	plastic
457	0.86	0.10	99.99	99.99	2	0.30	7.00	0.000000	77.63	plastic
458	0.86	0.09	0.09	0.29	7	0.30	3.00	0.000750	78.38	granular
459	0.86	0.11	0.12	0.36	16	0.30	1.80	0.000450	78.83	granular
460	0.86	0.12	0.13	0.39	13	0.30	2.10	0.000525	79.35	granular
461	0.86	0.13	0.14	0.42	9	0.30	2.80	0.000700	80.05	granular
462	0.86	0.13	99.99	99.99	6	0.30	3.50	0.000000	80.05	plastic
463	0.86	0.12	99.99	99.99	4	0.30	4.40	0.000000	80.05	plastic
464	0.86	0.14	99.99	99.99	3	0.30	5.00	0.000000	80.05	plastic
465	0.86	0.13	99.99	99.99	5	0.30	4.00	0.000000	80.05	plastic
466	0.86	0.13	0.14	0.42	8	0.30	2.90	0.000725	80.78	granular
467	0.86	0.12	0.13	0.39	6	0.30	3.50	0.000875	81.65	granular
468	0.86	0.13	99.99	99.99	4	0.30	4.40	0.000000	81.65	plastic
469	0.86	0.14	99.99	99.99	4	0.30	4.40	0.000000	81.65	plastic
470	0.86	0.13	99.99	99.99	5	0.30	4.00	0.000000	81.65	plastic
471	0.86	0.15	0.15	0.47	7	0.30	3.00	0.000750	82.40	granular
472	0.86	0.18	99.99	99.99	6	0.30	3.50	0.000000	82.40	plastic
473	0.86	0.20	99.99	99.99	5	0.30	4.00	0.000000	82.40	plastic
474	0.85	0.19	99.99	99.99	5	0.30	4.00	0.000000	82.40	plastic
475	0.85	0.17	99.99	99.99	5	0.30	4.00	0.000000	82.40	plastic
476	0.85	0.14	99.99	99.99	6	0.30	3.50	0.000000	82.40	plastic
477	0.85	0.13	0.14	0.42	15	0.30	1.90	0.000475	82.88	granular
478	0.85	0.15	0.16	0.48	19	0.30	1.60	0.000400	83.28	granular
479	0.85	0.15	0.15	0.47	16	0.30	1.80	0.000450	83.73	granular
480	0.85	0.15	0.15	0.47	13	0.30	2.10	0.000525	84.25	granular
481	0.85	0.16	0.16	0.50	12	0.30	2.30	0.000575	84.83	granular
482	0.85	0.18	0.18	0.56	9	0.30	2.80	0.000700	85.53	granular
483	0.85	0.18	99.99	99.99	6	0.30	3.50	0.000000	85.53	plastic
484	0.85	0.17	99.99	99.99	5	0.30	4.00	0.000000	85.53	plastic
485	0.85	0.14	99.99	99.99	4	0.30	4.40	0.000000	85.53	plastic

	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
976	0.70	0.14	99.99	99.99	6	0.25	3.50	0.000000	90.95	plastic
977	0.70	0.15	99.99	99.99	6	0.25	3.50	0.000000	90.95	plastic
978	0.70	0.15	99.99	99.99	6	0.25	3.50	0.000000	90.95	plastic
979	0.70	0.15	0.12	0.49	10	0.25	2.70	0.000675	91.63	granular
980	0.69	0.14	0.11	0.46	15	0.25	1.90	0.000475	92.10	granular
981	0.69	0.15	0.12	0.49	17	0.25	1.70	0.000425	92.53	granular
982	0.69	0.16	0.13	0.52	17	0.25	1.70	0.000425	92.95	granular
983	0.69	0.16	0.13	0.54	17	0.25	1.70	0.000425	93.38	granular
984	0.69	0.18	0.15	0.62	17	0.25	1.70	0.000425	93.80	granular
985	0.69	0.20	0.17	0.67	17	0.25	1.70	0.000425	94.23	granular
986	0.69	0.19	0.16	0.65	17	0.25	1.70	0.000425	94.65	granular
987	0.69	0.18	0.15	0.59	17	0.25	1.70	0.000425	95.08	granular
988	0.69	0.20	0.17	0.68	15	0.25	1.90	0.000475	95.55	granular
989	0.69	0.20	0.17	0.68	13	0.25	2.10	0.000525	96.08	granular
990	0.69	0.19	0.16	0.64	9	0.25	2.80	0.000700	96.78	granular
991	0.69	0.18	0.15	0.59	8	0.25	2.90	0.000725	97.50	granular
992	0.69	0.19	0.16	0.63	13	0.25	2.10	0.000525	98.03	granular
993	0.69	0.20	0.17	0.68	17	0.25	1.70	0.000425	98.45	granular
994	0.69	0.22	0.18	0.73	19	0.25	1.50	0.000375	98.83	granular
995	0.69	0.21	0.18	0.72	21	0.25	1.20	0.000300	99.13	granular
996	0.69	0.21	0.17	0.69	22	0.25	1.00	0.000250	99.38	granular
997	0.69	0.20	0.17	0.67	22	0.25	1.00	0.000250	99.63	granular
998	0.69	0.20	0.17	0.67	22	0.25	1.00	0.000250	99.88	granular
999	0.69	0.20	0.16	0.67	22	0.25	1.00	0.000250	100.13	granular
1000	0.69	0.19	0.16	0.65	22	0.25	1.00	0.000250	100.38	granular
1001	0.69	0.19	0.15	0.63	21	0.25	1.20	0.000300	100.68	granular
1002	0.69	0.18	0.15	0.62	20	0.24	1.20	0.000300	100.98	granular
1003	0.69	0.18	0.15	0.60	19	0.24	1.40	0.000350	101.33	granular
1004	0.69	0.18	0.14	0.59	17	0.24	1.60	0.000400	101.73	granular
1005	0.69	0.17	0.14	0.58	16	0.24	1.80	0.000450	102.18	granular
1006	0.69	0.18	0.15	0.60	14	0.24	2.00	0.000500	102.68	granular
1007	0.69	0.19	0.16	0.65	12	0.24	2.30	0.000575	103.25	granular
1008	0.69	0.17	0.14	0.57	9	0.24	2.80	0.000700	103.95	granular
1009	0.69	0.17	0.14	0.59	8	0.24	2.90	0.000725	104.68	granular
1010	0.69	0.18	99.99	99.99	7	0.24	3.00	0.000000	104.68	plastic
1011	0.69	0.17	99.99	99.99	6	0.24	3.50	0.000000	104.68	plastic
1012	0.69	0.15	99.99	99.99	5	0.24	4.00	0.000000	104.68	plastic
1013	0.69	0.15	99.99	99.99	5	0.24	4.00	0.000000	104.68	plastic
1014	0.69	0.15	99.99	99.99	4	0.24	4.40	0.000000	104.68	plastic
1015	0.69	0.14	99.99	99.99	5	0.24	4.00	0.000000	104.68	plastic
1016	0.69	0.13	99.99	99.99	6	0.24	3.50	0.000000	104.68	plastic
1017	0.69	0.13	0.11	0.44	7	0.24	3.00	0.000750	105.43	granular
1018	0.69	0.12	0.10	0.41	7	0.24	3.00	0.000750	106.18	granular
1019	0.69	0.12	0.10	0.42	9	0.24	2.80	0.000700	106.88	granular
1020	0.69	0.12	0.10	0.40	9	0.24	2.80	0.000700	107.58	granular
1021	0.69	0.11	0.09	0.38	7	0.24	3.00	0.000750	108.33	granular
1022	0.69	0.11	0.09	0.39	6	0.24	3.50	0.000875	109.20	granular
1023	0.69	0.11	0.09	0.37	5	0.24	4.00	0.001000	110.20	granular
1024	0.69	0.11	99.99	99.99	4	0.24	4.40	0.000000	110.20	plastic
1025	0.69	0.10	99.99	99.99	4	0.24	4.40	0.000000	110.20	plastic
1026	0.69	0.09	99.99	99.99	4	0.24	4.40	0.000000	110.20	plastic
1027	0.69	0.09	99.99	99.99	3	0.24	5.00	0.000000	110.20	plastic
1028	0.69	0.09	99.99	99.99	2	0.24	7.00	0.000000	110.20	plastic
1029	0.69	0.09	99.99	99.99	2	0.24	7.00	0.000000	110.20	plastic
1030	0.69	0.09	99.99	99.99	2	0.24	7.00	0.000000	110.20	plastic
1031	0.69	0.09	99.99	99.99	2	0.24	7.00	0.000000	110.20	plastic
1032	0.69	0.09	99.99	99.99	2	0.24	7.00	0.000000	110.20	plastic
1033	0.69	0.10	99.99	99.99	2	0.24	7.00	0.000000	110.20	plastic
1034	0.69	0.10	99.99	99.99	2	0.24	7.00	0.000000	110.20	plastic
1035	0.69	0.11	99.99	99.99	2	0.24	7.00	0.000000	110.20	plastic
1036	0.69	0.11	99.99	99.99	2	0.24	7.00	0.000000	110.20	plastic
1037	0.69	0.11	99.99	99.99	2	0.24	7.00	0.000000	110.20	plastic
1038	0.69	0.11	99.99	99.99	3	0.24	5.00	0.000000	110.20	plastic
1039	0.69	0.10	99.99	99.99	3	0.24	5.00	0.000000	110.20	plastic
1040	0.69	0.10	99.99	99.99	4	0.24	4.40	0.000000	110.20	plastic
1041	0.69	0.10	99.99	99.99	3	0.24	5.00	0.000000	110.20	plastic
1042	0.69	0.10	99.99	99.99	2	0.24	7.00	0.000000	110.20	plastic
1043	0.69	0.10	99.99	99.99	2	0.24	7.00	0.000000	110.20	plastic
1044	0.69	0.11	99.99	99.99	2	0.24	7.00	0.000000	110.20	plastic
1045	0.68	0.11	99.99	99.99	3	0.24	5.00	0.000000	110.20	plastic

	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
1116	0.68	0.08	99.99	99.99	2	0.24	7.00	0.000000	115.15	plastic
1117	0.68	0.08	99.99	99.99	2	0.24	7.00	0.000000	115.15	plastic
1118	0.68	0.08	99.99	99.99	2	0.24	7.00	0.000000	115.15	plastic
1119	0.68	0.08	99.99	99.99	2	0.24	7.00	0.000000	115.15	plastic
1120	0.68	0.08	99.99	99.99	2	0.24	7.00	0.000000	115.15	plastic
1121	0.68	0.08	99.99	99.99	2	0.24	7.00	0.000000	115.15	plastic
1122	0.68	0.08	99.99	99.99	2	0.24	7.00	0.000000	115.15	plastic
1123	0.68	0.08	99.99	99.99	2	0.24	7.00	0.000000	115.15	plastic
1124	0.68	0.08	99.99	99.99	2	0.24	7.00	0.000000	115.15	plastic
1125	0.68	0.08	99.99	99.99	2	0.24	7.00	0.000000	115.15	plastic
1126	0.68	0.08	99.99	99.99	2	0.24	7.00	0.000000	115.15	plastic
1127	0.68	0.08	99.99	99.99	2	0.24	7.00	0.000000	115.15	plastic
1128	0.68	0.08	99.99	99.99	2	0.24	7.00	0.000000	115.15	plastic
1129	0.68	0.08	99.99	99.99	2	0.23	7.00	0.000000	115.15	plastic
1130	0.68	0.08	99.99	99.99	2	0.23	7.00	0.000000	115.15	plastic
1131	0.68	0.08	99.99	99.99	2	0.23	7.00	0.000000	115.15	plastic
1132	0.68	0.08	99.99	99.99	2	0.23	7.00	0.000000	115.15	plastic
1133	0.68	0.08	99.99	99.99	2	0.23	7.00	0.000000	115.15	plastic
1134	0.68	0.08	99.99	99.99	2	0.23	7.00	0.000000	115.15	plastic
1135	0.68	0.08	99.99	99.99	2	0.23	7.00	0.000000	115.15	plastic
1136	0.68	0.08	99.99	99.99	2	0.23	7.00	0.000000	115.15	plastic
1137	0.68	0.08	99.99	99.99	2	0.23	7.00	0.000000	115.15	plastic
1138	0.68	0.09	99.99	99.99	2	0.23	7.00	0.000000	115.15	plastic
1139	0.68	0.09	99.99	99.99	2	0.23	7.00	0.000000	115.15	plastic
1140	0.68	0.08	99.99	99.99	2	0.23	7.00	0.000000	115.15	plastic
1141	0.68	0.09	99.99	99.99	2	0.23	7.00	0.000000	115.15	plastic
1142	0.68	0.10	99.99	99.99	3	0.23	5.00	0.000000	115.15	plastic
1143	0.68	0.10	99.99	99.99	4	0.23	4.40	0.000000	115.15	plastic
1144	0.68	0.11	0.09	0.38	6	0.23	3.50	0.000875	116.03	granular
1145	0.68	0.12	0.09	0.40	6	0.23	3.50	0.000875	116.90	granular
1146	0.68	0.14	0.11	0.49	7	0.23	3.00	0.000750	117.65	granular
1147	0.68	0.16	0.13	0.55	7	0.23	3.00	0.000750	118.40	granular
1148	0.68	0.17	99.99	99.99	7	0.23	3.00	0.000000	118.40	plastic
1149	0.68	0.18	99.99	99.99	6	0.23	3.50	0.000000	118.40	plastic
1150	0.68	0.20	99.99	99.99	5	0.23	4.00	0.000000	118.40	plastic
1151	0.68	0.18	99.99	99.99	6	0.23	3.50	0.000000	118.40	plastic
1152	0.68	0.17	99.99	99.99	6	0.23	3.50	0.000000	118.40	plastic
1153	0.68	0.16	0.13	0.55	8	0.23	2.90	0.000725	119.13	granular
1154	0.68	0.19	0.15	0.65	8	0.23	2.90	0.000725	119.85	granular
1155	0.68	0.17	0.14	0.59	9	0.23	2.80	0.000700	120.55	granular
1156	0.68	0.17	0.13	0.57	8	0.23	2.90	0.000725	121.28	granular
1157	0.68	0.15	0.12	0.51	8	0.23	2.90	0.000725	122.00	granular
1158	0.68	0.15	0.12	0.50	13	0.23	2.10	0.000525	122.53	granular
1159	0.68	0.15	0.12	0.52	17	0.23	1.60	0.000400	122.93	granular
1160	0.68	0.16	0.13	0.54	16	0.23	1.70	0.000425	123.35	granular
1161	0.67	0.15	0.12	0.51	13	0.23	2.10	0.000525	123.88	granular
1162	0.67	0.13	0.10	0.45	8	0.23	2.90	0.000725	124.60	granular
1163	0.67	0.14	99.99	99.99	5	0.23	4.00	0.000000	124.60	plastic
1164	0.67	0.14	99.99	99.99	3	0.23	5.00	0.000000	124.60	plastic
1165	0.67	0.14	99.99	99.99	3	0.23	5.00	0.000000	124.60	plastic
1166	0.67	0.12	99.99	99.99	3	0.23	5.00	0.000000	124.60	plastic
1167	0.67	0.11	99.99	99.99	3	0.23	5.00	0.000000	124.60	plastic
1168	0.67	0.11	99.99	99.99	3	0.23	5.00	0.000000	124.60	plastic
1169	0.67	0.10	99.99	99.99	2	0.23	7.00	0.000000	124.60	plastic
1170	0.67	0.10	99.99	99.99	3	0.23	5.00	0.000000	124.60	plastic
1171	0.67	0.11	99.99	99.99	4	0.23	4.40	0.000000	124.60	plastic
1172	0.67	0.11	0.09	0.38	6	0.23	3.50	0.000875	125.48	granular
1173	0.67	0.12	0.09	0.40	6	0.23	3.50	0.000875	126.35	granular
1174	0.67	0.12	99.99	99.99	5	0.23	4.00	0.000000	126.35	plastic
1175	0.67	0.13	99.99	99.99	4	0.23	4.40	0.000000	126.35	plastic
1176	0.67	0.12	99.99	99.99	3	0.23	5.00	0.000000	126.35	plastic
1177	0.67	0.12	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1178	0.67	0.10	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1179	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1180	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1181	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1182	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1183	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1184	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1185	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic

