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AUSTRALIA INC.

WELL COMPLETION REPORT

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HARLEQUIN-1

INTERPRETED DATA

PETROLEUM DIVISION

VOLUME II

GIPPSLAND BASIN

VICTORIA

ESSO AUSTRALIA LTD

Compiled by: P V Hinton
February 1990

HARLEQUIN-1

WELL COMPLETION REPORT

VOLUME II

(INTERPRETED DATA)

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GEOLOGICAL AND GEOPHYSICAL ANALYSES

1. SUMMARY OF WELL REPORTS

FORMATION/HORIZON TOPS	DEPTH		
	PREDRILL (MKB)	DRILLED (MKB)	(MSS)
Seaspray Group	64	64	43
Latrobe Group	1391	1408	-1387
"Coarse Clastics"	1414	1420	-1399
P. asperopolus*	1565	1555	-1534
Upper L. balmei*	1889	1865	-1844
67 Ma Sequence Boundary*	2273	2224	-2203
Total Depth	2721	2574	-2553

* Seismic Marker

2. INTRODUCTION

Harlequin-1 is located between the Seahorse Field, 3.1km WSW and the Wirrah Field, 8.8km east. Seahorse-1 penetrated several thin oil sands at the top of the "Coarse Clastics" and in the P. asperopolus zone. Within the Wirrah Field, 26 reservoirs have been intersected. The major reservoirs are the top of "Coarse Clastics", N-150 reservoir which has a 43m gas column with a 3m oil leg and the T. longus, T-560 reservoir which has a gross oil column of 75m in Wirrah-3. Further minor reservoirs are located in the N. asperus, L. balmei, T. longus and T. lilliei zones.

The primary objective of the Harlequin-1 well was to test for hydrocarbons in the Upper Latrobe section, as well as within the L. balmei to T. longus interval in a fault dependent closure on the same structural trend as the Seahorse and Wirrah discoveries.

No moveable hydrocarbons were intersected within the well, though a 34.7m residual oil column was intersected in the L. balmei zone. The absence of hydrocarbons within the Latrobe Group is attributed to lack of seal on the NNW-SSE trending fault. At the top of "Coarse Clastics" post drill mapping indicates that Harlequin-1 is possibly outside closure hence no hydrocarbons were intersected, however, the possibility of fault plane leakage cannot be eliminated.

Harlequin-1 was plugged and abandoned.

GEOLOGICAL ANALYSIS

3. STRUCTURE

The Harlequin feature is structurally similar to the adjacent Wirrah discovery. It is a fault dependent closure within a larger structurally complex south-dipping fault block. The lower Latrobe section to just above the 53 Ma sequence boundary is intersected by numerous faults, only two of which persist to the top of the Latrobe Group.

The major E-W fault bounding the northern flank of the prospect is probably associated with Otway Rift extensional tectonics early in the development of the basin. A later extensional regime probably prevailed over a longer period and produced the sinuous E-W intra prospect faults. This period of structuring is probably associated with the Tasman Rift Phase.

Post-Latrobe Oligocene to Mid Miocene compression resulted in reactivation and inversion of the main east-west fault on the northern margin of the prospect and also produced the roll into the fault. Simultaneously a NNW-SSE trending, normal fault developed, forming a trapdoor structure at Harlequin.

The trapping mechanism for Harlequin is dependent on this NNW-SSE subsidiary fault sealing. At one time, the fault did seal, as witnessed by the presence of a 34.7m residual oil column at Harlequin-1 between 2057 and 2091.7m. It is postulated that recent compressional movement along the NNW-SSE fault allowed the fault to leak, with oil migrating towards Seahorse.

4. STRATIGRAPHY

Seahorse, Harlequin and Wirrah are all located in the same paleogeographic setting, being juxtaposed against the northern, basin bounding, east-west fault. Consequently the stratigraphy is similar at Harlequin to that intersected at Wirrah and Seahorse.

The Gurnard Facies, comprising glauconitic siltstones and claystones, is on average 19m thick at Wirrah, 12m thick at Harlequin and 24m thick at Seahorse. In all cases the sediments are middle-upper N. asperus in age.

The Latrobe Group "Coarse Clastics" conformably underlies the Gurnard Facies and comprises repetitive series of interbedded sands, shales and coals representing stacked lower coastal plain sequences. At Harlequin-1, more coal is observed than that intersected at Wirrah or Seahorse, indicating a lower energy, fluvial regime at Harlequin at that time, to that found at Wirrah or Seahorse.

The lower N. asperus, P. asperopolus, M. diversus and upper L. balmei section comprises interbedded sandstones with subordinate siltstones, shales and coals. Siltstones and shales become more abundant with depth.

The lower L. balmei and T. longus section comprises interbedded sandstones, siltstones and shale with rare coal. Conglomeratic sandstones with thin shale interbeds typify the Lower T. longus and T. lilliei section. The conglomerate is poorly sorted, fine to coarse grained with quartz pebbles and dolomitic/silica cement and probably represents an alluvial fan sequence.

All three of the Wirrah wells intersected igneous rocks with the L. balmei and T. longus zones. At Harlequin these rocks were intersected at similar stratigraphic levels.

The palaeoenvironment for the entire Lower N. asperus to T. lilliei interval is believed to be coastal plain.

5. HYDROCARBONS

No moveable hydrocarbons were intersected in the Harlequin-1 well.

Good hydrocarbon shows were intersected in the L. balmei zone with 70-90% dull yellow fluorescence with predominantly a crush cut observed from 2055m to 2079m. Gas shows of up to 50 units (200 ppm per unit) were associated with the fluorescence. Core 1, cut from 2079 to 2098m, exhibited 100% fluorescence with an instant streaming cut to a depth of 2091.7m where the fluorescence

decreased markedly. Average oil saturation for the cored interval 2079 to 2091.7m is 10.0%. However, log interpretation and RFT data indicate the zone to be water saturated.

Further hydrocarbon shows of poorer quality were recorded in the Lower L. balmei and in the Lower T. longus, T. lilliei conglomerates. All of these shows are interpreted to be indicative of residual oil.

The well was plugged and abandoned.

GEOPHYSICAL DISCUSSION

6.1 INTRODUCTION

The Harlequin structure is controlled by a 123km grid of good quality G88A seismic with a line spacing of 700m, and poorer quality G80A and G81A seismic lines. The interpretation was conducted using mainly the G88A seismic lines as a stand alone grid.

The Harlequin closure lies between the Seahorse and Wirrah discoveries, and is updip of the main T. longus oil accumulation in Wirrah-3. The well was targeted to intersect a set of stacked closures from top of "Coarse Clastics" to the T. longus, to test reservoirs equivalent to those found to contain hydrocarbons in the Seahorse and Wirrah wells.

Harlequin encountered only a 34.7m gross residual oil column, within the L. balmei.

6.2 DEPTH CONVERSION

A hand contoured Vnmo map was used to depth convert to the top of "Coarse Clastics". The smoothed Vnmo points for this map were produced using EAL's Interactive Velocity Analysis System (IVAS). Horizon keyed interval velocities for three post Latrobe intervals were closely monitored during smoothing. Constant interval velocities derived from the Seahorse-1 and Wirrah wells were used to depth convert intra-Latrobe horizons.

Post drill the top of "Coarse Clastics" was 6m deep to prediction, while the deeper U. L. balmei and 67 Ma sequence boundary seismic markers were respectively 24m and 49m high to prediction. A synthetic was generated for Harlequin-1 which indicates that the time picks used for these markers are at the correct position. The U. L. balmei and 67Ma sequence boundary structure maps are high to prediction because the interval velocity of the intra-Latrobe section is much slower than predicted. The interval velocity from the top of "Coarse Clastics" to the 67 Ma sequence boundary is 200 m/sec slower than expected. This is surprising as the variation between Seahorse-1 and the Wirrah wells for the same interval is less than 50 m/sec. The reduction in the expected interval velocity can be attributed to the greatly increased amount of coal encountered in Harlequin-1.

6.3 STRUCTURE

The Harlequin closure at all levels is fault dependent. The structure is bounded to the north by an EW trending inverted fault and to the west by a NNW-SSE trending normal fault. Closure to the southeast is accommodated by dip.

A 25m closure was mapped predrill at the Top of "Coarse Clastics". As the fault is sealed by Lakes Entrance shale it is assumed that Harlequin is dry at this level because no closure exists. This implies that the velocity gradient from the crest to the southern flank of Harlequin is too steep. The velocities were therefore recontoured to open the closure at this level.

Residual hydrocarbons were encountered approximately 200m below the upper L. balmei seismic marker. If the height of this residual column is transferred to the U. L. balmei structure map, the depth contour representing the residual oil-water contact meets the NW-SE normal fault near its intersection with the EW inverted fault. This implies that the paleo leak point for the hydrocarbons was probably this fault intersection. The U. L. balmei and 67 Ma sequence boundary structure maps have been corrected by bulk shifting the contours over the Harlequin closure, as the intra-Latrobe structural shape is interpreted to still be correct even though intra-Latrobe interval velocities are slower in this area.

FIGURES

LOCALITY MAP

HARLEQUIN-1

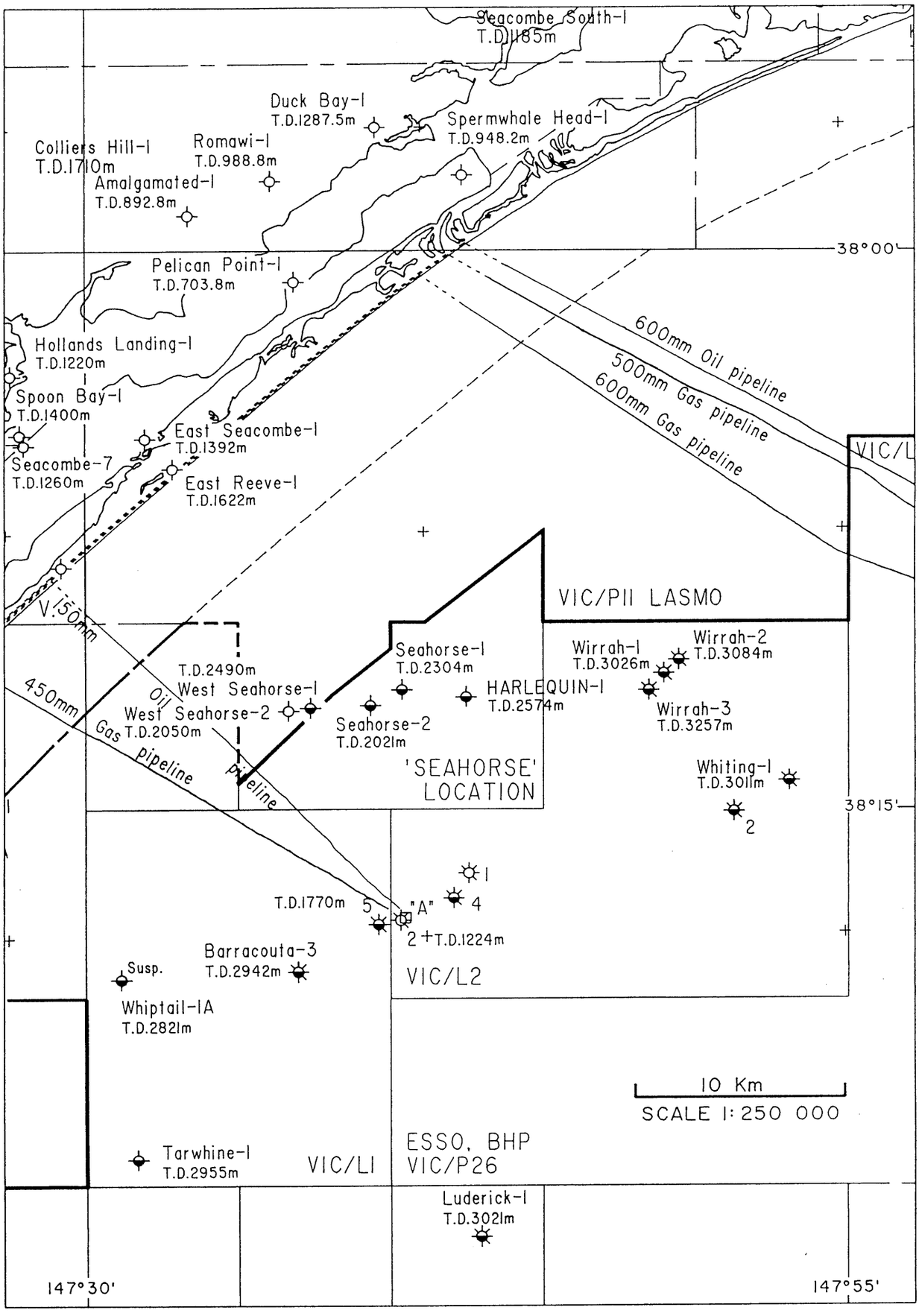

FIGURE 1

APPENDIX 1

APPENDIX-1

PALYNOLOGICAL ANALYSIS OF HARLEQUIN-1 GIPPSLAND BASIN.

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Palaeontology Report 1989/18

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INTERPRETED DATA

INTRODUCTION

SUMMARY OF RESULTS

GEOLOGICAL COMMENTS

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TABLE-1: INTERPRETED DATA

PALYNOLOGY DATA SHEET

INTRODUCTION

Sixty-five samples comprising fifty-four sidewall cores, one conventional core sample and eleven cuttings samples were processed from Harlequin-1 and examined for spores, pollen and microplankton.

Thirty-two of the sidewall cores were analysed by M.K. Macphail and the remaining thirty-three samples were analysed by A.D. Partridge.

Both oxidized organic residue yields and palynomorph concentrations were, in the main, moderate to high, and this was reflected in the moderate to high spores and pollen diversity recorded from the majority of samples. Average diversity was 23.5 species per sample. Low spore-pollen diversity directly correlated to barren or low yield samples. The coal fractions extracted from cuttings were the only exceptions because, although they gave high organic residue yields, they were either barren of palynomorphs or contained only low diversity assemblages. Dinoflagellates were only common in the Late Eocene and Oligocene samples, and their diversity also increased in these younger rocks.

Preservation of palynomorphs was satisfactory without any noticeable trend or pattern.

Lithological units and palynological zones from base of Lakes Entrance Formation to T.D. are given in the following summary. Interpretative data with zone identifications and confidence ratings are recorded in Table-1 and basic data on residue yields, preservation and diversity are recorded in Table-2. All species which can be identified with binomial names are tabulated on the accompanying range chart.

PALYNOLOGICAL SUMMARY OF HARLEQUIN-1

AGE	UNIT/FACIES	SPORE-POLLEN ZONES (Dinoflagellate Zones)	DEPTH RANGE (mKB)
Oligocene	Lakes Entrance Formation	*P. tuberculatus*	1391.0-1400.0
Oligocene		Upper *N. asperus*	1407.0
	1408.0m		
Late Eocene	Latrobe Group (Gurnard facies)	Upper *N. asperus*	1413.0
		(*P. comatum*)	(1413.0)
Late Eocene		Middle *N. asperus*	1419.0
		(*G. extensa*)	(1419.0)
	1420.0m		
Late Eocene	Latrobe Group (Coarse clastic facies)	Middle *N. asperus*	1422.0-1434.0
		(*G. extensa*)	(1422.0)
Middle Eocene		Lower *N. asperus*	1458.5-1525.5
Early Eocene		*P. asperopolus*	1594.0-1624.0
Early Eocene		Middle *M. diversus*	1686.5
Early Eocene		Lower *M. diversus*	1735.5-1780.0
Paleocene		Upper *L. balmei*	1830.0-2001.5
	2039.0m		
	Unnamed volcanics		
	2053.0m		
Paleocene	Latrobe Group (coarse clastic facies)	Lower *L. balmei*	2112.0-2197.8
Maastrichtian		Upper *T. longus*	2228.5-2390.0
Maastrichtian		Lower *T. longus*	2457.5-2498.3
Campanian		*T. lilliei*	2514.5-2548.0
	T.D. 2574.0m		

GEOLOGICAL COMMENTS

1. The 'coarse clastic' or undifferentiated portion of the Latrobe Group is virtually entirely non-marine. Microplankton occurrences through the undifferentiated Latrobe Group (with the exception of the shallowest sample at 1422m) are characterized by low specimen numbers and low diversity. The typical dinoflagellates are 'diaphanous' peridinacean cysts which are interpreted to indicated non-marine lacustrine to brackish lagoonal environments. The lack of distinctive marine dinoflagellates is consistent with the location of Harlequin-1 on the northern flank of the Central Deep. This structurally controlled depositional centre constrains the geographic distribution of most of the marine incursions recognised by Partridge (1976).

2. The earliest definite marine dinoflagellates in Harlequin-1 are the 'flood' of *Gippslandica extensa* found at 1422m immediately overlying the top (at 1423m) of the shallowest coal in the well. This sample from a 3 metres thick carbonaceous siltstone is immediately overlain by marine rocks consisting of 12 metres of glauconitic siltstone identified as Gurnard Formation, which is in turn overlain by calcareous claystones of the Lakes Entrance Formation. There are distinct step-like increases in both dinoflagellate abundance and diversity across the lower boundaries of both these formations (see Table-2). This data is interpreted to reflect abrupt increases in palaeobathymetry and it is therefore likely that both these boundaries represent either Sequence Unconformities or parasequence boundaries (see Van Wagoner *et al.*, 1988).

3. The non-marine part of the Latrobe Group can be characterized by its changing coal content, viz:

ZONES	TOP OF INTERVAL	INTERVAL THICKNESS	TOTAL COAL	THICKEST COAL	PERCENTAGE COAL
N. asperus	1423m	167m	44.8m	9.5m	26.8%
P. asperopolus to *M.diversus*	1590m	237m	17.3m	4.2m	7.3%
L. balmei	1827m	397m	8.2m	1.2m	2.1%
T. longus to *T. lilliei*	1224m	350m	12.1m	1.5m	3.4%

The increasing coal content in the younger sediments reflects the progressive encroachment of the palaeoshoreline as the basin subsided. Environmentally it represents a transition from alluvial plain through upper coastal plain to lower coastal plain.

4. In the above compilation the interval 1525.5m to 1990m is assigned to the *N. asperus* Zones even though it lies in an uncontrolled section between the base of the Lower *N. asperus* Zone at 1525.5m and the top of the *P. asperopolus* Zone at 1594.0m. The interval is significant as it contains 17.5 metres of coal, in two major seams and one minor seam between 1555-1579m. These major coals, the thickest in the well, represent 10.5% out of the 26.8% total coal in the *N. asperus* Zones. Their age assignment is based on electric log correlation of these thick coals with the thickest coals in the adjacent Barracouta and Wirrah fields, where based on a synthesis of all available palynological age datings they appear to lie at the base of the Lower *N. asperus* Zone.

5. The igneous rock unit intersected in Harlequin-1 between 2039-2053m is interpreted as a volcanic extrusion because it occurs in a similar relative stratigraphic position to volcanic extrusions in the nearby Wirrah, Whiting and Snapper fields. Within the thicker section of these fields the volcanics lie within the Lower *L. balmei* Zone. In Harlequin-1 the volcanics separate the Lower and Upper subzones of the *L. balmei* Zone. Assuming the volcanics are concordant in age it would appear that most of the thickening of the *L. balmei* Zone in the fields east and south-east of Harlequin-1 is occurring in the upper part of the Lower and lower part of the Upper *L. balmei* Zones. On current age correlations this would equate to the relatively low sea levels between 56.5 Ma and 60 Ma in the Paleocene shown on the sequence charts of Haq *et al.* (1987, 1988).

BIOSTRATIGRAPHY

Zone and age-determinations have been made using criteria proposed by Stover and Partridge (1973), Helby *et al.* (1987) and unpublished observations made on Gippsland Basin wells drilled by Esso Australia Ltd.

Author citations for most spore-pollen species can be sourced from Stover and Partridge (1973, 1982), Helby *et al.* (1987) and Dettmann and Jarzen (1988) or other references cited herein. Species names followed by "ms"

are unpublished manuscript names. Zone names have not been altered to conform with recent nomenclatural changes to nominate species such as *Forcipites* (al.*Tricolpites*) *longus* (Stover & Evans) Dettmann & Jarzen 1988. Author citations for dinoflagellates can be found in Lentin and Williams (1985, 1989).

Tricolporites lilliei Zone: 2514.5-2548.0 metres Campanian.

Palynofloras within this interval are dominated by *Proteacidites* spp. or *Laevigatosporites* spp. (at 2540.0m & 2542.8m) and gymnosperms including *Araucariacites australis*. *Nothofagidites senectus (sensu lato)* is usually frequent. *Triporoletes reticulatus* and *Latrobosporites amplus* are frequent at 2542.9m and 2548.0m respectively.

The lower boundary, at 2548.0m, is defined by a poorly preserved specimen of *Triporopollenites sectilis*. Reworked Early Cretaceous spores are moderately frequent in this, the basal, sidewall core.

Tricolporites lilliei (multiple specimens) first appears at 2542.9m in association with well preserved *Triporopollenites sectilis, Tricolpites waiparensis* and frequent *Peninsulapollis gillii*. The sample at 2540.0m contains *Forcipites sabulosus* and a population of *F. stipulatus*.

The upper boundary is picked at 2514.5m, based on the absence of definitive indicators of the *T. longus* Zone.

Lower *Tricolpites longus* Zone: 2457.5-2498.3 metres Maastrichtian.

The three sidewall core samples assigned to this Lower subzone each contain of *Forcipites longus*, but lack the frequent to common *Gambierina rudata* so characteristic of the Upper subzone in this well. *Stereisporites (Tripunctisporis)* spp. is also absent. Other indicator species are rare but are represented by *Tetracolporites verrucosus, Proteacidites reticuloconcavus* ms (*sensu stricta*), and *P. wahooensis* ms all of which occur at 2484.5m.

The acritarch *Micrhystridium* sp. and a probable freshwater dinoflagellate are also present at 2484.5m.

Upper *Tricolpites longus* Zone: 2228.5-2390.0 metres Maastrichtian.

All samples within this interval contain either *Stereisporites (Tripunctisporis)* spp. extending down to 2347.1m, or frequent to abundant *Gambierina rudata* extending as deep as the sidewall core at 2381.0m and cuttings sample at 2390m. The top of the zone is picked at the LADs (Last Appearance Datums) of the indicator species *Forcipites longus*, *Camarozonosporites horrendus* ms, and *P. otwayensis* ms which all occur at 2228.5m associated with common *Gambierina rudata*. Aside from the abundances of the last species, *Proteacidites* spp. and *Stereisporites* spp. are common through the zone.

The sample at 2232.3m is unusual in that (i) the nexinous thickenings around the pores of the *Gambierina rudata* specimens are weakly developed and (ii) a population of *Beaupreaidites orbiculatus* is present. The Late Cretaceous form of *Beaupreaidites elegansiformis* occurs at 2247.5m.

Lower *Lygistepollenites balmei* Zone: 2112.0-2197.8 metres Paleocene.

The top of the zone is picked on the common occurrence of *Proteacidites angulatus* at 2112.0m while the three underlying samples are assigned to the zone on the presence of *Tetracolporites verrucosus*. Palynofloras in this interval are dominated by gymnosperm pollen and *Proteacidites* spp. Most contain low numbers of the eponymous species *Lygistepollenites balmei* and *Australopollis obscurus*. *In situ* Upper *L. balmei* and Upper *T. longus* Zone indicator species are absent. All dates are of relatively low confidence.

The single sample from Core-1 yielded a low diversity assemblage which probably belongs to the Lower subzone but can only be confidently assigned to the broader *L. balmei* Zone.

Upper *Lygistepollenites balmei* Zone: 1830.0-2001.5 metres Paleocene.

Although seven of the eight samples over this interval contain moderately diverse assemblages (average of 20+ species in the 7 productive samples) indicator species for the Upper subdivision are rare. These are restricted to *Proteacidites annularis* at 1921.1m and *Verrucosisporites kopukuensis* at 1921.1m and 2001.5m. Relative to the Lower *L. balmei* Zone the species *Lygistepollenites balmei* and *Gleicheniidites* spp. increase in abundance.

Lower *Malvacipollis diversus* Zone: 1735.5-1780.0 metres Early Eocene.

Three samples are assigned to this zone with varying degrees of confidence.

The lowest sample, at 1780.0m, contains low numbers of the marine dinoflagellate *Deflandrea obliquipes*. The spore-pollen assemblage is diverse, including (recycled) *Lygistepollenites balmei* and the lowest records in Harlequin-1 of a number of species which first appear within the Upper *L. balmei* Zone, e.g. *Anacolosidites acutullus, Banksieaeidites arcuatus, Cupanieidites orthoteichus, Malvacipollis subtilis, Proteacidites grandis* and *P. incurvatus*. Rare species recorded include *Dictyophyllidites arcuatus* Pocknall & Mildenhall 1984, and *Retistephanocolporites nixonii* ms. Specimens of *Triporopollenites heleosus* ms indicate that the sample is no older than Lower *M. diversus* Zone.

The SWC sample at 1762.5m yielded a general *M. diversus* Zone palynoflora.

The highest sample, at 1735.5m, contains essentially the same palynoflora as 1780.0m, except that *Proteacidites tuberculotumulatus* ms is present.

The immediately overlying sample at 1729.0m which is zone indeterminate contains only *L. balmei* Zone contaminants while the sample at 1708.0m was dominated by a small (less than 20 microns) undescribed species of *Proteacidites*.

Middle *Malvacipollis diversus* Zone: 1686.5 metres Early Eocene.

This sample is assigned to the zone on the oldest undoubted occurrence of the species *Proteacidites ornatus* and *P. tuberculiformis*, and the absence of the key younger zone species *P. pachypolus* and *Myrtaceidites tenuis*. The presence of a fragment of the pollen *Clavastephanocolporites meleosus* ms is considered to be an anomalously old occurrence.

Proteacidites asperopolus **Zone: 1594.0-1624.0 metres Early Eocene.**

The lower boundary of this zone is placed at the sidewall core at 1624.0m which yielded *Conbaculites apiculatus ms, Myrtaceidites tenuis* and frequent *Proteacidites pachypolus*, an association of species typical of the *P. asperopolus* Zone. The top of the zone is placed at the sidewall core at 1594.0m which contains the LAD of *M. tenuis*. This sample also contains *Proteacidites asperopolus*.

The immediately overlying sample at 1577.5m contains a low diversity assemblage which is not zone diagnostic.

Lower *Nothofagidites asperus* Zone: 1458.5-1525.5 metres Middle Eocene.

An increase in abundance of *Nothofagidites emarcidus/heterus* above the LAD of *M. tenuis* is basis for placing the base of the zone. As is often typical of this zone the First Appearance Datums (FADs) of key species are recorded above a interval of low confidence zone determinations. Important FADs are *Tricolporites leuros* and *Proteacidites reflexus* (1525.5m); *Nothofagidites asperus* (1505.0m); *N. falcatus* and *Proteacidites recavus* (1493.0m); and, *Tricolpites simatus* (1458.5m).

Middle *Nothofagidites asperus* Zone 1419.0-1434.0 metres Late Eocene.

Palynofloras in this and the overlying Upper *N, asperus* Zone section are wholly dominated by *Nothofagidites* spp., including low numbers of *N. falcatus*.

The Middle *N. asperus* Zone interval is delineated by occurrences of *Tricolpites thomasii* at 1434.0m and *Triorites magnificus*, *Aglaoreidia qualumis* and *Proteacidites tuberculatus* (only at 1422.0m) in the overlying two sidewall cores.

The sample at 1434.0m lacks marine indicators. The overlying sample 1422.0m is dominated by a monospecific assemblage of the dinoflagellate *Gippslandica extensa*, while the shallowest sample at 1419.0m, although only containing a low abundance of dinoflagellates, shows a significant rise in diversity consistent with the lithological assignment of this sample to the Gurnard Formation. The age of this transition to a marine environment parallels the observations made in Stover and Partridge (1982, p.74-77).

Upper *Nothofagidites asperus* Zone: 1407.0-1413.0 metres
Late Eocene-Early Oligocene.

Common *Phthanoperidinium comatum* at 1413.0m and a specimen of *Granodiporites nebulosus* at 1407.0m provide a reliable Upper *N. asperus* Zone age for this interval. Both palynofloras are dominated by marine dinoflagellates. *Cyatheacidites annulatus* was not recorded, although could

have perhaps been expected at 1407.0m as the samples is from the base of the Lakes Entrance Formation.

Proteacidites tuberculatus Zone: 1391.0-1400.0 metres Oligocene.

This interval is confidently assigned to the *P. tuberculatus* Zone on the occurrence of the spore *Cyatheacidites annulatus* in the deepest and shallowest samples. Of particular note is the frequent occurrences of *Deflandrea phosphoritica* and *Cyatheacidites annulatus* in the shallowest sample. This association is very rare being only found in what are interpreted as shallow water sequences in the Bass, Otway and Gippsland Basins. The species identified as *Deflandrea* sp. cf *D. heterophylcta* is a morphological end-member characterized by a *D. phosphoritica* shaped epicyst and verrucate endocyst.

Reworked specimens of the Permian spores *Dulhuntyispora parvithola* and *Pseudoreticulatispora pseudoreticulata* were recorded at 1400.0m and 1393.0m respectively.