	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
1256	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1257	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1258	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1259	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1260	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1261	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1262	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1263	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1264	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1265	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1266	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1267	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1268	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1269	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1270	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1271	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1272	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1273	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1274	0.67	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1275	0.68	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1276	0.68	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1277	0.68	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1278	0.68	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1279	0.68	0.09	99.99	99.99	2	0.23	7.00	0.000000	126.35	plastic
1280	0.68	0.10	99.99	99.99	4	0.23	4.40	0.000000	126.35	plastic
1281	0.68	0.10	0.08	0.37	5	0.23	4.00	0.001000	127.35	granular
1282	0.68	0.11	0.09	0.39	5	0.23	4.00	0.001000	128.35	granular
1283	0.68	0.13	99.99	99.99	4	0.23	4.40	0.000000	128.35	plastic
1284	0.68	0.14	99.99	99.99	4	0.23	4.40	0.000000	128.35	plastic
1285	0.68	0.14	0.11	0.49	7	0.23	3.00	0.000750	129.10	granular
1286	0.68	0.15	0.12	0.55	15	0.23	1.90	0.000475	129.58	granular
1287	0.68	0.17	0.14	0.61	18	0.23	1.50	0.000375	129.95	granular
1288	0.68	0.17	0.14	0.62	17	0.23	1.60	0.000400	130.35	granular
1289	0.68	0.18	0.15	0.65	15	0.23	1.90	0.000475	130.83	granular
1290	0.68	0.20	0.16	0.71	13	0.23	2.10	0.000525	131.35	granular
1291	0.68	0.18	0.15	0.64	8	0.23	2.90	0.000725	132.08	granular
1292	0.68	0.18	99.99	99.99	6	0.23	3.50	0.000000	132.08	plastic
1293	0.68	0.17	99.99	99.99	4	0.23	4.40	0.000000	132.08	plastic
1294	0.68	0.15	99.99	99.99	3	0.23	5.00	0.000000	132.08	plastic
1295	0.68	0.12	99.99	99.99	3	0.23	5.00	0.000000	132.08	plastic
1296	0.68	0.11	99.99	99.99	3	0.23	5.00	0.000000	132.08	plastic
1297	0.68	0.09	99.99	99.99	3	0.23	5.00	0.000000	132.08	plastic
1298	0.68	0.09	99.99	99.99	2	0.23	7.00	0.000000	132.08	plastic
1299	0.68	0.09	99.99	99.99	2	0.23	7.00	0.000000	132.08	plastic
1300	0.68	0.09	99.99	99.99	2	0.23	7.00	0.000000	132.08	plastic
1301	0.68	0.09	99.99	99.99	2	0.23	7.00	0.000000	132.08	plastic
1302	0.68	0.09	99.99	99.99	2	0.23	7.00	0.000000	132.08	plastic
1303	0.68	0.09	99.99	99.99	2	0.23	7.00	0.000000	132.08	plastic
1304	0.68	0.09	99.99	99.99	2	0.23	7.00	0.000000	132.08	plastic
1305	0.68	0.09	99.99	99.99	2	0.23	7.00	0.000000	132.08	plastic
1306	0.68	0.09	99.99	99.99	2	0.23	7.00	0.000000	132.08	plastic
1307	0.68	0.09	99.99	99.99	2	0.23	7.00	0.000000	132.08	plastic
1308	0.68	0.10	99.99	99.99	2	0.23	7.00	0.000000	132.08	plastic
1309	0.68	0.10	99.99	99.99	2	0.23	7.00	0.000000	132.08	plastic
1310	0.68	0.10	99.99	99.99	2	0.23	7.00	0.000000	132.08	plastic
1311	0.68	0.10	99.99	99.99	2	0.23	7.00	0.000000	132.08	plastic
1312	0.68	0.12	99.99	99.99	3	0.23	5.00	0.000000	132.08	plastic
1313	0.68	0.14	99.99	99.99	4	0.23	4.40	0.000000	132.08	plastic
1314	0.68	0.15	99.99	99.99	6	0.23	3.50	0.000000	132.08	plastic
1315	0.68	0.15	0.12	0.54	8	0.23	2.90	0.000725	132.80	granular
1316	0.68	0.14	0.11	0.51	8	0.23	2.90	0.000725	133.53	granular
1317	0.68	0.14	0.11	0.51	7	0.22	3.00	0.000750	134.28	granular
1318	0.68	0.14	99.99	99.99	6	0.22	3.50	0.000000	134.28	plastic
1319	0.68	0.14	99.99	99.99	5	0.22	4.00	0.000000	134.28	plastic
1320	0.68	0.14	99.99	99.99	4	0.22	4.40	0.000000	134.28	plastic
1321	0.68	0.13	99.99	99.99	3	0.22	5.00	0.000000	134.28	plastic
1322	0.68	0.12	99.99	99.99	3	0.22	5.00	0.000000	134.28	plastic
1323	0.68	0.12	99.99	99.99	2	0.22	7.00	0.000000	134.28	plastic
1324	0.68	0.11	99.99	99.99	2	0.22	7.00	0.000000	134.28	plastic
1325	0.68	0.10	99.99	99.99	2	0.22	7.00	0.000000	134.28	plastic

APPENDIX B

CLEAN SAND TIP RESISTANCE, SLEEVE FRICTION, AND PORE PRESSURE VERSUS DEPTH

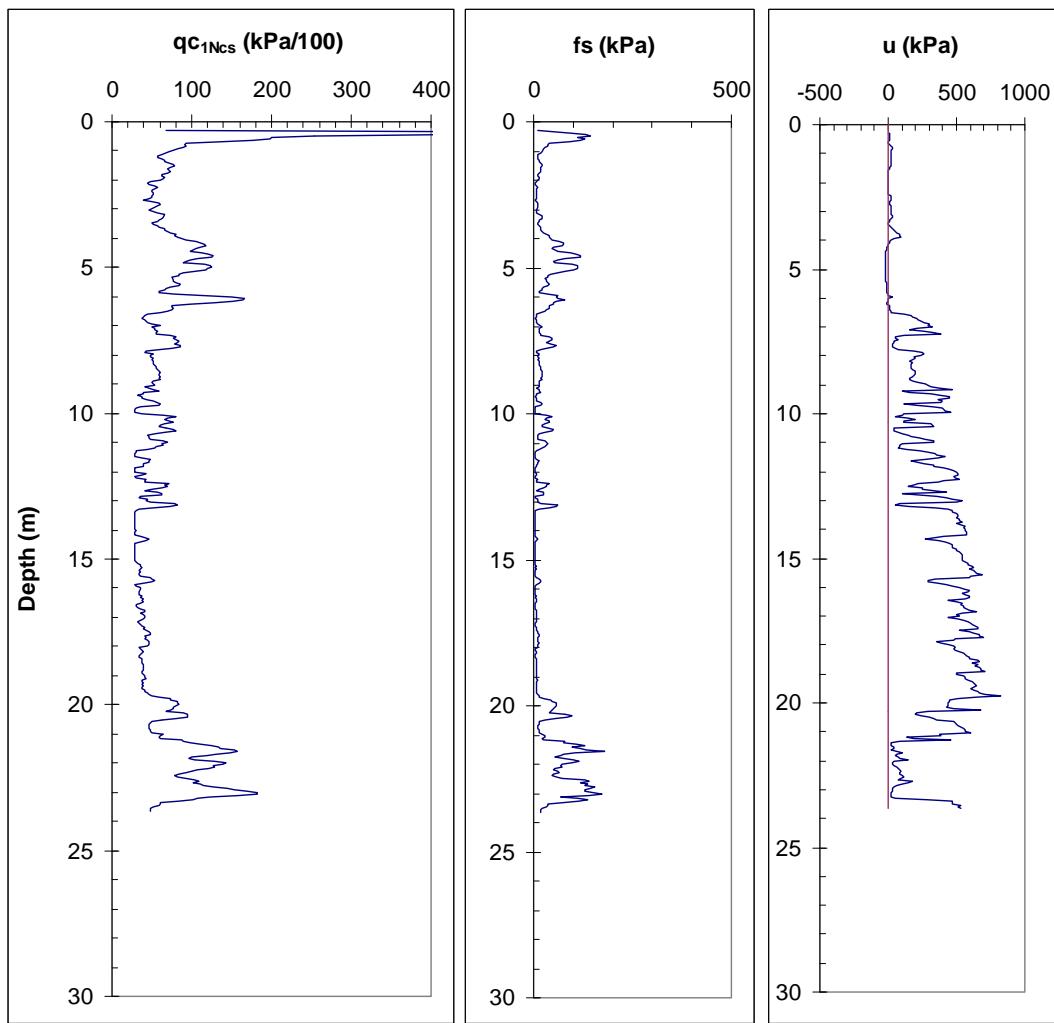


Figure 9 – Data Plots for CP-1 425W 400S

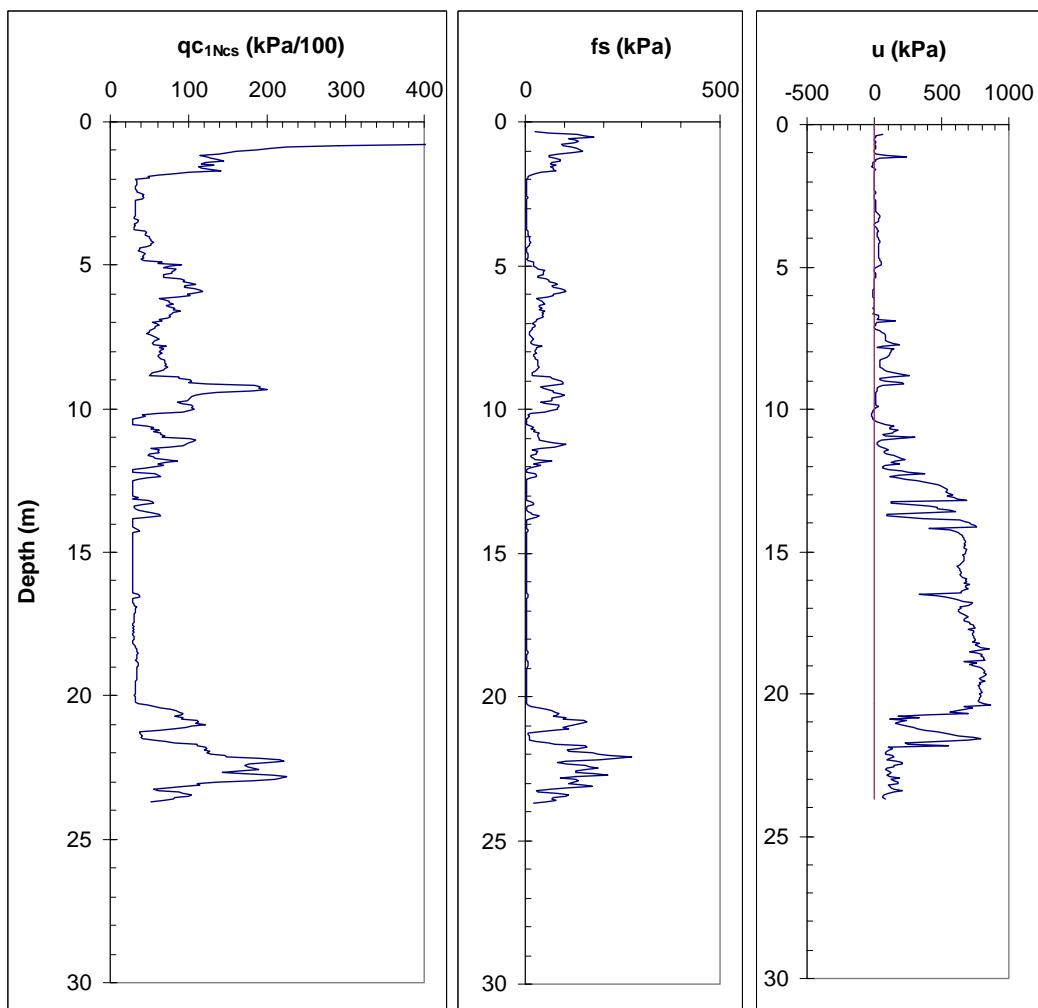


Figure 10 – Data Plots for CP-2 343W 400S

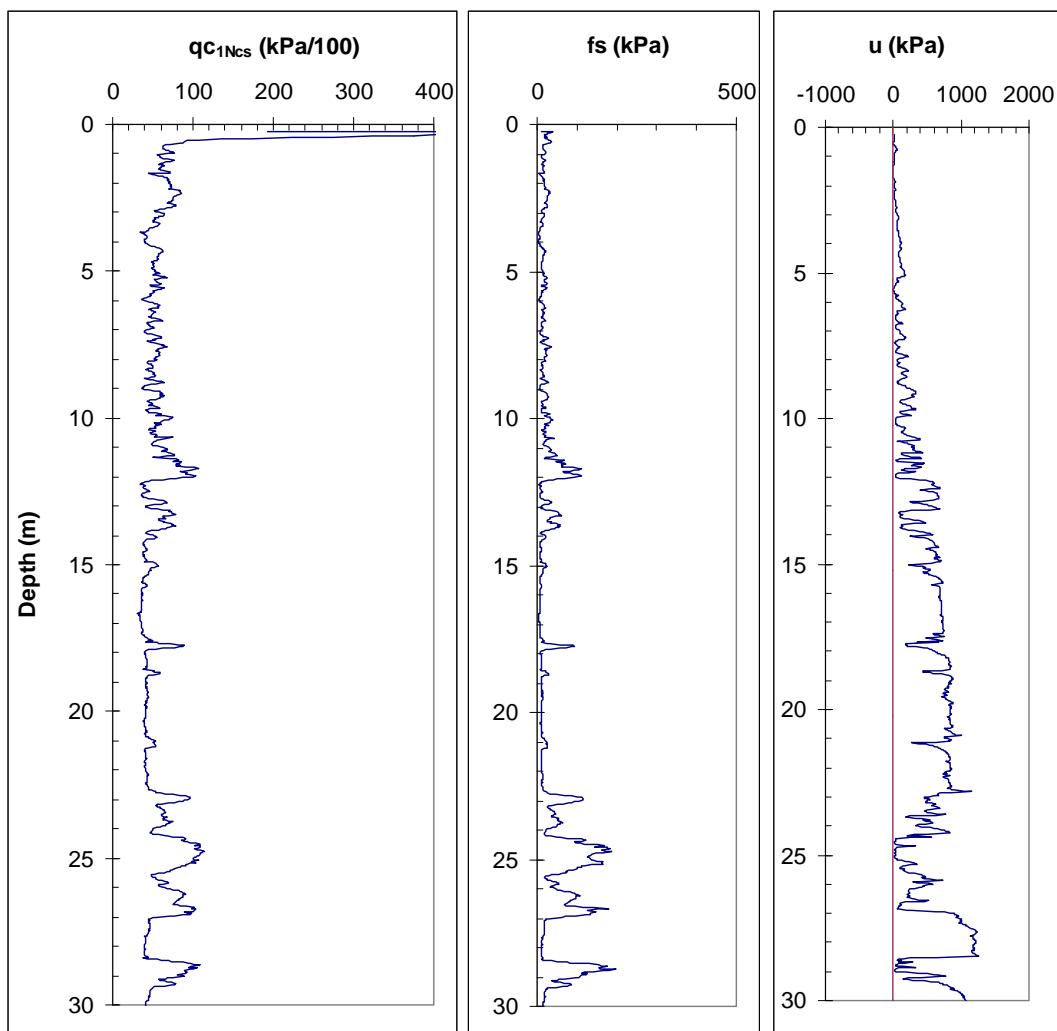


Figure 11 – Data Plots for CP-3 235W 400S

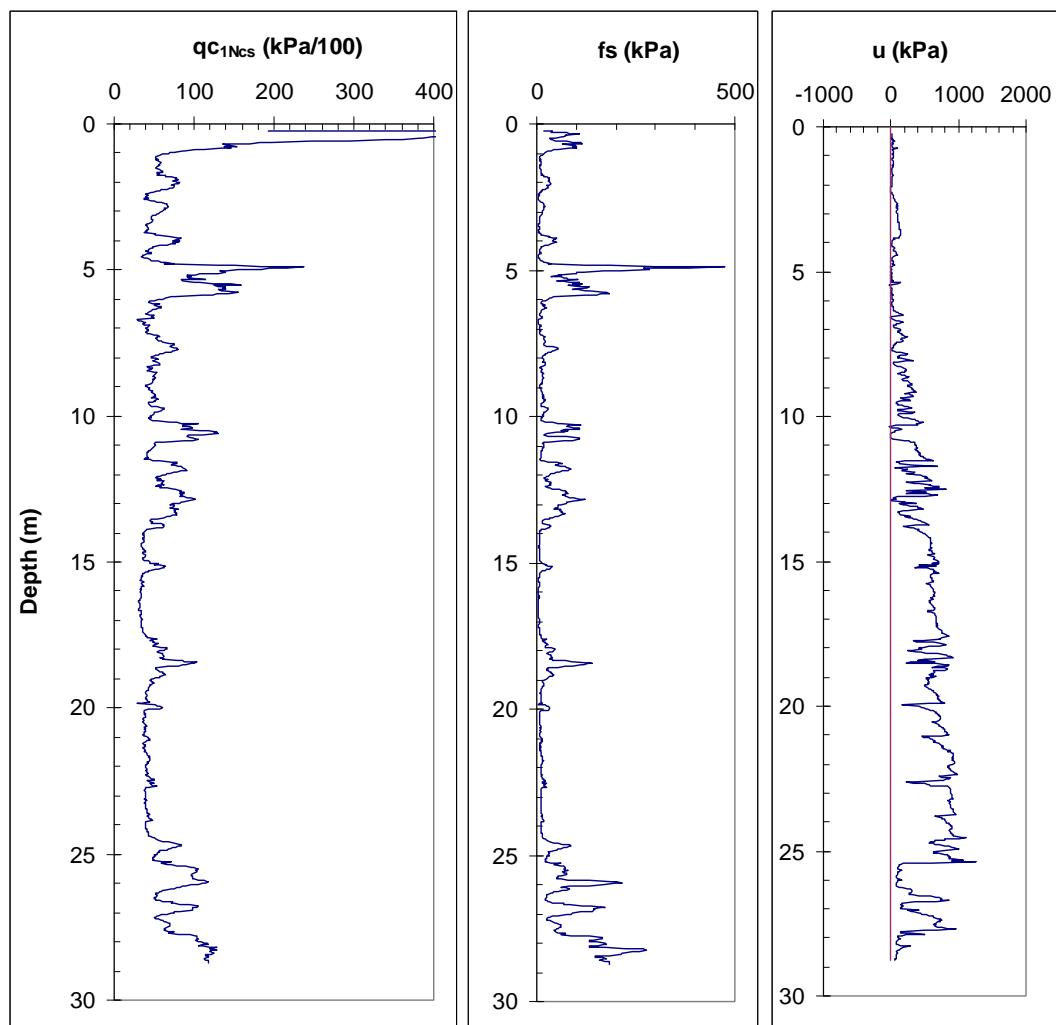


Figure 12 – Data Plots for CP-4 130W 400S

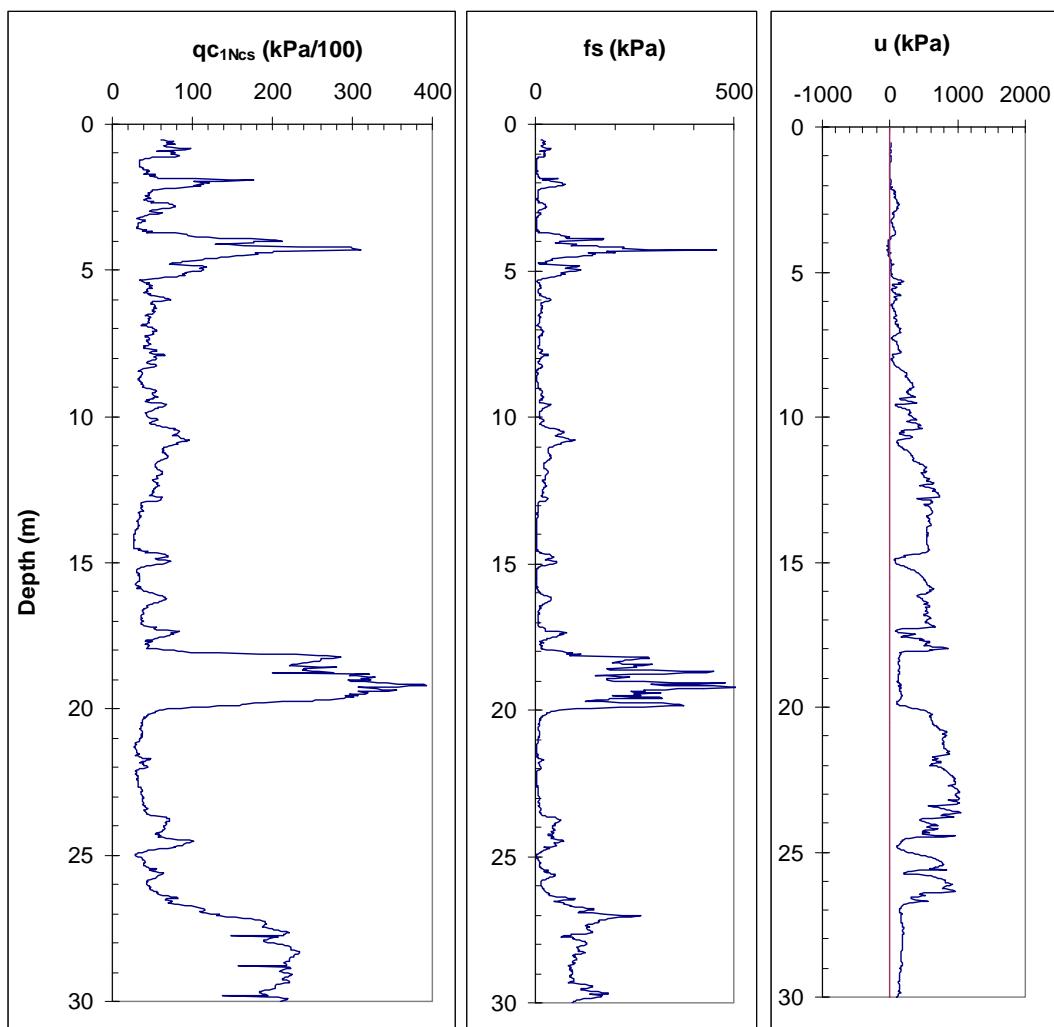


Figure 13 – Data Plots for CP-5 56 W 400 S

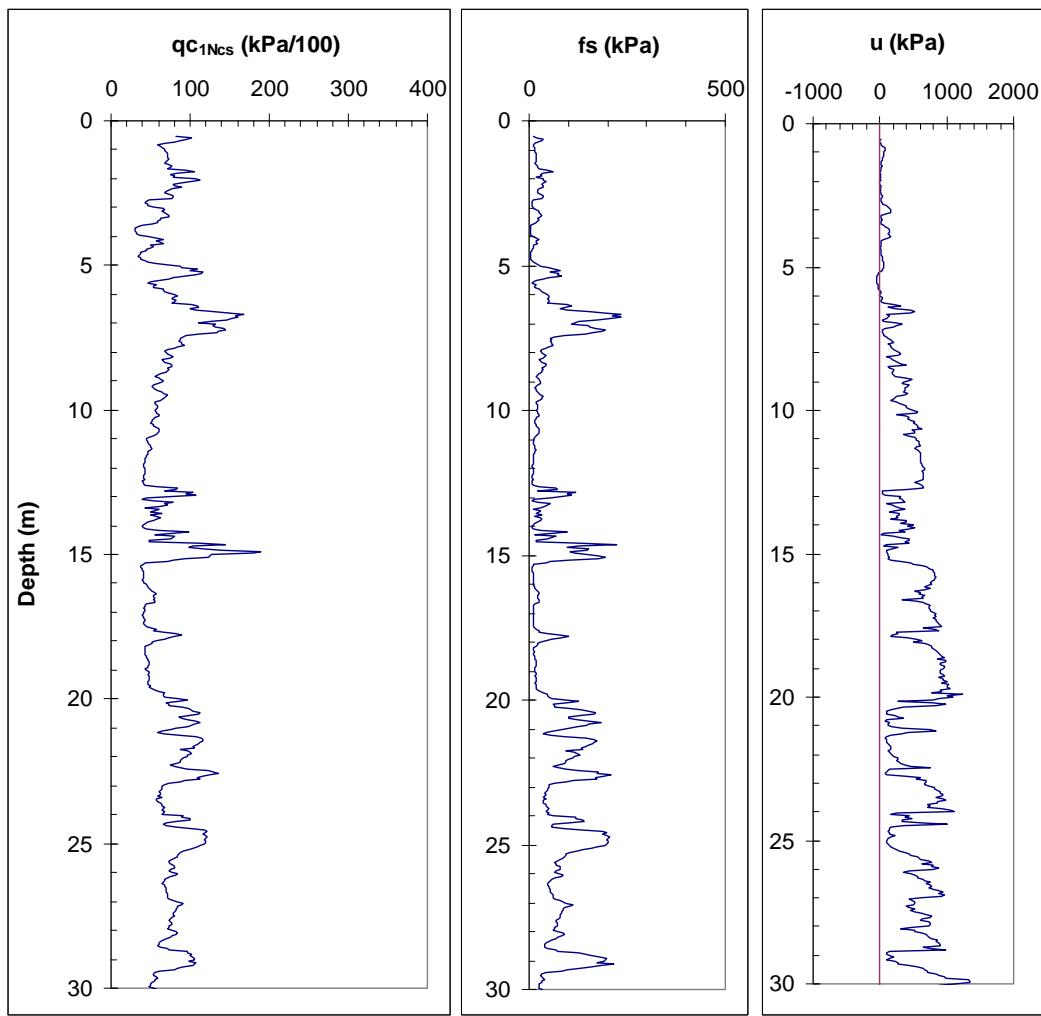


Figure 14 – Data Plots for CP-6 29 E 400 S

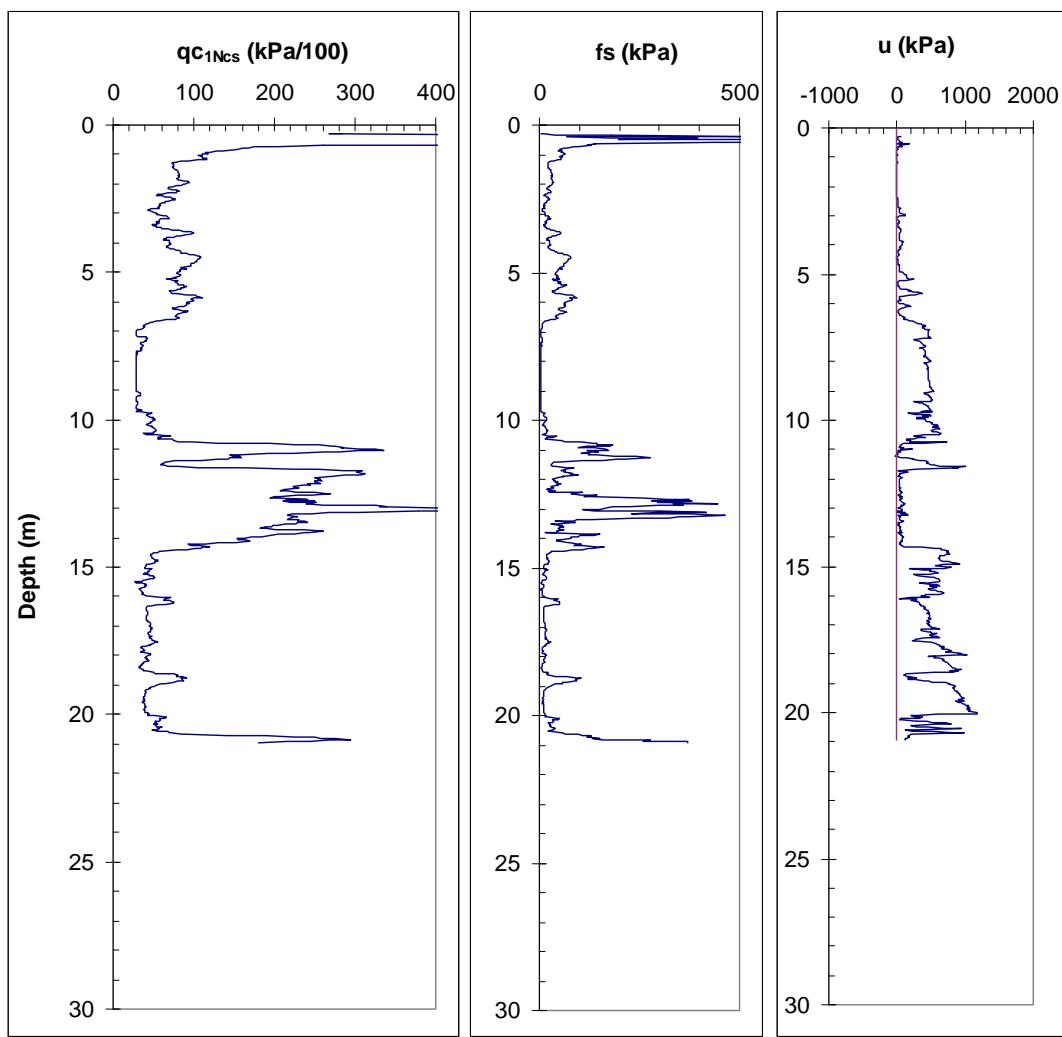


Figure 15 – Data Plots for CP-7 175 E 400 S

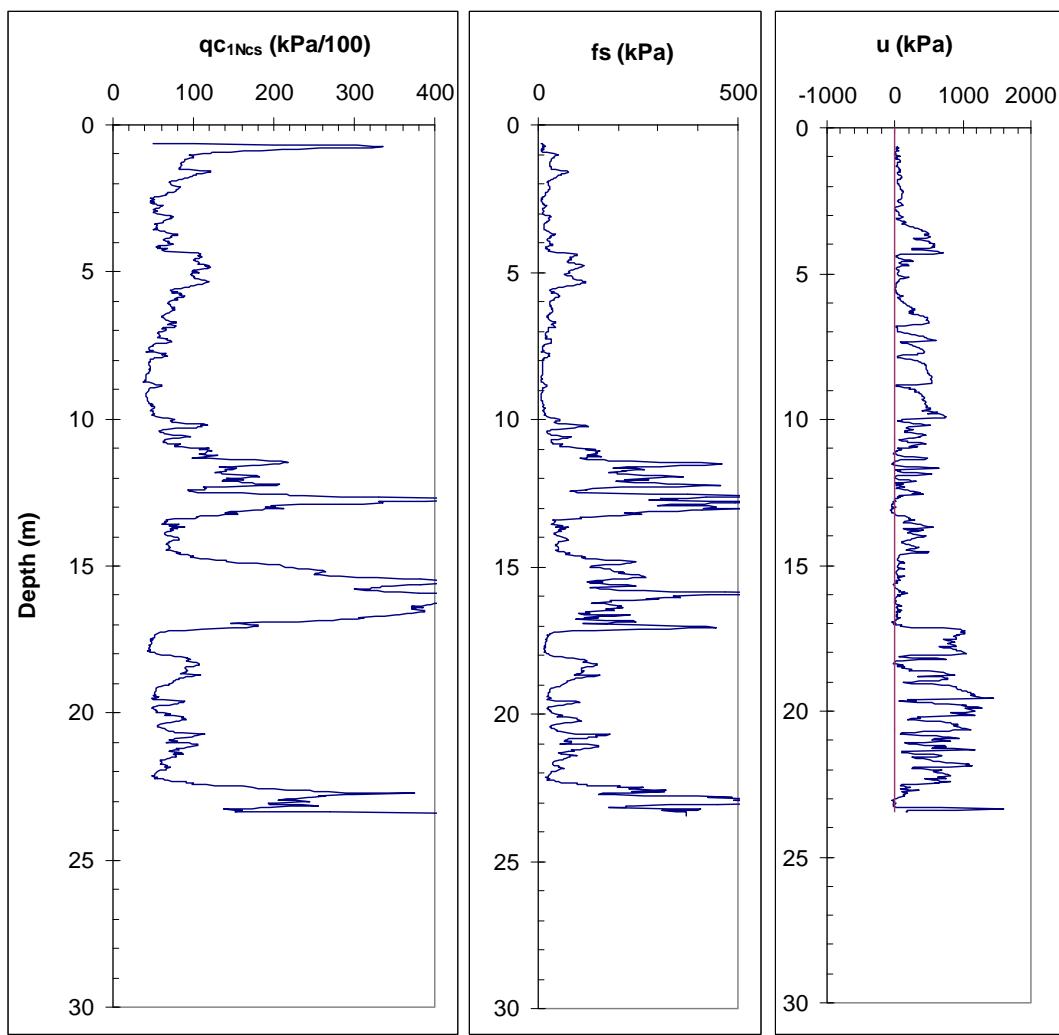


Figure 16 – Data Plots for CP-8 225 E 400 S

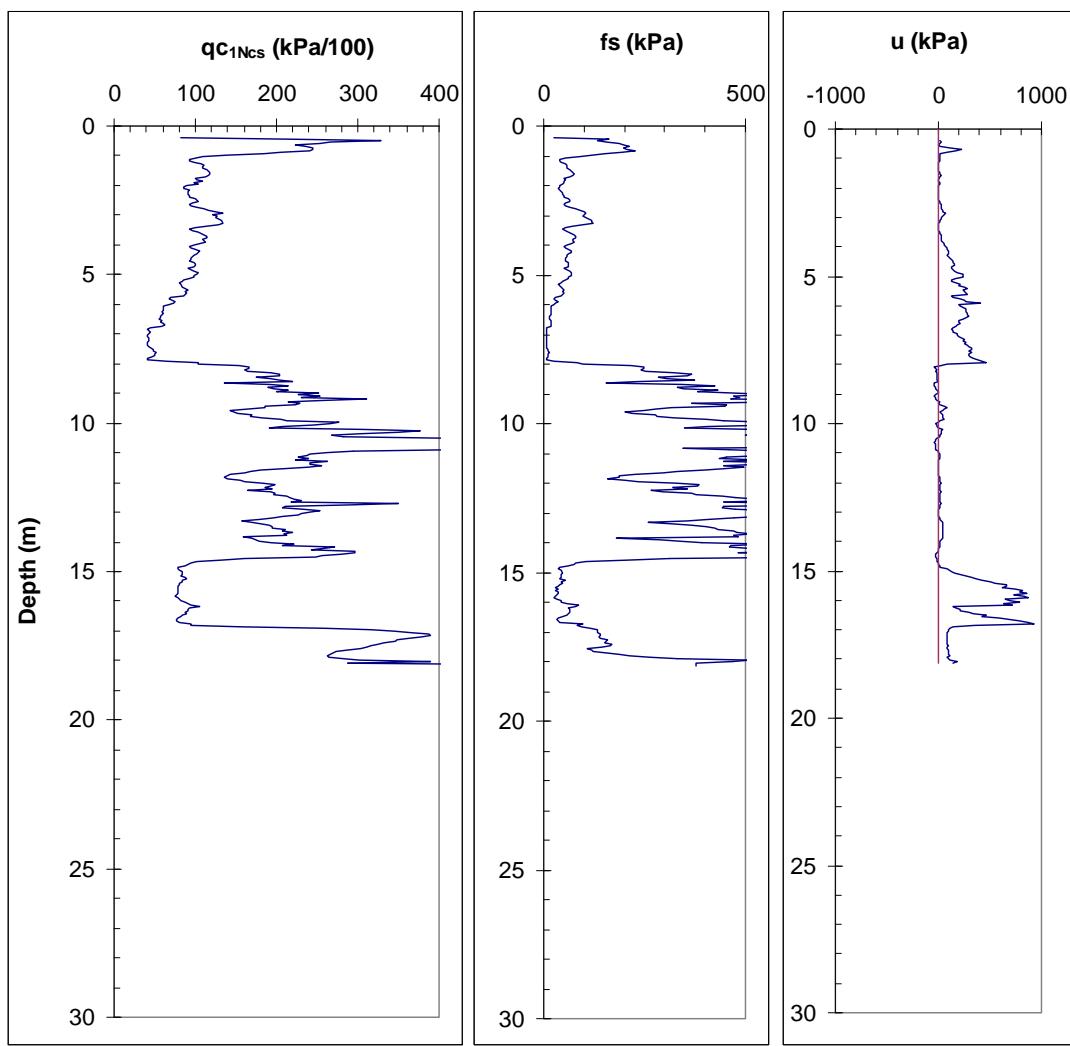


Figure 17 – Data Plots for CP-9 266 E 500 S

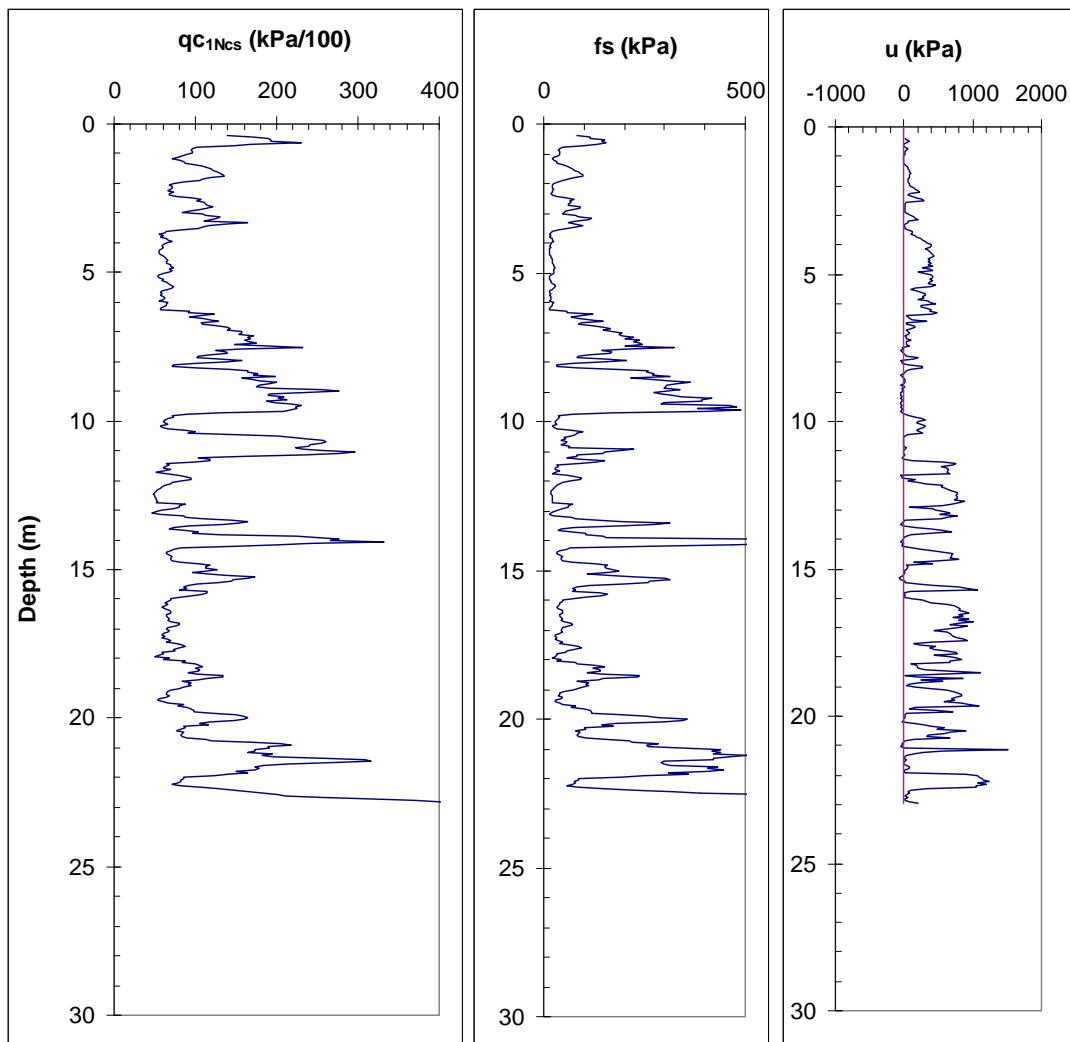


Figure 18 – Data Plots for CP-10 228 E 500 S

APPENDIX C

CSRE VERSUS CRR, FS AGAINST LIQUEFACTION, $(N_1)_{60}$ AND SETTLEMENT VERSUS DEPTH

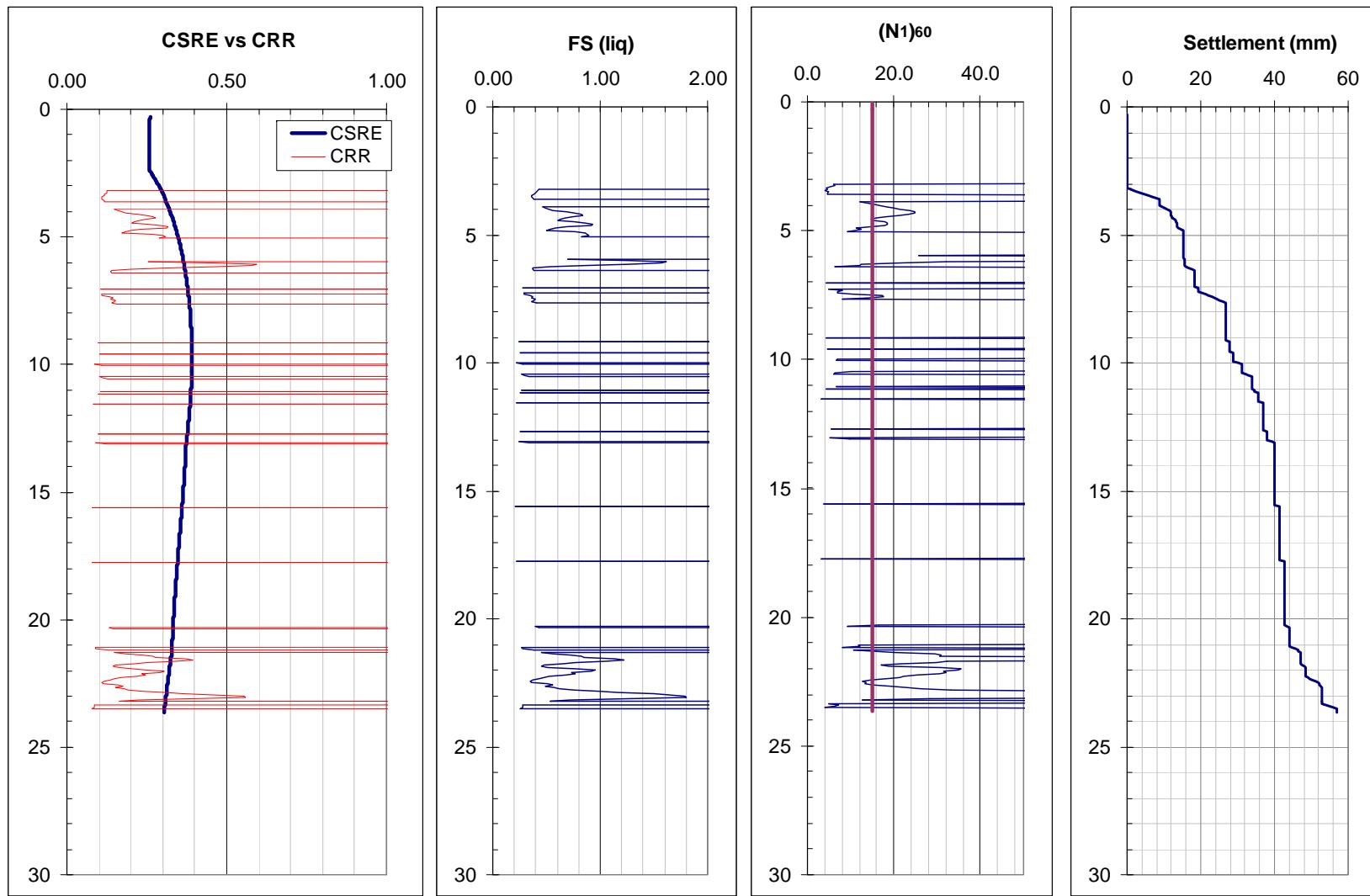


Figure 19 – Analysis plots for CP-1 425 W 400 S

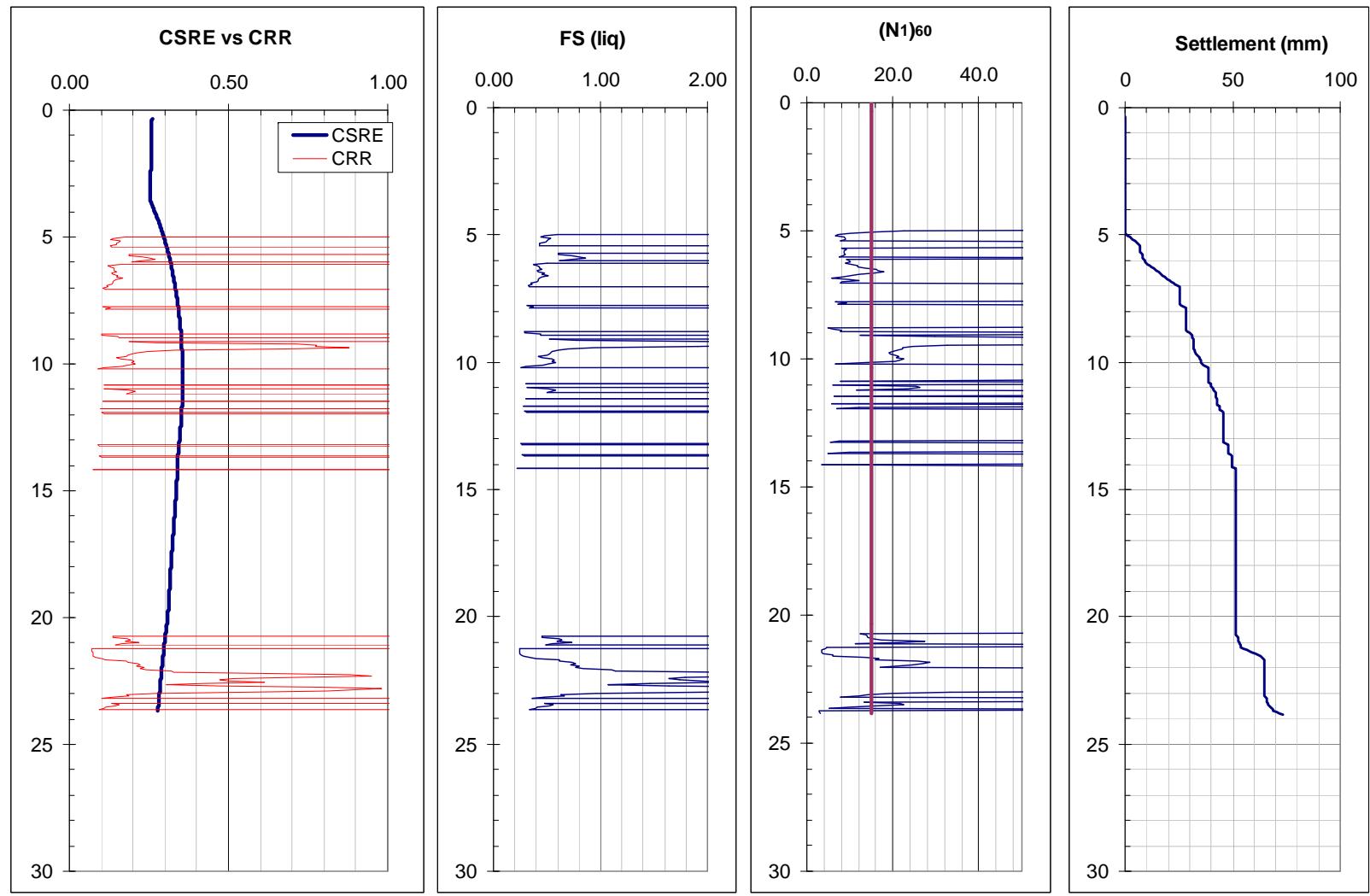


Figure 20 – Analysis plots for CP-2 343 W 400 S

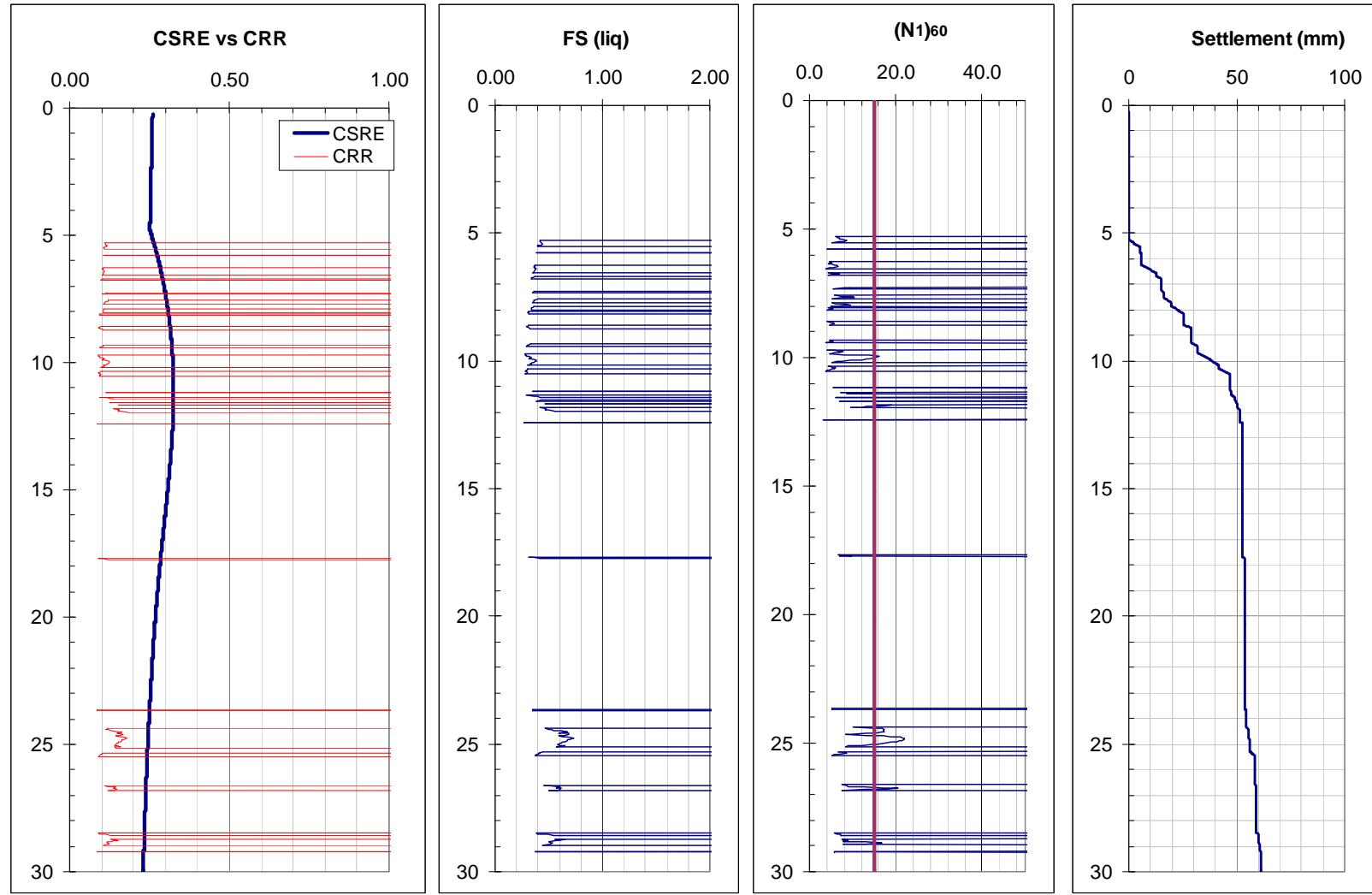


Figure 21 – Analysis plots for CP-3 235 W 400 S

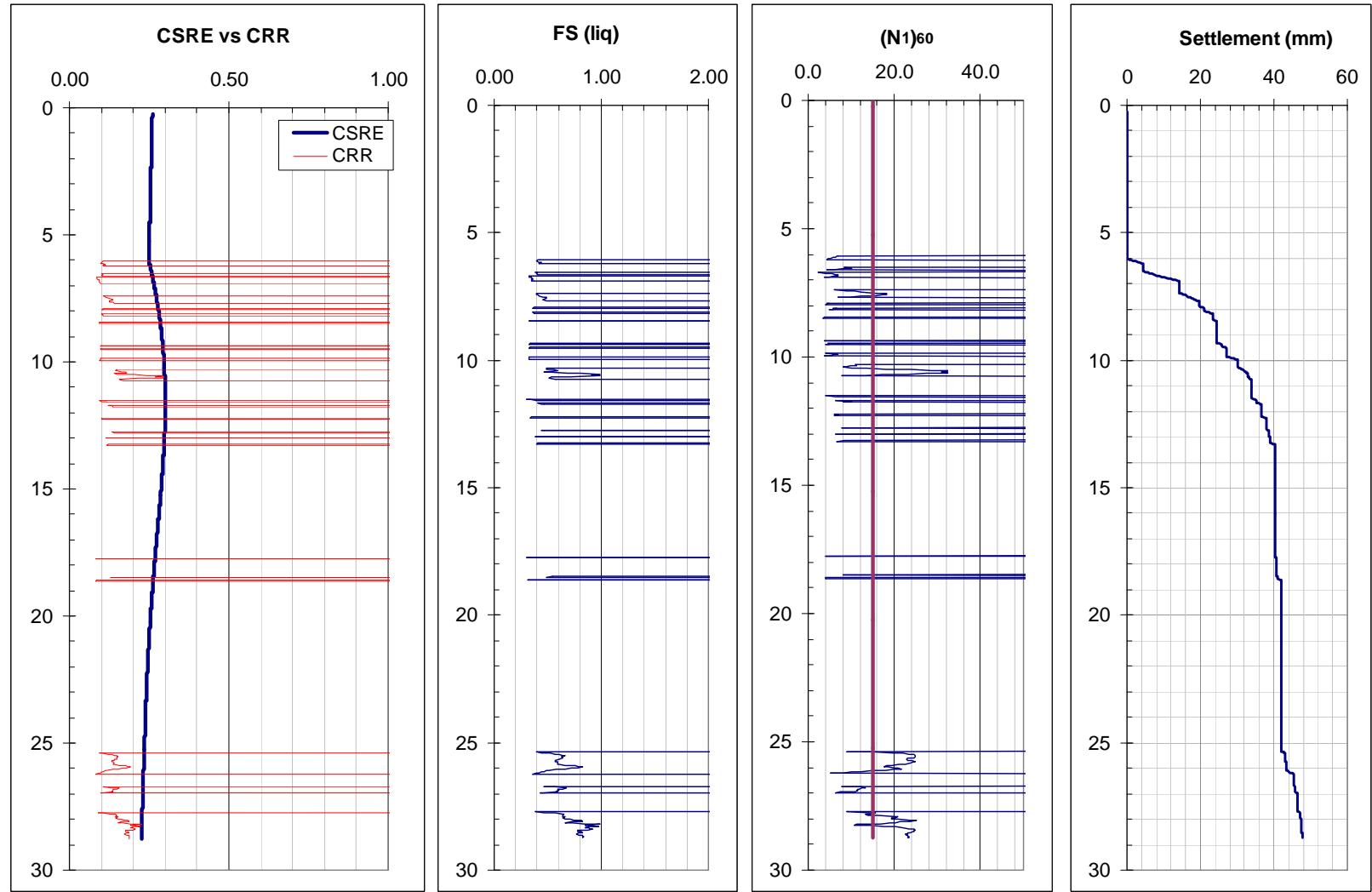


Figure 22 – Analysis plots for CP-4 130 W 400 S

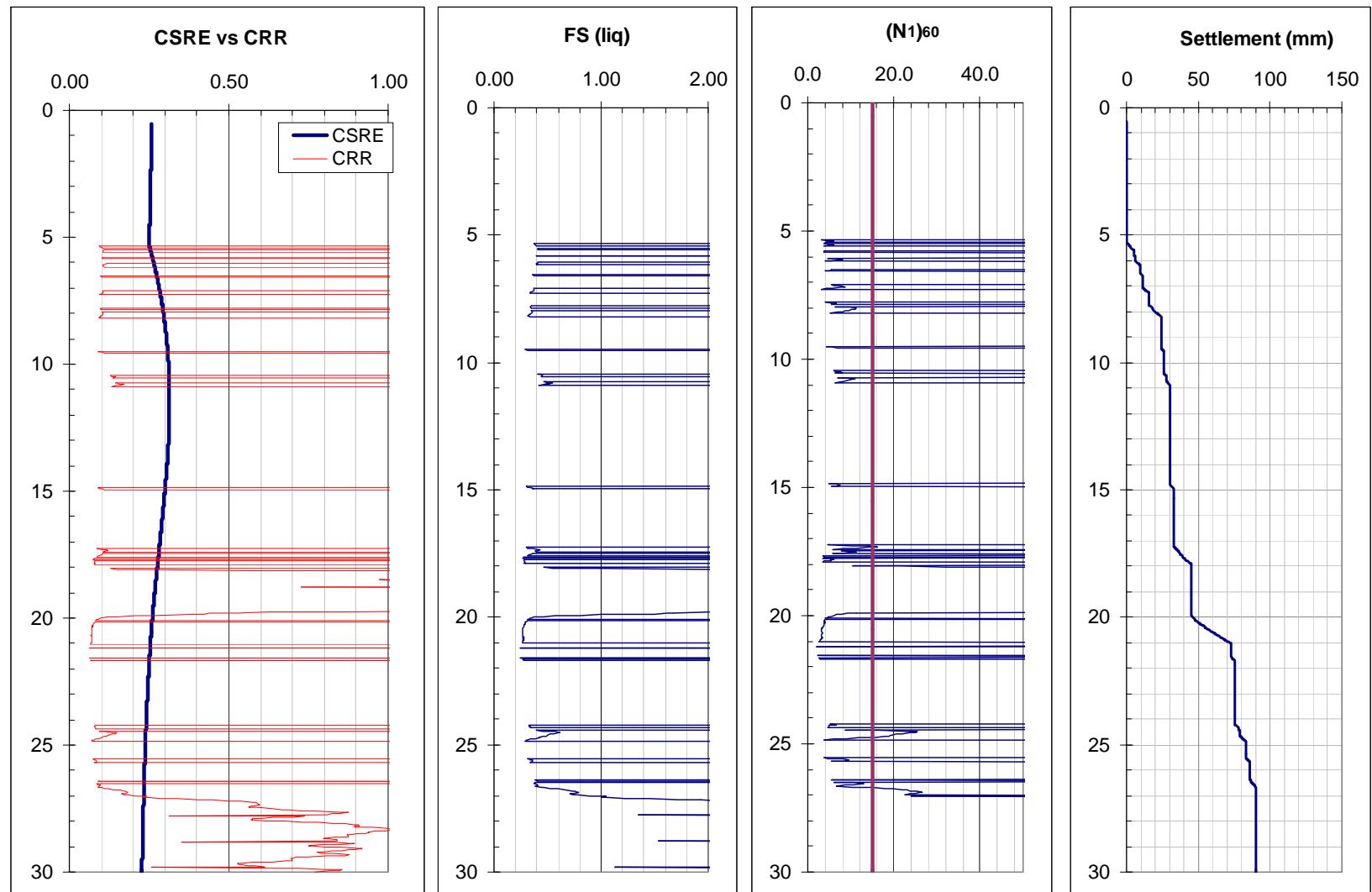


Figure 23 – Analysis plots for CP-5 56 W 400 S

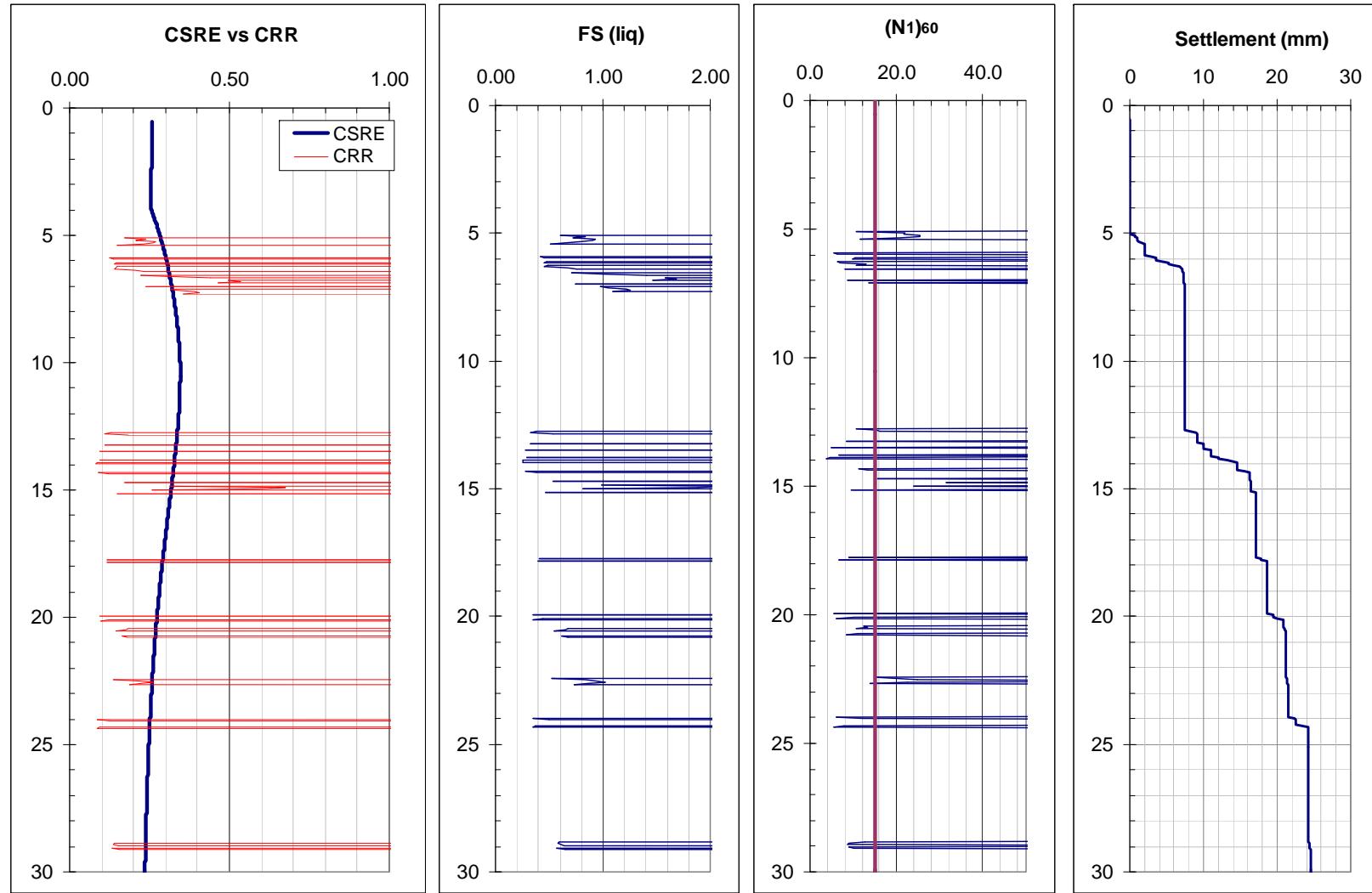


Figure 24 – Analysis plots for CP-6 29 E 400 S

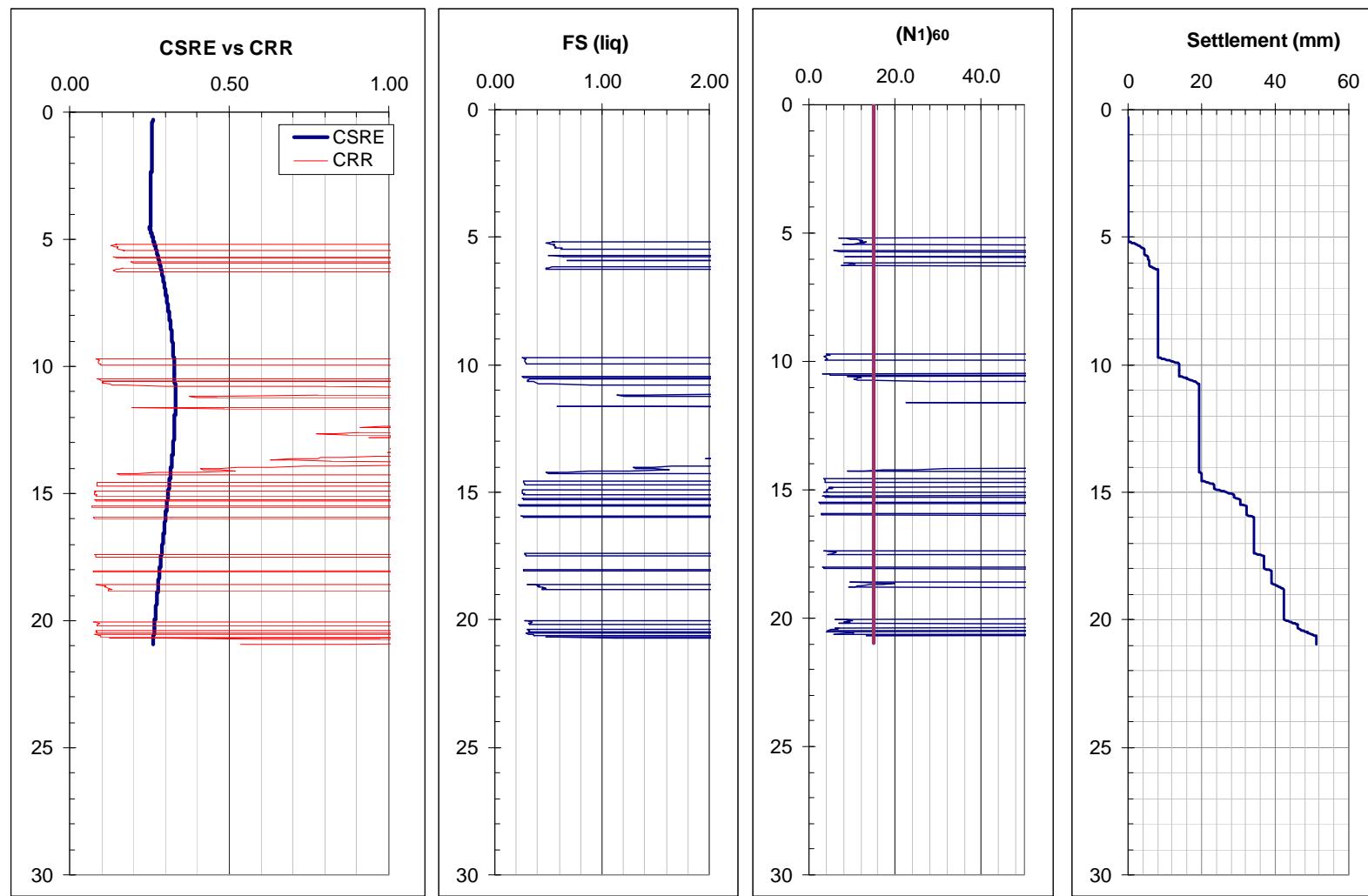


Figure 25 – Analysis plots for CP-7 175 E 400 S

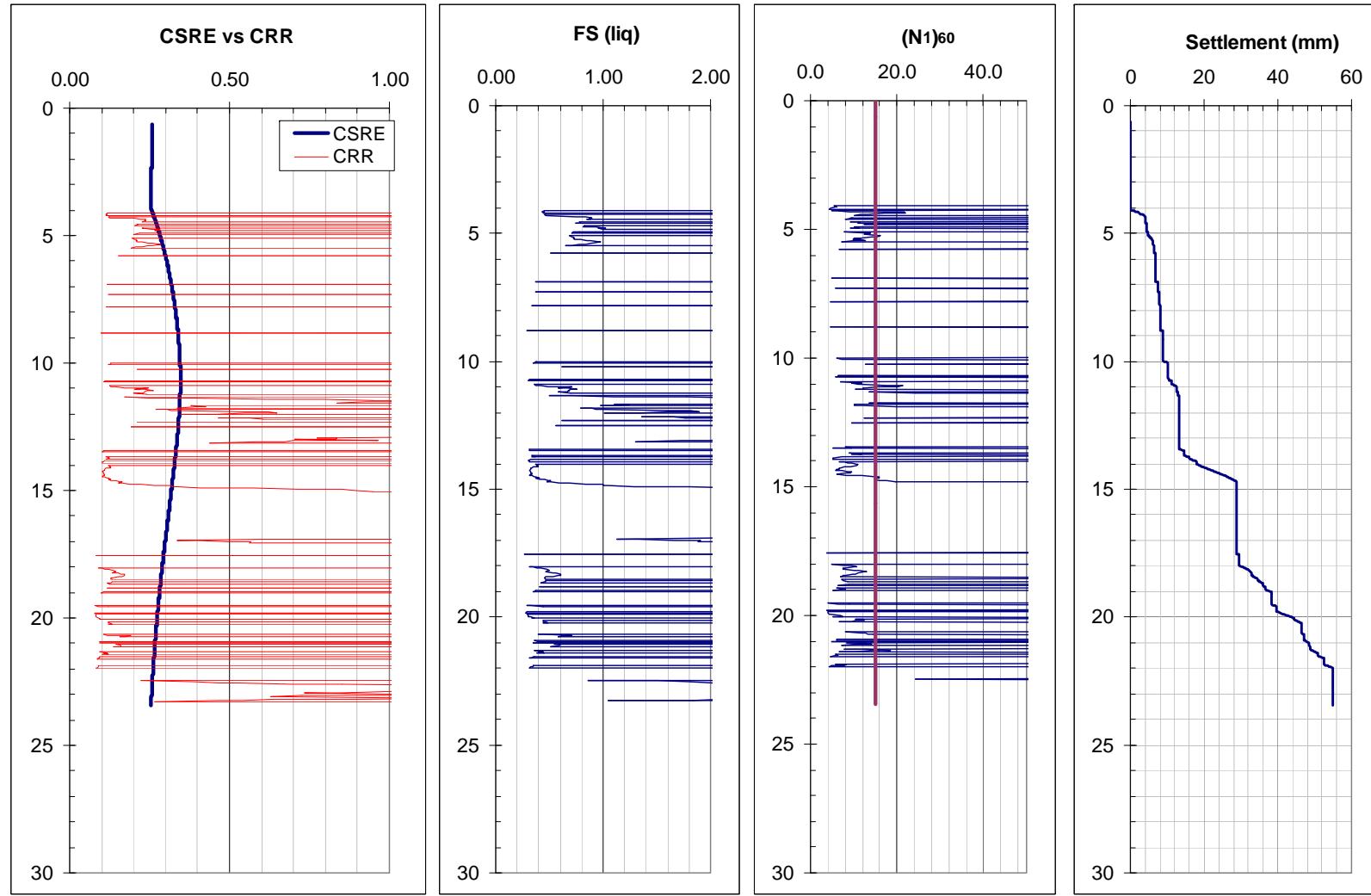


Figure 26 – Analysis plots for CP-8 225 E 400 S