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TABLE 1: INTERPRETATIVE PALYNOLOGICAL DATA HARLEQUIN-1, GIPPSLAND BASIN

SAMPLE TYPE	DEPTH (M)	SPORE-POLLEN ZONE	DINOFLAGELLATE ZONE (OR ASSOCIATION)	CONFIDENCE RATING	COMMENT
SWC 60	1391.0	*P. tuberculatus*	(*P. simplex*)	0	Frequent *Cyatheacidites annulatus*
SWC 59	1393.0	*P. tuberculatus*		2	
SWC 58	1400.0	*P. tuberculatus*		1	Rare *C. annulatus*; Permian reworking
SWC 57	1407.0	Upper *N. asperus*		2	
SWC 56	1413.0	Upper *N. asperus*	*P. comatum*	1	Common *Phthanoperidinium comatum*
SWC 55	1419.0	Middle *N. asperus*	*G. extensa*	0	
SWC 54	1422.0	Middle *N. asperus*	*G. extensa*	0	
SWC 53	1434.0	Middle *N. asperus*		2	*Tricolpites thomasii*
SWC 52	1458.5	Lower *N. asperus*		1	
SWC 51	1493.0	Lower *N. asperus*		1	Non-marine dinoflagellates present
SWC 50	1505.0	Lower *N. asperus*		2	
SWC 49	1525.5	Lower *N. asperus*		2	
SWC 47	1577.5	Indeterminate			
SWC 45	1594.0	*P. asperopolus*		1	LAD *Myrtaceidites tenuis*
SWC 44	1624.0	*P. asperopolus*		1	FAD *Conbaculites apiculatus* ms
SWC 42	1686.5	Middle *M. diversus*		1	*Clavastephanocolporites meleosus* ms present
SWC 41	1708.0	Indeterminate			No key species recorded
SWC 40	1729.5	Indeterminate			Contaminated from *L. balmei* Zone
SWC 39	1735.5	Lower *M. diversus*		1	
SWC 38	1762.5	Lower *M. diversus*		2	
SWC 37	1780.0	Lower *M. diversus*		1	
SWC 35	1830.0	Upper *L. balmei*		1	
SWC 34	1844.0	Indeterminate			
SWC 33	1870.0	*L. balmei*		1	
SWC 32	1875.0	Indeterminate			Barren of palynomorphs
SWC 30	1895.9	*L. balmei*		1	
SWC 29	1921.1	Upper *L. balmei*		1	*Proteacidites annularis* present
SWC 28	1930.0	*L. balmei*		1	
SWC 27	1972.0	*L. balmei*		1	

TABLE 1: INTERPRETATIVE PALYNOLOGICAL DATA HARLEQUIN-1, GIPPSLAND BASIN

SAMPLE TYPE	DEPTH (M)	SPORE-POLLEN ZONE	DINOFLAGELLATE ZONE (OR ASSOCIATION)	CONFIDENCE RATING	COMMENT
SWC 26	1989.0	*L. balmei*		1	
SWC 25	2001.5	Upper *L. balmei*		2	*Verrucosisporites kopukuensis* present
SWC 24	2047.0	Indeterminate			Barren because sample is a tuff
SWC 23	2056.0	Indeterminate			Fossils very sparse
Core 1	2084.6	*L. balmei*		1	
SWC 22	2112.0	Lower *L. balmei*		2	Common *Proteacidites angulatus*
SWC 21	2141.0	Lower *L. balmei*		2	
SWC 20	2189.5	Lower *L. balmei*		1	
SWC 19	2197.8	Lower *L. balmei*		2	
Cuttings	2225.0	Indeterminate			
SWC 18	2228.5	Upper *T. longus*		1	LAD *Forcipites longus*
SWC 17	2232.2	Upper *T. longus*		1	
SWC 16	2247.5	Upper *T. longus*		1	
Cuttings	2255.0	Upper *T. longus*		3	
SWC 15	2256.0	Upper *T. longus*		1	
SWC 14	2281.5	Upper *T. longus*		1	Early Cretaceous reworking conspicuous
SWC 13	2293.0	Indeterminate			
Cuttings	2300.0	*T. longus*		3	
SWC 12	2347.1	Upper *T. longus*		1	FAD *Stereisporites (Tripunctisporis)* spp.
SWC 11	2368.5	*T. longus*		2	
Cuttings	2370.0	Upper *T. longus*		3	Common *Gambierina rudata*
SWC 10	2381.0	Upper *T. longus*		2	Abundant *G. rudata*
Cuttings	2390.0	Upper *T. longus*		3	Common *G. rudata*
Cuttings	2440.0	*T. longus / T. lilliei*			
SWC 7	2457.5	Lower *T. longus*		1	
Cuttings	2465.0	*T. longus / T. lilliei*			

TABLE 1: INTERPRETATIVE PALYNOLOGICAL DATA HARLEQUIN-1, GIPPSLAND BASIN

SAMPLE TYPE	DEPTH (M)	SPORE-POLLEN ZONE	DINOFLAGELLATE ZONE (OR ASSOCIATION)	CONFIDENCE RATING	COMMENT
SWC 6	2484.5	Lower *T. longus*		1	
SWC 5	2498.3	Lower *T. longus*		1	FAD *Forcipites longus*
Cuttings	2500.0	Indeterminate			
SWC 4	2514.5	*T. lilliei*		1	
Cuttings	2515.0	*T. lilliei*		3	
Cuttings	2525.0	*T. longus / T. lilliei*			
SWC 3	2540.0	*T. lilliei*		1	
Cuttings	2540.0	Indeterminate			
SWC 2	2542.8	*T. lilliei*		1	FAD *Tricolporites lilliei*
SWC 1	2548.0	*T. lilliei*		2	Cannot be older than *N. senectus* Zone

LAD = Last appearance datum
FAD = First appearance datum

PALYNOLOGY DATA SHEET

BASIN: *Gippsland* ELEVATION: KB: *+21.0m* GL: *-43.0m*

WELL NAME: *Harlequin-1* TOTAL DEPTH: *2574.0m*

AGE	PALYNOLOGICAL ZONES	HIGHEST DATA					LOWEST DATA				
		Preferred Depth	Rtg	Alternate Depth	Rtg	Two Way Time	Preferred Depth	Rtg	Alternate Depth	Rtg	Two Way Time
NEOGENE	*T. pleistocenicus*										
	M. lipsis										
	C. bifurcatus										
	T. bellus										
PALEOGENE	*P. tuberculatus*	*1391*	*0*				*1400*	*1*			
	Upper *N. asperus*	*1407*	*2*				*1413*	*1*			
	Mid *N. asperus*	*1419*	*0*				*1434*	*2*			
	Lower *N. asperus*	*1458.5*	*1*				*1525.5*	*2*			
	P. asperopolus	*1594*	*1*				*1624*	*1*			
	Upper *M. diversus*										
	Mid *M. diversus*						*1686.5*	*1*			
	Lower *M. diversus*	*1735.5*	*1*				*1780*	*1*			
	Upper *L. balmei*	*1830*	*1*				*2001.5*	*2*	*1921.1*	*1*	
	Lower *L. balmei*	*2112*	*2*				*2197.8*	*2*	*2189.5*	*1*	
LATE CRETACEOUS	Upper *T. longus*	*2228.5*	*1*				*2390*	*3*	*2381*	*1*	
	Lower *T. longus*	*2457.5*	*1*				*2498.3*	*1*			
	T. lilliei	*2514.5*	*1*				*2548*	*2*	*2542.8*	*1*	
	N. senectus										
	T. apoxyexinus										
	P. mawsonii										
	A. distocarinatus										
EARLY CRET.	*P. pannosus*										
	C. paradoxa										
	C. striatus										
	C. hughesi										
	F. wonthaggiensis										
	C. australiensis										

COMMENTS: *All depths in metres. The following dinoflagellate zones were identified:*

Phthanoperidinium comatum 1413.0m

Gippslandica extensa 1419.0-1422.0m

CONFIDENCE RATING:

0: SWC or Core, Excellent Confidence, assemblage with zone species of spores, pollen and microplankton.

1: SWC or Core, Good Confidence, assemblage with zone species of spores and pollen or microplankton.

2: SWC or Core, Poor Confidence, assemblage with non-diagnostic spores, pollen and/or microplankton.

3: Cuttings, Fair Confidence, assemblage with zone species of either spores and pollen or microplankton, or both.

4: Cuttings, No Confidence, assemblage with non-diagnostic spores, pollen and/or microplankton.

NOTE: If an entry is given a 3 or 4 confidence rating, an alternative depth with a better confidence rating should be entered, if possible. If a sample cannot be assigned to one particular zone, then no entry should be made, unless a range of zones is given where the highest possible limit will appear in one zone and the lowest possible limit in another.

DATA RECORDED BY: *M.K. Macphail & A.D. Partridge* DATE: *October 1989*

DATA REVISED BY: _____ DATE: _____

BASIC DATA

TABLE-2: BASIC DATA

RANGE CHART

TABLE 2: BASIC PALYNOLOGICAL DATA HARLEQUIN-1, GIPPSLAND BASIN

SAMPLE TYPE	DEPTH (M)	LAB NO.	LITHOLOGY	RESIDUE YIELD	PALYNOMORPH CONCENTRATION	PRESERVATION	NUMBER S-P SPECIES	DINOFLAGELLATE ABUNDANCE	DINOFLAGELLATE NO. SPECIES
SWC 60	1391.0	78212 C	Calcareous claystone	Moderate	Moderate	Poor-fair	31+	High	14+
SWC 59	1393.0	78212 B	Calcareous claystone	High	Moderate	Poor	21+	High	10+
SWC 58	1400.0	78212 A	Calcareous claystone	Moderate	High	Poor	36+	Moderate	8+
SWC 57	1407.0	78211 Z	Calcareous claystone	Moderate	Low	Fair	32+	Low	4+
SWC 56	1413.0	78211 Y	Glauconitic siltstone	High	High	Fair	28+	High	3+
SWC 55	1419.0	78211 X	Glauconitic siltstone	Low	Low	Poor-fair	32+	Low	5+
SWC 54	1422.0	78211 W	Carbonaceous siltstone	High	High	Good	35+	Moderate	1
SWC 53	1434.0	78211 V	Siltstone	Moderate	Moderate	Good	27+		
SWC 52	1458.5	78211 U	Siltstone	High	Moderate	Good	39+	Very low	1
SWC 51	1493.0	78211 T	Siltstone	Low	Moderate	Good	40+		
SWC 50	1505.0	78211 S	Siltstone	Low	Moderate	Good	27+		
SWC 49	1525.5	78211 R	Siltstone	Low	Low	Fair	28+	Very low	1
SWC 47	1577.5	78211 Q	Claystone	Very low	Very low	Fair	10+		
SWC 45	1594.0	78211 P	Siltstone	Moderate	Moderate	Good	26+		
SWC 44	1624.0	78211 O	Claystone	Low	Low	Good	22+		
SWC 42	1686.5	78211 N	Siltstone	High	High	Good	49+	Very low	1
SWC 41	1708.0	78211 M	Claystone	Very low	Very low	Poor	15+		
SWC 40	1729.5	78211 L	Siltstone	Very low	Very low	Fair	12+		
SWC 39	1735.5	78211 K	Claystone	High	High	Fair	46+	Very low	1+
SWC 38	1762.5	78211 J	Siltstone	Low	Low	Good	28+		
SWC 37	1780.0	78211 I	Siltstone	High	High	Good	61+	Very low	1+
SWC 35	1830.0	78211 H	Claystone	Low	Low	Poor	13+		
SWC 34	1844.0	78211 G	Claystone	Low	Low	Poor	4+		
SWC 33	1870.0	78211 F	Claystone	Moderate	Low	Fair	14+		
SWC 32	1875.0	78211 E	Siltstone	Barren					
SWC 30	1895.9	78211 D	Claystone	High	Low	Fair	13+		
SWC 29	1921.1	78211 C	Siltstone	High	High	Good	27+		
SWC 28	1930.0	78211 B	Siltstone	High	High	Good	19+		
SWC 27	1972.0	78211 A	Claystone	Low	Low	Fair-poor	11+		

TABLE 2: BASIC PALYNOLOGICAL DATA HARLEQUIN-1, GIPPSLAND BASIN

SAMPLE TYPE	DEPTH (M)	LAB NO.	LITHOLOGY	RESIDUE YIELD	PALYNOMORPH CONCENTRATION	PRESERVATION	NUMBER S-P SPECIES	DINOFLAGELLATE ABUNDANCE	DINOFLAGELLATE NO. SPECIES
SWC 26	1989.0	78210 Z	Siltstone	High	High	Fair	26+		
SWC 25	2001.5	78210 Y	Siltstone	High	High	Good	32+		
SWC 24	2047.0	78210 X	Altered tuff ?	Barren					
SWC 23	2056.0	78210 W	Siltstone	Very low	Very low	Fair	4+		
Core 1	2084.6	78209 L	Siltstone	High	Moderate	Fair	15+		
SWC 22	2112.0	78210 V	Claystone	Low	Low	Poor	14+		
SWC 21	2141.0	78210 U	Claystone	High	High	Fair	28+		
SWC 20	2189.5	78210 T	Claystone	Low	Low	Fair	32+		
SWC 19	2197.8	78210 S	Siltstone	Low	Low	Poor	21+		
Cuttings	2225.0	78209 A	Coal fraction	High	Barren				
SWC 18	2228.5	78210 R	Claystone	High	Moderate	Poor-fair	21+		
SWC 17	2232.2	78210 Q	Siltstone	Moderate	Moderate	Fair	28+		
SWC 16	2247.5	78210 P	Claystone	Low	Low	Fair	31+		
Cuttings	2255.0	78209 B		High	High	Fair-good	15+		
SWC 15	2256.0	78210 O	Siltstone	High	High	Good	24+		
SWC 14	2281.5	78210 N	Siltstone	High	High	Good	28+	Very low	1
SWC 13	2293.0	78210 M	Siltstone	Very low	Very low	Fair	14+		
Cuttings	2300.0	78209 C		High	Moderate	Poor-fair	17+		
SWC 12	2347.1	78210 L	Claystone	Moderate	Moderate	Poor-fair	17+		
SWC 11	2368.5	78210 K	Claystone	Very low	Very low	Fair	13+		
Cuttings	2370.0	78209 D		High	Moderate	Fair	14+		
SWC 10	2381.0	78210 J	Claystone	High	High	Good	31+		
Cuttings	2390.0	78209 E		High	Moderate	Fair	19+		
Cuttings	2440.0	78209 F	Coal fraction	High	Low	Fair-poor	7+		
SWC 7	2457.5	78210 G	Siltstone	Moderate	Moderate	Poor	16+		
Cuttings	2465.0	78209 G		High	Moderate	Fair	17+		

TABLE 2: BASIC PALYNOLOGICAL DATA HARLEQUIN-1, GIPPSLAND BASIN

SAMPLE TYPE	DEPTH (M)	LAB NO.	LITHOLOGY	RESIDUE YIELD	PALYNOMORPH CONCENTRATION	PRESERVATION	NUMBER S-P SPECIES	DINOFLAGELLATE ABUNDANCE	DINOFLAGELLATE NO. SPECIES
SWC 6	2484.5	78210 F	Claystone	High	High	Good	34+	Very low	2
SWC 5	2498.3	78210 E	Siltstone	Moderate	Moderate	Good	35+		
Cuttings	2500.0	78209 H	Coal fraction	High	Barren				
SWC 4	2514.5	78210 D	Siltstone	Moderate	Moderate	Poor	25+		
Cuttings	2515.0	78209 I		High	Moderate	Fair	29+		
Cuttings	2525.0	78209 J		High	Low	Fair	17+		
SWC 3	2540.0	78210 C	Siltstone	High	High	Good	25+		
Cuttings	2540.0	78209 K		Moderate	Low	Poor-fair	15+		
SWC 2	2542.8	78210 B	Siltstone	Moderate	Moderate	Moderate	26+		
SWC 1	2548.0	78210 A	Siltstone	Low	Low	Poor	24+		

PE900500

This is an enclosure indicator page.
The enclosure PE900500 is enclosed within the container PE902164 at this location in this document.

The enclosure PE900500 has the following characteristics:

ITEM_BARCODE	= PE900500
CONTAINER_BARCODE	= PE902164
NAME	= Palynological Range Chart
BASIN	= GIPPSLAND
PERMIT	= VIC/P1
TYPE	= WELL
SUBTYPE	= DIAGRAM
DESCRIPTION	= Palynological Range Chart for Harlequin-1
REMARKS	=
DATE_CREATED	=
DATE_RECEIVED	=
W_NO	= W986
WELL_NAME	= HARLEQUIN-1
CONTRACTOR	=
CLIENT_OP_CO	= ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

APPENDIX 2

HARLEQUIN 1

QUANTITATIVE LOG ANALYSIS

INTERVAL : 1421m - 2575m TVD
ANALYST : A. R. GILBY
DATE : APRIL, 1989

HARLEQUIN 1

QUANTITATIVE LOG ANALYSIS

CONTENTS

Logs used

Analysis methodology

Analysis parameters

Discussion

Figure 1: Logs over interval 2070m to 2105m showing core 1 data
Table 1: Routine core analysis for core 1

Appendix 1. Algorithms and logic used in the quantitative analysis

Analysis Summary Table (net and gross sand)

Well Data Listing

SOLAR Depth plot

HARLEQUIN 1

QUANTITATIVE LOG ANALYSIS

Wireline log data from the Harlequin 1 exploration well has been quantitatively analysed over the interval 1421-2575m TVD for effective porosity and effective water saturation. Results are presented in the form of accompanying depth plots and tabular listings, and are summarised and discussed below. Harlequin 1 was interpreted to have no economic hydrocarbons and was subsequently plugged and abandoned.

LOGS USED

CALI	(Caliper)
GR	(gamma ray)
LLS	(shallow laterolog)
LLD	(deep laterolog)
MSFL	(micro-spherically focussed log)
RHOB	(bulk density)
NPHI	(neutron porosity)
DT	(sonic log)

ANALYSIS METHODOLOGY

Apparent total porosity was calculated using the sonic log in regions of bad hole and from density-neutron crossplot algorithms elsewhere. Similarly, shale volume was calculated using the gamma ray log response in regions of bad hole and from density-neutron separations elsewhere.

Water saturations were determined from the dual water relationship. Salinity data was incorporated into Sw through the identification of six discrete salinity zones (see Analysis Parameters). Effective porosities and Sw values were derived from the apparent total porosity and Sw, calculated shale volume and apparent shale porosity.

ANALYSIS PARAMETERS

Tortuosity; 'a'	1.00
Cementation factor; 'm'	2.00
Saturation exponent; 'n'	2.00
Fluid density	1.00
Gamma Ray value in clean formation (grmin)	25
Gamma Ray value in shale (grmax)	110
Apparent bulk density of shale	2.55
Apparent neutron porosity of shale	0.27
Irreducible water saturation	0.025
Vsh upper limit for effective porosity	0.65
Water depth	43m
KB height	21m

Salinity Zones

1420m - 1810m	1500ppm
1811m - 1922m	12000 to 20000ppm
1923m - 1965m	30000ppm
1966m - 2330m	35000ppm
2331m - 2400m	15000ppm
2401m - 2575mTD	10000ppm

DISCUSSION

Up to 90% fluorescence with a moderately fast streaming cut was intersected between 2055m and 2079mKB accompanied by an increase in background gas. As a result, core 1 was cut from 2079m to 2098m. Core 1 yielded 100% fluorescence with an instant cut at the top decreasing with depth. Electric log response over this zone of interest was not however as encouraging as initial core results promised with no significant hydrocarbons apparent (figure 1).

Core analysis showed the presence of greater than 2000md permeability and 20% porosity with oil saturations of up to 20%. Oil saturations in core 1 decreased markedly below 2091m (Table 1). Core and electric log results are indicative of a gross palaeo-oil column of up to 31m if the sand above the cored interval, which exhibited shows, is taken into account. A slight indication of residual hydrocarbons is suggested by the effective Sw curve above the palaeo-OWC in the cored zone.

Minor oil shows were encountered deeper in the section but only residual oil is interpreted.

RFT and SWC results confirm log and core analysis and subsequently Harlequin 1 was plugged and abandoned.

FIGURE 1 : HARLEQUIN 1 . Interval 2070m - 2105m

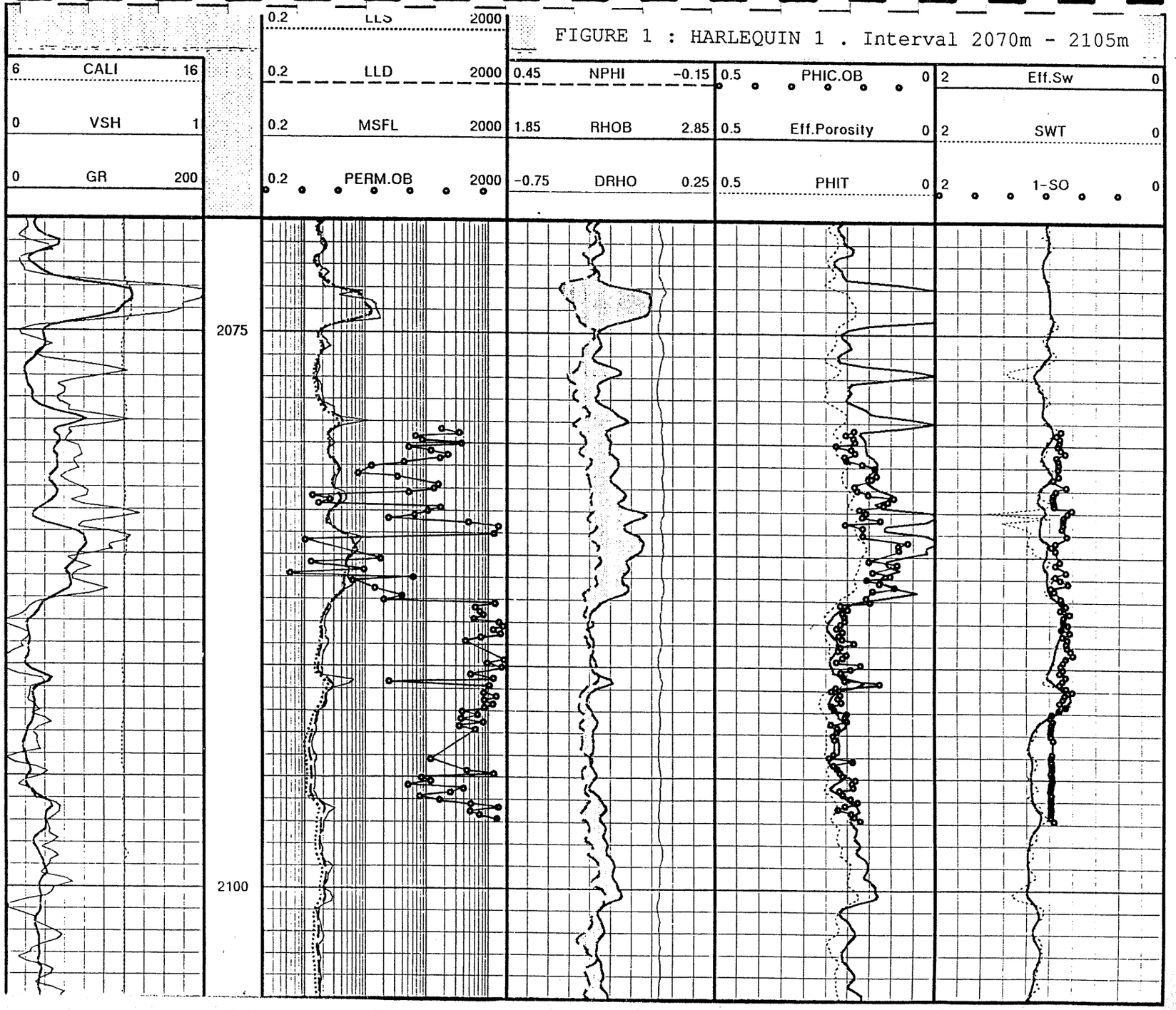

TABLE 1 :

Core 1 (2079m - 2096m)

ROUTINE CORE ANALYSIS RESULTS

Company: Esso Australia Ltd.
Well : Harlequin # 1

Sample Number	Depth, Metres	Permeability to air, md		Porosity percent		Residual Fluids	
		Ambient	NOBP	Ambient	NOBP	Water Sw%	Oil So%
1	2079.22	217	175	20.6	18.6	47.3	9.4
3	2079.38	403	336	22.0	20.5	39.1	5.3
5	2079.54	92.3	65.1	20.7	18.7	44.1	8.2
8	2079.70	125	84.6	20.4	18.4	47.6	8.0
12	2079.91	507	365	24.6	22.7	29.9	6.4
14	2080.07	78.2	51.7	20.9	19.2	46.0	9.4
16	2080.19	148	118	19.9	18.3	47.8	13.3
19	2080.38	326	219	22.6	20.8	41.5	5.7
20	2080.50	237	166	21.7	20.4	40.4	6.7
24	2080.70	67.6	42.0	18.3	16.7	43.9	7.5
26	2080.84	20.8	12.4	15.8	13.9	47.8	6.7
32	2081.23	13.1	7.5	15.4	13.5	57.4	7.2
36	2081.40	44.5	33.2	17.5	14.6	54.8	2.8
38	2081.59	150	112	20.1	18.4	40.6	7.8
40	2081.70	212	156	20.2	18.5	36.7	14.1
42	2081.86	159	131	19.0	17.8	42.1	5.0
46	2082.06	64.2	50.8	16.7	15.4	54.9	2.5
48	2082.21	3.00	1.34	11.4	9.5	62.3	2.1
51	2082.37	5.88	2.58	12.7	10.9	59.2	3.1
52	2082.49	3.78	1.69	13.4	11.9	55.8	3.6
55	2082.66	218	168	18.8	17.4	23.8	19.0
58	2082.80	135	104	17.1	15.9	30.9	15.1
60	2082.93	100	62.9	18.1	16.7	38.2	11.5
63	2083.12	40.6	23.8	15.3	12.6	43.3	11.2
66	2083.29	758	588	21.6	19.8	36.5	17.4
67	2083.41	594	464	22.2	20.6	42.9	11.0
69	2083.56	1846	1406	18.4	16.6	40.5	10.0
73	2083.77	2245	1195	19.2	16.6	39.4	14.7
78	2084.12	0.13	<0.01	6.5	6.3	66.4	4.6
80	2084.27	0.21	0.06	9.8	8.5	76.5	1.1
83	2084.44	0.86	0.24	11.3	9.4	58.2	2.6
84	2084.52	0.18	0.03	8.9	8.3	54.4	4.3
93	2085.07	28.9	17.2	16.9	15.2	47.6	8.5
94	2085.19	376	1.27	10.9	8.7	74.9	4.5
99	2085.50	16.3	9.15	16.1	14.3	37.7	13.6
102	2085.66	1.84	0.57	12.4	10.4	52.3	4.7
104	2085.82	91.0	59.5	17.3	15.7	39.7	8.9
108	2086.01	11.8	6.12	14.5	12.8	45.6	15.6
110	2086.18	0.69	0.13	10.8	9.3	67.3	0.9
112	2086.30	20.1	13.9	15.9	14.4	45.0	3.5
118	2086.69	52.0	38.9	17.2	15.9	36.0	9.5
119	2086.79	29.4	19.4	16.4	15.0	47.5	10.3
123	2087.01	1551	1241	23.4	21.8	30.5	13.8
125	2087.15	827	608	22.0	20.1	51.8	8.8
128	2087.30	910	708	22.9	21.2	41.5	16.7
130	2087.45	1064	813	22.8	20.9	31.8	11.7
134	2087.65	924	578	22.4	20.7	39.1	11.0
136	2087.82	1810	1446	23.1	21.7	36.2	15.4
137	2087.97	2949	1684	24.3	22.6	48.0	9.6
141	2088.17	1759	1166	23.3	21.3	43.5	17.0
143	2088.35	1839	1534	23.8	22.1	41.9	10.8
146	2088.52	1005	743	23.1	21.4	39.4	15.0

148	2088.68	537	420	20.4	18.6	39.3	14.2
151	2088.84	3237	2459	23.7	21.8	41.6	15.0
152	2088.96	5685	4532	24.4	22.3	33.5	17.9
156	2089.16	3125	2294	22.6	20.4	36.8	19.8
157	2089.25	5945	4669	23.6	21.3	35.2	11.1
159	2089.36	4964	3985	23.7	21.3	39.9	13.4
163	2089.55	2763	1748	24.5	22.6	41.1	11.3
165	2089.71	1631	936	19.2	17.1	48.3	9.5
167	2089.79	2269	1622	21.5	19.3	40.3	11.4
169	2089.99	4471	2930	24.7	21.6	47.8	8.1
172	2090.12	2049	1390	23.2	20.9	46.9	12.2
173	2090.20	677	509	23.4	21.1	47.3	13.8
176	2090.35	1820	1186	23.0	20.8	48.7	10.8
178	2090.57	37.0	24.0	14.4	12.7	34.2	8.4
180	2090.72	1356	1016	24.3	22.7	32.7	13.9
182	2090.87	3740	2253	26.2	23.7	36.8	19.3
186	2091.08	1650	819	23.8	21.8	52.0	12.5
188	2091.22	1850	1308	24.1	22.2	49.4	11.4
190	2091.37	1207	845	23.4	21.5	54.8	8.4
193	2091.53	1429	1153	25.2	23.6	48.6	13.8
197	2091.72	1031	834	24.9	23.1	53.6	7.8
200	2091.89	578	371	22.0	20.2	58.8	1.5
202	2092.05	797	656	22.6	20.6	63.9	0.4
205	2092.20	469	356	22.5	20.3	59.3	2.3
207	2092.36	966	805	25.6	23.9	55.9	1.2
210	2092.53	501	334	24.6	22.4	52.0	0.9
211	2092.65	1104	599	25.2	22.5	62.2	0.4
215	2092.84	3201	2509	25.1	23.4	60.6	0.5
217	2093.00	5036	4026	24.8	23.0	49.9	2.4
219	2080.34	564	393	24.0	21.9	62.0	1.4
222	2093.63	4042	3050	25.3	23.2	62.8	1.9
225	2093.79	2015	1415	24.3	22.1	53.6	1.2
227	2093.91	5373	3932	25.8	24.3	49.5	0.6
230	2094.10	4443	3532	25.1	23.2	56.8	1.6
234	2094.35	4533	3547	24.2	22.4	65.8	1.5
235	2094.44	709	436	23.4	21.7	55.1	0.6
238	2094.60	1682	1206	22.9	21.1	60.6	1.6
240	2094.07	172	116	20.7	18.8	61.2	1.0
243	2094.89	127	80.7	20.7	18.2	61.2	2.2
246	2095.08	170	116	20.9	19.0	57.1	1.1
248	2095.24	78.2	49.6	20.6	18.7	52.3	0.6
251	2095.40	658	386	24.2	21.9	55.7	0.4
252	2095.50	396	241	23.3	21.1	55.6	1.4
256	2095.72	121	76.0	21.1	19.3	56.2	0.8
258	2095.88	215	160	19.6	17.7	70.3	1.4
260	2096.00	839	513	23.2	20.6	55.0	0.9
263	2096.14	2084	1415	23.9	22.3	65.8	1.1
265	2096.26	1104	638	21.2	18.9	66.6	0.7
268	2096.41	667	496	22.0	19.2	60.7	0.8
271	2096.57	1354	698	20.8	18.5	61.8	0.7
273	2096.68	2041	1325	18.8	17.1	58.0	3.6

APPENDIX 1
ALGORITHMS & LOGIC USED IN THE QUANTITATIVE ANALYSIS

Initial Total Porosity and Shale Volume was calculated from the bulk density and neutron porosity log responses as follows:

```
vsh = ((nphi+0.04) - ((2.65-rhob)/(2.65-rhof)))/
      ((phinsh+0.04) - ((2.65-rhobsh)/(2.65-rhof)))
vsh = min(1,(max(0,vsh)))


h = (2.71-rhob) + (nphi*(rhof-2.71))
  if (h>=0)
    rhoma=2.71-(0.5*h)
  else
    rhoma=2.71-(0.64*h)
phit = max(0.001,(min(1,((rhoma-rhob)/(rhoma-rhof)))))
```

In intervals where the hole was ruggose and the density-neutron data was deemed to be invalid, Shale Volume derived from the Gamma Ray response and Porosity calculated from the Sonic Transit Time were substituted.

```
aa  =   max(0,(min(1,((gr-grmin)/(grmax-grmin)))))
bb  = max(0,(min(1,(1.7-sqrt(3.38-((aa+0.7)**2))))))
vsh = aa*aa + (1-aa)*bb

phis = 1-((dtma/dt)**(1/x))
    where dtma = 182.1
              x = 1.6
        (after Raiga-Clemenceau et al. (paper G , 1986 SPWLA trans.)
```

The Apparent Salinity profile was derived from aRw back-calculated in clean sands from Archie's equation, assuming 100% Sw.