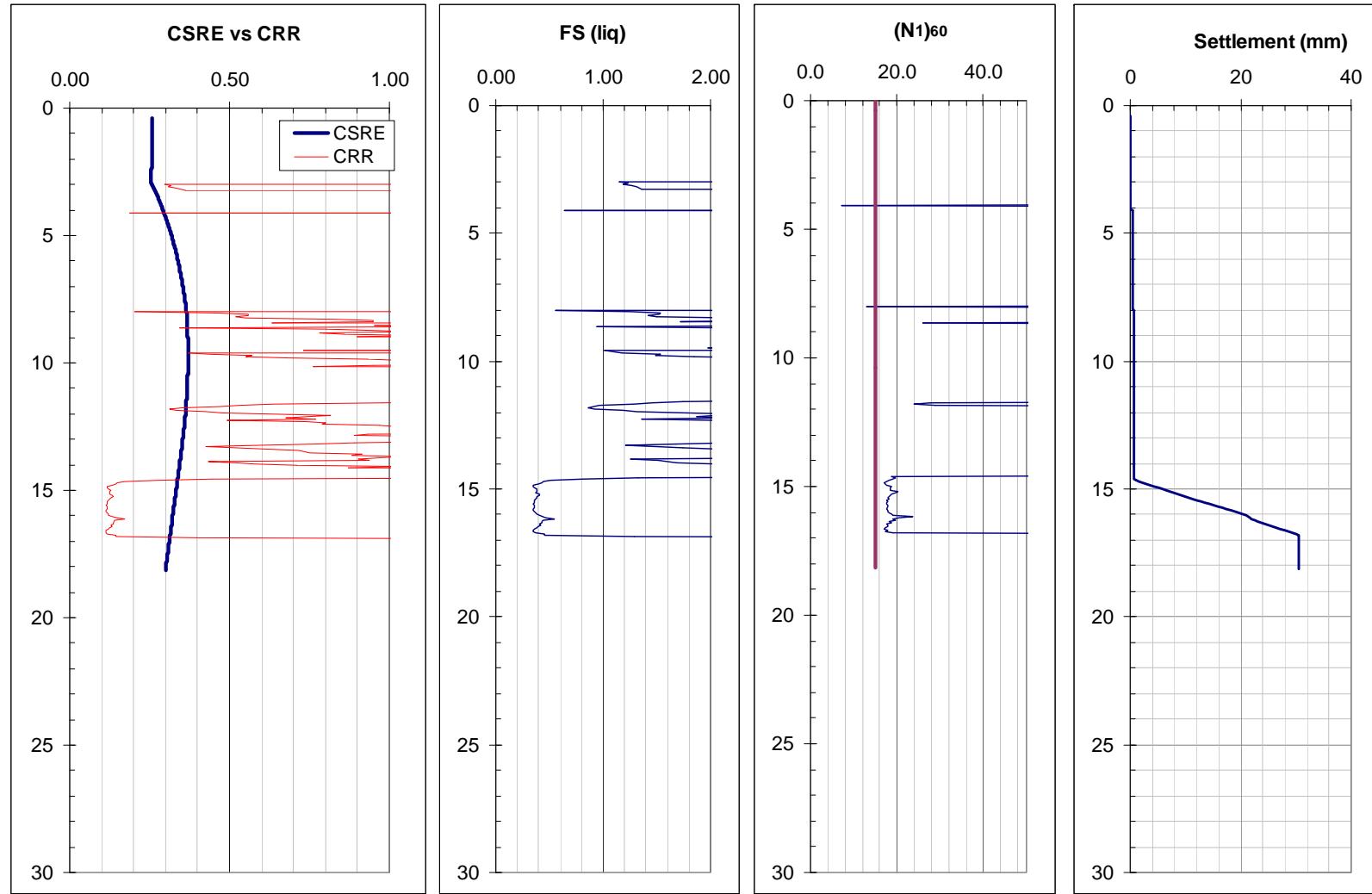


Figure 27 – Analysis plots for CP-9 266 E 500 S

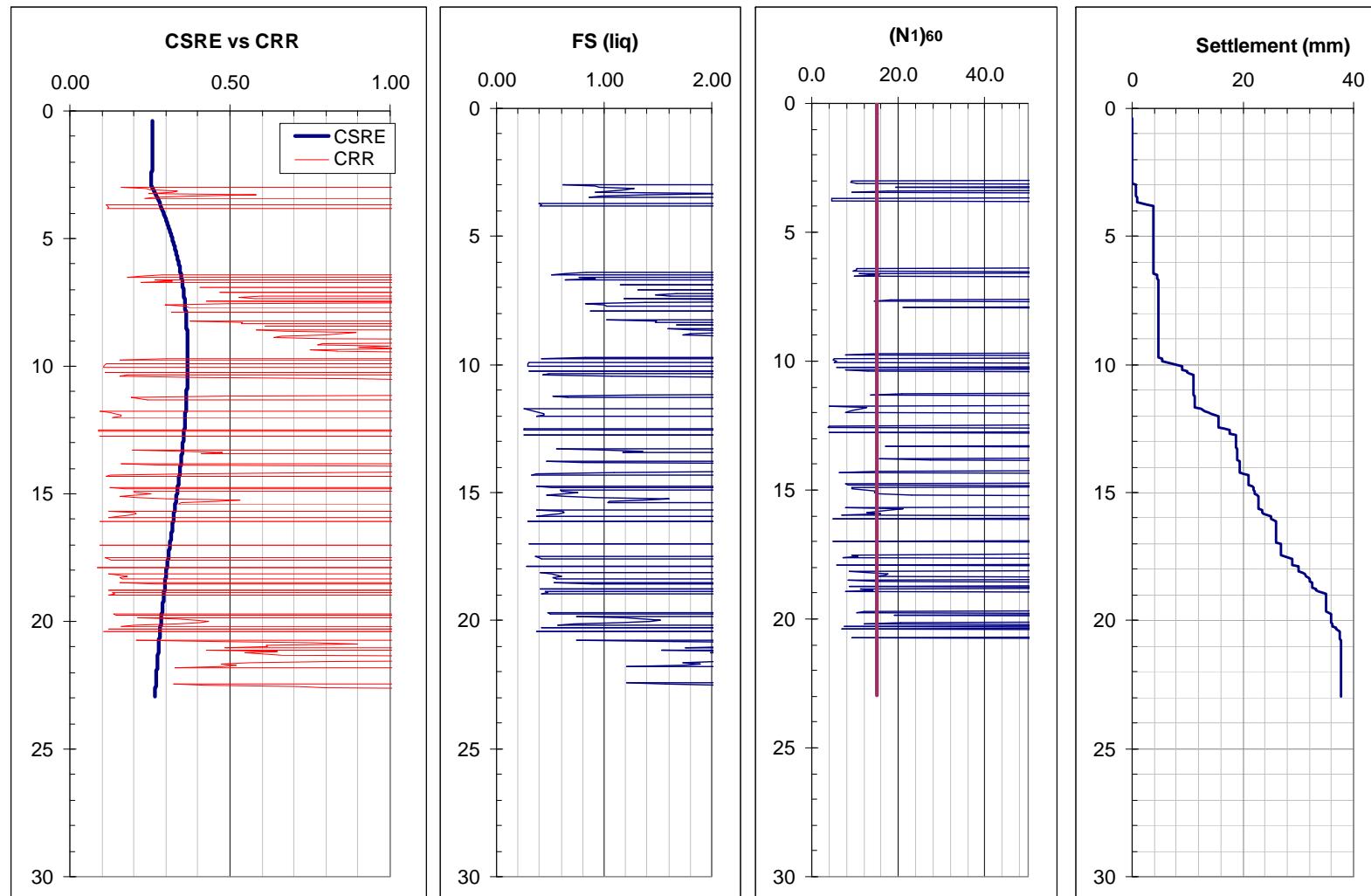


Figure 28 – Analysis plots for CP-10 228 E 500 S

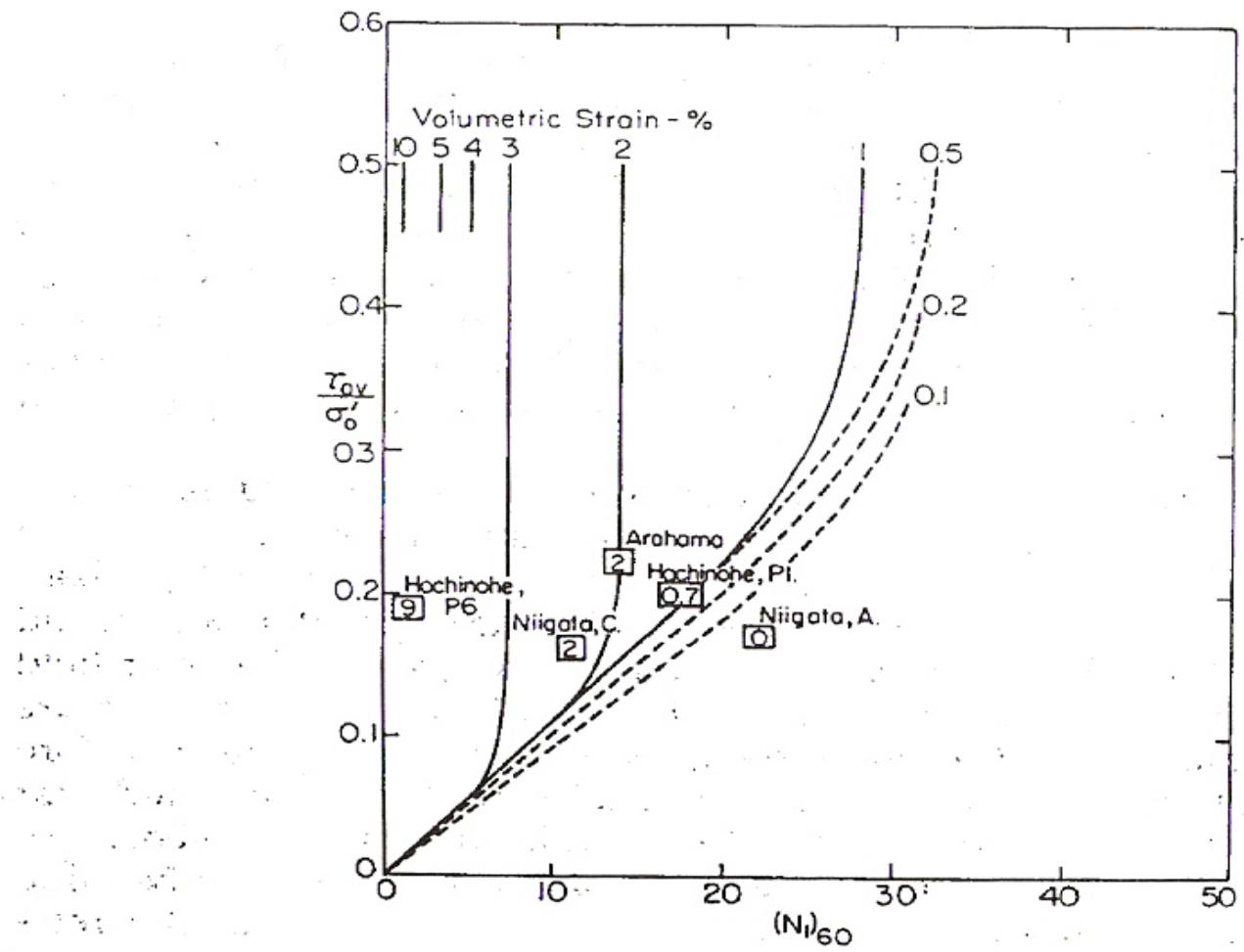
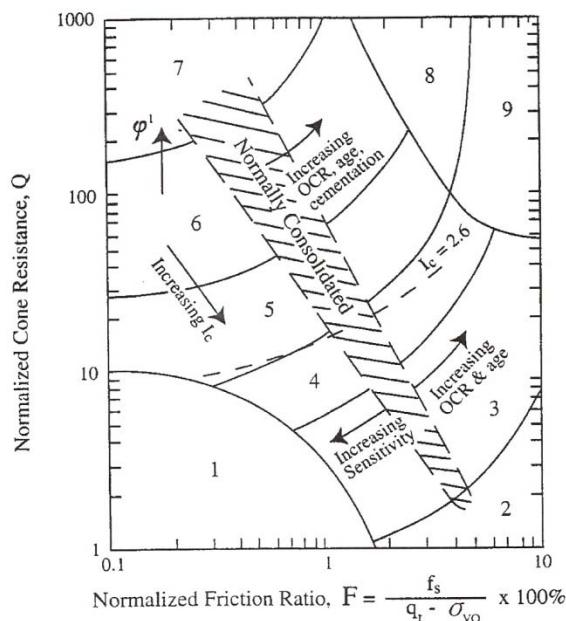


Figure 29 – Proposed Tentative Relationship between Cyclic Stress Ratio, $(N_1)_{60}$, and Volumetric Strain for Saturated Clean Sands

Figure 29 is taken from “Evaluation of Settlements in Sands Due to Earthquake Shaking” by Tokimatsu and Seed (1987). A table based on this figure was developed in order to automate the calculation of settlement due to liquefaction and was used in the calculation and analysis presented in Appendix A.

APPENDIX D
SOIL CORRELATIONS

Appendix D contains the stratigraphic depths used to distinguish between adjacent soil layers. Based on this stratigraphy unit weights and correlations shown in Appendix A were determined which allowed for Soil Behavior Type (SBT) classification. The SBT figures included in this appendix were used to facilitate soil unit weights through an iterative process. Unit weights are first assumed, SBT's are determined according to Figure 30, unit weights are found according to Table 5, the unit weights are applied to the corresponding layers, and the process is repeated until the SBT's do not change. The resulting unit weights are assigned to the respective soil type and then generalized as representative of the subsequent CPT soundings.



- 1. Sensitive, fine grained
 - 2. Organic soils - peats
 - 3. Clays - silty clay to clay
 - 4. Silt mixtures - clayey silt to silty clay
 - 5. Sand mixtures - silty sand to sandy silt
 - 6. Sands - clean sand to silty sand
 - 7. Gravelly sand to dense sand
 - 8. Very stiff sand to clayey sand*
 - 9. Very stiff, fine grained*
- *Heavily overconsolidated or cemented

Figure 30 - Soil Behavior Chart Proposed by Robertson (1990)

Table 5- Summary Table

CPTU	Elevation (m)	GWT (m)	Settlement (m)
1	1290.3	2.37	0.057
2	1291.6	3.60	0.073
3	1294.6	4.82	0.063
4	1297.5	6.05	0.048
5	1298.7	5.34	0.110
6	1299.4	4.62	0.051
7	1300.5	3.91	0.055
8	1299.2	3.91	0.025
9	1299.1	3.00	0.031
10	1298.8	3.00	0.038

Soil Behavior types were determined based on Figure 30, and unit weights were assigned according to the Conetec table below:

Table 6 – Conetec Correlation Table of Unit Weight to Soil Type

Zone	SPT qt/N	Unit Wt. (kN/m ³)	Unit Wt. (pcf)	k (cm/s)	Description
0	1.0	19.5	124.1	1×10^{-15}	Undefined
1	2.0	12.5	79.6	1×10^{-7}	Sensitive Fines
2	1.0	17.5	111.4	1×10^{-15}	Organic Soil
3	1.0	17.5	111.4	5×10^{-8}	Clay
4	1.5	18.0	114.6	5×10^{-7}	Silty Clay
5	2.0	18.0	114.6	5×10^{-6}	Clayey Silt
6	2.5	18.0	114.6	5×10^{-5}	Silt
7	3.0	18.5	117.8	5×10^{-4}	Sandy Silt
8	4.0	19.0	120.9	5×10^{-3}	Silty Sand/Sand
9	5.0	19.5	124.1	5×10^{-2}	Sand
10	6.0	20.0	127.3	5	Gravelly Sand
11	1.0	20.5	130.5	1×10^{-15}	Stiff Fine Grained
12	2.0	19.0	120.9	1×10^{-5}	Cemented Sand

Table 7 - Unit Weight Approximations Based On Figure 30 and Conetec Table 6

Geologic Unit	Total Unit Weight (kN/m ³) (Bartlett and Olzer (2005))	Description
Alluvium	20.5	Gravelly Sand/Stiff
UBF ₃	18	Fine-Grained Sand
UBF ₂ , UBF ₁	19	Silty Clay/Clay
LBF ₂	19	Silty Sand/Sand
LBF ₁	18	Silty Clay/Clay
LBF ₁ (Fine-Grained)	12.5	Sensitive Fines
APF ₂	20.5	Sand/Gravelly Sand
APF ₁	19	Silty Clay/Clayey
		Silt/ Clay

Table 8

CP-1	Range (m)	γ (kN/m ³)
Alluvium	0.0	1.0
Upper Bonneville Feature	1.0	4.0
Interbedded Features	4.0	7.9
Lower Bonneville Feature 1	7.9	13.2
Lower Bonneville Feature 2/3	13.2	21.3
Alpine Feature 1	23.7	23.7
Alpine Feature 2	NA	NA

Table 9

CP-2	Range (m)	γ (kN/m ³)