Swt (total Water Saturation) was calculated using the dual water relationship
1/rt = (swt**n)*(phit**m)/(a*rw)+swt**(n-1)*(swb*(phit**m)/a)*((1/rwb)-(1/rw
This is solved for Sw by Newtons solution:

```
exsw=0
sw  =0.9
aa  =((phit**m)/(a*rw))
bb  =((swb*(phit**m)/a)*((1/rwb)-(1/rw)))
    repeat
      fx1=(aa*(sw**n))+(bb*(sw**(n-1)))-(1/rt)
      fx2=(n*aa*(sw**(n-1)))+((n-1)*bb*(sw**(n-2)))
         if((abs(fx2)) < 0.0001)
          fx2=0.0001
      swp=sw
      sw =swp-(fx1/fx2)
      exsw=exsw+1
    until (exsw > 4 or (abs(sw-swp)) <= 0.01)
swt=sw
```

Effective Porosity and Water Saturation were derived as follows:

```
if (vsh > vshco){
 swt  = 1
 swe  = 1
 phie = 0
}
else {
```

```
      phie= max(0.0,(phit-(vsh*phish)))
      swe = max(swirr,( 1 - ((phit/phie)*(1-swt))))
      if (vsh > (vshco-0.2)){
         phie= phie*((vshco-vsh)/0.2)
         swe = 1-((1-swe)*((vshco-vsh)/0.2))
      }
   }
where vshco = 0.65
```

HARLEQUIN_1

ANALYSIS SUMMARY.

Net porosity cut-off.....: 0.120 volume per volume
Net water saturation cut-off..: 0.500 volume per volume

Net sand based on Porosity cut-off only.
Both Porosity and Sw cut-offs invoked when generating Hydrocarbon-Metres.

INTERVAL (mRKB) (top) -(base)	Gross (mtrs)	NET SAND Net (mtrs)	Net to Gross	Average Porosity (Std.) (Dev.)	Average Sw (Std.) (Dev.)	HYDRO-CARBON METRES
1421.0-1421.8	0.8	0.2	25 %	0.128 (0.000)	1.000 (0.458)	0.000
1426.6-1427.0	0.4	0.4	100 %	0.309 (0.027)	1.000 (0.408)	0.000
1428.0-1429.0	1.0	0.6	60 %	0.168 (0.035)	1.000 (0.271)	0.000
1433.6-1435.2	1.6	0.8	50 %	0.222 (0.006)	1.000 (0.458)	0.000
1440.2-1440.4	0.2	0.2	100 %	0.224 (0.000)	1.000 (0.286)	0.000
1442.0-1443.4	1.4	1.0	71 %	0.210 (0.046)	1.000 (0.345)	0.000
1449.6-1452.8	3.2	1.8	56 %	0.198 (0.020)	1.000 (0.413)	0.000
1458.6-1474.8	16.2	8.6	53 %	0.223 (0.052)	1.000 (0.360)	0.000
1477.0-1484.0	7.0	6.0	86 %	0.242 (0.042)	1.000 (0.286)	0.000
1487.6-1489.6	2.0	1.2	60 %	0.201 (0.037)	1.000 (0.458)	0.000
1497.4-1499.6	2.2	2.0	91 %	0.250 (0.028)	1.000 (0.346)	0.000
1501.0-1507.6	6.6	4.4	67 %	0.208 (0.025)	1.000 (0.226)	0.000
1510.2-1522.6	12.4	12.0	97 %	0.270 (0.021)	0.940 (0.100)	0.000
1524.2-1524.8	0.6	0.6	100 %	0.225 (0.004)	1.000 (0.458)	0.000
1530.2-1555.2	25.0	24.0	96 %	0.253 (0.034)	1.000 (0.156)	0.000
1565.8-1568.2	2.4	1.6	67 %	0.232 (0.016)	1.000 (0.458)	0.000
1576.2-1577.8	1.6	1.0	62 %	0.202 (0.038)	1.000 (0.458)	0.000
1582.4-1591.8	9.4	8.2	87 %	0.222 (0.038)	1.000 (0.247)	0.000
1595.0-1618.4	23.4	20.0	85 %	0.237 (0.034)	1.000 (0.214)	0.000
1624.8-1636.6	11.8	10.2	86 %	0.234 (0.024)	1.000 (0.339)	0.000
1639.2-1640.2	1.0	1.0	100 %	0.177 (0.018)	1.000 (0.436)	0.000
1642.0-1681.2	39.2	35.6	91 %	0.236 (0.029)	1.000 (0.349)	0.000
1686.8-1701.2	14.4	11.8	82 %	0.208 (0.030)	1.000 (0.313)	0.000
1708.8-1725.2	16.4	13.8	84 %	0.226 (0.035)	1.000 (0.305)	0.000
1728.6-1734.8	6.2	1.4	23 %	0.180 (0.037)	1.000 (0.359)	0.000
1736.0-1758.2	22.2	21.4	96 %	0.219 (0.035)	1.000 (0.240)	0.000
1762.2-1772.4	10.2	8.0	78 %	0.222 (0.026)	1.000 (0.167)	0.000
1780.2-1802.6	22.4	20.8	93 %	0.228 (0.024)	1.000 (0.362)	0.000
1812.2-1822.0	9.8	8.2	84 %	0.218 (0.026)	1.000 (0.177)	0.000
1823.6-1832.6	9.0	6.6	73 %	0.212 (0.053)	1.000 (0.142)	0.000
1845.4-1864.6	19.2	15.6	81 %	0.233 (0.033)	0.939 (0.074)	0.000
1867.0-1868.0	1.0	0.6	60 %	0.130 (0.006)	1.000 (0.384)	0.000
1871.2-1890.6	19.4	14.6	75 %	0.196 (0.038)	0.980 (0.067)	0.000
1895.8-1942.2	46.4	32.4	70 %	0.206 (0.041)	0.986 (0.081)	0.000
1943.6-1958.6	15.0	13.6	91 %	0.207 (0.042)	0.994 (0.068)	0.000
1976.6-1997.8	21.2	13.8	65 %	0.196 (0.041)	1.000 (0.391)	0.000
2000.2-2010.8	10.6	8.2	77 %	0.178 (0.035)	1.000 (0.418)	0.000
2012.6-2023.8	11.2	10.4	93 %	0.198 (0.028)	1.000 (0.426)	0.000
2025.0-2033.6	8.6	6.4	74 %	0.181 (0.036)	1.000 (0.386)	0.000
2056.8-2060.0	3.2	1.4	44 %	0.159 (0.031)	1.000 (0.436)	0.000
2061.2-2072.8	11.6	11.6	100 %	0.216 (0.019)	1.000 (0.289)	0.000
2074.2-2078.8	4.6	3.6	78 %	0.191 (0.022)	1.000 (0.292)	0.000
2079.6-2083.8	4.2	2.8	67 %	0.148 (0.012)	1.000 (0.275)	0.000
2084.8-2108.0	23.2	21.0	91 %	0.196 (0.031)	1.000 (0.336)	0.000
2120.2-2135.6	15.4	12.6	82 %	0.169 (0.021)	1.000 (0.368)	0.000
2143.4-2171.4	28.0	19.8	71 %	0.161 (0.022)	1.000 (0.273)	0.000
2172.6-2176.2	3.6	0.8	22 %	0.129 (0.014)	0.944 (0.007)	0.000

2177.4-2186.6	9.2	4.4	48 %	0.173	(0.031)	1.000	(0.039)	0.000
2190.6-2197.0	6.4	2.4	38 %	0.175	(0.016)	1.000	(0.151)	0.000
2198.2-2223.0	24.8	20.0	81 %	0.165	(0.020)	0.982	(0.049)	0.000
2229.0-2244.6	15.6	11.8	76 %	0.146	(0.015)	1.000	(0.286)	0.000
2256.2-2274.6	18.4	3.4	18 %	0.149	(0.021)	1.000	(0.243)	0.000
2284.2-2288.6	4.4	0.6	14 %	0.137	(0.012)	0.858	(0.034)	0.000
2289.8-2292.8	3.0	1.6	53 %	0.132	(0.009)	0.979	(0.048)	0.000
2296.2-2302.2	6.0	3.4	57 %	0.170	(0.023)	0.913	(0.066)	0.000
2304.2-2351.6	47.4	6.6	14 %	0.150	(0.026)	1.000	(0.210)	0.000
2352.8-2361.8	9.0	4.2	47 %	0.148	(0.014)	1.000	(0.391)	0.000
2371.6-2377.2	5.6	0.0	0 %	-	-	-	-	0.000
2382.6-2386.8	4.2	0.0	0 %	-	-	-	-	0.000
2389.8-2403.8	14.0	0.6	4 %	0.130	(0.011)	1.000	(0.202)	0.000
2414.0-2431.2	17.2	0.0	0 %	-	-	-	-	0.000
2434.2-2454.2	20.0	0.0	0 %	-	-	-	-	0.000
2459.8-2463.0	3.2	0.0	0 %	-	-	-	-	0.000
2465.2-2538.6	73.4	3.8	5 %	0.138	(0.011)	0.973	(0.067)	0.000
2540.8-2545.6	4.8	0.2	4 %	0.131	(0.000)	0.926	(0.000)	0.000
2550.8-2552.6	1.8	0.8	44 %	0.129	(0.008)	0.899	(0.046)	0.000
2557.6-2563.6	6.0	1.4	23 %	0.141	(0.012)	1.000	(0.458)	0.000

HARLEQUIN_1
Well Data Listing

Depth (mRKB)	GR api	RT ohmm	RHOB g/cc	NPHI frac	DT us/m	VSH frac	PHIE frac	SWE frac
1421.0	125	6.7	2.318	0.295	332	0.537	0.051	1.000
1421.2	122	6.2	2.286	0.299	318	0.475	0.116	1.000
1421.4	130	6.0	2.231	0.334	322	0.482	0.128	1.000
1421.6	143	6.1	2.232	0.358	333	0.578	0.023	1.000
1421.8	147	5.5	2.279	0.343	328	0.636	0.000	1.000
1422.0	149	5.0	2.280	0.307	323	Coal		
1422.2	156	5.3	2.228	0.324	331	Coal		
1422.4	152	8.8	2.130	0.367	346	Coal		
1422.6	125	11.9	1.816	0.431	381	Coal		
1422.8	86	13.4	1.445	0.512	447	Coal		
1423.0	51	17.1	1.257	0.551	465	Coal		
1423.2	28	21.9	1.225	0.517	463	Coal		
1423.4	24	35.8	1.232	0.544	461	Coal		
1423.6	32	44.0	1.247	0.559	466	Coal		
1423.8	54	41.6	1.317	0.548	466	Coal		
1424.0	71	27.2	1.417	0.514	463	Coal		
1424.2	73	17.2	1.422	0.456	457	Coal		
1424.4	57	17.2	1.326	0.463	459	Coal		
1424.6	34	21.3	1.271	0.498	463	Coal		
1424.8	20	29.5	1.252	0.525	470	Coal		
1425.0	16	31.6	1.247	0.537	471	Coal		
1425.2	13	31.8	1.235	0.540	471	Coal		
1425.4	11	35.9	1.235	0.522	470	Coal		
1425.6	18	50.8	1.297	0.534	470	Coal		
1425.8	28	45.9	1.505	0.534	446	Coal		
1426.0	40	10.0	1.855	0.414	395	Coal		
1426.2	48	5.2	2.116	0.295	352	Coal		
1426.4	48	3.1	2.171	0.283	335	Coal		
1426.6	49	2.7	2.166	0.289	334	0.143	0.282	1.000
1426.8	52	2.8	2.095	0.290	343	0.000	0.336	1.000
1427.0	55	4.2	1.727	0.348	371	Coal		
1427.2	57	7.4	1.465	0.458	406	Coal		
1427.4	71	15.9	1.513	0.482	427	Coal		
1427.6	92	21.7	1.848	0.433	407	Coal		
1427.8	104	10.1	2.144	0.380	372	Coal		
1428.0	112	8.7	2.210	0.350	354	0.494	0.121	1.000
1428.2	118	10.2	2.177	0.361	358	0.459	0.176	1.000
1428.4	118	17.5	2.129	0.388	376	0.451	0.206	1.000
1428.6	115	19.3	2.122	0.428	379	0.593	0.010	1.000
1428.8	116	12.6	2.174	0.395	362	0.588	0.014	0.963
1429.0	127	8.7	2.210	0.373	346	Coal		
1429.2	128	7.9	2.030	0.388	355	Coal		
1429.4	124	10.4	1.816	0.451	388	Coal		
1429.6	125	10.9	1.839	0.418	390	Coal		
1429.8	126	8.5	2.065	0.335	374	Coal		
1430.0	124	7.0	2.201	0.318	341	Coal		
1430.2	117	8.5	2.238	0.337	337	Coal		
1430.4	99	15.0	2.049	0.382	358	Coal		
1430.6	70	34.0	1.618	0.449	396	Coal		
1430.8	40	45.7	1.328	0.472	437	Coal		
1431.0	33	70.8	1.250	0.511	464	Coal		
1431.2	46	73.3	1.328	0.561	465	Coal		
1431.4	76	43.1	1.590	0.507	439	Coal		
1431.6	104	26.9	2.067	0.415	382	Coal		
1431.8	113	19.6	2.255	0.359	348	Coal		
1432.0	99	13.8	2.110	0.347	341	Coal		
1432.2	76	14.0	1.676	0.418	371	Coal		
1432.4	68	18.7	1.496	0.518	402	Coal		

1432.6	77	23.9	1.649	0.520	408	Coal		
1432.8	83	30.0	1.957	0.449	400	Coal		
1433.0	78	22.1	2.079	0.379	368	Coal		
1433.2	85	16.1	2.172	0.295	351	Coal		
1433.4	115	15.3	2.256	0.261	329	Coal		
1433.6	152	13.8	2.253	0.267	325	0.266	0.219	1.000
1433.8	178	14.8	2.248	0.299	329	0.382	0.214	1.000
1434.0	177	15.2	2.234	0.295	334	0.334	0.225	1.000
1434.2	154	14.8	2.224	0.309	337	0.365	0.229	1.000
1434.4	135	14.8	2.228	0.341	340	0.504	0.105	1.000
1434.6	131	18.5	2.250	0.346	342	0.576	0.023	1.000
1434.8	134	17.6	2.261	0.344	339	0.595	0.004	1.000
1435.0	123	16.7	2.274	0.329	330	0.567	0.031	1.000
1435.2	108	15.1	2.231	0.317	320	Coal		
1435.4	101	19.2	1.996	0.354	345	Coal		
1435.6	92	31.7	1.848	0.437	372	Coal		
1435.8	74	44.3	1.910	0.504	392	Coal		
1436.0	58	35.0	2.061	0.422	379	Coal		
1436.2	53	26.2	2.138	0.348	364	Coal		
1436.4	55	22.7	2.146	0.327	350	Coal		
1436.6	67	25.0	2.079	0.334	355	Coal		
1436.8	81	32.0	2.003	0.379	364	Coal		
1437.0	83	41.7	1.964	0.434	383	Coal		
1437.2	79	40.7	1.875	0.406	389	Coal		
1437.4	80	42.6	1.755	0.380	409	Coal		
1437.6	88	36.5	1.775	0.446	415	Coal		
1437.8	88	45.7	1.933	0.479	412	Coal		
1438.0	73	37.1	1.839	0.461	400	Coal		
1438.2	52	38.9	1.556	0.454	411	Coal		
1438.4	39	46.5	1.357	0.480	441	Coal		
1438.6	40	132.0	1.329	0.530	454	Coal		
1438.8	44	229.3	1.472	0.549	449	Coal		
1439.0	43	74.0	1.726	0.477	419	Coal		
1439.2	38	39.7	1.964	0.369	394	Coal		
1439.4	32	25.5	2.069	0.328	374	Coal		
1439.6	28	20.7	2.145	0.280	362	Coal		
1439.8	26	20.4	2.212	0.252	346	Coal		
1440.0	28	19.2	2.242	0.260	338	Coal		
1440.2	35	16.8	2.242	0.278	337	0.284	0.224	1.000
1440.4	50	15.9	2.209	0.264	343	Coal		
1440.6	56	17.9	1.937	0.313	359	Coal		
1440.8	52	26.4	1.620	0.454	401	Coal		
1441.0	51	46.3	1.586	0.501	417	Coal		
1441.2	48	44.4	1.907	0.412	397	Coal		
1441.4	42	27.2	2.166	0.323	356	Coal		
1441.6	39	22.1	2.234	0.292	335	Coal		
1441.8	39	21.8	2.234	0.276	332	0.257	0.231	1.000
1442.0	43	22.1	2.225	0.261	328	0.173	0.244	1.000
1442.2	50	21.0	2.233	0.261	331	0.193	0.237	1.000
1442.4	57	19.1	2.235	0.285	332	0.297	0.227	1.000
1442.6	58	20.1	2.235	0.311	334	0.397	0.220	1.000
1442.8	55	20.1	2.282	0.323	318	0.559	0.038	0.970
1443.0	54	28.5	2.365	0.273	285	0.563	0.025	0.937
1443.2	59	48.0	2.401	0.212	256	0.405	0.120	0.931
1443.4	64	42.2	2.411	0.183	258	Coal		
1443.6	62	27.1	2.192	0.241	309	Coal		
1443.8	49	23.2	1.704	0.336	360	Coal		
1444.0	36	31.7	1.383	0.426	411	Coal		
1444.2	30	139.9	1.275	0.459	457	Coal		
1444.4	37	233.3	1.304	0.475	458	Coal		
1444.6	46	125.5	1.400	0.504	464	Coal		
1444.8	57	60.2	1.652	0.496	443	Coal		
1445.0	57	29.5	2.031	0.405	410	Coal		
1445.2	48	23.6	1.961	0.347	376	Coal		
1445.4	33	28.7	1.532	0.418	387	Coal		

1445.6	21	66.5	1.284	0.513	431	Coal		
1445.8	16	120.5	1.212	0.529	475	Coal		
1446.0	13	143.4	1.203	0.531	480	Coal		
1446.2	11	153.4	1.200	0.582	474	Coal		
1446.4	9	159.2	1.202	0.595	474	Coal		
1446.6	9	164.5	1.203	0.538	471	Coal		
1446.8	9	158.9	1.205	0.539	473	Coal		
1447.0	8	147.1	1.208	0.556	475	Coal		
1447.2	9	148.3	1.206	0.545	473	Coal		
1447.4	9	145.1	1.203	0.572	472	Coal		
1447.6	9	142.4	1.208	0.566	474	Coal		
1447.8	10	130.9	1.211	0.598	476	Coal		
1448.0	12	131.0	1.212	0.634	472	Coal		
1448.2	20	176.3	1.228	0.623	464	Coal		
1448.4	34	239.4	1.371	0.593	460	Coal		
1448.6	54	149.5	1.726	0.512	431	Coal		
1448.8	68	43.1	2.154	0.401	396	Coal		
1449.0	72	22.4	2.222	0.317	355	Coal		
1449.2	75	18.3	2.248	0.283	333	Coal		
1449.4	82	19.0	2.281	0.265	321	Coal		
1449.6	83	24.3	2.293	0.246	313	0.281	0.194	1.000
1449.8	75	28.1	2.284	0.237	308	0.223	0.204	1.000
1450.0	61	25.9	2.263	0.237	299	0.173	0.221	1.000
1450.2	54	23.7	2.254	0.259	302	0.237	0.221	1.000
1450.4	49	21.5	2.249	0.292	304	0.356	0.215	1.000
1450.6	46	20.4	2.254	0.289	307	0.356	0.212	1.000
1450.8	54	23.2	2.298	0.264	298	0.362	0.186	1.000
1451.0	64	27.8	2.354	0.252	290	0.450	0.111	0.963
1451.2	71	36.1	2.385	0.244	283	0.497	0.065	0.929
1451.4	72	39.2	2.374	0.264	284	0.547	0.034	0.912
1451.6	68	32.2	2.349	0.282	294	0.558	0.030	0.956
1451.8	64	27.0	2.318	0.277	301	0.466	0.112	1.000
1452.0	69	23.0	2.314	0.266	308	0.410	0.165	1.000
1452.2	81	20.5	2.314	0.265	303	0.407	0.167	1.000
1452.4	84	21.0	2.296	0.284	306	Coal		
1452.6	67	20.9	2.164	0.322	327	Coal		
1452.8	42	22.6	1.812	0.373	360	Coal		
1453.0	26	27.1	1.520	0.477	407	Coal		
1453.2	19	38.2	1.372	0.531	450	Coal		
1453.4	15	67.4	1.288	0.536	474	Coal		
1453.6	12	100.1	1.226	0.542	474	Coal		
1453.8	13	211.1	1.212	0.550	470	Coal		
1454.0	11	273.9	1.212	0.550	471	Coal		
1454.2	9	250.0	1.211	0.540	471	Coal		
1454.4	9	234.8	1.208	0.539	472	Coal		
1454.6	10	216.3	1.209	0.558	471	Coal		
1454.8	11	215.9	1.206	0.583	471	Coal		
1455.0	12	223.9	1.202	0.574	472	Coal		
1455.2	12	239.7	1.205	0.590	472	Coal		
1455.4	12	250.0	1.205	0.619	470	Coal		
1455.6	12	244.3	1.211	0.610	466	Coal		
1455.8	14	196.1	1.222	0.567	464	Coal		
1456.0	19	143.8	1.228	0.523	468	Coal		
1456.2	37	109.0	1.287	0.516	474	Coal		
1456.4	62	62.0	1.458	0.489	491	Coal		
1456.6	82	37.9	1.592	0.439	485	Coal		
1456.8	87	33.6	1.700	0.395	452	Coal		
1457.0	83	29.9	1.973	0.365	385	Coal		
1457.2	87	25.0	2.285	0.352	334	Coal		
1457.4	93	20.6	2.340	0.334	315	Coal		
1457.6	94	23.2	2.346	0.333	317	Coal		
1457.8	94	29.7	2.360	0.322	314	0.745	0.000	1.000
1458.0	92	36.4	2.362	0.300	308	0.665	0.000	1.000
1458.2	97	28.0	2.360	0.293	307	0.631	0.000	1.000
1458.4	103	25.5	2.369	0.288	304	0.634	0.000	1.000

1458.6	104	25.1	2.366	0.294	304	0.647	0.000	1.000
1458.8	99	25.6	2.358	0.311	304	0.698	0.000	1.000
1459.0	93	21.6	2.342	0.303	304	0.628	0.000	1.000
1459.2	90	19.0	2.341	0.287	306	0.559	0.030	1.000
1459.4	90	21.3	2.356	0.288	304	0.602	0.000	1.000
1459.6	95	25.5	2.356	0.286	306	0.595	0.003	1.000
1459.8	97	26.5	2.343	0.296	305	0.599	0.000	1.000
1460.0	99	26.5	2.341	0.299	305	0.606	0.000	0.967
1460.2	89	27.6	2.339	0.310	301	0.645	0.000	0.994
1460.4	64	29.7	2.282	0.287	304	0.414	0.179	1.000
1460.6	50	25.0	2.232	0.252	316	0.155	0.241	1.000
1460.8	55	20.7	2.240	0.248	327	0.160	0.236	1.000
1461.0	54	20.6	2.252	0.264	326	0.251	0.221	1.000
1461.2	37	27.9	2.232	0.250	320	0.147	0.242	1.000
1461.4	27	43.5	2.221	0.225	315	0.021	0.260	0.979
1461.6	27	42.9	2.231	0.233	311	0.079	0.249	0.992
1461.8	33	30.4	2.249	0.236	302	0.133	0.233	1.000
1462.0	36	24.1	2.275	0.223	299	0.143	0.216	1.000
1462.2	35	22.5	2.286	0.215	292	0.137	0.210	1.000
1462.4	32	25.5	2.281	0.208	290	0.098	0.216	1.000
1462.6	28	30.3	2.261	0.207	293	0.043	0.234	1.000
1462.8	26	36.2	2.247	0.206	297	0.009	0.245	1.000
1463.0	26	31.4	2.241	0.206	300	0.000	0.249	1.000
1463.2	26	22.3	2.233	0.216	303	0.014	0.253	1.000
1463.4	26	18.7	2.228	0.246	298	0.121	0.246	1.000
1463.6	26	20.1	2.240	0.243	299	0.138	0.238	1.000
1463.8	26	20.2	2.279	0.216	291	0.126	0.216	1.000
1464.0	26	28.8	2.353	0.164	272	0.096	0.173	1.000
1464.2	30	25.5	2.407	0.137	271	0.117	0.139	1.000
1464.4	30	32.9	2.438	0.123	241	0.137	0.118	1.000
1464.6	27	50.3	2.493	0.101	226	0.183	0.082	1.000
1464.8	27	97.5	2.467	0.078	196	0.026	0.109	1.000
1465.0	27	154.6	2.330	0.104	232	0.000	0.174	0.986
1465.2	27	75.7	2.241	0.174	271	0.000	0.236	0.986
1465.4	26	43.5	2.267	0.205	308	0.050	0.229	1.000
1465.6	24	38.9	2.346	0.155	281	0.045	0.181	1.000
1465.8	24	48.9	2.416	0.085	250	0.000	0.134	1.000
1466.0	23	77.9	2.412	0.060	222	0.000	0.124	1.000
1466.2	20	83.3	2.360	0.078	258	0.000	0.151	1.000
1466.4	20	60.0	2.378	0.106	256	0.000	0.157	1.000
1466.6	21	54.2	2.467	0.097	218	0.105	0.103	1.000
1466.8	22	54.4	2.481	0.100	223	0.151	0.092	1.000
1467.0	23	51.1	2.485	0.117	281	0.226	0.084	1.000
1467.2	24	49.2	2.577	0.100	272	0.383	0.021	1.000
1467.4	26	50.8	2.622	0.055	193	0.314	0.000	1.000
1467.6	29	75.3	2.599	0.039	177	0.193	0.018	1.000
1467.8	33	138.1	2.584	0.052	179	0.209	0.026	1.000
1468.0	32	597.0	2.595	0.064	175	0.282	0.014	1.000
1468.2	30	1478.7	2.610	0.056	184	0.289	0.005	1.000
1468.4	28	3619.1	2.620	0.037	172	0.235	0.002	1.000
1468.6	27	6902.1	2.617	0.024	176	0.176	0.007	1.000
1468.8	28	7864.3	2.568	0.022	173	0.049	0.045	1.000
1469.0	28	8186.2	2.510	0.030	176	0.000	0.077	1.000
1469.2	27	2228.8	2.473	0.078	189	0.044	0.104	1.000
1469.4	28	360.1	2.404	0.149	219	0.158	0.138	1.000
1469.6	28	151.4	2.419	0.166	228	0.265	0.120	1.000
1469.8	26	118.8	2.535	0.100	216	0.281	0.050	1.000
1470.0	27	145.1	2.618	0.038	190	0.236	0.004	1.000
1470.2	25	234.6	2.636	0.017	178	0.196	0.000	1.000
1470.4	24	364.2	2.661	0.009	176	0.225	0.000	1.000
1470.6	25	394.7	2.683	0.004	178	0.257	0.000	1.000
1470.8	26	289.1	2.669	0.005	178	0.228	0.000	1.000
1471.0	27	235.8	2.662	0.012	174	0.236	0.000	1.000
1471.2	27	226.1	2.583	0.022	177	0.087	0.033	1.000
1471.4	27	113.2	2.308	0.069	226	0.000	0.166	1.000

1471.6	27	50.7	2.097	0.173	301	0.000	0.293	1.000
1471.8	29	26.7	2.076	0.280	372	0.000	0.341	1.000
1472.0	30	21.3	2.148	0.328	390	0.255	0.282	1.000
1472.2	33	18.6	2.187	0.305	377	0.260	0.258	1.000
1472.4	44	17.1	2.192	0.254	359	0.067	0.273	1.000
1472.6	69	14.6	2.186	0.267	346	0.101	0.274	1.000
1472.8	105	12.4	2.159	0.334	337	0.307	0.271	1.000
1473.0	136	13.5	2.166	0.396	340	0.574	0.032	1.000
1473.2	148	18.0	2.209	0.420	356	0.773	0.000	1.000
1473.4	142	31.0	2.253	0.431	362	0.923	0.000	1.000
1473.6	139	47.2	2.211	0.426	370	0.800	0.000	1.000
1473.8	134	55.5	2.101	0.381	385	0.351	0.302	1.000
1474.0	140	52.9	2.094	0.372	376	0.302	0.310	1.000
1474.2	143	27.7	2.172	0.351	361	0.407	0.247	1.000
1474.4	154	18.1	2.222	0.310	335	0.362	0.231	1.000
1474.6	172	15.3	2.235	0.311	330	0.399	0.220	1.000
1474.8	175	17.4	2.249	0.359	336	0.626	0.000	1.000
1475.0	157	26.6	2.232	0.406	350	Coal		
1475.2	130	39.9	2.085	0.435	377	Coal		
1475.4	100	59.0	1.787	0.497	417	Coal		
1475.6	76	65.6	1.524	0.516	435	Coal		
1475.8	67	78.7	1.425	0.537	457	Coal		
1476.0	87	66.2	1.517	0.541	451	Coal		
1476.2	114	46.3	1.813	0.516	426	Coal		
1476.4	112	43.2	1.841	0.454	414	Coal		
1476.6	95	45.1	1.680	0.493	419	Coal		
1476.8	94	47.4	1.764	0.486	413	Coal		
1477.0	109	31.8	2.132	0.433	383	Coal		
1477.2	124	24.5	2.189	0.394	364	Coal		
1477.4	140	20.8	2.113	0.384	367	0.398	0.291	1.000
1477.6	141	23.3	2.152	0.387	384	0.502	0.127	1.000
1477.8	131	23.2	2.168	0.367	371	0.460	0.178	1.000
1478.0	127	23.4	2.091	0.368	376	0.279	0.314	1.000
1478.2	120	34.5	2.065	0.412	372	0.391	0.320	1.000
1478.4	87	43.2	2.164	0.409	365	0.619	0.000	1.000
1478.6	55	53.3	2.247	0.320	340	0.466	0.140	1.000
1478.8	39	41.1	2.243	0.241	325	0.140	0.236	1.000
1479.0	36	34.6	2.245	0.225	323	0.078	0.240	1.000
1479.2	35	30.4	2.252	0.244	321	0.170	0.228	1.000
1479.4	33	26.6	2.244	0.246	321	0.161	0.234	1.000
1479.6	33	23.3	2.240	0.241	325	0.129	0.239	1.000
1479.8	33	20.6	2.239	0.227	332	0.070	0.245	1.000
1480.0	35	18.6	2.238	0.216	334	0.027	0.249	1.000
1480.2	35	14.9	2.237	0.201	332	0.000	0.248	1.000
1480.4	40	12.3	2.249	0.197	328	0.000	0.242	1.000
1480.6	56	12.6	2.255	0.191	322	0.000	0.237	1.000
1480.8	71	15.0	2.225	0.228	320	0.044	0.255	1.000
1481.0	63	19.1	2.198	0.266	313	0.130	0.264	1.000
1481.2	46	26.9	2.195	0.258	321	0.088	0.269	1.000
1481.4	36	31.6	2.200	0.242	323	0.039	0.271	0.940
1481.6	31	40.1	2.211	0.232	330	0.024	0.266	0.902
1481.8	29	40.4	2.214	0.230	332	0.022	0.264	0.900
1482.0	28	39.1	2.214	0.231	328	0.027	0.263	0.934
1482.2	30	37.2	2.217	0.223	333	0.001	0.264	1.000
1482.4	32	33.9	2.220	0.221	335	0.001	0.262	1.000
1482.6	33	22.8	2.227	0.212	335	0.000	0.257	1.000
1482.8	45	14.2	2.232	0.202	338	0.000	0.250	1.000
1483.0	70	11.2	2.257	0.208	337	0.041	0.236	1.000
1483.2	110	12.7	2.307	0.269	333	0.405	0.174	1.000
1483.4	137	18.0	2.334	0.316	319	0.657	0.000	1.000
1483.6	123	25.0	2.322	0.289	311	0.520	0.065	1.000
1483.8	111	22.8	2.295	0.243	305	0.272	0.193	1.000
1484.0	122	18.6	2.274	0.245	310	Coal		
1484.2	120	19.7	2.223	0.284	315	Coal		
1484.4	101	25.7	2.155	0.317	328	Coal		

1484.6	94	22.2	2.111	0.296	342		Coal	
1484.8	105	22.2	2.070	0.326	365		Coal	
1485.0	124	22.9	2.074	0.390	376		Coal	
1485.2	140	32.9	2.155	0.387	381		Coal	
1485.4	142	44.6	2.129	0.408	385		Coal	
1485.6	130	43.7	1.972	0.481	397		Coal	
1485.8	105	44.1	1.668	0.498	427		Coal	
1486.0	91	48.2	1.574	0.499	437		Coal	
1486.2	101	43.9	1.803	0.470	422		Coal	
1486.4	117	39.7	2.183	0.416	389		Coal	
1486.6	121	31.5	2.102	0.423	367		Coal	
1486.8	117	31.9	1.934	0.457	391		Coal	
1487.0	112	37.2	1.909	0.483	421		Coal	
1487.2	97	44.2	2.033	0.463	411		Coal	
1487.4	74	40.2	2.197	0.382	372		Coal	
1487.6	55	26.3	2.271	0.289	334		Coal	
1487.8	44	19.6	2.243	0.237	315	0.120	0.238	1.000
1488.0	46	14.0	2.228	0.236	319	0.079	0.251	1.000
1488.2	54	12.0	2.255	0.259	323	0.240	0.220	1.000
1488.4	60	12.9	2.294	0.280	321	0.418	0.167	1.000
1488.6	59	13.8	2.302	0.270	311	0.397	0.182	1.000
1488.8	61	16.1	2.326	0.261	302	0.419	0.150	1.000
1489.0	72	18.2	2.379	0.253	294	0.517	0.054	1.000
1489.2	78	25.2	2.350	0.259	302	0.469	0.098	1.000
1489.4	83	29.7	2.321	0.280	312	0.484	0.095	1.000
1489.6	83	25.5	2.283	0.334	328		Coal	
1489.8	75	20.1	2.041	0.392	349		Coal	
1490.0	63	20.8	1.700	0.442	394		Coal	
1490.2	62	30.3	1.517	0.475	428		Coal	

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1490.4	77	49.3	1.605	0.485	443		Coal	
1490.6	101	47.8	1.950	0.441	410		Coal	
1490.8	116	37.7	2.197	0.449	372		Coal	
1491.0	116	35.0	2.219	0.433	362		Coal	
1491.2	116	36.4	2.222	0.429	365		Coal	
1491.4	119	38.4	2.241	0.433	368	0.904	0.000	1.000
1491.6	124	40.0	2.262	0.420	365	0.901	0.000	1.000
1491.8	130	41.2	2.302	0.389	351	0.876	0.000	1.000
1492.0	142	35.6	2.338	0.345	334	0.784	0.000	1.000
1492.2	155	27.1	2.358	0.320	320	0.734	0.000	1.000
1492.4	160	20.1	2.355	0.302	312	0.653	0.000	1.000
1492.6	161	18.1	2.340	0.297	311	0.596	0.003	1.000
1492.8	164	20.2	2.333	0.307	310	0.622	0.000	1.000
1493.0	167	27.8	2.347	0.315	311	0.688	0.000	1.000
1493.2	158	32.8	2.361	0.317	312	0.731	0.000	1.000
1493.4	140	25.8	2.367	0.307	306	0.705	0.000	1.000
1493.6	100	15.6	2.398	0.290	301	0.710	0.000	1.000
1493.8	62	12.0	2.420	0.247	287	0.592	0.004	1.000
1494.0	55	9.2	2.329	0.245	287		Coal	
1494.2	64	10.3	2.047	0.317	315		Coal	
1494.4	54	13.6	1.603	0.404	378		Coal	
1494.6	33	24.1	1.341	0.486	439		Coal	
1494.8	19	105.4	1.240	0.525	474		Coal	
1495.0	15	159.9	1.223	0.528	485		Coal	
1495.2	15	140.7	1.210	0.539	484		Coal	
1495.4	14	124.7	1.205	0.548	482		Coal	
1495.6	12	131.3	1.210	0.589	475		Coal	
1495.8	13	143.9	1.207	0.600	476		Coal	
1496.0	13	163.6	1.204	0.561	472		Coal	
1496.2	17	176.1	1.205	0.573	471		Coal	
1496.4	25	185.6	1.229	0.638	469		Coal	
1496.6	35	189.0	1.384	0.655	455		Coal	
1496.8	45	115.7	1.740	0.491	407		Coal	
1497.0	45	59.8	2.116	0.324	365		Coal	
1497.2	46	33.7	2.206	0.236	321		Coal	
1497.4	48	28.3	2.211	0.229	316		Coal	

1497.6	46	28.3	2.209	0.221	321	0.000	0.267	1.000
1497.8	43	32.5	2.212	0.217	319	0.000	0.264	1.000
1498.0	42	33.9	2.208	0.229	330	0.004	0.269	1.000
1498.2	44	30.3	2.204	0.249	325	0.074	0.266	1.000
1498.4	49	25.1	2.203	0.252	327	0.084	0.265	1.000
1498.6	60	18.1	2.203	0.247	327	0.065	0.267	1.000
1498.8	76	14.5	2.210	0.261	326	0.136	0.256	1.000
1499.0	102	14.7	2.217	0.278	330	0.221	0.244	1.000
1499.2	130	17.8	2.228	0.296	332	0.322	0.230	1.000
1499.4	157	22.5	2.249	0.311	329	0.434	0.173	1.000
1499.6	156	26.5	2.238	0.325	329	Coal		
1499.8	126	35.9	1.969	0.405	351	Coal		
1500.0	97	54.6	1.620	0.478	385	Coal		
1500.2	92	59.4	1.591	0.501	415	Coal		
1500.4	97	42.9	1.870	0.435	386	Coal		
1500.6	102	35.5	2.236	0.357	346	Coal		
1500.8	103	35.7	2.347	0.316	337	Coal		
1501.0	88	35.7	2.350	0.305	319	Coal		
1501.2	65	30.9	2.341	0.288	302	0.565	0.026	1.000
1501.4	57	26.2	2.334	0.243	298	0.368	0.164	1.000
1501.6	53	26.7	2.331	0.204	286	0.204	0.177	1.000
1501.8	52	30.7	2.334	0.192	286	0.162	0.179	1.000
1502.0	58	32.8	2.334	0.204	292	0.210	0.175	1.000
1502.2	66	31.8	2.330	0.225	301	0.285	0.172	1.000
1502.4	72	28.8	2.314	0.255	310	0.369	0.176	1.000
1502.6	79	25.6	2.291	0.298	319	0.484	0.105	0.940
1502.8	82	26.9	2.278	0.316	324	0.525	0.070	0.892
1503.0	74	29.1	2.280	0.277	325	0.372	0.196	0.881
1503.2	60	31.4	2.275	0.261	320	0.296	0.204	0.918
1503.4	50	28.7	2.248	0.265	318	0.245	0.223	0.998
1503.6	47	23.5	2.231	0.271	320	0.227	0.235	1.000
1503.8	54	21.3	2.252	0.251	318	0.199	0.225	1.000
1504.0	73	21.0	2.282	0.242	314	0.235	0.204	1.000
1504.2	90	24.3	2.263	0.270	316	0.304	0.210	1.000
1504.4	96	32.7	2.208	0.338	347	0.442	0.184	0.975
1504.6	89	40.0	2.233	0.364	344	0.607	0.000	0.962
1504.8	73	32.7	2.292	0.327	345	0.601	0.000	0.989
1505.0	66	21.3	2.305	0.290	321	0.486	0.099	0.997
1505.2	76	19.6	2.297	0.300	321	0.506	0.084	0.968
1505.4	83	23.2	2.276	0.325	334	0.555	0.041	0.931
1505.6	69	30.8	2.237	0.340	338	0.519	0.085	0.870
1505.8	54	31.9	2.220	0.323	335	0.409	0.218	0.838
1506.0	44	27.0	2.225	0.305	326	0.350	0.230	0.862
1506.2	40	26.1	2.225	0.279	326	0.244	0.238	0.922
1506.4	39	27.5	2.234	0.266	318	0.214	0.235	1.000
1506.6	36	24.8	2.243	0.260	317	0.213	0.230	1.000
1506.8	39	20.7	2.247	0.248	316	0.176	0.231	1.000
1507.0	42	17.7	2.253	0.236	326	0.144	0.229	1.000
1507.2	51	17.7	2.244	0.256	319	0.199	0.230	1.000
1507.4	56	21.5	2.045	0.293	335	Coal		
1507.6	54	44.8	1.653	0.393	378	Coal		
1507.8	58	74.7	1.478	0.468	415	Coal		
1508.0	62	66.8	1.433	0.468	439	Coal		
1508.2	54	68.4	1.388	0.497	446	Coal		
1508.4	44	74.4	1.309	0.564	455	Coal		
1508.6	37	179.8	1.264	0.639	444	Coal		
1508.8	31	430.6	1.247	0.585	450	Coal		
1509.0	32	363.5	1.269	0.516	455	Coal		
1509.2	42	319.6	1.351	0.503	460	Coal		
1509.4	59	194.7	1.493	0.500	454	Coal		
1509.6	76	69.6	1.727	0.474	467	Coal		
1509.8	77	34.5	2.036	0.428	438	Coal		
1510.0	75	29.4	2.316	0.350	369	Coal		
1510.2	73	29.6	2.429	0.274	299	0.724	0.000	1.000
1510.4	66	30.2	2.377	0.250	276	0.497	0.068	1.000

1510.6	56	25.6	2.313	0.261	296	0.390	0.175	1.000
1510.8	45	22.2	2.262	0.269	308	0.294	0.212	1.000
1511.0	40	24.4	2.222	0.282	314	0.250	0.239	0.954
1511.2	34	30.6	2.187	0.296	324	0.221	0.262	0.885
1511.4	26	41.3	2.173	0.280	330	0.122	0.280	0.825
1511.6	23	44.0	2.171	0.260	331	0.039	0.289	0.803
1511.8	24	41.9	2.160	0.263	330	0.026	0.296	0.803
1512.0	24	37.9	2.168	0.262	332	0.041	0.290	0.803
1512.2	27	36.1	2.183	0.271	330	0.114	0.274	0.803
1512.4	29	35.6	2.185	0.285	329	0.172	0.268	0.803
1512.6	29	36.1	2.177	0.281	329	0.135	0.276	0.807
1512.8	27	36.8	2.157	0.272	330	0.054	0.296	0.826
1513.0	25	36.1	2.147	0.263	334	0.000	0.306	0.864
1513.2	27	32.8	2.155	0.258	334	0.000	0.301	0.921
1513.4	31	28.8	2.170	0.252	331	0.003	0.292	0.992
1513.6	31	24.9	2.180	0.244	326	0.000	0.287	1.000
1513.8	29	22.7	2.189	0.225	324	0.000	0.276	1.000
1514.0	32	22.2	2.196	0.233	322	0.000	0.276	1.000
1514.2	32	22.5	2.191	0.250	322	0.048	0.275	1.000
1514.4	32	22.7	2.188	0.263	320	0.093	0.273	1.000
1514.6	33	23.3	2.179	0.263	321	0.070	0.281	1.000
1514.8	31	24.3	2.171	0.259	322	0.034	0.289	1.000
1515.0	29	25.5	2.178	0.265	322	0.077	0.281	1.000
1515.2	29	26.1	2.193	0.255	323	0.073	0.272	1.000
1515.4	29	25.4	2.213	0.252	319	0.111	0.257	1.000
1515.6	30	25.5	2.220	0.252	319	0.125	0.251	1.000
1515.8	33	25.9	2.207	0.259	315	0.124	0.259	1.000
1516.0	34	26.4	2.210	0.251	311	0.099	0.259	1.000
1516.2	31	26.8	2.209	0.249	312	0.088	0.261	1.000
1516.4	30	27.2	2.198	0.252	312	0.071	0.270	0.993
1516.6	29	29.0	2.203	0.235	311	0.015	0.271	0.965
1516.8	30	32.5	2.205	0.229	311	0.000	0.271	0.932
1517.0	30	37.2	2.197	0.235	311	0.004	0.276	0.898
1517.2	28	40.4	2.194	0.235	314	0.000	0.278	0.858
1517.4	28	41.0	2.189	0.248	315	0.036	0.278	0.828
1517.6	27	40.0	2.155	0.258	315	0.000	0.301	0.813
1517.8	26	38.9	2.149	0.265	315	0.005	0.305	0.811
1518.0	24	37.8	2.177	0.261	313	0.059	0.283	0.808
1518.2	26	38.0	2.191	0.249	314	0.045	0.276	0.808
1518.4	26	39.0	2.185	0.262	315	0.081	0.276	0.818
1518.6	25	41.4	2.193	0.250	314	0.052	0.274	0.830
1518.8	21	42.8	2.201	0.228	316	0.000	0.272	0.841
1519.0	18	42.0	2.200	0.225	319	0.000	0.272	0.863
1519.2	18	39.5	2.201	0.232	320	0.000	0.274	0.885
1519.4	21	36.8	2.209	0.236	319	0.032	0.266	0.903
1519.6	23	34.9	2.218	0.241	315	0.080	0.256	0.918
1519.8	24	33.7	2.222	0.237	313	0.073	0.255	0.931
1520.0	24	33.0	2.213	0.240	316	0.059	0.261	0.932
1520.2	26	32.2	2.208	0.238	317	0.040	0.266	0.938
1520.4	25	32.3	2.199	0.247	320	0.055	0.270	0.932
1520.6	21	32.7	2.195	0.239	320	0.015	0.276	0.924
1520.8	18	34.0	2.200	0.241	319	0.032	0.271	0.911
1521.0	19	34.3	2.211	0.246	316	0.080	0.261	0.922
1521.2	21	33.5	2.209	0.252	316	0.100	0.260	0.951
1521.4	21	32.1	2.214	0.240	312	0.062	0.260	1.000
1521.6	21	29.1	2.229	0.227	312	0.050	0.252	1.000
1521.8	20	24.0	2.229	0.235	312	0.077	0.250	1.000
1522.0	22	15.9	2.218	0.239	319	0.067	0.257	1.000
1522.2	27	10.7	2.220	0.244	318	0.095	0.254	1.000
1522.4	33	9.6	2.251	0.243	313	0.165	0.229	1.000
1522.6	35	10.0	2.129	0.228	296	Coal		
1522.8	32	14.7	1.675	0.297	303	Coal		
1523.0	34	33.8	1.346	0.455	367	Coal		
1523.2	39	103.8	1.324	0.539	429	Coal		
1523.4	57	102.3	1.518	0.496	467	Coal		

1523.6	71	52.8	1.783	0.456	483	Coal		
1523.8	65	31.5	1.974	0.427	468	Coal		
1524.0	52	26.8	2.150	0.353	416	Coal		
1524.2	40	26.3	2.240	0.262	350	Coal		
1524.4	39	23.9	2.256	0.237	325	0.151	0.227	1.000
1524.6	42	24.4	2.257	0.234	317	0.142	0.228	1.000
1524.8	48	22.5	2.257	0.254	312	0.225	0.220	1.000
1525.0	59	20.6	2.277	0.286	320	Coal		
1525.2	78	22.0	2.202	0.321	316	Coal		
1525.4	96	29.2	2.023	0.363	327	Coal		
1525.6	97	44.5	1.931	0.396	340	Coal		
1525.8	85	54.9	1.873	0.387	363	Coal		
1526.0	64	69.2	1.691	0.403	391	Coal		
1526.2	45	104.4	1.440	0.487	415	Coal		
1526.4	39	397.8	1.314	0.533	446	Coal		
1526.6	35	1872.4	1.280	0.564	454	Coal		
1526.8	26	1517.9	1.263	0.561	457	Coal		
1527.0	17	959.2	1.242	0.568	456	Coal		
1527.2	12	605.3	1.232	0.561	461	Coal		
1527.4	10	468.0	1.233	0.542	463	Coal		
1527.6	11	430.2	1.234	0.509	465	Coal		
1527.8	13	380.5	1.239	0.489	463	Coal		
1528.0	20	302.7	1.259	0.549	457	Coal		
1528.2	42	133.2	1.351	0.525	469	Coal		
1528.4	72	40.7	1.508	0.461	490	Coal		
1528.6	94	24.0	1.660	0.454	518	Coal		
1528.8	98	20.1	1.810	0.478	515	Coal		
1529.0	94	17.1	1.983	0.467	518	Coal		
1529.2	95	14.1	1.971	0.419	504	Coal		
1529.4	96	13.6	1.896	0.406	491	Coal		
1529.6	92	16.3	1.979	0.376	441	Coal		
1529.8	88	24.0	2.156	0.328	379	Coal		
1530.0	85	31.7	2.365	0.310	326	Coal		
1530.2	80	34.4	2.473	0.293	292	Coal		
1530.4	76	27.5	2.424	0.282	286	Coal		
1530.6	71	23.5	2.373	0.264	285	0.544	0.037	1.000
1530.8	69	20.4	2.339	0.256	300	0.431	0.133	1.000
1531.0	64	18.7	2.311	0.264	303	0.396	0.176	1.000
1531.2	57	17.5	2.272	0.263	314	0.297	0.205	1.000
1531.4	50	17.5	2.257	0.255	310	0.226	0.220	1.000
1531.6	51	19.1	2.298	0.244	309	0.285	0.191	1.000
1531.8	54	21.4	2.326	0.248	303	0.369	0.169	1.000
1532.0	58	23.6	2.320	0.248	305	0.352	0.174	1.000
1532.2	64	23.6	2.322	0.249	305	0.363	0.172	1.000
1532.4	64	23.9	2.328	0.250	304	0.382	0.167	1.000
1532.6	59	22.8	2.303	0.266	305	0.385	0.181	1.000
1532.8	60	19.9	2.255	0.286	311	0.347	0.212	1.000
1533.0	58	17.3	2.228	0.271	316	0.223	0.237	1.000
1533.2	45	18.7	2.226	0.259	315	0.171	0.243	1.000
1533.4	32	26.7	2.222	0.255	315	0.146	0.248	0.972
1533.6	25	41.9	2.215	0.243	317	0.077	0.258	0.892
1533.8	23	61.3	2.222	0.235	317	0.064	0.255	0.833
1534.0	22	48.9	2.231	0.252	315	0.154	0.242	0.842
1534.2	23	36.3	2.224	0.254	313	0.143	0.247	0.885
1534.4	23	32.4	2.216	0.242	310	0.077	0.258	0.930
1534.6	21	30.5	2.210	0.230	309	0.012	0.267	0.969
1534.8	21	28.7	2.202	0.234	311	0.010	0.273	0.985
1535.0	23	27.9	2.198	0.246	312	0.050	0.271	0.987
1535.2	21	28.2	2.205	0.261	311	0.127	0.260	0.980
1535.4	20	28.7	2.200	0.255	310	0.090	0.266	0.976
1535.6	21	27.2	2.198	0.262	308	0.111	0.266	0.983
1535.8	25	24.5	2.205	0.272	307	0.168	0.256	1.000
1536.0	26	22.8	2.211	0.278	305	0.209	0.249	1.000
1536.2	23	22.3	2.229	0.276	305	0.242	0.235	1.000
1536.4	18	23.7	2.239	0.263	302	0.218	0.231	1.000

1536.6	17	25.5	2.229	0.230	303	0.058	0.252	1.000
1536.8	18	26.4	2.218	0.231	304	0.036	0.260	1.000
1537.0	19	26.5	2.201	0.250	306	0.071	0.268	1.000
1537.2	20	24.7	2.170	0.237	310	0.000	0.287	1.000
1537.4	21	21.6	2.152	0.191	316	0.000	0.278	1.000
1537.6	22	19.1	2.164	0.205	316	0.000	0.278	1.000
1537.8	23	19.4	2.170	0.248	311	0.000	0.292	1.000
1538.0	22	21.2	2.195	0.262	304	0.106	0.268	1.000
1538.2	21	23.3	2.205	0.247	302	0.069	0.265	1.000
1538.4	21	24.5	2.214	0.248	302	0.093	0.258	1.000
1538.6	22	24.2	2.213	0.261	302	0.143	0.254	1.000
1538.8	22	24.1	2.204	0.261	302	0.120	0.261	1.000
1539.0	19	25.0	2.203	0.245	305	0.055	0.268	1.000
1539.2	20	26.5	2.189	0.245	307	0.021	0.279	1.000
1539.4	21	27.9	2.185	0.244	310	0.009	0.283	1.000
1539.6	20	28.0	2.184	0.233	312	0.000	0.281	0.987
1539.8	19	28.3	2.186	0.246	314	0.017	0.282	0.969
1540.0	20	27.9	2.189	0.265	315	0.103	0.272	0.954
1540.2	22	28.1	2.185	0.265	316	0.093	0.275	0.933
1540.4	21	28.6	2.184	0.264	315	0.086	0.276	0.920
1540.6	21	29.4	2.184	0.263	314	0.082	0.277	0.926
1540.8	20	29.8	2.193	0.260	313	0.092	0.271	0.935
1541.0	20	28.6	2.199	0.256	313	0.092	0.267	0.953
1541.2	18	26.9	2.195	0.265	310	0.117	0.267	0.986
1541.4	17	24.6	2.201	0.269	312	0.149	0.261	1.000
1541.6	19	23.1	2.211	0.261	311	0.141	0.255	1.000
1541.8	20	22.1	2.211	0.267	313	0.164	0.253	1.000
1542.0	20	20.1	2.208	0.281	315	0.214	0.250	1.000
1542.2	20	16.8	2.214	0.255	317	0.122	0.255	1.000
1542.4	23	12.5	2.234	0.228	318	0.065	0.248	1.000
1542.6	31	10.2	2.263	0.234	314	0.160	0.222	1.000
1542.8	35	10.7	2.259	0.254	306	0.227	0.219	1.000
1543.0	32	14.1	2.209	0.269	305	0.167	0.254	1.000
1543.2	28	21.6	2.187	0.271	308	0.120	0.272	1.000
1543.4	25	30.0	2.184	0.262	314	0.079	0.277	0.926
1543.6	21	37.4	2.181	0.268	312	0.098	0.277	0.846
1543.8	22	41.0	2.197	0.268	310	0.132	0.265	0.820
1544.0	25	43.9	2.245	0.246	303	0.164	0.233	0.846
1544.2	24	49.0	2.300	0.203	288	0.125	0.203	0.892
1544.4	25	54.3	2.330	0.165	272	0.046	0.191	0.945
1544.6	25	57.2	2.355	0.155	260	0.064	0.174	0.998
1544.8	26	55.3	2.363	0.155	260	0.087	0.168	1.000
1545.0	24	50.8	2.339	0.167	259	0.075	0.183	1.000
1545.2	20	42.0	2.277	0.177	275	0.000	0.224	1.000
1545.4	19	34.5	2.213	0.206	297	0.000	0.259	1.000
1545.6	18	28.7	2.189	0.244	316	0.019	0.279	1.000
1545.8	18	27.3	2.201	0.253	318	0.084	0.266	0.986
1546.0	20	30.0	2.207	0.230	313	0.005	0.270	0.977
1546.2	21	33.8	2.194	0.209	315	0.000	0.268	0.973
1546.4	21	35.1	2.192	0.190	318	0.000	0.261	0.970
1546.6	21	33.7	2.193	0.203	318	0.000	0.266	0.936
1546.8	18	30.5	2.171	0.251	324	0.004	0.292	0.913
1547.0	17	28.2	2.139	0.303	325	0.132	0.299	0.897
1547.2	17	26.8	2.157	0.302	326	0.175	0.284	0.889
1547.4	18	26.3	2.192	0.285	325	0.193	0.262	0.900
1547.6	17	26.1	2.188	0.272	324	0.131	0.270	0.934
1547.8	17	25.2	2.151	0.263	327	0.000	0.305	0.951
1548.0	18	22.7	2.109	0.271	331	0.000	0.324	0.932
1548.2	20	21.4	2.138	0.313	338	0.173	0.296	0.902
1548.4	21	21.6	2.158	0.345	335	0.348	0.269	0.862
1548.6	20	23.7	2.138	0.340	328	0.279	0.286	0.836
1548.8	20	26.0	2.141	0.319	321	0.204	0.291	0.835
1549.0	20	28.1	2.163	0.284	322	0.115	0.287	0.871
1549.2	19	28.5	2.175	0.267	329	0.076	0.283	0.919
1549.4	17	27.3	2.182	0.257	325	0.054	0.280	0.963