Alluvium	0.0	1.0
Upper Bonneville Feature	1.0	5.0
Interbedded Features	5.0	8.0
Lower Bonneville Feature 1	8.0	13.6
Lower Bonneville Feature 2/3	13.6	20.0
Alpine Feature 1	20.0	23.9
Alpine Feature 2	NA	NA

Table 10

CP-3	Range (m)	γ (kN/m ³)
Alluvium	0.0	0.8
Upper Bonneville Feature	0.8	5.0
Interbedded Features	5.0	8.0
Lower Bonneville Feature 1	8.0	14.0
Lower Bonneville Feature 2	14.0	22.8
Alpine Feature 1	22.8	34.8
Alpine Feature 2	NA	NA

Table 11

CP-4	Range (m)	γ (kN/m ³)
Alluvium	0.0	1.0
Upper Bonneville Feature	1.0	4.0
Interbedded Features	4.0	7.7
Lower Bonneville Feature 1	7.7	13.8
Lower Bonneville Feature 2/3	13.8	25.0
Alpine Feature 1	25.0	28.8
Alpine Feature 2	NA	NA

Table 12

CP-5	Range (m)	γ (kN/m ³)
Upper Bonneville Feature	0.0	1.8
Interbedded Features	1.8	5.4
Lower Bonneville Feature 1	5.4	11.2
Lower Bonneville Feature 2	11.2	17.3
Alpine Feature 1	17.3	20.2
Alpine Feature 2	20.2	33.75

Table 13

CP-6	Range (m)	γ (kN/m ³)
Interbedded Features	0.0	1.5
Lower Bonneville Feature 1	1.5	7.4
Lower Bonneville Feature 2	7.4	12.6
Alpine Feature 1	12.6	15.3
Alpine Feature 2	15.3	31.8

Table 14

CP-7	Range (m)	γ (kN/m ³)
Alluvium	0.0	0.8
Lower Bonneville Feature 1	0.8	6.5
Lower Bonneville Feature 2	6.5	10.6
Alpine Feature 1	10.6	14.6
Alpine Feature 2	14.6	21.0

Table 15

CP-8	Range (m)	γ (kN/m ³)
Alluvium	0.0	1.1
Lower Bonneville Feature 1	1.1	5.6
Lower Bonneville Feature 2	5.6	10.0
Alpine Feature 1	10.0	14.3
Alpine Feature 2	14.3	23.5

Table 16

CP-9	Range (m)	γ (kN/m ³)
Alluvium	0.0	1.0
Lower Bonneville Feature 1	1.0	3.5
Lower Bonneville Feature 2	3.5	8.0
Alpine Feature 1	8.0	14.0
Alpine Feature 2	14	18.2

Table 17

CP-10	Range (m)	γ (kN/m ³)
Lower Bonneville Feature 1	0.0	3.5
Lower Bonneville Feature 2	3.5	6.5
Alpine Feature 1	6.5	11.5
Alpine Feature 2	11.5	23.0