1549.6	20	25.6	2.196	0.243	317	0.030	0.274	0.979
1549.8	22	27.0	2.199	0.239	311	0.022	0.273	0.967
1550.0	20	28.7	2.195	0.254	312	0.074	0.271	0.955
1550.2	16	30.9	2.183	0.272	313	0.114	0.275	0.943
1550.4	15	29.8	2.170	0.260	318	0.039	0.289	0.947
1550.6	18	28.3	2.169	0.240	319	0.000	0.289	0.977
1550.8	19	26.8	2.178	0.236	318	0.000	0.284	1.000
1551.0	18	24.5	2.183	0.236	317	0.000	0.282	1.000
1551.2	19	21.9	2.177	0.224	314	0.000	0.280	1.000
1551.4	21	19.2	2.194	0.227	310	0.000	0.275	1.000
1551.6	22	18.4	2.236	0.239	304	0.112	0.243	1.000
1551.8	23	16.1	2.276	0.243	292	0.227	0.209	1.000
1552.0	24	14.2	2.281	0.212	282	0.116	0.215	1.000
1552.2	23	13.1	2.284	0.195	278	0.053	0.219	1.000
1552.4	20	14.6	2.280	0.211	280	0.109	0.216	1.000
1552.6	19	18.4	2.260	0.227	289	0.122	0.227	1.000
1552.8	19	22.2	2.212	0.242	303	0.065	0.261	1.000
1553.0	17	24.6	2.177	0.270	318	0.092	0.280	1.000
1553.2	15	23.5	2.184	0.283	321	0.163	0.270	1.000
1553.4	15	23.6	2.211	0.277	318	0.201	0.250	0.982
1553.6	16	24.1	2.222	0.264	312	0.180	0.245	0.981
1553.8	18	25.4	2.211	0.274	311	0.191	0.251	1.000
1554.0	19	26.0	2.208	0.264	315	0.145	0.256	1.000
1554.2	20	24.7	2.211	0.228	309	0.006	0.267	1.000
1554.4	18	19.4	2.215	0.214	311	0.000	0.261	1.000
1554.6	19	13.6	2.208	0.206	308	0.000	0.261	1.000
1554.8	19	10.9	2.039	0.191	309	Coal		
1555.0	18	15.1	1.606	0.263	362	Coal		
1555.2	16	29.2	1.354	0.410	397	Coal		
1555.4	13	138.7	1.264	0.487	447	Coal		
1555.6	12	393.3	1.251	0.528	466	Coal		
1555.8	10	332.2	1.251	0.526	465	Coal		
1556.0	9	358.5	1.251	0.526	462	Coal		
1556.2	8	370.5	1.243	0.513	466	Coal		
1556.4	7	400.6	1.232	0.517	466	Coal		
1556.6	7	398.5	1.226	0.528	466	Coal		
1556.8	6	424.6	1.224	0.519	465	Coal		
1557.0	8	451.3	1.222	0.536	465	Coal		
1557.2	8	437.0	1.217	0.577	466	Coal		
1557.4	8	403.7	1.213	0.556	468	Coal		
1557.6	8	383.2	1.208	0.547	467	Coal		
1557.8	8	369.8	1.203	0.535	467	Coal		
1558.0	8	372.5	1.206	0.499	467	Coal		
1558.2	10	387.3	1.203	0.500	467	Coal		
1558.4	10	364.7	1.205	0.512	467	Coal		
1558.6	10	365.3	1.208	0.536	468	Coal		
1558.8	11	333.5	1.210	0.515	469	Coal		
1559.0	10	308.2	1.211	0.503	469	Coal		
1559.2	9	313.3	1.207	0.570	469	Coal		
1559.4	8	310.5	1.203	0.585	469	Coal		
1559.6	9	315.4	1.194	0.597	467	Coal		
1559.8	9	317.4	1.191	0.609	468	Coal		
1560.0	9	321.4	1.191	0.604	467	Coal		
1560.2	9	338.6	1.195	0.597	466	Coal		
1560.4	10	361.6	1.201	0.572	465	Coal		
1560.6	11	356.4	1.205	0.532	466	Coal		
1560.8	10	354.5	1.204	0.555	466	Coal		
1561.0	8	361.4	1.202	0.620	467	Coal		
1561.2	8	360.8	1.201	0.671	467	Coal		
1561.4	8	363.1	1.203	0.608	466	Coal		
1561.6	8	338.1	1.205	0.550	467	Coal		
1561.8	8	316.7	1.205	0.526	468	Coal		
1562.0	8	288.6	1.203	0.504	469	Coal		
1562.2	9	305.6	1.196	0.522	469	Coal		
1562.4	8	327.8	1.194	0.534	467	Coal		

1562.6	8	357.7	1.200	0.560	467	Coal		
1562.8	9	356.6	1.204	0.546	467	Coal		
1563.0	9	335.7	1.208	0.511	467	Coal		
1563.2	9	329.2	1.213	0.539	467	Coal		
1563.4	9	319.4	1.212	0.576	468	Coal		
1563.6	9	335.8	1.211	0.568	468	Coal		
1563.8	12	365.9	1.213	0.515	462	Coal		
1564.0	22	394.6	1.218	0.539	458	Coal		
1564.2	50	249.0	1.307	0.554	451	Coal		
1564.4	78	47.8	1.589	0.492	464	Coal		
1564.6	91	29.1	2.112	0.398	451	Coal		
1564.8	91	19.9	2.393	0.310	398	0.779	0.000	1.000
1565.0	94	19.2	2.449	0.275	327	0.775	0.000	1.000
1565.2	98	23.0	2.465	0.288	287	0.867	0.000	1.000
1565.4	95	26.3	2.453	0.293	288	0.854	0.000	1.000
1565.6	91	28.5	2.444	0.290	284	0.821	0.000	1.000
1565.8	80	29.7	2.410	0.320	291	0.860	0.000	1.000
1566.0	56	26.2	2.327	0.320	288	0.659	0.000	1.000
1566.2	33	17.1	2.293	0.249	299	0.291	0.194	1.000
1566.4	27	15.0	2.274	0.187	307	0.000	0.229	1.000
1566.6	28	14.5	2.258	0.183	306	0.000	0.233	1.000
1566.8	29	17.3	2.254	0.182	307	0.000	0.234	1.000
1567.0	30	20.1	2.262	0.196	305	0.003	0.237	1.000
1567.2	30	17.9	2.251	0.207	298	0.022	0.241	1.000
1567.4	28	18.7	2.239	0.217	307	0.029	0.248	1.000
1567.6	31	17.8	2.242	0.223	308	0.062	0.243	1.000
1567.8	41	15.5	2.251	0.232	313	Coal		
1568.0	48	15.0	2.126	0.260	318	Coal		
1568.2	39	19.3	1.753	0.374	340	Coal		
1568.4	25	42.0	1.411	0.497	387	Coal		
1568.6	17	121.7	1.377	0.538	448	Coal		
1568.8	18	104.5	1.531	0.494	440	Coal		
1569.0	25	56.2	1.675	0.435	401	Coal		
1569.2	30	33.3	1.683	0.421	390	Coal		
1569.4	32	44.9	1.551	0.483	404	Coal		
1569.6	45	44.2	1.610	0.468	399	Coal		
1569.8	60	43.0	1.915	0.355	370	Coal		
1570.0	57	35.7	1.754	0.339	369	Coal		
1570.2	38	37.0	1.392	0.439	412	Coal		
1570.4	19	125.7	1.239	0.499	468	Coal		
1570.6	13	401.4	1.224	0.526	470	Coal		
1570.8	9	362.8	1.215	0.551	471	Coal		
1571.0	7	346.0	1.205	0.558	469	Coal		
1571.2	7	322.6	1.206	0.501	474	Coal		
1571.4	8	285.9	1.208	0.482	471	Coal		
1571.6	9	244.1	1.211	0.559	471	Coal		
1571.8	10	249.8	1.208	0.611	470	Coal		
1572.0	10	275.3	1.205	0.596	469	Coal		
1572.2	8	373.8	1.206	0.568	468	Coal		
1572.4	9	429.3	1.202	0.539	467	Coal		
1572.6	10	466.7	1.196	0.520	466	Coal		
1572.8	10	443.2	1.195	0.500	466	Coal		
1573.0	8	372.8	1.190	0.504	467	Coal		
1573.2	8	337.3	1.189	0.526	469	Coal		
1573.4	10	288.8	1.193	0.537	469	Coal		
1573.6	12	260.8	1.196	0.513	469	Coal		
1573.8	12	232.6	1.198	0.517	472	Coal		
1574.0	15	234.4	1.193	0.522	472	Coal		
1574.2	21	293.6	1.192	0.508	468	Coal		
1574.4	23	387.0	1.200	0.521	465	Coal		
1574.6	24	424.2	1.211	0.515	458	Coal		
1574.8	31	294.8	1.253	0.495	483	Coal		
1575.0	39	171.1	1.301	0.525	490	Coal		
1575.2	40	155.7	1.320	0.537	492	Coal		
1575.4	40	172.5	1.432	0.517	447	Coal		

1575.6	44	129.2	1.792	0.429	383	Coal		
1575.8	43	54.7	2.179	0.306	342	Coal		
1576.0	40	32.4	2.247	0.254	312	Coal		
1576.2	36	24.0	2.219	0.246	316	Coal		
1576.4	34	20.9	2.231	0.233	321	0.078	0.249	1.000
1576.6	35	19.8	2.248	0.233	314	0.119	0.235	1.000
1576.8	42	19.4	2.279	0.240	307	0.223	0.207	1.000
1577.0	52	20.1	2.326	0.229	294	0.292	0.174	1.000
1577.2	68	21.8	2.366	0.224	288	0.369	0.146	1.000
1577.4	80	23.9	2.382	0.236	290	0.455	0.095	1.000
1577.6	75	25.8	2.201	0.261	302	Coal		
1577.8	56	32.9	1.712	0.342	344	Coal		
1578.0	35	44.8	1.335	0.450	409	Coal		
1578.2	20	112.8	1.212	0.516	447	Coal		
1578.4	22	250.3	1.204	0.516	457	Coal		
1578.6	42	196.9	1.269	0.517	455	Coal		
1578.8	72	59.6	1.495	0.470	467	Coal		
1579.0	92	22.1	1.840	0.436	490	Coal		
1579.2	98	13.9	2.061	0.439	494	Coal		
1579.4	105	10.2	2.088	0.444	494	Coal		
1579.6	105	8.6	2.074	0.458	501	Coal		
1579.8	104	7.5	1.994	0.479	504	Coal		
1580.0	98	7.8	1.914	0.473	506	Coal		
1580.2	86	9.4	1.979	0.435	461	Coal		
1580.4	74	11.8	2.173	0.359	402	Coal		
1580.6	71	15.6	2.244	0.272	325	Coal		
1580.8	87	19.9	2.020	0.355	355	Coal		
1581.0	103	28.2	1.864	0.491	387	Coal		
1581.2	102	42.4	1.944	0.495	419	Coal		
1581.4	93	40.1	2.214	0.401	382	Coal		
1581.6	85	33.0	2.388	0.319	322	Coal		
1581.8	81	32.8	2.420	0.277	286	Coal		
1582.0	85	26.5	2.419	0.260	286	Coal		
1582.2	95	22.1	2.422	0.249	283	0.604	0.000	1.000
1582.4	104	22.6	2.428	0.244	278	0.597	0.001	1.000
1582.6	112	25.0	2.408	0.247	278	0.561	0.021	1.000
1582.8	118	24.5	2.360	0.259	290	0.492	0.077	1.000
1583.0	120	18.9	2.312	0.268	304	0.411	0.165	1.000
1583.2	117	15.9	2.287	0.273	311	0.373	0.192	1.000
1583.4	108	16.3	2.294	0.260	310	0.337	0.190	1.000
1583.6	92	17.7	2.301	0.249	310	0.312	0.187	1.000
1583.8	77	19.0	2.305	0.268	306	0.398	0.179	1.000
1584.0	70	20.4	2.315	0.284	301	0.486	0.096	1.000
1584.2	70	19.3	2.312	0.277	303	0.450	0.129	1.000
1584.4	73	18.9	2.286	0.274	311	0.375	0.192	1.000
1584.6	69	18.7	2.267	0.287	317	0.379	0.203	1.000
1584.8	54	22.8	2.262	0.277	313	0.325	0.210	1.000
1585.0	39	26.8	2.252	0.258	310	0.227	0.223	1.000
1585.2	30	27.3	2.234	0.258	307	0.186	0.237	1.000
1585.4	24	20.7	2.226	0.283	311	0.266	0.235	1.000
1585.6	21	15.9	2.236	0.280	307	0.279	0.228	1.000
1585.8	23	14.7	2.275	0.244	297	0.226	0.210	1.000
1586.0	22	16.4	2.288	0.221	290	0.167	0.206	1.000
1586.2	21	23.6	2.288	0.225	291	0.182	0.206	1.000
1586.4	21	33.7	2.287	0.237	297	0.228	0.202	0.968
1586.6	22	38.5	2.259	0.243	300	0.183	0.223	0.894
1586.8	21	38.8	2.246	0.240	304	0.139	0.234	0.839
1587.0	21	39.5	2.248	0.237	307	0.135	0.233	0.832
1587.2	22	39.3	2.243	0.240	310	0.134	0.236	0.836
1587.4	22	36.8	2.223	0.249	316	0.123	0.250	0.836
1587.6	22	34.2	2.208	0.263	319	0.140	0.257	0.852
1587.8	25	31.6	2.213	0.273	322	0.195	0.249	0.877
1588.0	24	30.0	2.223	0.262	322	0.172	0.245	0.902
1588.2	24	27.5	2.215	0.262	322	0.155	0.251	0.925
1588.4	24	25.3	2.205	0.271	324	0.164	0.257	0.954

1588.6	26	24.6	2.199	0.276	324	0.172	0.260	0.980
1588.8	26	25.2	2.195	0.263	325	0.110	0.268	0.996
1589.0	26	25.2	2.201	0.249	327	0.067	0.268	1.000
1589.2	24	24.6	2.196	0.250	327	0.060	0.271	1.000
1589.4	24	24.3	2.195	0.247	327	0.045	0.274	1.000
1589.6	24	24.7	2.209	0.240	327	0.049	0.265	1.000
1589.8	28	23.5	2.213	0.252	331	0.109	0.257	1.000
1590.0	33	20.3	2.204	0.285	334	0.219	0.252	1.000
1590.2	33	16.2	2.196	0.271	341	0.145	0.264	1.000
1590.4	42	11.9	2.223	0.238	341	0.077	0.253	1.000
1590.6	62	10.8	2.289	0.239	329	0.241	0.200	1.000
1590.8	80	11.2	2.334	0.265	313	0.456	0.114	1.000
1591.0	84	12.9	2.334	0.257	300	0.424	0.141	1.000
1591.2	83	15.4	2.331	0.247	302	0.376	0.166	1.000
1591.4	84	15.9	2.346	0.250	303	0.422	0.138	1.000
1591.6	91	18.0	2.359	0.262	300	0.504	0.068	1.000
1591.8	91	20.9	2.365	0.268	298	Coal		
1592.0	81	21.3	2.338	0.287	303	Coal		
1592.2	68	18.6	2.225	0.309	317	Coal		
1592.4	65	20.3	2.070	0.379	350	Coal		
1592.6	63	21.3	2.048	0.410	364	Coal		
1592.8	54	22.6	2.154	0.333	367	Coal		
1593.0	52	18.4	2.225	0.259	345	Coal		
1593.2	70	16.4	2.262	0.241	326	Coal		
1593.4	94	18.1	2.331	0.247	314	Coal		
1593.6	111	20.2	2.377	0.264	303	Coal		
1593.8	117	20.4	2.370	0.294	303	0.659	0.000	1.000
1594.0	114	16.9	2.351	0.305	305	0.657	0.000	1.000
1594.2	106	16.1	2.360	0.301	309	0.662	0.000	1.000
1594.4	103	18.9	2.394	0.300	303	0.741	0.000	1.000
1594.6	98	29.0	2.424	0.290	294	0.773	0.000	1.000
1594.8	94	42.0	2.426	0.273	284	0.712	0.000	1.000
1595.0	95	42.5	2.416	0.263	281	0.645	0.000	1.000
1595.2	98	33.4	2.414	0.243	282	0.563	0.020	1.000
1595.4	101	27.0	2.423	0.247	284	0.598	0.000	1.000
1595.6	99	24.3	2.413	0.253	284	0.601	0.000	1.000
1595.8	100	24.4	2.398	0.255	287	0.571	0.017	1.000
1596.0	100	23.6	2.377	0.266	290	0.563	0.024	1.000
1596.2	96	20.8	2.375	0.258	295	0.527	0.048	1.000
1596.4	91	18.6	2.378	0.275	294	0.601	0.000	1.000
1596.6	89	18.0	2.381	0.287	296	0.657	0.000	1.000
1596.8	92	20.3	2.387	0.281	293	0.648	0.000	1.000
1597.0	94	20.9	2.381	0.278	296	0.621	0.000	1.000
1597.2	91	22.5	2.352	0.270	294	0.519	0.059	1.000
1597.4	88	21.0	2.330	0.271	301	0.468	0.106	1.000
1597.6	84	19.3	2.301	0.270	306	0.393	0.182	1.000
1597.8	75	18.2	2.275	0.268	310	0.324	0.202	1.000
1598.0	68	18.0	2.096	0.271	317	0.521	0.078	1.000
1598.2	60	18.2	2.082	0.266	318	0.407	0.212	1.000
1598.4	59	17.2	2.286	0.272	320	0.384	0.227	1.000
1598.6	66	17.0	2.359	0.264	319	0.489	0.115	1.000
1598.8	67	19.1	2.270	0.268	316	0.506	0.094	0.990
1599.0	55	19.5	2.242	0.311	317	0.416	0.198	0.985
1599.2	43	21.4	2.227	0.303	316	0.347	0.228	0.998
1599.4	46	21.0	2.217	0.282	319	0.238	0.243	1.000
1599.6	49	18.5	2.201	0.294	321	0.247	0.251	1.000
1599.8	49	18.2	2.211	0.295	320	0.278	0.243	1.000
1600.0	48	17.5	2.238	0.287	319	0.309	0.225	1.000
1600.2	53	17.1	2.251	0.275	316	0.294	0.218	1.000
1600.4	62	16.9	2.269	0.260	310	0.278	0.208	1.000
1600.6	74	17.0	2.299	0.256	306	0.336	0.187	1.000
1600.8	78	17.9	2.328	0.267	301	0.447	0.125	1.000
1601.0	71	20.1	2.319	0.277	303	0.465	0.112	1.000
1601.2	59	18.5	2.262	0.280	310	0.341	0.208	1.000
1601.4	44	17.5	2.236	0.281	316	0.281	0.228	1.000

1601.6	36	16.3	2.244	0.284	316	0.313	0.221	1.000
1601.8	37	16.6	2.256	0.269	311	0.281	0.216	1.000
1602.0	40	18.3	2.256	0.266	308	0.269	0.217	1.000
1602.2	36	18.6	2.253	0.271	309	0.280	0.218	1.000
1602.4	29	20.9	2.240	0.289	308	0.324	0.222	1.000
1602.6	26	23.2	2.220	0.283	309	0.250	0.240	0.968
1602.8	27	26.0	2.182	0.261	312	0.070	0.279	0.893
1603.0	26	31.9	2.152	0.275	318	0.052	0.299	0.863
1603.2	25	33.4	2.151	0.280	322	0.070	0.298	0.849
1603.4	24	31.2	2.155	0.275	321	0.061	0.296	0.849
1603.6	23	28.5	2.158	0.280	321	0.086	0.292	0.896
1603.8	22	25.9	2.171	0.283	320	0.130	0.280	0.970
1604.0	24	22.6	2.188	0.275	318	0.140	0.269	1.000
1604.2	28	19.4	2.206	0.265	318	0.142	0.258	1.000
1604.4	33	18.2	2.213	0.252	317	0.111	0.256	1.000
1604.6	29	18.6	2.202	0.259	320	0.112	0.263	1.000
1604.8	25	20.7	2.199	0.255	320	0.089	0.267	1.000
1605.0	24	25.8	2.217	0.267	318	0.180	0.248	0.961
1605.2	24	29.8	2.232	0.275	312	0.248	0.233	0.911
1605.4	23	32.4	2.228	0.263	308	0.188	0.241	0.878
1605.6	24	32.0	2.220	0.247	310	0.105	0.253	0.867
1605.8	25	31.0	2.229	0.255	311	0.161	0.242	0.890
1606.0	26	30.7	2.229	0.265	311	0.198	0.239	0.907
1606.2	26	30.2	2.214	0.250	312	0.103	0.257	0.906
1606.4	25	30.2	2.215	0.249	314	0.103	0.256	0.916
1606.6	24	31.6	2.228	0.245	312	0.118	0.247	0.928
1606.8	22	33.7	2.239	0.224	309	0.061	0.245	0.922
1607.0	22	37.2	2.236	0.217	308	0.022	0.251	0.920
1607.2	22	38.3	2.232	0.224	310	0.041	0.252	0.918
1607.4	23	38.4	2.243	0.221	314	0.060	0.243	0.906
1607.6	24	37.6	2.235	0.227	319	0.062	0.248	0.915
1607.8	20	36.7	2.224	0.237	321	0.077	0.253	0.946
1608.0	19	34.9	2.223	0.218	322	0.000	0.260	0.950
1608.2	22	32.8	2.235	0.198	318	0.000	0.248	0.973
1608.4	24	30.6	2.274	0.215	316	0.024	0.286	1.000
1608.6	24	26.3	2.307	0.238	315	0.021	0.286	1.000
1608.8	25	22.2	2.164	0.283	323	0.027	0.296	1.000
1609.0	26	19.2	2.125	0.318	330	0.033	0.304	1.000
1609.2	27	17.1	2.189	0.310	330	0.041	0.303	1.000
1609.4	27	15.9	2.259	0.289	329	0.045	0.300	1.000
1609.6	30	15.2	2.210	0.284	312	0.063	0.275	1.000
1609.8	33	14.0	2.050	0.299	305	0.087	0.259	1.000
1610.0	35	14.1	1.968	0.309	297	0.106	0.245	1.000
1610.2	39	12.6	2.076	0.320	304	0.147	0.247	1.000
1610.4	41	10.8	2.189	0.315	307	0.165	0.249	1.000
1610.6	41	10.0	2.236	0.287	311	0.162	0.254	1.000
1610.8	39	9.2	2.254	0.252	311	0.210	0.223	1.000
1611.0	36	9.8	2.230	0.241	315	0.107	0.247	1.000
1611.2	36	10.3	2.225	0.230	320	0.049	0.255	1.000
1611.4	38	11.4	2.237	0.203	319	0.000	0.249	1.000
1611.6	37	12.6	2.248	0.198	315	0.000	0.243	1.000
1611.8	37	14.1	2.250	0.215	314	0.052	0.239	1.000
1612.0	34	16.4	2.244	0.226	316	0.078	0.241	1.000
1612.2	34	20.6	2.239	0.215	319	0.023	0.249	1.000
1612.4	37	23.7	2.234	0.218	321	0.025	0.252	1.000
1612.6	39	23.2	2.240	0.252	322	0.173	0.235	1.000
1612.8	38	21.4	2.231	0.280	324	0.266	0.232	1.000
1613.0	36	21.3	2.229	0.284	320	0.277	0.232	0.973
1613.2	35	23.4	2.232	0.287	318	0.295	0.229	0.911
1613.4	36	28.2	2.221	0.289	314	0.278	0.237	0.861
1613.6	34	34.0	2.218	0.280	315	0.234	0.243	0.824
1613.8	31	40.6	2.219	0.259	317	0.150	0.250	0.817
1614.0	33	40.6	2.229	0.241	316	0.104	0.248	0.838
1614.2	34	36.0	2.243	0.247	312	0.163	0.234	0.854
1614.4	32	32.4	2.245	0.250	310	0.180	0.231	0.877

1614.6	32	29.9	2.233	0.266	311	0.213	0.236	0.913
1614.8	32	29.3	2.241	0.256	310	0.192	0.233	0.941
1615.0	33	30.5	2.257	0.228	307	0.119	0.229	0.960
1615.2	33	32.4	2.264	0.219	304	0.101	0.227	0.987
1615.4	32	33.4	2.289	0.220	302	0.162	0.207	1.000
1615.6	33	33.5	2.299	0.223	304	0.203	0.197	1.000
1615.8	33	28.7	2.299	0.226	307	0.216	0.196	1.000
1616.0	32	24.6	2.322	0.223	306	0.257	0.179	1.000
1616.2	30	23.5	2.357	0.218	303	0.325	0.153	1.000
1616.4	33	27.0	2.357	0.206	300	0.273	0.156	1.000
1616.6	34	30.7	2.313	0.204	305	0.159	0.192	1.000
1616.8	34	32.6	2.309	0.219	308	0.211	0.190	1.000
1617.0	33	32.6	2.326	0.221	307	0.258	0.176	1.000
1617.2	34	32.0	2.308	0.223	307	0.226	0.190	1.000
1617.4	35	32.3	2.306	0.233	302	0.257	0.188	1.000
1617.6	36	34.1	2.324	0.208	298	0.202	0.182	1.000
1617.8	37	36.1	2.274	0.174	298	0.000	0.224	1.000
1618.0	43	27.3	2.202	0.184	303	0.000	0.255	1.000
1618.2	49	17.1	2.225	0.216	302	0.000	0.259	1.000
1618.4	53	12.4	2.288	0.227	290	Coal		
1618.6	49	11.1	2.109	0.252	295	Coal		
1618.8	40	13.3	1.679	0.349	350	Coal		
1619.0	31	24.0	1.389	0.455	422	Coal		
1619.2	21	73.9	1.290	0.518	457	Coal		
1619.4	15	210.5	1.243	0.541	459	Coal		
1619.6	13	258.9	1.212	0.566	465	Coal		
1619.8	11	257.4	1.205	0.527	462	Coal		
1620.0	11	290.2	1.208	0.508	466	Coal		
1620.2	11	375.4	1.214	0.526	464	Coal		
1620.4	12	477.9	1.221	0.546	464	Coal		
1620.6	21	478.1	1.238	0.534	461	Coal		
1620.8	44	191.1	1.342	0.527	459	Coal		
1621.0	77	33.2	1.625	0.473	469	Coal		
1621.2	101	14.0	2.014	0.425	475	Coal		
1621.4	111	8.7	2.183	0.444	487	Coal		
1621.6	109	7.7	2.207	0.437	479	Coal		
1621.8	107	7.8	2.212	0.426	476	Coal		
1622.0	113	7.9	2.195	0.402	474	0.668	0.000	1.000
1622.2	117	8.0	2.195	0.388	474	0.613	0.000	1.000
1622.4	121	7.8	2.228	0.387	487	0.685	0.000	1.000
1622.6	122	7.6	2.241	0.396	484	0.753	0.000	1.000
1622.8	121	7.4	2.233	0.401	474	0.757	0.000	1.000
1623.0	117	8.1	2.239	0.408	457	0.799	0.000	1.000
1623.2	120	9.8	2.268	0.410	425	0.876	0.000	1.000
1623.4	129	11.6	2.289	0.382	418	0.814	0.000	1.000
1623.6	132	12.6	2.311	0.375	398	0.841	0.000	1.000
1623.8	127	13.8	2.348	0.374	346	0.926	0.000	1.000
1624.0	126	15.2	2.384	0.364	317	0.973	0.000	1.000
1624.2	118	18.0	2.403	0.337	300	0.914	0.000	1.000
1624.4	111	23.0	2.446	0.295	297	0.848	0.000	1.000
1624.6	110	28.5	2.488	0.262	279	0.817	0.000	1.000
1624.8	97	34.7	2.444	0.255	274	0.682	0.000	1.000
1625.0	76	22.5	2.362	0.253	295	0.474	0.089	1.000
1625.2	77	16.4	2.333	0.251	302	0.396	0.164	1.000
1625.4	92	15.4	2.363	0.259	311	0.500	0.070	1.000
1625.6	93	17.6	2.364	0.281	304	0.591	0.006	1.000
1625.8	92	20.2	2.334	0.287	309	0.544	0.043	1.000
1626.0	88	19.4	2.316	0.298	310	0.544	0.045	1.000
1626.2	73	17.7	2.304	0.280	307	0.441	0.140	1.000
1626.4	55	19.9	2.280	0.245	304	0.243	0.205	1.000
1626.6	41	23.8	2.253	0.238	309	0.149	0.229	1.000
1626.8	37	31.0	2.236	0.236	311	0.100	0.244	0.985
1627.0	34	38.7	2.226	0.240	313	0.090	0.251	0.954
1627.2	30	37.0	2.226	0.234	313	0.067	0.253	0.951
1627.4	27	30.7	2.217	0.223	314	0.000	0.264	0.984

1627.6	29	27.2	2.215	0.228	314	0.019	0.263	1.000
1627.8	35	25.9	2.237	0.243	313	0.132	0.240	1.000
1628.0	37	23.0	2.251	0.233	309	0.125	0.232	1.000
1628.2	35	21.8	2.248	0.207	307	0.014	0.244	1.000
1628.4	31	21.0	2.249	0.196	304	0.000	0.242	1.000
1628.6	29	22.0	2.256	0.203	303	0.014	0.239	1.000
1628.8	30	23.2	2.261	0.210	305	0.055	0.232	1.000
1629.0	32	24.3	2.275	0.202	302	0.058	0.224	1.000
1629.2	32	25.9	2.270	0.192	303	0.009	0.231	1.000
1629.4	33	25.3	2.245	0.186	304	0.000	0.239	1.000
1629.6	33	23.7	2.236	0.194	307	0.000	0.246	1.000
1629.8	32	22.2	2.247	0.227	309	0.091	0.238	1.000
1630.0	32	22.7	2.233	0.252	308	0.157	0.240	1.000
1630.2	33	24.7	2.237	0.242	307	0.127	0.241	1.000
1630.4	34	25.5	2.242	0.214	306	0.024	0.247	1.000
1630.6	32	26.3	2.246	0.211	303	0.024	0.244	1.000
1630.8	31	27.7	2.242	0.228	307	0.082	0.241	1.000
1631.0	30	29.5	2.232	0.209	308	0.000	0.253	1.000
1631.2	30	31.9	2.235	0.195	312	0.000	0.247	1.000
1631.4	31	32.0	2.234	0.205	312	0.000	0.251	1.000
1631.6	30	30.6	2.227	0.225	314	0.033	0.255	1.000
1631.8	31	29.0	2.231	0.236	314	0.090	0.247	0.982
1632.0	29	27.2	2.229	0.256	315	0.164	0.242	0.933
1632.2	27	26.7	2.217	0.283	316	0.242	0.242	0.894
1632.4	27	27.6	2.216	0.293	317	0.279	0.240	0.877
1632.6	26	29.3	2.226	0.276	316	0.237	0.237	0.886
1632.8	26	30.5	2.237	0.250	312	0.159	0.238	0.927
1633.0	26	29.8	2.249	0.226	308	0.095	0.236	0.974
1633.2	25	28.8	2.250	0.225	308	0.089	0.236	1.000
1633.4	27	26.7	2.230	0.243	308	0.113	0.246	1.000
1633.6	27	24.5	2.207	0.269	312	0.161	0.256	1.000
1633.8	28	22.3	2.207	0.279	316	0.201	0.252	1.000
1634.0	27	20.1	2.243	0.276	316	0.276	0.224	1.000
1634.2	28	19.3	2.268	0.251	312	0.237	0.212	1.000
1634.4	30	19.2	2.248	0.236	314	0.130	0.234	1.000
1634.6	31	19.8	2.237	0.248	324	0.150	0.239	1.000
1634.8	31	19.5	2.233	0.243	323	0.121	0.244	1.000
1635.0	33	18.0	2.242	0.221	321	0.053	0.245	1.000
1635.2	35	17.3	2.292	0.191	307	0.055	0.214	1.000
1635.4	38	16.3	2.302	0.166	300	0.000	0.210	1.000
1635.6	46	16.1	2.278	0.162	282	0.000	0.217	1.000
1635.8	59	14.1	2.302	0.181	289	0.039	0.209	1.000
1636.0	72	12.5	2.354	0.221	294	0.325	0.155	1.000
1636.2	77	12.0	2.341	0.263	295	0.464	0.105	1.000
1636.4	67	14.4	2.139	0.340	320	Coal		
1636.6	48	21.8	1.809	0.432	371	Coal		
1636.8	35	44.0	1.577	0.470	433	Coal		
1637.0	27	95.1	1.409	0.497	453	Coal		
1637.2	21	171.5	1.302	0.523	452	Coal		
1637.4	19	250.9	1.268	0.554	460	Coal		
1637.6	28	182.2	1.316	0.536	462	Coal		
1637.8	51	45.3	1.481	0.496	462	Coal		
1638.0	69	22.9	1.673	0.490	450	Coal		
1638.2	72	22.8	1.698	0.499	434	Coal		
1638.4	73	36.8	1.565	0.470	436	Coal		
1638.6	77	24.0	1.471	0.473	441	Coal		
1638.8	81	15.8	1.573	0.484	450	Coal		
1639.0	70	13.8	1.958	0.401	393	Coal		
1639.2	49	14.0	2.325	0.267	339	Coal		
1639.4	32	22.5	2.373	0.210	292	0.330	0.143	1.000
1639.6	24	35.7	2.339	0.190	286	0.165	0.176	1.000
1639.8	22	45.6	2.329	0.180	290	0.104	0.187	1.000
1640.0	24	27.3	2.327	0.177	288	0.085	0.190	1.000
1640.2	30	13.0	2.320	0.193	296	0.134	0.190	1.000
1640.4	47	10.6	2.344	0.204	292	0.236	0.167	1.000

1640.6	67	11.4	2.336	0.215	285		Coal	
1640.8	84	14.5	2.191	0.261	301		Coal	
1641.0	83	17.5	2.082	0.313	314		Coal	
1641.2	72	16.4	2.174	0.298	317		Coal	
1641.4	67	15.5	2.364	0.246	288		Coal	
1641.6	78	18.4	2.433	0.221	264		Coal	
1641.8	93	22.2	2.409	0.252	273		Coal	
1642.0	94	24.7	2.310	0.294	282	0.511	0.075	0.976
1642.2	87	23.3	2.289	0.304	299	0.502	0.089	1.000
1642.4	90	23.1	2.313	0.265	296	0.406	0.169	1.000
1642.6	101	21.4	2.268	0.240	295	0.196	0.216	1.000
1642.8	109	20.6	2.224	0.258	308	0.158	0.246	1.000
1643.0	108	17.9	2.251	0.248	315	0.185	0.227	1.000
1643.2	103	18.2	2.298	0.217	307	0.173	0.200	1.000
1643.4	106	19.0	2.297	0.231	292	0.229	0.196	1.000
1643.6	114	24.2	2.262	0.272	305	0.310	0.210	1.000
1643.8	109	28.5	2.264	0.313	317	0.478	0.121	0.978
1644.0	98	30.9	2.304	0.319	329	0.598	0.002	0.938
1644.2	82	26.6	2.338	0.304	326	0.622	0.000	0.959
1644.4	80	23.2	2.355	0.293	328	0.618	0.000	1.000
1644.6	76	22.5	2.346	0.280	328	0.544	0.041	1.000
1644.8	67	21.0	2.287	0.275	326	0.381	0.191	1.000
1645.0	58	18.6	2.257	0.284	320	0.344	0.211	1.000
1645.2	51	16.6	2.275	0.266	311	0.313	0.203	1.000
1645.4	44	17.1	2.290	0.266	307	0.352	0.191	1.000
1645.6	38	19.6	2.268	0.260	304	0.273	0.209	1.000
1645.8	37	22.3	2.246	0.255	306	0.200	0.229	1.000
1646.0	37	23.3	2.234	0.264	306	0.210	0.235	1.000
1646.2	37	24.0	2.232	0.265	310	0.206	0.237	1.000
1646.4	35	24.5	2.233	0.269	313	0.223	0.235	0.993
1646.6	35	25.6	2.222	0.259	315	0.159	0.247	1.000
1646.8	38	25.1	2.218	0.258	316	0.142	0.251	1.000
1647.0	41	23.3	2.216	0.260	316	0.150	0.251	1.000
1647.2	38	20.5	2.220	0.267	319	0.186	0.246	1.000
1647.4	39	18.7	2.228	0.286	318	0.282	0.232	1.000
1647.6	40	17.4	2.234	0.285	317	0.290	0.228	1.000
1647.8	42	17.1	2.242	0.272	314	0.258	0.226	1.000
1648.0	43	18.5	2.248	0.256	308	0.211	0.227	1.000
1648.2	43	23.1	2.232	0.267	312	0.214	0.236	1.000
1648.4	40	26.7	2.195	0.268	316	0.129	0.266	1.000
1648.6	35	23.3	2.180	0.258	320	0.053	0.282	1.000
1648.8	37	16.3	2.208	0.246	319	0.073	0.263	1.000
1649.0	41	13.2	2.233	0.237	314	0.097	0.246	1.000
1649.2	44	12.1	2.254	0.246	308	0.187	0.225	1.000
1649.4	41	14.2	2.247	0.255	306	0.205	0.228	1.000
1649.6	37	19.4	2.216	0.275	313	0.207	0.246	0.999
1649.8	31	30.5	2.198	0.299	323	0.262	0.251	0.919
1650.0	29	41.3	2.200	0.289	324	0.227	0.254	0.839
1650.2	26	43.7	2.201	0.278	318	0.184	0.257	0.809
1650.4	24	40.7	2.198	0.268	315	0.139	0.263	0.848
1650.6	23	35.9	2.205	0.253	315	0.096	0.263	0.918
1650.8	24	30.0	2.212	0.240	317	0.060	0.262	0.997
1651.0	24	24.5	2.225	0.226	319	0.036	0.256	1.000
1651.2	24	22.0	2.215	0.223	316	0.000	0.265	1.000
1651.4	24	21.2	2.212	0.246	313	0.081	0.260	1.000
1651.6	26	20.8	2.222	0.256	311	0.146	0.248	1.000
1651.8	26	19.7	2.230	0.233	310	0.074	0.250	1.000
1652.0	25	18.9	2.232	0.235	310	0.087	0.247	1.000
1652.2	23	19.0	2.231	0.251	311	0.151	0.242	1.000
1652.4	22	20.1	2.227	0.261	313	0.179	0.242	1.000
1652.6	22	21.1	2.222	0.253	316	0.134	0.249	1.000
1652.8	23	21.2	2.205	0.231	318	0.006	0.271	1.000
1653.0	22	20.3	2.196	0.213	320	0.000	0.268	1.000
1653.2	22	19.1	2.203	0.213	321	0.000	0.266	1.000
1653.4	24	17.1	2.226	0.252	319	0.140	0.246	1.000

1653.6	27	15.4	2.197	0.274	312	0.156	0.262	1.000
1653.8	28	16.0	2.212	0.270	309	0.177	0.251	1.000
1654.0	25	17.2	2.238	0.243	304	0.132	0.240	1.000
1654.2	22	19.1	2.230	0.243	309	0.115	0.246	1.000
1654.4	23	21.3	2.238	0.233	311	0.094	0.243	1.000
1654.6	27	25.0	2.256	0.206	312	0.031	0.238	1.000
1654.8	27	30.2	2.252	0.193	310	0.000	0.239	1.000
1655.0	28	32.8	2.244	0.197	311	0.000	0.244	1.000
1655.2	26	28.3	2.252	0.209	314	0.030	0.240	1.000
1655.4	25	24.1	2.231	0.252	316	0.154	0.242	1.000
1655.6	26	21.4	2.200	0.279	319	0.184	0.258	1.000
1655.8	23	21.1	2.200	0.297	317	0.257	0.251	1.000
1656.0	20	21.3	2.199	0.314	318	0.324	0.247	1.000
1656.2	20	19.9	2.198	0.283	322	0.199	0.257	1.000
1656.4	23	19.1	2.215	0.237	317	0.051	0.261	1.000
1656.6	26	19.6	2.252	0.205	314	0.015	0.241	1.000
1656.8	27	21.1	2.298	0.211	313	0.153	0.202	1.000
1657.0	32	22.9	2.278	0.209	315	0.094	0.219	1.000
1657.2	32	22.9	2.288	0.201	311	0.086	0.214	1.000
1657.4	28	22.6	2.290	0.215	304	0.150	0.207	1.000
1657.6	25	22.1	2.278	0.223	301	0.150	0.214	1.000
1657.8	27	22.5	2.277	0.228	299	0.167	0.213	1.000
1658.0	26	22.7	2.274	0.216	302	0.112	0.220	1.000
1658.2	27	19.8	2.240	0.231	303	0.091	0.242	1.000
1658.4	34	14.9	2.231	0.262	300	0.195	0.238	1.000
1658.6	47	14.0	2.294	0.254	285	0.311	0.192	1.000
1658.8	56	13.6	2.351	0.232	281	0.364	0.154	1.000
1659.0	54	14.9	2.299	0.220	278	0.190	0.198	1.000
1659.2	47	14.4	2.226	0.209	286	0.000	0.256	1.000
1659.4	44	13.5	2.211	0.206	284	0.000	0.260	1.000
1659.6	53	14.0	2.270	0.220	275	0.121	0.221	1.000
1659.8	64	15.2	2.361	0.216	260	0.325	0.151	1.000
1660.0	62	13.8	2.511	0.197	253	0.612	0.000	1.000
1660.2	52	12.8	2.463	0.191	267	0.472	0.053	1.000
1660.4	43	12.9	2.306	0.197	286	0.111	0.201	1.000
1660.6	38	14.9	2.217	0.209	304	0.000	0.259	1.000
1660.8	37	18.4	2.206	0.236	315	0.028	0.269	1.000
1661.0	37	19.5	2.206	0.271	317	0.167	0.256	1.000
1661.2	38	21.5	2.214	0.282	317	0.232	0.245	1.000
1661.4	38	22.4	2.225	0.262	320	0.178	0.244	1.000
1661.6	36	18.4	2.271	0.261	319	0.287	0.207	1.000
1661.8	34	10.0	2.415	0.257	304	0.618	0.000	1.000
1662.0	30	5.8	2.629	0.250	281	1.000	0.000	1.000
1662.2	30	4.4	2.655	0.249	257	1.000	0.000	1.000
1662.4	32	4.5	2.578	0.249	258	0.983	0.000	1.000
1662.6	38	5.7	2.545	0.243	266	0.880	0.000	1.000
1662.8	39	7.5	2.494	0.229	270	0.701	0.000	1.000
1663.0	38	9.1	2.403	0.238	274	0.517	0.048	1.000
1663.2	32	11.1	2.289	0.233	291	0.217	0.202	1.000
1663.4	27	13.1	2.217	0.252	307	0.120	0.254	1.000
1663.6	24	14.8	2.206	0.294	324	0.261	0.247	1.000
1663.8	22	16.7	2.222	0.305	329	0.344	0.232	1.000
1664.0	22	19.2	2.224	0.296	325	0.312	0.233	1.000
1664.2	22	21.2	2.205	0.289	319	0.235	0.250	0.993
1664.4	22	21.6	2.190	0.275	317	0.146	0.267	0.953
1664.6	24	21.7	2.194	0.303	316	0.269	0.253	0.948
1664.8	24	22.4	2.220	0.303	314	0.330	0.234	0.948
1665.0	23	25.1	2.228	0.256	314	0.162	0.243	0.945
1665.2	23	27.8	2.229	0.241	310	0.101	0.248	0.964
1665.4	25	30.3	2.242	0.227	309	0.079	0.242	0.986
1665.6	24	30.4	2.251	0.225	305	0.093	0.235	0.983
1665.8	24	30.5	2.239	0.234	306	0.100	0.242	0.980
1666.0	24	31.6	2.220	0.227	309	0.026	0.260	0.974
1666.2	25	33.9	2.209	0.203	316	0.000	0.260	0.952
1666.4	31	34.1	2.180	0.185	318	0.000	0.264	0.932

1666.6	31	31.0	2.114	0.206	315	0.000	0.299	0.906
1666.8	27	28.3	2.117	0.268	312	0.000	0.320	0.894
1667.0	25	26.7	2.192	0.294	317	0.228	0.259	0.884
1667.2	27	24.9	2.199	0.285	321	0.207	0.257	0.893
1667.4	26	22.2	2.156	0.310	322	0.202	0.283	0.920
1667.6	24	18.8	2.144	0.324	321	0.227	0.287	0.960
1667.8	22	18.0	2.186	0.314	322	0.291	0.257	0.989
1668.0	23	18.1	2.195	0.305	323	0.277	0.252	1.000
1668.2	21	18.0	2.188	0.294	319	0.217	0.262	1.000
1668.4	21	18.8	2.196	0.289	317	0.215	0.257	1.000
1668.6	23	19.2	2.195	0.297	315	0.244	0.255	1.000
1668.8	23	19.2	2.192	0.290	313	0.212	0.260	1.000
1669.0	25	18.2	2.187	0.270	315	0.118	0.272	1.000
1669.2	26	16.7	2.180	0.272	314	0.109	0.277	1.000
1669.4	26	15.5	2.178	0.278	314	0.129	0.276	1.000
1669.6	28	14.8	2.181	0.277	315	0.132	0.274	1.000
1669.8	27	13.2	2.196	0.261	314	0.104	0.268	1.000
1670.0	26	10.8	2.210	0.236	315	0.039	0.265	1.000
1670.2	28	9.9	2.246	0.223	306	0.074	0.240	1.000
1670.4	30	10.6	2.307	0.222	294	0.216	0.191	1.000
1670.6	30	12.5	2.353	0.216	289	0.305	0.157	1.000
1670.8	29	13.7	2.357	0.233	286	0.382	0.150	1.000
1671.0	28	11.8	2.352	0.240	296	0.398	0.152	1.000
1671.2	32	9.3	2.326	0.233	296	0.307	0.173	1.000
1671.4	33	9.3	2.308	0.221	292	0.214	0.191	1.000
1671.6	31	11.8	2.290	0.234	293	0.223	0.201	1.000
1671.8	30	18.7	2.255	0.257	300	0.231	0.220	1.000
1672.0	28	33.5	2.240	0.264	310	0.224	0.230	0.932
1672.2	25	41.3	2.240	0.258	309	0.200	0.232	0.863
1672.4	26	39.6	2.230	0.259	306	0.179	0.240	0.829
1672.6	28	36.6	2.220	0.242	302	0.084	0.255	0.851
1672.8	27	35.0	2.215	0.237	304	0.054	0.261	0.875
1673.0	26	34.0	2.220	0.235	305	0.060	0.257	0.907
1673.2	29	32.7	2.228	0.240	307	0.099	0.249	0.946
1673.4	31	30.3	2.244	0.240	305	0.138	0.235	0.994
1673.6	31	28.9	2.268	0.225	300	0.135	0.222	1.000
1673.8	31	28.4	2.272	0.207	295	0.072	0.224	1.000
1674.0	31	28.3	2.249	0.212	297	0.037	0.241	1.000
1674.2	33	27.1	2.225	0.212	302	0.000	0.257	1.000
1674.4	33	26.3	2.218	0.208	310	0.000	0.258	1.000
1674.6	30	26.7	2.224	0.222	309	0.015	0.259	1.000
1674.8	27	27.4	2.253	0.217	304	0.065	0.236	1.000
1675.0	27	27.7	2.281	0.203	301	0.077	0.218	1.000
1675.2	26	26.4	2.274	0.208	300	0.082	0.222	1.000
1675.4	27	22.9	2.250	0.228	301	0.103	0.235	1.000
1675.6	29	19.4	2.272	0.236	305	0.189	0.214	1.000
1675.8	30	17.1	2.329	0.226	300	0.286	0.172	1.000
1676.0	31	15.7	2.414	0.217	292	0.458	0.080	1.000
1676.2	31	14.7	2.465	0.237	287	0.661	0.000	1.000
1676.4	30	13.7	2.374	0.254	289	0.506	0.062	1.000
1676.6	31	12.4	2.286	0.261	303	0.324	0.195	1.000
1676.8	32	11.8	2.265	0.269	307	0.303	0.209	1.000
1677.0	34	12.1	2.272	0.272	308	0.331	0.203	1.000
1677.2	36	13.5	2.287	0.246	302	0.266	0.199	1.000
1677.4	35	15.4	2.290	0.213	299	0.141	0.207	1.000
1677.6	37	17.1	2.276	0.201	300	0.058	0.223	1.000
1677.8	38	18.0	2.262	0.209	302	0.056	0.232	1.000
1678.0	37	18.4	2.251	0.212	303	0.041	0.240	1.000
1678.2	37	16.6	2.250	0.220	303	0.070	0.238	1.000
1678.4	39	14.8	2.254	0.229	302	0.115	0.232	1.000
1678.6	41	12.9	2.244	0.229	304	0.092	0.240	1.000
1678.8	40	12.6	2.223	0.234	305	0.060	0.255	1.000
1679.0	38	12.8	2.222	0.254	308	0.138	0.249	1.000
1679.2	42	13.6	2.224	0.257	309	0.155	0.246	1.000
1679.4	41	15.8	2.250	0.247	305	0.180	0.228	1.000

1679.6	39	18.5	2.274	0.222	302	0.136	0.218	1.000
1679.8	38	21.0	2.285	0.199	301	0.074	0.216	1.000
1680.0	37	19.8	2.287	0.185	305	0.019	0.219	1.000
1680.2	39	16.1	2.289	0.195	310	0.068	0.214	1.000
1680.4	43	13.9	2.267	0.207	317	0.060	0.229	1.000
1680.6	38	11.4	2.227	0.221	324	0.020	0.256	1.000
1680.8	37	10.4	2.235	0.225	315	0.052	0.249	1.000
1681.0	49	10.9	2.177	0.223	292	0.000	0.280	1.000
1681.2	70	11.8	1.870	0.319	341	Coal		
1681.4	87	10.3	1.717	0.434	403	Coal		
1681.6	90	8.9	1.817	0.475	462	Coal		
1681.8	95	8.2	2.059	0.421	441	Coal		
1682.0	99	8.4	2.195	0.373	417	Coal		
1682.2	101	9.5	2.215	0.335	379	1.000	0.000	1.000
1682.4	102	11.3	2.205	0.351	344	1.000	0.000	1.000
1682.6	103	14.0	2.172	0.347	303	1.000	0.000	1.000
1682.8	103	17.7	1.974	0.317	268	Coal		
1683.0	103	17.6	1.819	0.355	252	Coal		
1683.2	108	15.6	1.830	0.385	262	Coal		
1683.4	111	12.8	1.823	0.376	298	Coal		
1683.6	117	11.0	1.829	0.364	335	Coal		
1683.8	121	9.5	2.041	0.376	355	Coal		
1684.0	118	8.5	2.197	0.364	365	Coal		
1684.2	115	8.2	2.136	0.330	345	Coal		
1684.4	110	9.0	2.034	0.352	305	Coal		
1684.6	106	10.0	2.040	0.402	302	Coal		
1684.8	102	10.2	2.146	0.414	308	Coal		
1685.0	104	10.3	2.223	0.396	323	Coal		
1685.2	112	11.4	2.286	0.384	315	Coal		
1685.4	109	13.1	2.383	0.342	286	Coal		
1685.6	106	12.7	2.513	0.291	271	Coal		
1685.8	108	14.1	2.567	0.259	261	Coal		
1686.0	113	15.8	2.536	0.251	260	0.891	0.000	1.000
1686.2	116	17.4	2.519	0.259	263	0.880	0.000	1.000
1686.4	114	15.5	2.514	0.265	272	0.892	0.000	1.000
1686.6	117	15.2	2.509	0.261	272	0.865	0.000	1.000
1686.8	112	20.3	2.481	0.281	270	0.877	0.000	0.980
1687.0	92	26.9	2.381	0.284	280	0.646	0.000	0.982
1687.2	60	28.9	2.297	0.253	293	0.316	0.190	0.978
1687.4	40	31.9	2.260	0.207	302	0.045	0.234	0.958
1687.6	39	36.8	2.265	0.202	303	0.037	0.231	0.929
1687.8	38	40.2	2.276	0.208	300	0.087	0.220	0.910
1688.0	38	44.5	2.275	0.211	300	0.094	0.221	0.871
1688.2	38	43.9	2.264	0.228	298	0.135	0.224	0.865
1688.4	35	41.2	2.253	0.233	299	0.132	0.231	0.912
1688.6	35	37.5	2.253	0.217	300	0.064	0.237	0.981
1688.8	36	29.3	2.261	0.221	298	0.101	0.228	1.000
1689.0	37	19.9	2.281	0.231	292	0.190	0.209	1.000
1689.2	38	16.1	2.305	0.229	287	0.238	0.190	1.000
1689.4	39	14.8	2.312	0.219	281	0.216	0.188	1.000
1689.6	39	15.6	2.287	0.213	280	0.130	0.210	1.000
1689.8	40	17.4	2.265	0.219	283	0.103	0.226	1.000
1690.0	39	17.9	2.269	0.228	287	0.149	0.220	1.000
1690.2	36	18.4	2.292	0.221	285	0.180	0.203	1.000
1690.4	35	19.1	2.302	0.204	284	0.132	0.201	1.000
1690.6	38	19.1	2.292	0.182	284	0.019	0.217	1.000
1690.8	43	19.7	2.268	0.196	286	0.020	0.231	1.000
1691.0	43	21.0	2.280	0.220	287	0.143	0.213	1.000
1691.2	40	21.8	2.294	0.221	290	0.181	0.202	1.000
1691.4	45	19.7	2.274	0.230	294	0.168	0.215	1.000
1691.6	57	16.7	2.263	0.256	294	0.245	0.215	1.000
1691.8	68	14.9	2.280	0.262	294	0.312	0.200	1.000
1692.0	75	15.3	2.308	0.276	286	0.436	0.144	1.000
1692.2	72	20.6	2.306	0.264	280	0.385	0.180	1.000
1692.4	59	32.8	2.275	0.243	285	0.223	0.210	0.924

1692.6	42	62.5	2.231	0.256	294	0.169	0.241	0.844
1692.8	34	73.5	2.205	0.260	304	0.120	0.261	0.842
1693.0	33	43.1	2.222	0.276	305	0.226	0.241	0.882
1693.2	35	24.4	2.307	0.283	299	0.462	0.120	0.922
1693.4	34	15.8	2.441	0.271	291	0.738	0.000	0.962
1693.6	32	10.5	2.500	0.259	282	0.834	0.000	1.000
1693.8	31	9.1	2.502	0.261	280	0.850	0.000	1.000
1694.0	32	9.8	2.415	0.268	286	0.665	0.000	1.000
1694.2	36	12.7	2.318	0.262	290	0.404	0.168	1.000
1694.4	38	18.2	2.290	0.242	298	0.255	0.198	1.000
1694.6	37	26.4	2.281	0.234	299	0.201	0.208	1.000
1694.8	33	29.5	2.257	0.243	304	0.177	0.224	1.000
1695.0	36	28.0	2.244	0.270	303	0.255	0.225	1.000
1695.2	44	19.9	2.284	0.274	302	0.370	0.194	1.000
1695.4	51	12.9	2.343	0.245	290	0.399	0.157	1.000
1695.6	51	11.0	2.370	0.206	282	0.305	0.147	1.000
1695.8	48	12.1	2.377	0.182	271	0.228	0.148	1.000
1696.0	50	17.1	2.410	0.173	256	0.269	0.125	1.000
1696.2	47	22.3	2.430	0.171	254	0.309	0.111	1.000
1696.4	41	20.1	2.423	0.178	262	0.322	0.114	1.000
1696.6	39	11.4	2.461	0.175	272	0.400	0.088	1.000
1696.8	39	10.1	2.519	0.178	274	0.554	0.011	1.000
1697.0	40	11.1	2.454	0.191	273	0.451	0.067	1.000
1697.2	42	18.8	2.339	0.198	282	0.197	0.173	1.000
1697.4	42	27.0	2.290	0.196	289	0.071	0.214	1.000
1697.6	41	23.9	2.296	0.192	289	0.070	0.210	1.000
1697.8	41	18.0	2.347	0.189	284	0.180	0.170	1.000
1698.0	39	16.0	2.351	0.187	282	0.184	0.167	1.000
1698.2	39	15.6	2.301	0.190	284	0.075	0.207	1.000
1698.4	41	16.9	2.274	0.192	289	0.017	0.228	1.000
1698.6	54	16.7	2.285	0.191	290	0.037	0.219	1.000
1698.8	66	16.2	2.294	0.198	290	0.090	0.210	1.000
1699.0	72	15.0	2.274	0.211	298	0.091	0.222	1.000
1699.2	65	14.4	2.260	0.233	302	0.147	0.225	1.000
1699.4	59	14.6	2.276	0.248	295	0.244	0.207	1.000
1699.6	63	18.2	2.273	0.241	288	0.211	0.212	1.000
1699.8	67	21.9	2.252	0.233	280	0.127	0.232	1.000
1700.0	70	27.7	2.180	0.274	294	0.117	0.276	0.959
1700.2	68	31.3	2.173	0.299	303	0.200	0.272	0.959
1700.4	59	34.8	2.244	0.245	311	0.157	0.234	0.971
1700.6	50	34.9	2.328	0.173	294	0.071	0.190	1.000
1700.8	46	26.5	2.360	0.138	282	0.009	0.176	1.000
1701.0	45	21.5	2.378	0.136	261	Coal		
1701.2	45	22.8	2.211	0.198	260	Coal		
1701.4	35	29.3	1.777	0.388	305	Coal		
1701.6	19	48.1	1.424	0.532	354	Coal		
1701.8	13	79.6	1.286	0.584	418	Coal		
1702.0	11	139.5	1.259	0.574	450	Coal		
1702.2	9	221.7	1.247	0.568	457	Coal		
1702.4	8	327.0	1.236	0.536	461	Coal		
1702.6	8	491.6	1.229	0.502	462	Coal		
1702.8	8	645.3	1.227	0.516	462	Coal		
1703.0	9	656.9	1.228	0.537	465	Coal		
1703.2	10	617.5	1.221	0.535	463	Coal		
1703.4	9	601.2	1.215	0.527	461	Coal		
1703.6	9	475.5	1.219	0.535	457	Coal		
1703.8	11	387.8	1.220	0.529	462	Coal		
1704.0	13	342.9	1.216	0.537	464	Coal		
1704.2	15	362.5	1.216	0.567	470	Coal		
1704.4	19	388.8	1.224	0.589	469	Coal		
1704.6	24	323.2	1.232	0.574	468	Coal		
1704.8	24	309.1	1.230	0.573	470	Coal		
1705.0	28	274.5	1.229	0.599	452	Coal		
1705.2	36	184.6	1.265	0.578	434	Coal		
1705.4	49	63.2	1.394	0.539	442	Coal		

1705.6	69	19.2	1.666	0.468	468	Coal		
1705.8	90	12.0	1.967	0.416	485	Coal		
1706.0	101	10.4	2.181	0.384	456	Coal		
1706.2	101	11.7	2.346	0.348	370	Coal		
1706.4	98	14.5	2.445	0.337	298	Coal		
1706.6	97	17.8	2.459	0.324	262	0.997	0.000	1.000
1706.8	95	20.7	2.481	0.306	268	0.976	0.000	1.000
1707.0	100	23.5	2.496	0.285	271	0.927	0.000	1.000
1707.2	106	25.6	2.505	0.264	260	0.868	0.000	1.000
1707.4	109	29.4	2.541	0.254	265	0.912	0.000	1.000
1707.6	108	32.5	2.571	0.231	254	0.895	0.000	1.000
1707.8	114	34.7	2.569	0.223	252	0.858	0.000	1.000
1708.0	122	34.4	2.564	0.239	255	0.910	0.000	1.000
1708.2	125	33.7	2.571	0.245	257	0.949	0.000	1.000
1708.4	118	35.0	2.564	0.231	257	0.878	0.000	1.000
1708.6	114	39.0	2.554	0.213	254	0.783	0.000	1.000
1708.8	106	41.1	2.528	0.213	251	0.717	0.000	1.000
1709.0	95	30.2	2.462	0.221	257	0.590	0.004	1.000
1709.2	88	18.4	2.403	0.221	269	0.447	0.091	1.000
1709.4	87	15.2	2.420	0.220	272	0.485	0.062	1.000
1709.6	93	15.6	2.466	0.217	270	0.584	0.006	1.000
1709.8	95	19.7	2.486	0.207	263	0.592	0.003	1.000
1710.0	87	20.8	2.442	0.214	268	0.513	0.040	1.000
1710.2	89	17.9	2.400	0.224	277	0.452	0.089	1.000
1710.4	103	16.3	2.390	0.230	283	0.452	0.094	1.000
1710.6	117	16.3	2.393	0.235	288	0.477	0.076	1.000
1710.8	113	17.3	2.378	0.242	290	0.469	0.087	1.000
1711.0	98	19.0	2.364	0.255	290	0.486	0.080	1.000
1711.2	75	18.2	2.341	0.262	296	0.460	0.108	1.000
1711.4	65	19.2	2.318	0.251	298	0.359	0.174	1.000
1711.6	63	20.7	2.318	0.227	299	0.265	0.180	1.000
1711.8	58	20.5	2.318	0.218	299	0.227	0.183	1.000
1712.0	51	22.6	2.326	0.209	294	0.209	0.180	1.000
1712.2	54	21.8	2.327	0.208	295	0.208	0.180	1.000
1712.4	61	21.9	2.322	0.217	295	0.235	0.180	1.000
1712.6	59	22.5	2.333	0.236	296	0.335	0.167	1.000
1712.8	51	22.5	2.334	0.247	298	0.383	0.164	1.000
1713.0	45	24.4	2.315	0.266	297	0.414	0.161	1.000
1713.2	43	24.0	2.301	0.271	302	0.400	0.181	1.000
1713.4	40	22.4	2.276	0.262	305	0.303	0.203	1.000
1713.6	39	20.2	2.266	0.257	309	0.259	0.212	1.000
1713.8	42	18.9	2.272	0.242	303	0.210	0.213	1.000
1714.0	41	19.1	2.266	0.236	303	0.171	0.220	1.000
1714.2	39	20.6	2.253	0.241	300	0.164	0.228	1.000
1714.4	37	21.8	2.257	0.236	302	0.154	0.226	1.000
1714.6	34	24.7	2.251	0.211	302	0.035	0.240	1.000
1714.8	29	28.1	2.218	0.208	307	0.000	0.258	1.000
1715.0	25	30.6	2.143	0.250	311	0.028	0.279	0.946
1715.2	26	35.5	2.112	0.307	312	0.034	0.280	0.878
1715.4	25	36.0	2.159	0.322	311	0.031	0.279	0.860
1715.6	25	35.6	2.222	0.265	309	0.181	0.245	0.881
1715.8	27	34.4	2.207	0.205	307	0.000	0.261	0.925
1716.0	29	31.1	2.172	0.196	309	0.000	0.271	0.958
1716.2	31	25.9	2.171	0.222	310	0.000	0.282	0.988
1716.4	34	23.0	2.208	0.268	316	0.159	0.256	1.000
1716.6	30	22.9	2.237	0.277	314	0.269	0.228	1.000
1716.8	27	25.0	2.243	0.234	312	0.111	0.238	1.000
1717.0	29	28.5	2.220	0.214	314	0.000	0.260	0.992
1717.2	27	30.6	2.199	0.219	315	0.000	0.270	1.000
1717.4	27	30.3	2.207	0.237	315	0.036	0.267	1.000
1717.6	27	27.6	2.229	0.241	312	0.104	0.248	1.000
1717.8	29	23.7	2.245	0.243	311	0.150	0.234	1.000
1718.0	32	20.3	2.244	0.254	309	0.193	0.231	1.000
1718.2	36	17.3	2.233	0.281	308	0.274	0.230	1.000
1718.4	38	17.2	2.231	0.282	307	0.274	0.231	1.000