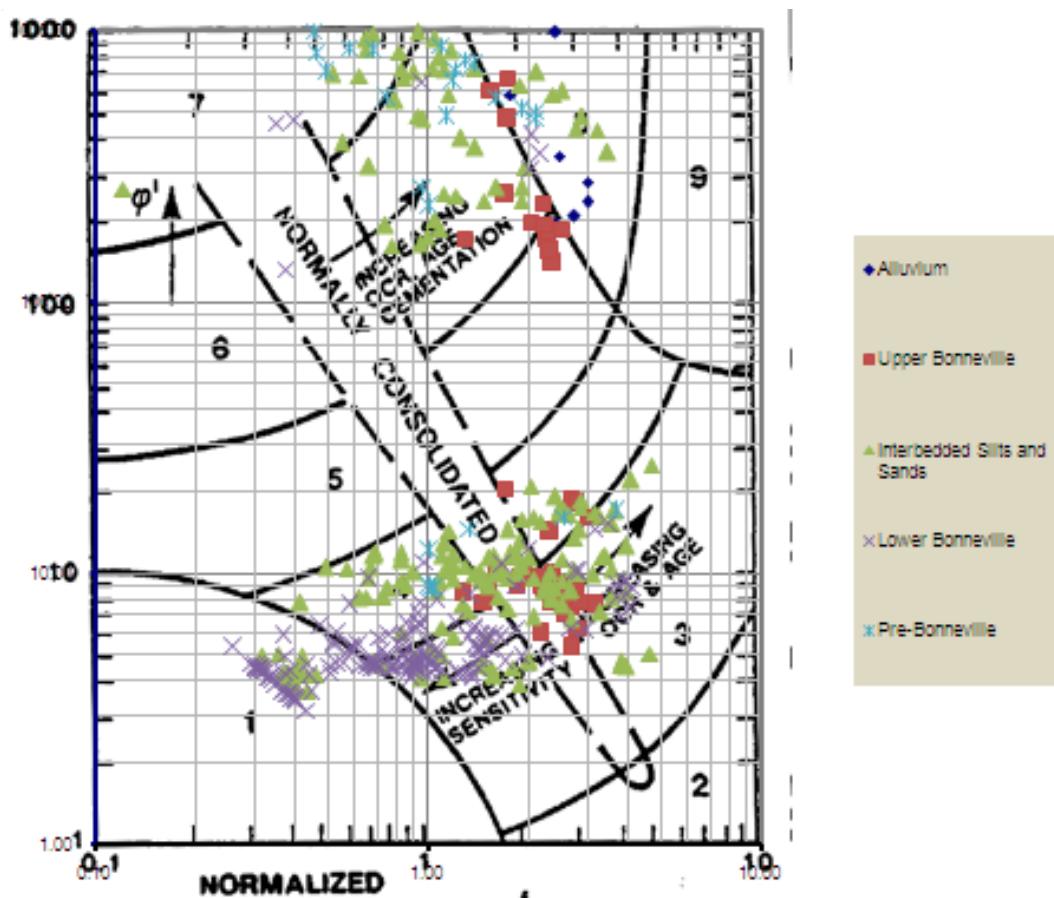


Figure 31 – Soil Behavior Type Chart for CP-1 425W 400S

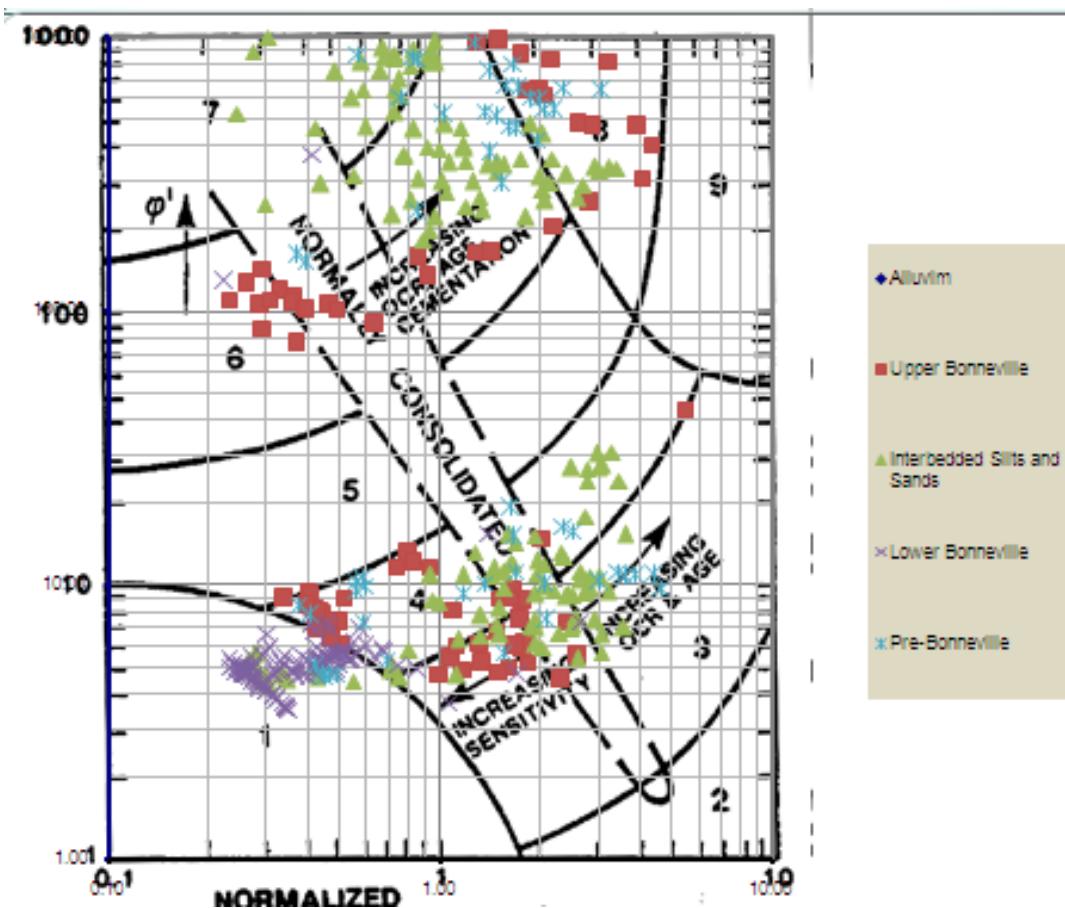


Figure 32 – Soil Behavior Type Chart for CP-2 343W 400S

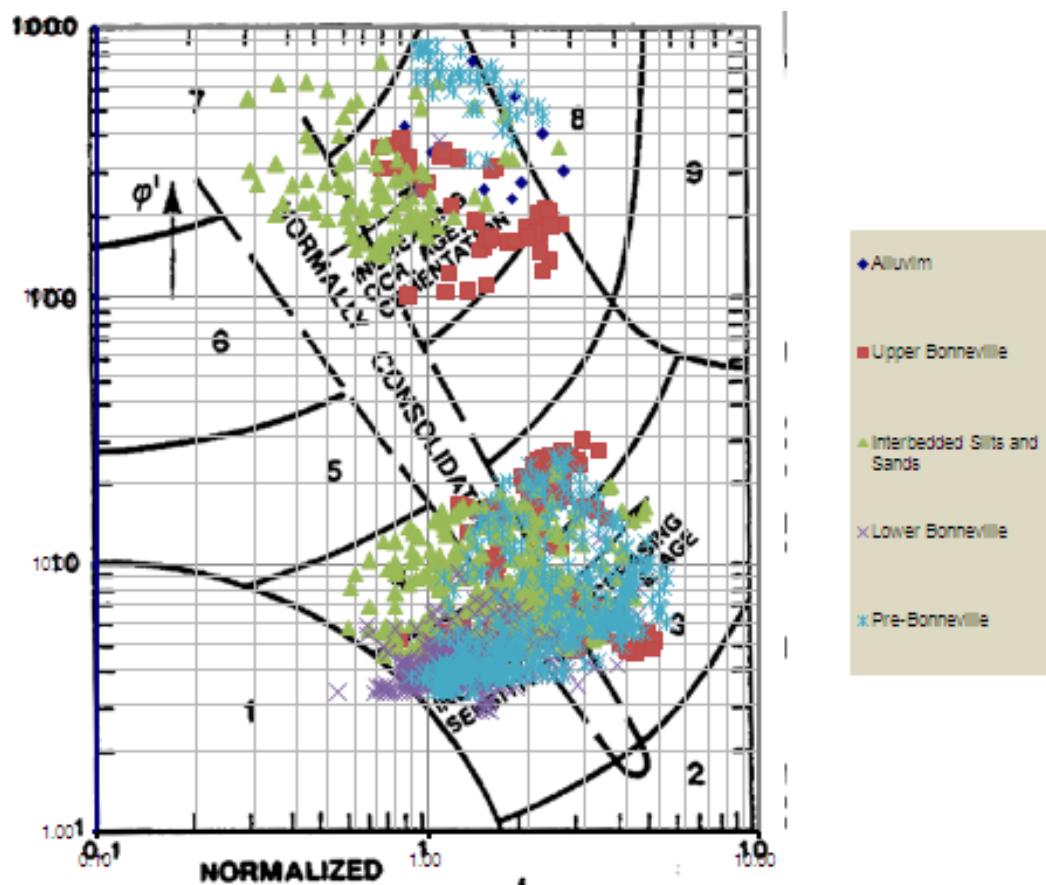


Figure 33 – Soil Behavior Type Chart for CP-3 235W 400S

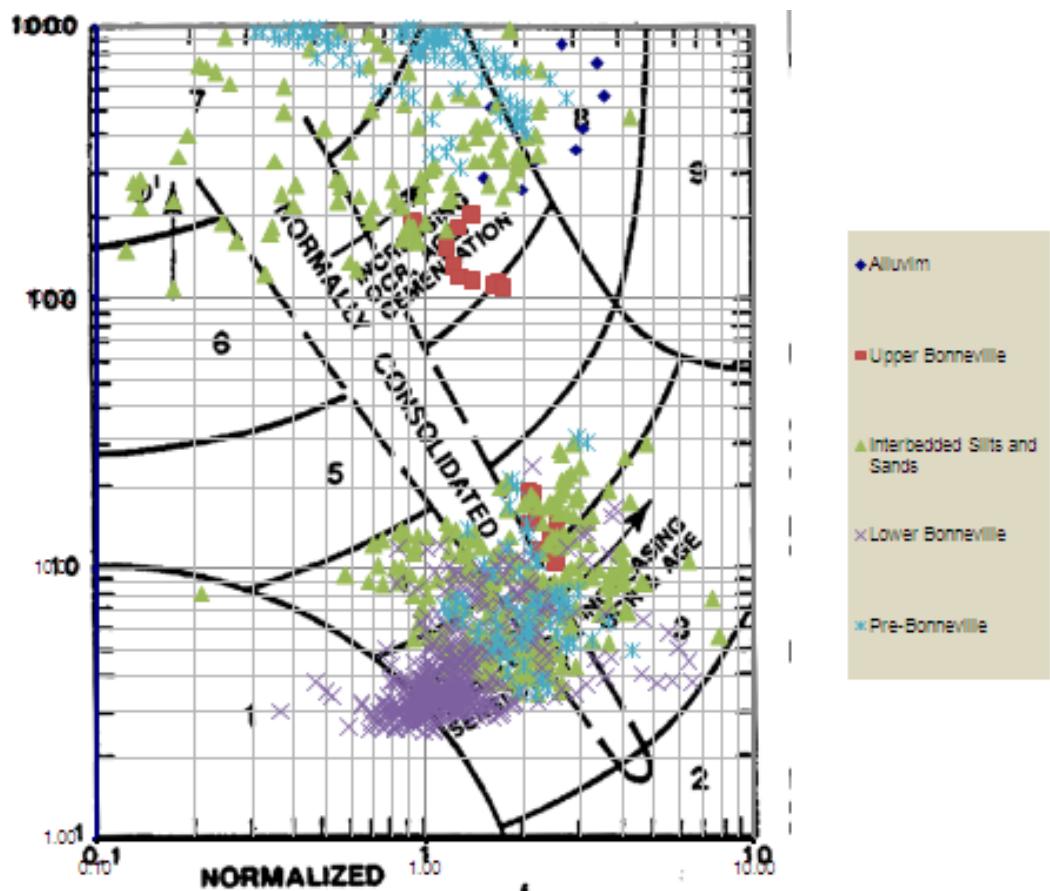


Figure 34 – Soil Behavior Type Chart for CP-4 130W 400S

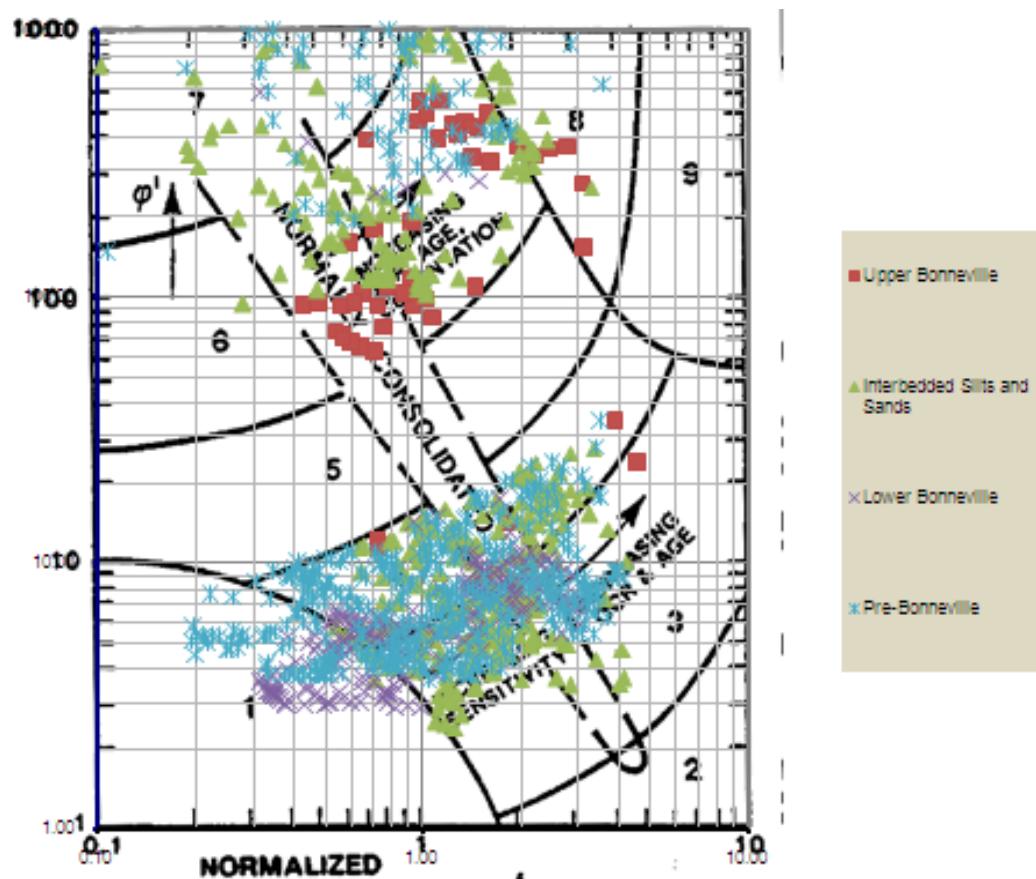


Figure 35 – Soil Behavior Type Chart for CP-5 56 W 400 S

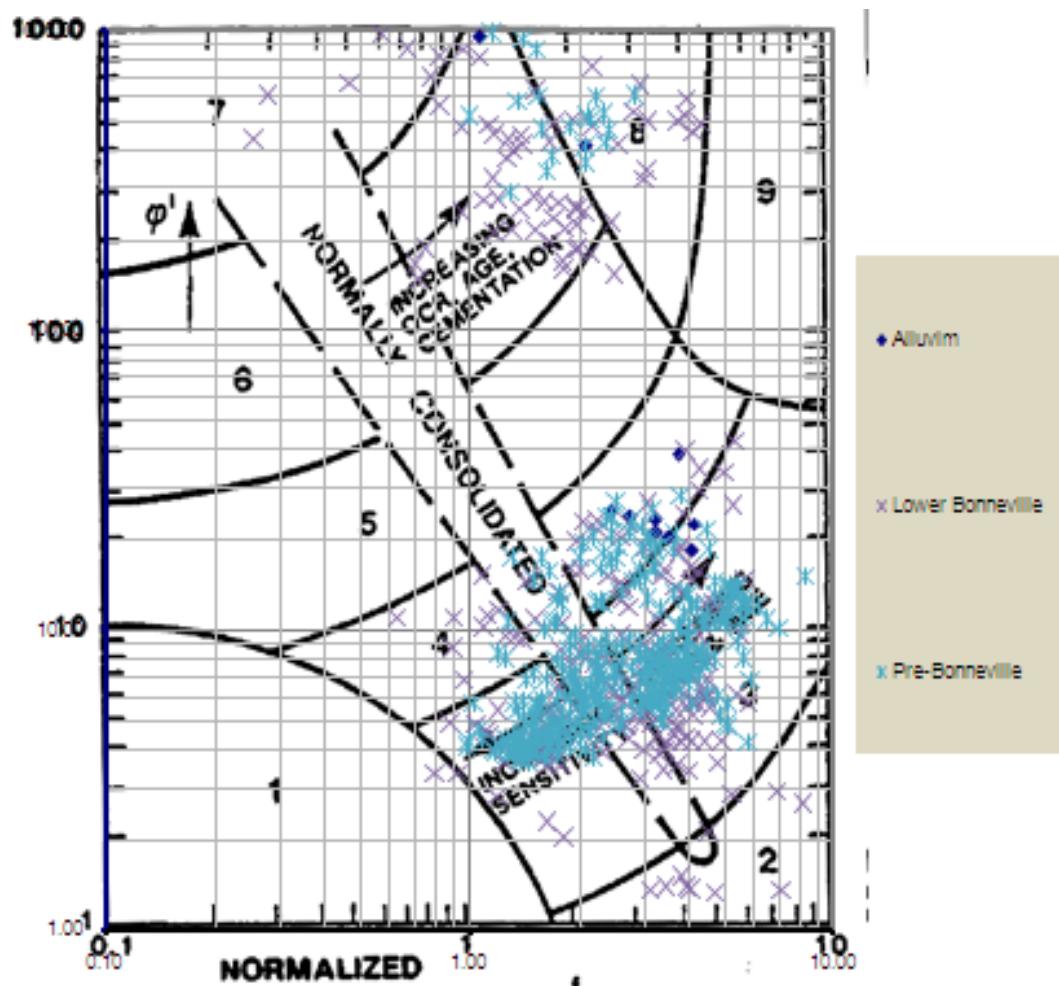


Figure 36– Soil Behavior Type Chart for CP-6 29 E 400 S

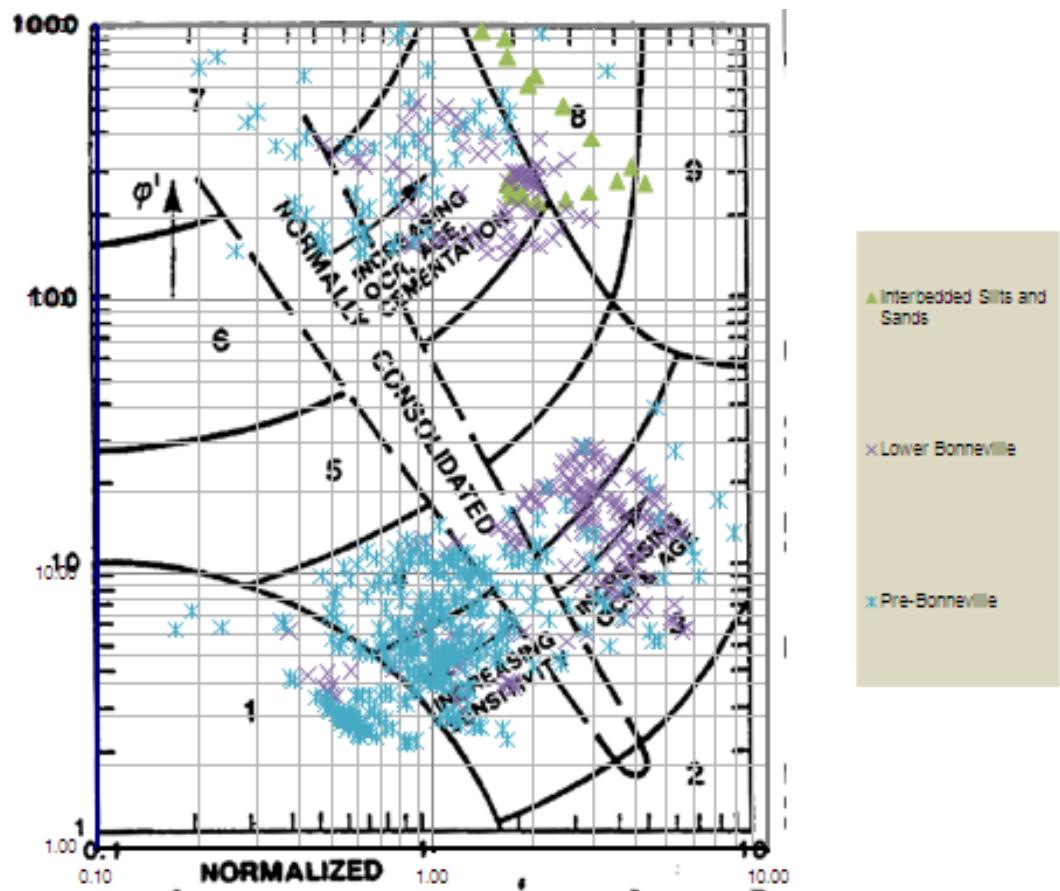


Figure 37 – Soil Behavior Type Chart for CP-7 175 E 400 S

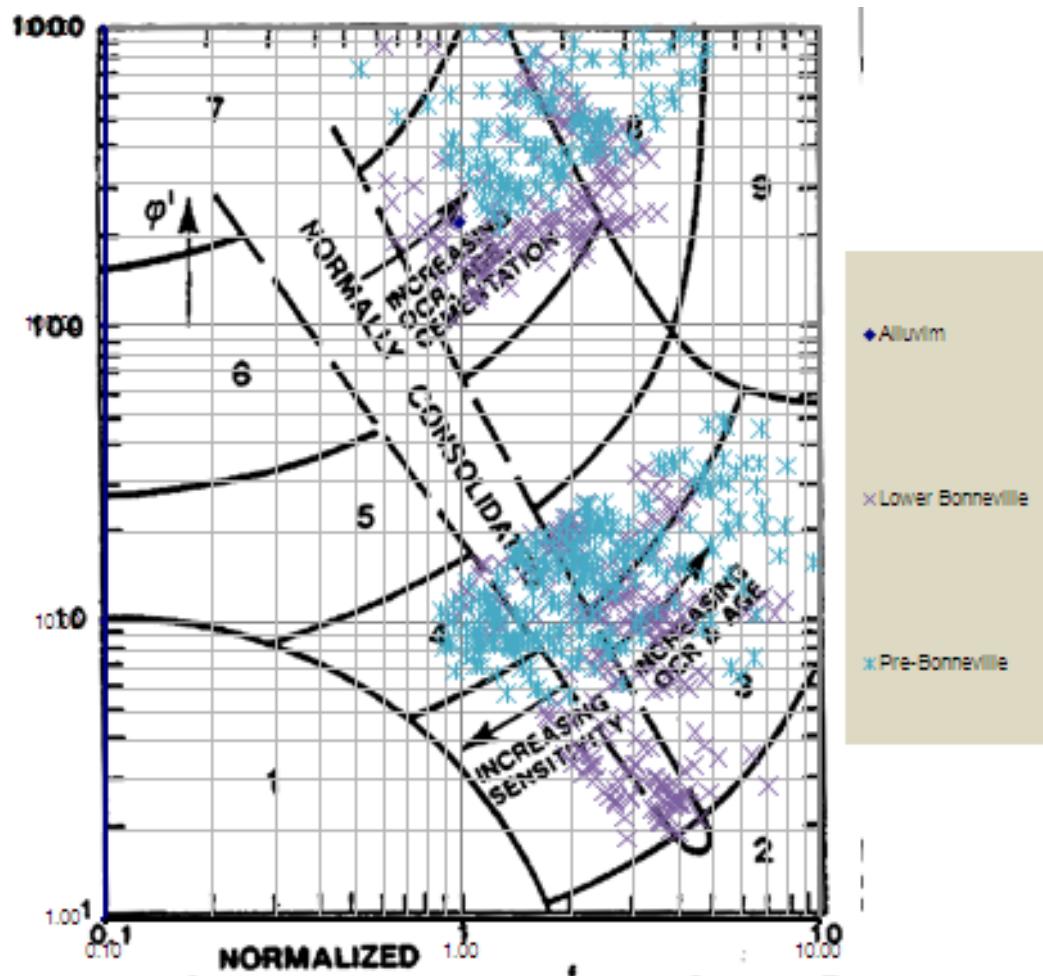


Figure 38—Soil Behavior Type Chart for CP-8 225 E 400 S

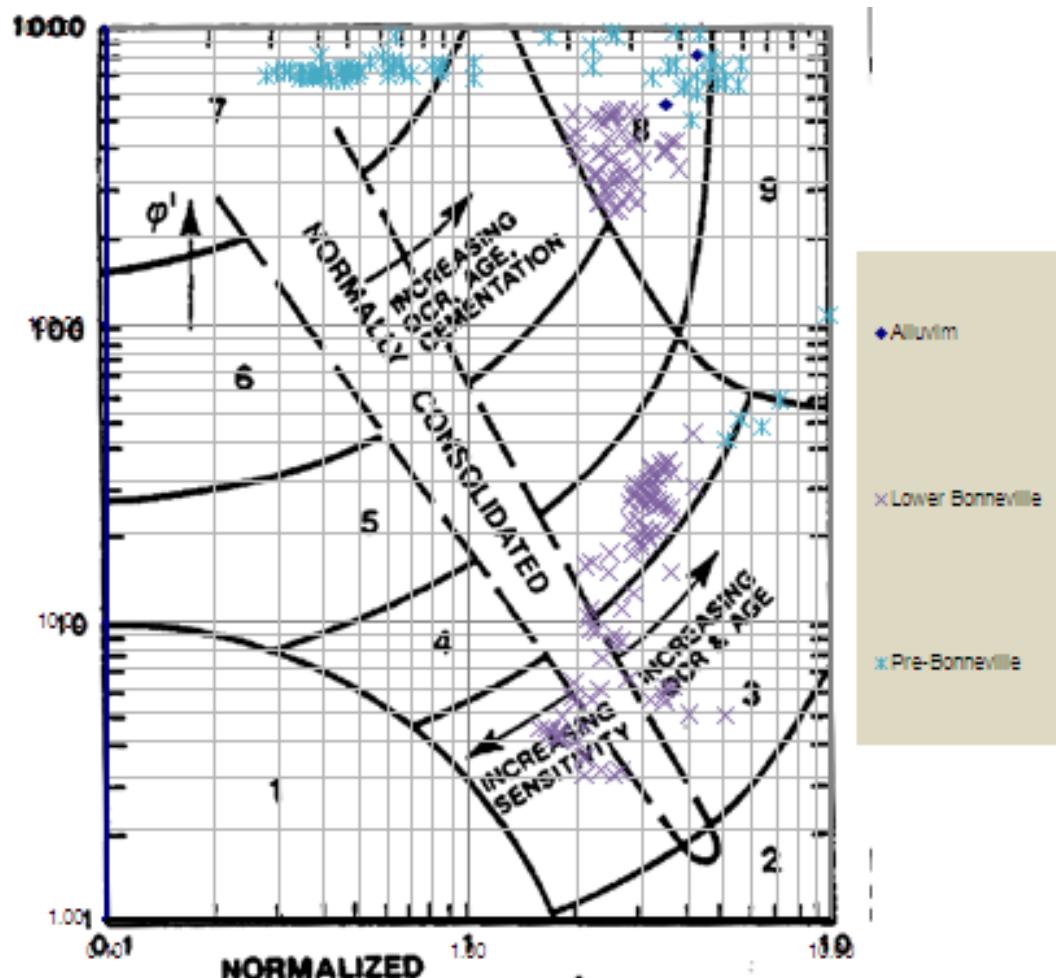


Figure 39 – Soil Behavior Type Chart for CP-9 266 E 500 S

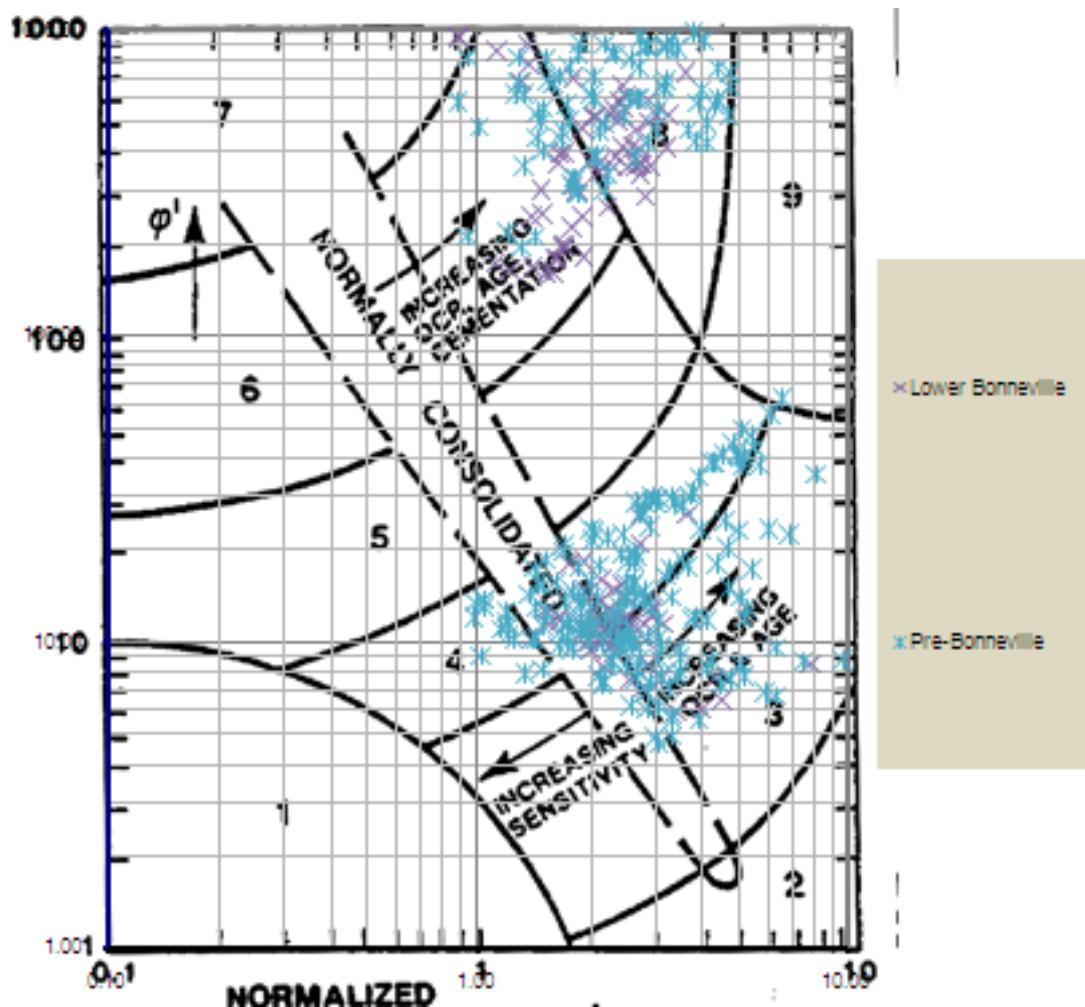


Figure 40 – Soil Behavior Type Chart for CP-10 228

APPENDIX E

LIQUEFACTION AND LATERAL SPREAD INPUT PARAMETERS, AND CROSS-SECTIONAL FIGURES

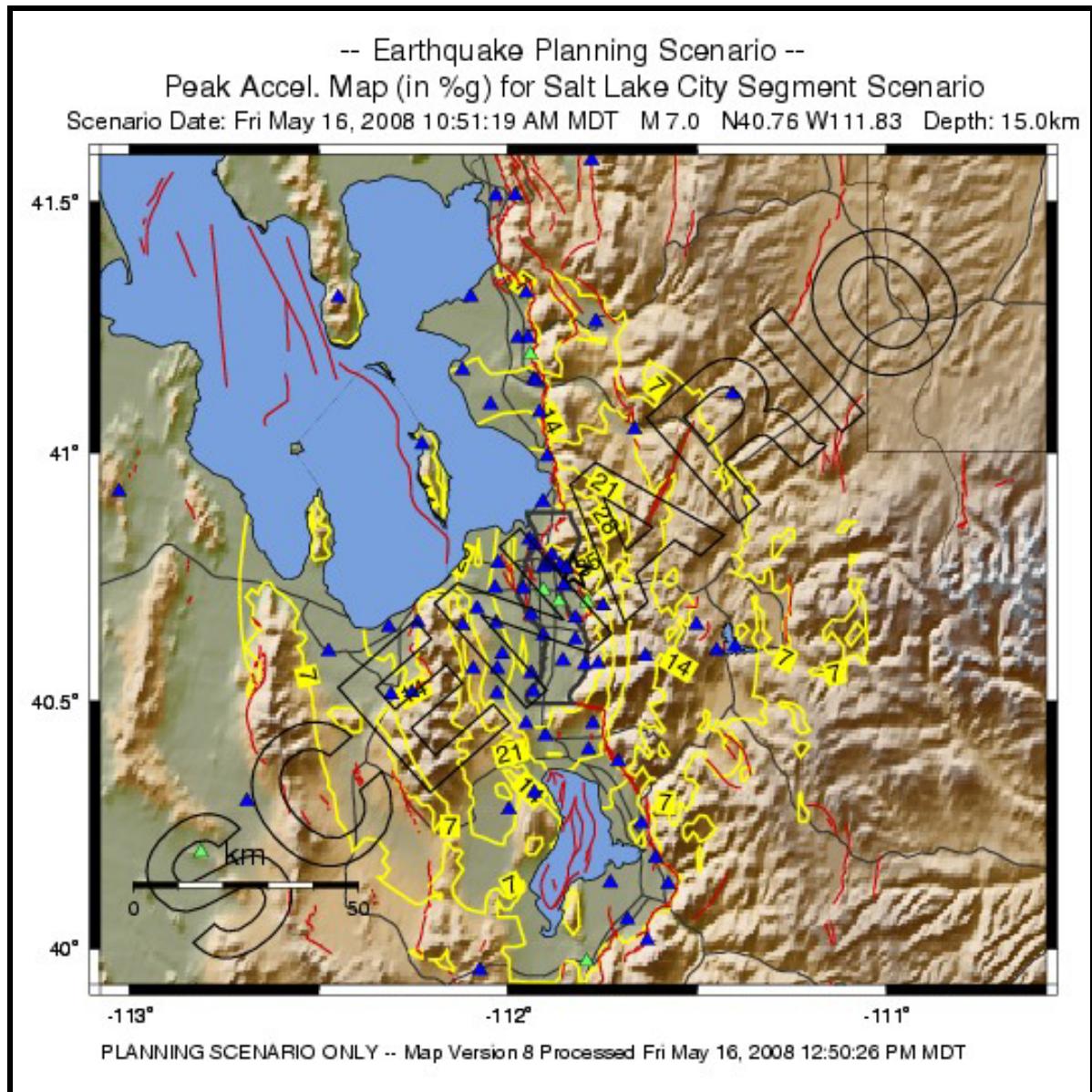


Figure 41 – Seismic Planning Scenario Map