1718.6	38	18.7	2.231	0.273	308	0.237	0.234	1.000
1718.8	34	22.9	2.217	0.295	310	0.293	0.238	0.969
1719.0	32	24.1	2.206	0.312	315	0.332	0.242	0.976
1719.2	31	22.8	2.210	0.284	315	0.232	0.247	1.000
1719.4	30	18.7	2.223	0.278	313	0.236	0.239	1.000
1719.6	35	14.1	2.231	0.269	309	0.221	0.236	1.000
1719.8	47	12.2	2.256	0.261	303	0.251	0.218	1.000
1720.0	55	12.5	2.297	0.280	296	0.423	0.162	1.000
1720.2	59	14.2	2.310	0.279	297	0.452	0.128	1.000
1720.4	59	17.4	2.305	0.254	300	0.338	0.183	1.000
1720.6	59	20.0	2.305	0.254	301	0.340	0.183	1.000
1720.8	54	22.0	2.298	0.244	300	0.284	0.191	1.000
1721.0	51	23.0	2.297	0.241	303	0.271	0.192	1.000
1721.2	53	24.2	2.318	0.239	294	0.311	0.177	1.000
1721.4	56	26.8	2.322	0.222	288	0.251	0.179	1.000
1721.6	52	32.7	2.271	0.233	291	0.172	0.216	0.968
1721.8	47	33.7	2.240	0.253	301	0.178	0.235	0.953
1722.0	45	31.3	2.240	0.247	308	0.154	0.237	0.974
1722.2	44	27.8	2.239	0.233	305	0.096	0.242	1.000
1722.4	44	22.2	2.239	0.228	303	0.077	0.244	1.000
1722.6	44	19.2	2.247	0.222	302	0.071	0.240	1.000
1722.8	44	17.0	2.256	0.225	301	0.105	0.231	1.000
1723.0	44	16.1	2.259	0.232	300	0.140	0.226	1.000
1723.2	40	17.2	2.248	0.232	303	0.114	0.235	1.000
1723.4	33	21.2	2.230	0.236	304	0.087	0.249	1.000
1723.6	27	30.5	2.232	0.223	306	0.038	0.252	1.000
1723.8	24	42.4	2.232	0.206	309	0.000	0.252	0.940
1724.0	24	42.1	2.222	0.209	312	0.000	0.257	0.906
1724.2	24	38.6	2.211	0.226	313	0.000	0.268	0.939
1724.4	22	32.9	2.208	0.239	314	0.043	0.266	1.000
1724.6	22	24.9	2.208	0.239	314	0.046	0.266	1.000
1724.8	25	17.4	2.229	0.227	313	0.049	0.253	1.000
1725.0	29	13.6	2.266	0.216	299	0.094	0.226	1.000
1725.2	33	12.1	2.291	0.201	293	Coal		
1725.4	33	11.4	2.174	0.221	293	Coal		
1725.6	27	13.9	1.758	0.288	343	Coal		
1725.8	18	19.5	1.400	0.397	396	Coal		
1726.0	12	47.5	1.242	0.496	449	Coal		
1726.2	11	78.8	1.223	0.507	472	Coal		
1726.4	10	96.0	1.227	0.474	474	Coal		
1726.6	12	138.0	1.233	0.491	474	Coal		
1726.8	15	216.6	1.246	0.506	472	Coal		
1727.0	22	208.7	1.260	0.511	473	Coal		
1727.2	40	134.9	1.305	0.492	464	Coal		
1727.4	72	53.2	1.450	0.470	465	Coal		
1727.6	93	20.1	1.705	0.509	467	Coal		
1727.8	102	12.2	1.976	0.516	457	Coal		
1728.0	113	9.2	2.134	0.476	452	Coal		
1728.2	117	8.3	2.138	0.436	416	Coal		
1728.4	117	8.4	2.141	0.425	407	0.628	0.000	1.000
1728.6	115	8.9	2.141	0.399	373	0.524	0.101	1.000
1728.8	115	9.3	2.162	0.369	361	0.452	0.191	1.000
1729.0	114	10.1	2.231	0.325	328	0.445	0.169	1.000
1729.2	114	10.9	2.269	0.327	288	0.546	0.051	1.000
1729.4	113	11.5	2.297	0.342	295	0.674	0.000	1.000
1729.6	114	12.0	2.280	0.372	294	0.754	0.000	1.000
1729.8	121	11.5	2.241	0.386	328	0.711	0.000	1.000
1730.0	119	11.4	2.220	0.366	312	0.584	0.018	1.000
1730.2	116	11.6	2.240	0.327	290	0.473	0.135	1.000
1730.4	119	10.8	2.223	0.319	292	0.401	0.226	1.000
1730.6	122	9.4	2.193	0.358	327	0.485	0.136	1.000
1730.8	122	8.2	2.169	0.414	366	0.653	0.000	1.000
1731.0	119	7.8	2.150	0.423	367	0.641	0.000	1.000
1731.2	120	7.9	2.147	0.397	364	0.528	0.094	1.000
1731.4	121	8.2	2.168	0.379	363	0.507	0.117	1.000

1731.6	120	8.3	2.217	0.371	359	0.596	0.005	1.000
1731.8	114	9.2	2.236	0.359	345	0.592	0.008	1.000
1732.0	109	10.6	2.242	0.365	327	0.633	0.000	1.000
1732.2	110	12.4	2.261	0.364	307	0.675	0.000	1.000
1732.4	116	13.6	2.240	0.366	298	0.631	0.000	1.000
1732.6	113	12.9	2.206	0.364	315	0.540	0.068	1.000
1732.8	109	14.1	2.280	0.372	292	0.751	0.000	1.000
1733.0	107	13.7	2.336	0.351	296	0.804	0.000	1.000
1733.2	112	14.1	2.272	0.383	281	0.778	0.000	1.000
1733.4	114	13.4	2.267	0.398	306	0.826	0.000	1.000
1733.6	117	12.8	2.251	0.372	317	0.681	0.000	0.987
1733.8	117	13.8	2.237	0.359	321	0.594	0.007	0.962
1734.0	115	13.8	2.156	0.376	335	0.470	0.169	0.962
1734.2	118	14.0	2.112	0.395	328	0.437	0.235	0.962
1734.4	119	13.0	2.225	0.419	344	0.806	0.000	0.962
1734.6	117	13.1	2.332	0.397	327	0.980	0.000	0.975
1734.8	120	14.0	2.379	0.351	322	0.908	0.000	1.000
1735.0	126	14.3	2.379	0.333	321	0.835	0.000	1.000
1735.2	130	15.6	2.418	0.343	323	0.973	0.000	1.000
1735.4	122	16.6	2.448	0.335	318	1.000	0.000	1.000
1735.6	116	21.4	2.462	0.337	303	1.000	0.000	1.000
1735.8	108	27.2	2.464	0.311	302	0.953	0.000	1.000
1736.0	91	24.4	2.401	0.277	296	0.667	0.000	1.000
1736.2	72	19.4	2.329	0.247	299	0.371	0.167	1.000
1736.4	58	14.7	2.296	0.231	298	0.226	0.197	1.000
1736.6	55	13.0	2.298	0.237	298	0.256	0.193	1.000
1736.8	50	14.8	2.298	0.251	298	0.312	0.189	1.000
1737.0	50	16.4	2.291	0.254	300	0.309	0.193	1.000
1737.2	50	18.2	2.290	0.265	298	0.349	0.192	1.000
1737.4	49	17.3	2.290	0.253	299	0.299	0.195	1.000
1737.6	48	20.0	2.289	0.251	291	0.286	0.196	1.000
1737.8	46	23.1	2.276	0.254	292	0.270	0.205	0.988
1738.0	43	32.5	2.257	0.253	291	0.220	0.221	0.908
1738.2	38	39.4	2.241	0.256	296	0.196	0.232	0.846
1738.4	36	37.4	2.221	0.261	299	0.165	0.247	0.829
1738.6	31	34.9	2.212	0.246	304	0.085	0.259	0.847
1738.8	27	33.2	2.216	0.238	308	0.059	0.260	0.861
1739.0	26	32.3	2.216	0.242	310	0.077	0.258	0.862
1739.2	26	32.8	2.220	0.244	306	0.095	0.254	0.862
1739.4	29	34.1	2.220	0.255	299	0.139	0.250	0.873
1739.6	31	34.7	2.208	0.247	295	0.074	0.263	0.900
1739.8	29	33.1	2.207	0.221	295	0.000	0.268	0.943
1740.0	29	29.6	2.213	0.224	298	0.000	0.266	1.000
1740.2	30	25.2	2.252	0.241	296	0.158	0.229	1.000
1740.4	30	20.6	2.257	0.240	295	0.167	0.225	1.000
1740.6	32	17.6	2.246	0.244	296	0.156	0.233	1.000
1740.8	32	16.3	2.240	0.254	295	0.181	0.234	1.000
1741.0	34	15.7	2.228	0.246	293	0.120	0.247	1.000
1741.2	32	15.5	2.222	0.250	292	0.124	0.250	1.000
1741.4	32	16.2	2.281	0.244	285	0.242	0.204	1.000
1741.6	34	17.7	2.319	0.212	280	0.208	0.184	1.000
1741.8	35	19.3	2.293	0.207	277	0.123	0.207	1.000
1742.0	31	17.0	2.261	0.227	288	0.125	0.226	1.000
1742.2	40	13.8	2.258	0.227	297	0.118	0.229	1.000
1742.4	55	12.8	2.292	0.203	299	0.104	0.210	1.000
1742.6	70	14.9	2.327	0.206	293	0.200	0.180	1.000
1742.8	71	21.8	2.353	0.228	276	0.353	0.154	1.000
1743.0	67	25.8	2.363	0.236	276	0.409	0.139	1.000
1743.2	60	26.9	2.355	0.219	276	0.323	0.155	1.000
1743.4	56	22.3	2.326	0.208	290	0.208	0.180	1.000
1743.6	55	20.7	2.310	0.201	292	0.140	0.196	1.000
1743.8	53	21.1	2.303	0.204	293	0.136	0.200	1.000
1744.0	45	22.4	2.335	0.208	295	0.227	0.174	1.000
1744.2	42	26.5	2.351	0.201	283	0.241	0.163	1.000
1744.4	41	26.2	2.315	0.196	287	0.134	0.193	1.000

1744.6	38	27.6	2.262	0.215	290	0.082	0.229	1.000
1744.8	36	17.4	2.240	0.234	311	0.102	0.241	1.000
1745.0	44	13.2	2.266	0.235	311	0.169	0.220	1.000
1745.2	63	14.4	2.365	0.213	295	0.322	0.149	1.000
1745.4	81	20.5	2.477	0.197	275	0.531	0.025	1.000
1745.6	78	29.6	2.447	0.214	266	0.524	0.034	1.000
1745.8	68	28.2	2.389	0.213	273	0.381	0.132	1.000
1746.0	65	21.0	2.386	0.216	283	0.384	0.133	1.000
1746.2	67	21.1	2.382	0.218	284	0.384	0.135	1.000
1746.4	62	25.7	2.342	0.221	286	0.299	0.164	1.000
1746.6	48	34.3	2.280	0.227	296	0.172	0.211	0.959
1746.8	35	38.3	2.253	0.241	305	0.163	0.228	0.891
1747.0	32	35.3	2.251	0.258	312	0.225	0.224	0.833
1747.2	29	30.2	2.244	0.265	312	0.234	0.227	0.844
1747.4	29	27.3	2.242	0.278	311	0.283	0.224	0.894
1747.6	30	25.9	2.256	0.270	308	0.285	0.215	0.946
1747.8	32	24.0	2.269	0.251	307	0.239	0.212	0.961
1748.0	32	23.2	2.258	0.249	303	0.206	0.221	0.969
1748.2	31	24.8	2.247	0.263	304	0.236	0.225	0.983
1748.4	31	27.2	2.233	0.265	306	0.209	0.236	1.000
1748.6	32	26.4	2.223	0.254	306	0.142	0.248	1.000
1748.8	31	20.0	2.223	0.258	310	0.156	0.247	1.000
1749.0	35	15.2	2.242	0.266	306	0.235	0.228	1.000
1749.2	37	15.9	2.272	0.255	298	0.261	0.208	1.000
1749.4	33	21.9	2.267	0.255	298	0.254	0.211	0.993
1749.6	27	35.3	2.237	0.254	302	0.175	0.236	0.957
1749.8	26	38.2	2.223	0.256	310	0.148	0.248	0.957
1750.0	27	26.0	2.231	0.258	310	0.179	0.240	1.000
1750.2	31	18.6	2.260	0.248	304	0.206	0.220	1.000
1750.4	36	17.6	2.268	0.238	297	0.185	0.217	1.000
1750.6	41	17.3	2.257	0.236	291	0.151	0.227	1.000
1750.8	41	22.6	2.253	0.235	294	0.138	0.230	1.000
1751.0	35	26.2	2.248	0.245	297	0.166	0.231	0.975
1751.2	27	33.1	2.227	0.269	304	0.212	0.239	0.896
1751.4	24	42.0	2.217	0.259	308	0.145	0.251	0.848
1751.6	22	37.3	2.217	0.251	307	0.113	0.254	0.850
1751.8	27	33.2	2.231	0.247	305	0.133	0.244	0.891
1752.0	32	31.5	2.238	0.221	302	0.047	0.247	0.922
1752.2	30	31.9	2.234	0.211	301	0.000	0.253	0.950
1752.4	25	33.5	2.219	0.214	304	0.000	0.260	0.967
1752.6	23	34.6	2.207	0.197	306	0.000	0.258	0.958
1752.8	21	35.6	2.209	0.192	306	0.000	0.255	0.941
1753.0	23	35.9	2.217	0.202	303	0.000	0.256	0.942
1753.2	23	35.9	2.211	0.219	303	0.000	0.265	0.967
1753.4	22	32.9	2.207	0.222	303	0.000	0.268	1.000
1753.6	21	27.5	2.205	0.220	308	0.000	0.268	1.000
1753.8	23	19.2	2.199	0.234	311	0.001	0.275	1.000
1754.0	26	14.0	2.222	0.246	307	0.106	0.251	1.000
1754.2	28	11.9	2.265	0.230	295	0.146	0.222	1.000
1754.4	28	13.6	2.286	0.215	288	0.137	0.210	1.000
1754.6	26	18.8	2.261	0.217	288	0.086	0.230	1.000
1754.8	23	28.9	2.223	0.215	293	0.000	0.259	1.000
1755.0	21	45.3	2.203	0.218	301	0.000	0.268	1.000
1755.2	20	42.2	2.201	0.226	301	0.000	0.272	1.000
1755.4	19	25.6	2.224	0.219	301	0.004	0.259	1.000
1755.6	20	19.0	2.332	0.184	279	0.126	0.184	1.000
1755.8	21	20.5	2.477	0.109	243	0.177	0.092	1.000
1756.0	23	35.8	2.466	0.081	221	0.037	0.109	1.000
1756.2	26	72.5	2.341	0.129	230	0.000	0.180	0.991
1756.4	25	81.7	2.275	0.177	265	0.000	0.224	0.943
1756.6	25	54.5	2.262	0.190	286	0.000	0.235	0.924
1756.8	25	42.1	2.266	0.198	289	0.022	0.232	0.988
1757.0	32	30.6	2.279	0.210	290	0.102	0.217	1.000
1757.2	36	23.4	2.299	0.233	282	0.241	0.194	1.000
1757.4	39	19.4	2.312	0.236	286	0.286	0.183	1.000

1757.6	45	18.8	2.324	0.235	283	0.312	0.174	1.000
1757.8	52	20.5	2.333	0.217	287	0.261	0.172	1.000
1758.0	58	22.8	2.313	0.212	290	0.191	0.190	1.000
1758.2	56	22.7	2.298	0.255	295	0.327	0.188	1.000
1758.4	51	17.1	2.253	0.297	294	Coal		
1758.6	45	15.1	1.974	0.332	342	Coal		
1758.8	39	16.0	1.557	0.406	405	Coal		
1759.0	44	23.5	1.369	0.521	430	Coal		
1759.2	55	56.6	1.349	0.563	441	Coal		
1759.4	70	84.9	1.387	0.587	450	Coal		
1759.6	81	69.8	1.484	0.587	451	Coal		
1759.8	91	36.0	1.706	0.524	442	Coal		
1760.0	92	18.6	1.987	0.460	410	Coal		
1760.2	91	10.8	2.101	0.425	398	Coal		
1760.4	90	9.0	2.061	0.416	385	Coal		
1760.6	87	9.3	1.989	0.410	366	Coal		
1760.8	87	10.4	1.988	0.373	341	Coal		
1761.0	83	11.7	1.968	0.342	322	Coal		
1761.2	77	14.2	1.951	0.339	330	Coal		
1761.4	78	18.7	2.116	0.331	293	Coal		
1761.6	80	23.1	2.361	0.276	265	Coal		
1761.8	83	24.8	2.491	0.216	234	Coal		
1762.0	96	25.7	2.458	0.216	257	0.558	0.017	1.000
1762.2	107	27.1	2.430	0.259	282	0.664	0.000	1.000
1762.4	104	30.0	2.401	0.296	287	0.742	0.000	1.000
1762.6	88	25.1	2.381	0.283	298	0.644	0.000	1.000
1762.8	83	19.2	2.370	0.254	292	0.498	0.069	1.000
1763.0	87	18.2	2.372	0.251	286	0.492	0.073	1.000
1763.2	84	20.9	2.398	0.258	283	0.583	0.010	1.000
1763.4	76	25.1	2.387	0.259	279	0.562	0.023	1.000
1763.6	68	22.5	2.342	0.267	284	0.483	0.089	1.000
1763.8	66	21.3	2.329	0.285	285	0.520	0.063	1.000
1764.0	69	19.6	2.358	0.283	294	0.588	0.008	1.000
1764.2	73	20.9	2.384	0.258	286	0.548	0.032	1.000
1764.4	71	22.2	2.395	0.231	286	0.467	0.082	1.000
1764.6	64	23.2	2.371	0.231	286	0.411	0.132	1.000
1764.8	60	24.3	2.339	0.239	293	0.364	0.162	1.000
1765.0	57	22.2	2.314	0.237	297	0.294	0.180	1.000
1765.2	52	21.4	2.302	0.243	297	0.290	0.188	1.000
1765.4	48	21.2	2.294	0.238	297	0.252	0.196	1.000
1765.6	46	20.5	2.279	0.261	299	0.308	0.200	1.000
1765.8	45	18.9	2.271	0.273	303	0.333	0.203	1.000
1766.0	43	16.4	2.270	0.256	306	0.265	0.209	1.000
1766.2	43	18.3	2.281	0.249	301	0.263	0.202	1.000
1766.4	41	21.6	2.273	0.246	297	0.231	0.210	1.000
1766.6	38	25.8	2.256	0.248	296	0.198	0.223	1.000
1766.8	34	24.0	2.252	0.269	297	0.274	0.219	1.000
1767.0	35	19.0	2.279	0.255	294	0.279	0.202	1.000
1767.2	34	17.6	2.289	0.234	294	0.221	0.201	1.000
1767.4	29	20.8	2.266	0.247	296	0.218	0.215	1.000
1767.6	23	27.5	2.235	0.274	303	0.248	0.231	0.938
1767.8	22	33.6	2.223	0.284	309	0.261	0.237	0.858
1768.0	23	35.7	2.232	0.288	310	0.300	0.229	0.800
1768.2	25	35.1	2.236	0.272	308	0.243	0.231	0.800
1768.4	24	34.4	2.235	0.259	307	0.189	0.236	0.800
1768.6	26	33.6	2.223	0.273	307	0.217	0.241	0.809
1768.8	26	32.7	2.207	0.271	310	0.170	0.255	0.827
1769.0	22	30.9	2.200	0.262	311	0.117	0.264	0.848
1769.2	21	28.6	2.213	0.260	312	0.142	0.254	0.882
1769.4	23	26.7	2.227	0.266	311	0.200	0.240	0.942
1769.6	23	25.1	2.239	0.260	309	0.203	0.233	1.000
1769.8	24	22.6	2.240	0.249	306	0.161	0.236	1.000
1770.0	27	18.8	2.235	0.227	304	0.062	0.248	1.000
1770.2	31	14.6	2.242	0.204	300	0.000	0.247	1.000
1770.4	31	13.1	2.264	0.199	297	0.019	0.234	1.000

1770.6	35	12.2	2.267	0.178	301	0.000	0.228	1.000
1770.8	41	11.9	2.257	0.162	302	0.000	0.225	1.000
1771.0	42	12.8	2.242	0.176	297	0.000	0.236	1.000
1771.2	41	15.0	2.250	0.224	301	0.086	0.237	1.000
1771.4	39	21.1	2.250	0.260	302	0.232	0.223	1.000
1771.6	36	23.8	2.264	0.271	307	0.308	0.210	0.983
1771.8	32	24.6	2.247	0.268	302	0.255	0.223	0.903
1772.0	30	25.4	2.214	0.284	306	0.242	0.244	0.888
1772.2	28	26.7	2.196	0.301	305	0.266	0.253	0.899
1772.4	26	22.3	2.189	0.304	309	0.260	0.257	0.913
1772.6	26	15.5	2.167	0.300	314	Coal		
1772.8	36	12.9	2.090	0.312	306	Coal		
1773.0	54	13.0	1.868	0.352	337	Coal		
1773.2	78	15.3	1.718	0.413	394	Coal		
1773.4	95	17.4	1.791	0.456	457	Coal		
1773.6	91	17.6	1.844	0.458	475	Coal		
1773.8	73	19.1	1.622	0.505	476	Coal		
1774.0	63	27.6	1.451	0.561	464	Coal		
1774.2	71	28.5	1.555	0.546	474	Coal		
1774.4	93	20.1	1.803	0.477	486	Coal		
1774.6	117	11.4	2.026	0.452	496	Coal		
1774.8	126	8.3	2.144	0.414	501	Coal		
1775.0	129	7.4	2.190	0.415	489	Coal		
1775.2	125	6.9	2.175	0.423	490	Coal		
1775.4	121	6.5	2.157	0.431	500	Coal		
1775.6	119	6.4	2.152	0.433	499	Coal		
1775.8	118	7.3	2.114	0.445	501	Coal		
1776.0	116	10.1	1.877	0.487	465	Coal		
1776.2	108	17.7	1.677	0.546	427	Coal		
1776.4	97	25.6	1.655	0.550	424	Coal		
1776.6	94	22.3	1.785	0.524	427	Coal		
1776.8	97	14.2	1.902	0.497	438	Coal		
1777.0	101	11.0	1.930	0.472	429	Coal		
1777.2	108	9.3	1.936	0.472	438	Coal		
1777.4	117	8.3	1.964	0.473	425	Coal		
1777.6	121	8.4	1.983	0.451	412	Coal		
1777.8	118	8.8	2.002	0.449	400	Coal		
1778.0	113	9.2	2.032	0.457	361	Coal		
1778.2	108	9.6	2.141	0.408	347	Coal		
1778.4	105	9.9	2.273	0.382	330	Coal		
1778.6	104	10.2	2.245	0.371	354	Coal		
1778.8	105	12.0	2.307	0.370	321	Coal		
1779.0	107	13.9	2.422	0.354	310	Coal		
1779.2	105	18.7	2.422	0.336	280	0.954	0.000	1.000
1779.4	103	22.5	2.416	0.322	290	0.882	0.000	1.000
1779.6	102	23.8	2.434	0.307	295	0.869	0.000	1.000
1779.8	102	25.9	2.452	0.307	294	0.910	0.000	1.000
1780.0	99	26.6	2.419	0.314	301	0.858	0.000	1.000
1780.2	87	22.6	2.380	0.322	298	0.794	0.000	1.000
1780.4	78	18.3	2.414	0.304	293	0.804	0.000	1.000
1780.6	79	16.7	2.434	0.258	278	0.669	0.000	1.000
1780.8	75	16.7	2.400	0.236	266	0.499	0.060	1.000
1781.0	64	17.2	2.356	0.237	282	0.397	0.150	1.000
1781.2	63	17.2	2.357	0.253	285	0.462	0.100	1.000
1781.4	58	17.7	2.374	0.264	289	0.547	0.034	1.000
1781.6	49	20.2	2.360	0.260	287	0.498	0.072	1.000
1781.8	41	20.3	2.326	0.249	297	0.372	0.169	1.000
1782.0	36	18.6	2.308	0.236	298	0.274	0.186	1.000
1782.2	35	18.8	2.311	0.223	297	0.231	0.187	1.000
1782.4	36	19.4	2.294	0.219	299	0.174	0.202	1.000
1782.6	39	18.0	2.264	0.236	304	0.169	0.221	1.000
1782.8	40	17.8	2.262	0.247	310	0.208	0.219	1.000
1783.0	45	18.7	2.277	0.256	312	0.282	0.203	1.000
1783.2	45	21.0	2.283	0.238	307	0.224	0.204	1.000
1783.4	42	26.4	2.270	0.229	309	0.156	0.218	1.000

1783.6	35	25.0	2.241	0.234	308	0.105	0.241	1.000
1783.8	29	19.5	2.228	0.237	314	0.087	0.250	1.000
1784.0	32	15.6	2.249	0.246	309	0.173	0.229	1.000
1784.2	39	16.3	2.274	0.240	305	0.209	0.212	1.000
1784.4	38	20.0	2.258	0.236	303	0.153	0.226	1.000
1784.6	33	29.7	2.232	0.239	308	0.102	0.246	1.000
1784.8	29	29.6	2.216	0.238	310	0.061	0.259	1.000
1785.0	30	25.6	2.222	0.232	309	0.050	0.256	1.000
1785.2	30	21.4	2.238	0.230	304	0.083	0.244	1.000
1785.4	33	18.0	2.255	0.234	303	0.139	0.229	1.000
1785.6	35	16.0	2.258	0.240	299	0.172	0.224	1.000
1785.8	33	15.7	2.266	0.239	299	0.187	0.218	1.000
1786.0	33	18.8	2.278	0.236	300	0.202	0.210	1.000
1786.2	32	25.0	2.269	0.223	301	0.131	0.221	1.000
1786.4	31	31.2	2.245	0.231	305	0.103	0.238	1.000
1786.6	31	31.9	2.229	0.234	305	0.076	0.250	1.000
1786.8	31	25.5	2.232	0.224	304	0.041	0.252	1.000
1787.0	38	20.2	2.250	0.213	301	0.041	0.241	1.000
1787.2	40	18.3	2.281	0.215	297	0.124	0.215	1.000
1787.4	37	18.9	2.272	0.217	298	0.114	0.221	1.000
1787.6	33	23.6	2.236	0.232	304	0.085	0.245	1.000
1787.8	27	28.2	2.222	0.237	307	0.070	0.255	0.968
1788.0	24	35.8	2.227	0.244	307	0.110	0.248	0.931
1788.2	25	37.3	2.233	0.233	305	0.080	0.247	0.941
1788.4	26	33.8	2.233	0.197	303	0.000	0.248	0.995
1788.6	29	29.3	2.231	0.186	296	0.000	0.245	1.000
1788.8	28	25.0	2.250	0.198	295	0.000	0.242	1.000
1789.0	28	19.3	2.275	0.211	298	0.096	0.221	1.000
1789.2	30	14.3	2.277	0.206	297	0.080	0.221	1.000
1789.4	33	11.5	2.276	0.203	292	0.065	0.222	1.000
1789.6	33	11.6	2.274	0.204	288	0.063	0.224	1.000
1789.8	30	15.3	2.256	0.230	292	0.123	0.230	1.000
1790.0	26	21.1	2.229	0.245	298	0.119	0.246	1.000
1790.2	27	29.4	2.227	0.233	298	0.066	0.252	1.000
1790.4	28	33.9	2.231	0.216	295	0.008	0.255	0.979
1790.6	29	34.4	2.231	0.229	295	0.062	0.250	1.000
1790.8	27	26.9	2.237	0.244	295	0.134	0.240	1.000
1791.0	27	17.5	2.241	0.227	297	0.075	0.243	1.000
1791.2	30	13.2	2.251	0.223	296	0.085	0.236	1.000
1791.4	36	10.7	2.273	0.235	293	0.186	0.214	1.000
1791.6	42	11.7	2.291	0.237	291	0.238	0.198	1.000
1791.8	41	16.4	2.304	0.241	286	0.287	0.187	1.000
1792.0	32	26.0	2.291	0.234	287	0.226	0.200	1.000
1792.2	27	30.5	2.266	0.220	291	0.106	0.225	1.000
1792.4	30	31.2	2.252	0.229	296	0.114	0.233	0.974
1792.6	35	31.8	2.252	0.227	296	0.105	0.234	0.990
1792.8	34	31.4	2.255	0.210	295	0.043	0.237	0.993
1793.0	28	31.6	2.256	0.201	295	0.009	0.239	1.000
1793.2	25	32.6	2.246	0.207	295	0.009	0.245	1.000
1793.4	26	32.8	2.240	0.215	298	0.027	0.248	1.000
1793.6	30	32.3	2.241	0.220	300	0.047	0.245	0.996
1793.8	32	30.4	2.243	0.218	301	0.045	0.244	0.982
1794.0	29	28.5	2.256	0.230	300	0.126	0.229	0.978
1794.2	28	28.2	2.255	0.248	295	0.195	0.224	0.980
1794.4	27	26.0	2.244	0.256	294	0.199	0.230	0.985
1794.6	27	23.9	2.246	0.264	295	0.236	0.226	1.000
1794.8	27	21.0	2.239	0.272	295	0.252	0.228	1.000
1795.0	29	19.1	2.241	0.260	295	0.211	0.231	1.000
1795.2	29	17.0	2.241	0.266	294	0.234	0.229	1.000
1795.4	28	14.6	2.226	0.271	298	0.215	0.240	1.000
1795.6	29	12.5	2.210	0.248	302	0.084	0.261	1.000
1795.8	29	11.0	2.191	0.245	317	0.026	0.278	1.000
1796.0	30	11.3	2.173	0.256	314	0.025	0.289	1.000
1796.2	32	12.3	2.191	0.257	325	0.078	0.273	1.000
1796.4	35	14.1	2.222	0.253	317	0.134	0.249	1.000