The liquefaction evaluations were based on input peak ground acceleration (pga) of 0.4 g based on scenario M7.0 earthquake for the Salt Lake Valley. The pga value was selected from this earthquake planning scenario map for the Salt Lake City segment developed by the University of Utah Seismograph Station.

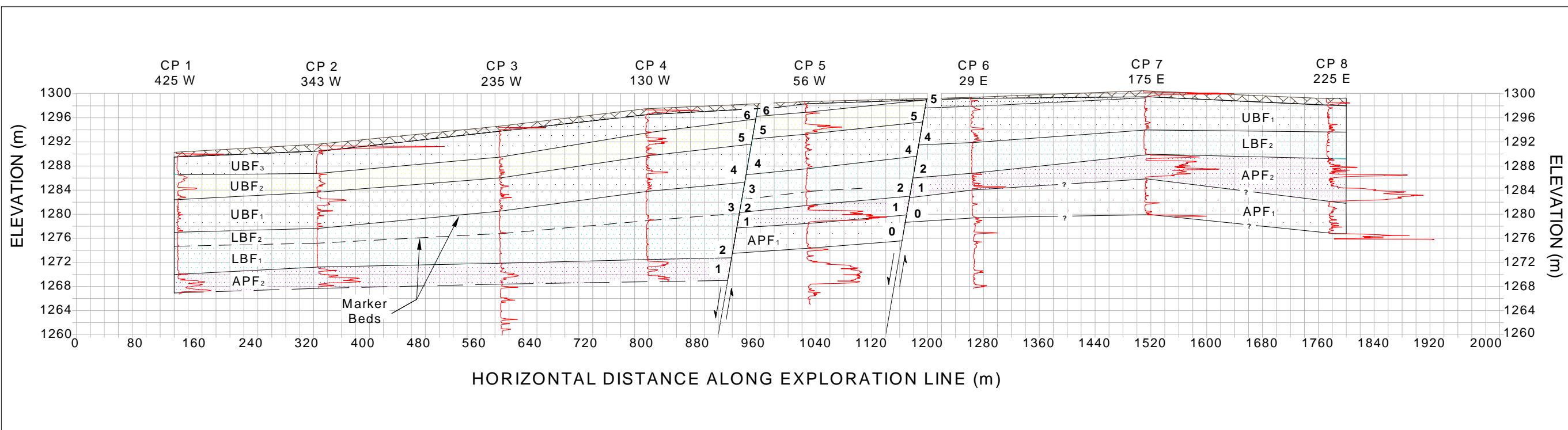


Figure 42 – Interpreted cross-section of 400 South Street between 420 West and 225 East with possible fault zone between 130 West and 29 East

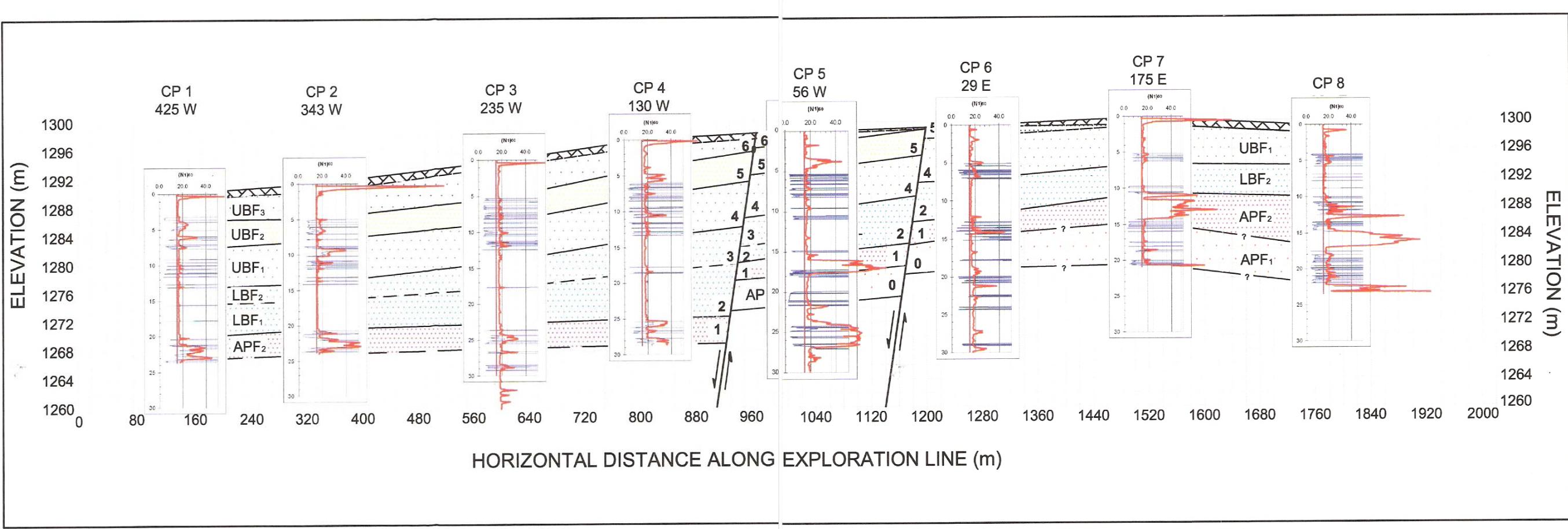


Figure 43 – Interpreted cross-section of 400 South Street between 420 West and 225 East with possible fault zone between 130 West and 29 East including liquefiable (N1)60 soils versus depth and placed at the corresponding elevations – This figure is used to determine layer continuity and lateral spread potential.

APPENDIX F
FIELD INVESTIGATION PHOTOGRAPHS



Figure 44- (CP-1) Demonstrates minimally invasive nature of the CPT



Figure 45 - (CP-4) Lane closure on 400 S, Wells Fargo Building in Background



Figure 46 – (CP-7) 20-Ton CPT Rig and truck used to core asphalt and concrete



Figure 47 – (CP-7) 20-Ton CPT Rig advancing the cone