1796.6	36	15.0	2.260	0.242	310	0.184	0.222	1.000
1796.8	37	14.2	2.290	0.223	304	0.180	0.204	1.000
1797.0	45	13.4	2.314	0.222	300	0.236	0.185	1.000
1797.2	60	13.8	2.334	0.259	301	0.430	0.136	1.000
1797.4	68	16.1	2.360	0.293	302	0.629	0.000	1.000
1797.6	56	23.1	2.338	0.287	304	0.556	0.033	0.931
1797.8	37	29.9	2.276	0.264	310	0.309	0.203	0.851
1798.0	28	32.6	2.241	0.257	316	0.195	0.233	0.818
1798.2	26	33.8	2.234	0.271	318	0.235	0.233	0.844
1798.4	28	33.4	2.231	0.249	319	0.143	0.243	0.891
1798.6	27	30.5	2.228	0.224	317	0.033	0.255	0.952
1798.8	25	28.9	2.230	0.217	314	0.008	0.256	1.000
1799.0	24	27.7	2.241	0.209	315	0.002	0.249	1.000
1799.2	29	22.7	2.252	0.193	314	0.000	0.239	1.000
1799.4	37	17.9	2.263	0.194	309	0.000	0.236	1.000
1799.6	47	15.4	2.283	0.206	297	0.093	0.216	1.000
1799.8	46	12.8	2.290	0.205	290	0.107	0.210	1.000
1800.0	41	12.3	2.285	0.217	289	0.142	0.210	1.000
1800.2	38	13.3	2.266	0.213	292	0.083	0.227	1.000
1800.4	36	15.5	2.265	0.213	292	0.079	0.228	1.000
1800.6	37	18.3	2.274	0.203	291	0.060	0.224	1.000
1800.8	38	19.2	2.282	0.205	289	0.088	0.217	1.000
1801.0	37	19.0	2.283	0.207	290	0.098	0.216	1.000
1801.2	38	18.5	2.296	0.207	291	0.130	0.205	1.000
1801.4	39	18.7	2.306	0.194	291	0.103	0.201	1.000
1801.6	39	19.1	2.299	0.198	291	0.100	0.206	1.000
1801.8	40	19.3	2.291	0.211	293	0.133	0.207	1.000
1802.0	39	18.8	2.280	0.219	298	0.140	0.213	1.000
1802.2	37	17.7	2.269	0.224	302	0.134	0.221	1.000
1802.4	38	16.0	2.257	0.241	309	0.172	0.225	1.000
1802.6	41	14.3	2.273	0.257	310	0.274	0.206	1.000
1802.8	44	14.2	2.308	0.248	303	Coal		
1803.0	45	11.7	2.317	0.236	303	Coal		
1803.2	56	11.7	2.242	0.208	288	Coal		
1803.4	79	12.0	1.964	0.230	304	Coal		
1803.6	90	12.5	1.670	0.341	348	Coal		
1803.8	87	16.4	1.540	0.451	403	Coal		
1804.0	82	17.9	1.617	0.419	410	Coal		
1804.2	81	20.6	1.850	0.328	336	Coal		
1804.4	83	21.3	2.044	0.259	270	Coal		
1804.6	87	15.8	2.106	0.270	248	0.807	0.000	1.000
1804.8	88	13.5	2.077	0.295	268	0.823	0.000	1.000
1805.0	91	12.3	2.062	0.306	274	0.870	0.000	1.000
1805.2	95	13.0	2.108	0.300	277	0.932	0.000	1.000
1805.4	98	15.9	2.216	0.249	250	0.978	0.000	1.000
1805.6	99	19.6	2.369	0.198	247	0.982	0.000	1.000
1805.8	98	20.3	2.459	0.183	252	0.976	0.000	1.000
1806.0	101	18.2	2.442	0.230	262	1.000	0.000	1.000
1806.2	104	17.1	2.506	0.251	267	0.818	0.000	1.000
1806.4	103	19.2	2.558	0.218	263	0.809	0.000	1.000
1806.6	93	22.7	2.538	0.182	255	0.621	0.000	1.000
1806.8	89	22.5	2.537	0.183	245	0.619	0.000	1.000
1807.0	93	17.8	2.535	0.193	244	0.656	0.000	1.000
1807.2	100	12.7	2.534	0.233	244	0.999	0.000	1.000
1807.4	101	10.0	2.533	0.267	272	1.000	0.000	1.000
1807.6	101	8.6	2.531	0.314	287	1.000	0.000	1.000
1807.8	104	9.1	2.530	0.327	290	1.000	0.000	1.000
1808.0	103	10.2	2.528	0.314	281	1.000	0.000	1.000
1808.2	105	8.9	2.527	0.340	321	1.000	0.000	1.000
1808.4	108	6.0	2.525	0.394	390	1.000	0.000	1.000
1808.6	111	4.7	2.524	0.394	484	1.000	0.000	1.000
1808.8	118	4.5	2.522	0.373	483	1.000	0.000	1.000
1809.0	130	4.6	2.521	0.379	469	1.000	0.000	1.000
1809.2	129	4.5	2.519	0.386	475	1.000	0.000	1.000
1809.4	121	4.4	2.518	0.389	485	1.000	0.000	1.000

1809.6	117	4.4	2.517	0.378	485	1.000	0.000	1.000
1809.8	121	4.5	2.515	0.355	483	1.000	0.000	1.000
1810.0	123	4.7	2.514	0.365	466	1.000	0.000	1.000
1810.2	122	5.0	2.512	0.340	430	1.000	0.000	1.000
1810.4	120	5.4	2.511	0.364	409	1.000	0.000	1.000
1810.6	120	6.0	2.509	0.394	386	1.000	0.000	1.000
1810.8	122	7.2	2.508	0.390	357	1.000	0.000	1.000
1811.0	123	7.6	2.506	0.347	326	1.000	0.000	1.000
1811.2	125	8.3	2.505	0.344	306	1.000	0.000	1.000
1811.4	112	9.3	2.504	0.349	289	1.000	0.000	1.000
1811.6	111	9.6	2.502	0.292	294	0.973	0.000	1.000
1811.8	117	11.6	2.501	0.262	279	0.849	0.000	1.000
1812.0	118	13.7	2.499	0.243	270	0.767	0.000	1.000
1812.2	115	17.1	2.498	0.227	267	0.699	0.000	1.000
1812.4	109	17.5	2.498	0.236	261	0.738	0.000	1.000
1812.6	95	12.8	2.468	0.229	271	0.637	0.000	1.000
1812.8	84	9.0	2.446	0.218	274	0.538	0.028	1.000
1813.0	78	8.4	2.437	0.206	273	0.466	0.066	1.000
1813.2	74	8.0	2.452	0.207	272	0.509	0.040	1.000
1813.4	71	8.2	2.449	0.224	270	0.569	0.013	1.000
1813.6	70	8.1	2.446	0.219	272	0.543	0.026	1.000
1813.8	65	7.7	2.422	0.202	276	0.414	0.103	1.000
1814.0	57	6.5	2.371	0.208	282	0.316	0.146	1.000
1814.2	50	6.0	2.321	0.212	288	0.213	0.183	1.000
1814.4	43	5.4	2.286	0.224	299	0.172	0.207	1.000
1814.6	41	4.8	2.262	0.234	304	0.156	0.223	1.000
1814.8	42	4.3	2.268	0.232	306	0.162	0.219	1.000
1815.0	46	4.4	2.299	0.230	300	0.230	0.195	1.000
1815.2	44	4.7	2.305	0.241	297	0.287	0.187	1.000
1815.4	40	5.0	2.289	0.227	296	0.192	0.204	1.000
1815.6	43	5.0	2.269	0.221	300	0.120	0.222	1.000
1815.8	42	5.0	2.262	0.230	301	0.141	0.225	0.994
1816.0	39	5.0	2.260	0.252	300	0.225	0.218	1.000
1816.2	38	4.7	2.279	0.250	303	0.263	0.204	1.000
1816.4	40	4.5	2.298	0.246	299	0.290	0.190	1.000
1816.6	42	4.6	2.288	0.234	300	0.217	0.202	1.000
1816.8	42	4.8	2.253	0.237	301	0.145	0.229	0.997
1817.0	42	4.9	2.237	0.242	305	0.126	0.241	0.970
1817.2	41	4.8	2.234	0.245	309	0.130	0.243	0.964
1817.4	39	4.2	2.235	0.257	311	0.183	0.237	0.985
1817.6	38	3.8	2.235	0.257	310	0.182	0.237	1.000
1817.8	38	3.8	2.247	0.241	309	0.149	0.233	1.000
1818.0	37	4.2	2.251	0.238	312	0.145	0.231	0.994
1818.2	37	4.7	2.248	0.238	316	0.139	0.233	0.977
1818.4	39	4.7	2.242	0.232	316	0.101	0.240	0.966
1818.6	41	4.5	2.238	0.236	315	0.106	0.242	0.976
1818.8	42	4.3	2.244	0.237	312	0.126	0.236	1.000
1819.0	38	3.9	2.245	0.242	312	0.145	0.235	1.000
1819.2	38	3.8	2.254	0.248	309	0.192	0.225	1.000
1819.4	38	4.1	2.259	0.244	310	0.188	0.222	1.000
1819.6	33	4.2	2.235	0.234	312	0.090	0.245	1.000
1819.8	39	4.0	2.228	0.247	318	0.126	0.246	1.000
1820.0	51	3.8	2.268	0.251	315	0.238	0.213	1.000
1820.2	56	4.2	2.320	0.229	304	0.275	0.178	1.000
1820.4	56	5.1	2.349	0.219	295	0.306	0.159	1.000
1820.6	57	5.6	2.339	0.240	293	0.365	0.162	1.000
1820.8	50	5.5	2.288	0.272	302	0.372	0.191	0.999
1821.0	40	5.4	2.241	0.285	313	0.309	0.223	0.945
1821.2	36	4.8	2.230	0.283	331	0.274	0.232	0.905
1821.4	37	4.4	2.225	0.281	338	0.253	0.236	0.900
1821.6	38	4.2	2.222	0.283	334	0.256	0.238	0.909
1821.8	38	4.3	2.219	0.281	328	0.239	0.241	0.932
1822.0	39	4.1	2.201	0.290	314	0.234	0.252	0.946
1822.2	39	4.0	2.157	0.325	324		Coal	
1822.4	40	3.7	2.125	0.342	331		Coal	

1822.6	46	4.2	2.108	0.370	327	Coal		
1822.8	50	4.6	2.136	0.345	319	Coal		
1823.0	51	4.6	2.187	0.298	305	Coal		
1823.2	50	4.2	2.211	0.290	306	Coal		
1823.4	43	3.7	2.233	0.290	316	0.310	0.228	1.000
1823.6	41	3.5	2.237	0.273	316	0.253	0.229	1.000
1823.8	40	3.6	2.239	0.256	313	0.187	0.234	0.987
1824.0	39	4.0	2.225	0.275	320	0.232	0.238	0.963
1824.2	37	4.3	2.212	0.301	326	0.306	0.240	0.950
1824.4	38	4.1	2.201	0.280	328	0.191	0.256	0.960
1824.6	41	3.5	2.209	0.262	321	0.139	0.257	0.972
1824.8	45	3.3	2.235	0.248	320	0.146	0.240	0.974
1825.0	41	3.6	2.231	0.244	318	0.119	0.245	0.961
1825.2	35	4.1	2.201	0.253	325	0.085	0.266	0.934
1825.4	31	4.4	2.196	0.262	327	0.107	0.267	0.895
1825.6	30	4.3	2.191	0.251	329	0.051	0.276	0.857
1825.8	29	4.1	2.194	0.235	327	0.000	0.278	0.847
1826.0	29	4.2	2.197	0.229	325	0.058	0.293	0.862
1826.2	27	4.1	2.191	0.232	324	0.045	0.294	0.894
1826.4	34	3.6	2.194	0.238	324	0.099	0.284	0.917
1826.6	54	3.2	2.466	0.267	325	0.327	0.244	0.955
1826.8	77	3.6	2.420	0.283	316	0.652	0.000	0.988
1827.0	92	5.9	2.371	0.290	310	0.893	0.000	1.000
1827.2	94	12.6	2.394	0.289	299	0.699	0.000	0.960
1827.4	87	17.6	2.370	0.279	304	0.599	0.000	0.937
1827.6	76	10.6	2.339	0.248	304	0.402	0.158	0.960
1827.8	66	7.9	2.326	0.220	304	0.254	0.176	0.993
1828.0	58	5.7	2.336	0.222	304	0.289	0.168	1.000
1828.2	55	5.4	2.350	0.213	297	0.288	0.159	1.000
1828.4	55	5.9	2.365	0.226	297	0.373	0.146	1.000
1828.6	54	6.0	2.353	0.253	295	0.454	0.108	1.000
1828.8	52	5.7	2.348	0.243	298	0.400	0.154	1.000
1829.0	52	5.3	2.337	0.230	300	0.319	0.166	1.000
1829.2	60	5.2	2.350	0.214	298	0.288	0.160	1.000
1829.4	75	5.8	2.397	0.234	287	0.483	0.071	1.000
1829.6	89	8.0	2.450	0.259	281	0.714	0.000	1.000
1829.8	92	10.1	2.467	0.255	275	0.739	0.000	1.000
1830.0	91	11.2	2.462	0.239	276	0.660	0.000	1.000
1830.2	89	10.8	2.475	0.249	277	0.732	0.000	1.000
1830.4	86	11.4	2.483	0.242	276	0.723	0.000	1.000
1830.6	80	11.2	2.452	0.230	276	0.601	0.000	1.000
1830.8	69	8.9	2.405	0.221	279	0.453	0.086	1.000
1831.0	59	6.9	2.381	0.205	287	0.330	0.139	1.000
1831.2	54	5.3	2.371	0.212	292	0.334	0.144	1.000
1831.4	47	4.8	2.364	0.230	298	0.386	0.146	1.000
1831.6	45	4.6	2.350	0.236	306	0.377	0.154	1.000
1831.8	42	4.7	2.292	0.235	312	0.232	0.198	1.000
1832.0	39	4.6	2.251	0.224	317	0.088	0.236	1.000
1832.2	35	4.0	2.243	0.220	323	0.054	0.244	1.000
1832.4	41	3.3	2.294	0.233	309	0.229	0.198	1.000
1832.6	60	2.9	2.316	0.276	304	0.455	0.123	1.000
1832.8	83	3.0	2.219	0.355	314	Coal		
1833.0	97	3.5	2.145	0.394	355	Coal		
1833.2	105	3.9	2.191	0.389	373	Coal		
1833.4	105	5.1	2.236	0.372	352	Coal		
1833.6	99	6.7	2.275	0.345	287	Coal		
1833.8	98	8.4	2.285	0.324	230	Coal		
1834.0	102	10.2	2.256	0.331	206	Coal		
1834.2	100	9.4	2.234	0.336	221	Coal		
1834.4	102	7.7	2.227	0.341	298	Coal		
1834.6	102	5.9	2.216	0.352	360	Coal		
1834.8	98	5.2	2.213	0.313	411	Coal		
1835.0	97	5.3	2.227	0.268	345	Coal		
1835.2	95	6.4	2.213	0.271	289	Coal		
1835.4	94	7.6	2.130	0.296	246	Coal		

1835.6	95	9.0	2.078	0.315	275	0.940	0.000	1.000
1835.8	99	9.9	2.151	0.303	281	0.986	0.000	1.000
1836.0	101	11.0	2.245	0.277	265	1.000	0.000	1.000
1836.2	104	11.9	2.270	0.269	255	1.000	0.000	1.000
1836.4	109	12.1	2.212	0.284	257	1.000	0.000	1.000
1836.6	108	11.5	2.125	0.278	262	1.000	0.000	1.000
1836.8	105	11.1	2.067	0.274	259	1.000	0.000	1.000
1837.0	107	10.6	2.061	0.261	260	1.000	0.000	1.000
1837.2	108	9.2	2.136	0.258	281	1.000	0.000	1.000
1837.4	102	8.3	2.245	0.270	307	1.000	0.000	1.000
1837.6	96	7.7	2.266	0.288	314	0.952	0.000	1.000
1837.8	94	7.6	2.238	0.278	285	0.917	0.000	1.000
1838.0	93	8.2	2.162	0.262	264	0.900	0.000	1.000
1838.2	102	9.3	2.118	0.254	254	1.000	0.000	1.000
1838.4	115	11.6	2.149	0.245	263	1.000	0.000	1.000
1838.6	122	12.0	2.215	0.246	265	1.000	0.000	1.000
1838.8	121	11.6	2.222	0.268	277	1.000	0.000	1.000
1839.0	119	10.0	2.219	0.308	312	Coal		
1839.2	119	7.8	2.222	0.346	361	Coal		
1839.4	118	6.2	2.209	0.368	396	Coal		
1839.6	122	5.1	2.211	0.387	416	Coal		
1839.8	131	4.6	2.241	0.372	426	Coal		
1840.0	126	4.5	2.260	0.370	422	Coal		
1840.2	127	4.5	2.254	0.382	428	Coal		
1840.4	126	4.8	2.225	0.395	414	Coal		
1840.6	116	6.2	2.207	0.382	380	Coal		
1840.8	116	9.2	2.237	0.319	334	Coal		
1841.0	120	10.7	2.269	0.278	292	Coal		
1841.2	121	10.5	2.260	0.288	284	Coal		
1841.4	117	9.0	2.219	0.324	306	Coal		
1841.6	114	8.2	2.173	0.374	333	Coal		
1841.8	107	8.5	2.175	0.387	332	Coal		
1842.0	100	8.3	2.271	0.347	337	Coal		
1842.2	99	8.3	2.357	0.302	311	Coal		
1842.4	100	8.2	2.383	0.292	300	Coal		
1842.6	98	8.6	2.405	0.287	276	Coal		
1842.8	95	9.2	2.427	0.275	274	0.723	0.000	1.000
1843.0	101	9.4	2.454	0.288	273	0.837	0.000	1.000
1843.2	108	9.8	2.481	0.295	268	0.933	0.000	1.000
1843.4	109	10.7	2.503	0.286	266	0.949	0.000	1.000
1843.6	113	11.7	2.532	0.251	262	0.881	0.000	1.000
1843.8	122	12.8	2.538	0.247	260	0.879	0.000	1.000
1844.0	125	13.5	2.552	0.263	262	0.976	0.000	1.000
1844.2	122	13.6	2.570	0.263	265	1.000	0.000	1.000
1844.4	117	13.9	2.571	0.243	264	0.944	0.000	1.000
1844.6	110	13.8	2.552	0.244	260	0.902	0.000	1.000
1844.8	98	12.5	2.522	0.237	259	0.798	0.000	1.000
1845.0	88	11.4	2.503	0.223	254	0.696	0.000	1.000
1845.2	87	11.5	2.502	0.215	257	0.661	0.000	0.996
1845.4	90	12.6	2.481	0.229	262	0.666	0.000	1.000
1845.6	83	11.8	2.427	0.223	273	0.513	0.044	1.000
1845.8	77	9.3	2.414	0.219	281	0.465	0.076	1.000
1846.0	72	6.9	2.425	0.214	285	0.471	0.068	1.000
1846.2	68	6.4	2.420	0.221	283	0.488	0.060	1.000
1846.4	69	6.4	2.403	0.224	281	0.459	0.083	1.000
1846.6	72	6.6	2.400	0.220	282	0.433	0.102	1.000
1846.8	72	7.3	2.410	0.221	282	0.464	0.078	1.000
1847.0	68	7.1	2.425	0.232	281	0.545	0.028	1.000
1847.2	65	6.5	2.412	0.232	286	0.513	0.048	1.000
1847.4	68	6.3	2.400	0.226	286	0.458	0.085	1.000
1847.6	70	6.4	2.403	0.228	287	0.476	0.073	1.000
1847.8	66	6.6	2.401	0.239	285	0.515	0.050	1.000
1848.0	63	6.5	2.390	0.241	287	0.493	0.067	1.000
1848.2	68	6.0	2.374	0.232	289	0.418	0.126	1.000
1848.4	69	5.9	2.365	0.222	292	0.360	0.146	1.000

1848.6	66	5.8	2.342	0.215	293	0.272	0.165	1.000
1848.8	64	5.6	2.328	0.215	293	0.239	0.177	1.000
1849.0	63	5.3	2.325	0.220	295	0.252	0.177	1.000
1849.2	58	4.9	2.330	0.223	299	0.275	0.172	0.982
1849.4	62	5.1	2.318	0.240	303	0.317	0.177	0.956
1849.6	75	6.6	2.311	0.263	309	0.391	0.176	0.941
1849.8	81	8.0	2.359	0.267	303	0.526	0.052	0.927
1850.0	77	9.2	2.396	0.249	297	0.544	0.033	0.940
1850.2	72	8.3	2.396	0.244	290	0.521	0.047	1.000
1850.4	66	7.4	2.385	0.253	293	0.530	0.044	1.000
1850.6	50	6.2	2.368	0.246	298	0.460	0.097	1.000
1850.8	40	4.8	2.346	0.228	301	0.335	0.160	1.000
1851.0	44	4.1	2.346	0.214	299	0.278	0.163	1.000
1851.2	47	4.2	2.342	0.221	291	0.299	0.164	1.000
1851.4	42	4.6	2.308	0.225	290	0.231	0.189	1.000
1851.6	34	4.5	2.276	0.215	296	0.114	0.218	1.000
1851.8	34	4.1	2.278	0.209	299	0.097	0.218	1.000
1852.0	39	4.2	2.309	0.213	294	0.187	0.192	0.999
1852.2	38	4.4	2.302	0.219	291	0.193	0.196	0.987
1852.4	33	4.7	2.258	0.238	296	0.163	0.225	0.982
1852.6	34	4.3	2.244	0.240	305	0.137	0.236	0.971
1852.8	40	4.1	2.271	0.226	300	0.144	0.219	0.950
1853.0	42	4.1	2.291	0.215	292	0.150	0.206	0.953
1853.2	39	4.6	2.275	0.209	287	0.086	0.221	0.952
1853.4	36	4.6	2.258	0.207	294	0.040	0.235	0.934
1853.6	31	4.5	2.250	0.208	298	0.022	0.242	0.903
1853.8	29	4.4	2.245	0.206	302	0.000	0.247	0.884
1854.0	27	4.4	2.237	0.216	305	0.025	0.250	0.868
1854.2	27	4.4	2.220	0.231	310	0.043	0.258	0.857
1854.4	27	4.4	2.212	0.246	313	0.083	0.260	0.851
1854.6	26	4.2	2.215	0.247	314	0.095	0.257	0.847
1854.8	27	4.2	2.229	0.249	314	0.134	0.245	0.853
1855.0	28	4.2	2.225	0.258	313	0.160	0.245	0.873
1855.2	28	4.0	2.214	0.250	313	0.101	0.257	0.905
1855.4	29	3.7	2.218	0.238	313	0.065	0.257	0.944
1855.6	34	3.4	2.242	0.225	310	0.069	0.243	0.973
1855.8	35	3.3	2.256	0.222	305	0.091	0.233	0.991
1856.0	32	3.3	2.239	0.245	306	0.143	0.238	0.987
1856.2	29	3.4	2.226	0.262	311	0.180	0.243	0.961
1856.4	29	3.6	2.219	0.253	312	0.127	0.252	0.924
1856.6	33	3.8	2.212	0.243	311	0.072	0.261	0.901
1856.8	37	3.9	2.215	0.242	307	0.075	0.258	0.881
1857.0	39	3.9	2.223	0.258	302	0.156	0.247	0.868
1857.2	38	3.9	2.212	0.267	304	0.164	0.253	0.862
1857.4	32	4.0	2.208	0.270	307	0.169	0.255	0.863
1857.6	28	3.9	2.204	0.261	310	0.124	0.261	0.868
1857.8	28	3.8	2.209	0.241	310	0.056	0.264	0.877
1858.0	29	3.6	2.213	0.235	307	0.040	0.263	0.884
1858.2	29	3.5	2.204	0.248	307	0.071	0.266	0.881
1858.4	29	3.6	2.202	0.253	306	0.085	0.266	0.867
1858.6	29	3.8	2.199	0.258	309	0.099	0.266	0.848
1858.8	26	4.0	2.196	0.259	309	0.095	0.269	0.836
1859.0	25	4.1	2.196	0.242	310	0.028	0.274	0.830
1859.2	25	4.0	2.199	0.232	311	0.000	0.275	0.837
1859.4	25	3.9	2.201	0.247	309	0.059	0.269	0.854
1859.6	26	3.8	2.214	0.256	309	0.127	0.255	0.867
1859.8	24	3.8	2.226	0.246	306	0.117	0.248	0.872
1860.0	21	3.9	2.222	0.244	306	0.098	0.252	0.877
1860.2	21	3.8	2.215	0.260	303	0.146	0.253	0.879
1860.4	22	3.9	2.221	0.259	304	0.156	0.248	0.878
1860.6	24	3.9	2.226	0.252	303	0.139	0.247	0.885
1860.8	24	3.9	2.230	0.244	303	0.118	0.246	0.909
1861.0	24	3.7	2.225	0.237	304	0.079	0.252	0.947
1861.2	24	3.3	2.229	0.221	303	0.025	0.254	0.997
1861.4	26	3.0	2.243	0.223	300	0.068	0.242	1.000

1861.6	29	3.1	2.275	0.226	293	0.157	0.215	1.000
1861.8	33	3.5	2.283	0.217	289	0.140	0.212	1.000
1862.0	32	3.9	2.251	0.221	292	0.080	0.236	0.964
1862.2	28	4.2	2.221	0.233	300	0.053	0.257	0.913
1862.4	27	4.1	2.221	0.227	306	0.028	0.259	0.883
1862.6	28	4.1	2.224	0.229	306	0.044	0.256	0.900
1862.8	32	3.8	2.234	0.223	304	0.043	0.250	0.937
1863.0	38	3.7	2.269	0.208	299	0.067	0.227	0.952
1863.2	38	3.6	2.270	0.209	297	0.075	0.225	0.955
1863.4	35	3.7	2.241	0.229	303	0.085	0.242	0.948
1863.6	35	3.8	2.226	0.234	310	0.068	0.253	0.920
1863.8	32	4.0	2.236	0.243	313	0.128	0.241	0.893
1864.0	31	4.0	2.230	0.265	314	0.203	0.238	0.896
1864.2	31	3.7	2.216	0.281	321	0.233	0.244	0.932
1864.4	34	3.3	2.209	0.275	324	0.194	0.251	0.955
1864.6	37	2.8	2.229	0.261	325	0.182	0.241	0.980
1864.8	39	2.9	2.232	0.285	303	Coal		
1865.0	37	3.7	1.999	0.385	328	Coal		
1865.2	40	6.4	1.649	0.510	357	Coal		
1865.4	59	10.8	1.633	0.529	411	Coal		
1865.6	83	9.9	1.931	0.466	415	Coal		
1865.8	95	7.0	2.148	0.423	419	Coal		
1866.0	96	5.6	2.202	0.412	409	Coal		
1866.2	97	5.8	2.258	0.399	385	Coal		
1866.4	100	6.6	2.313	0.371	373	Coal		
1866.6	96	7.7	2.355	0.338	333	Coal		
1866.8	91	10.0	2.427	0.278	298	Coal		
1867.0	83	11.5	2.471	0.219	265	Coal		
1867.2	77	9.8	2.435	0.183	255	0.373	0.105	1.000
1867.4	72	7.7	2.390	0.191	271	0.294	0.135	1.000
1867.6	68	6.4	2.388	0.207	275	0.355	0.134	1.000
1867.8	68	6.7	2.391	0.225	281	0.434	0.106	1.000
1868.0	71	7.2	2.396	0.216	278	0.407	0.122	1.000
1868.2	80	8.4	2.401	0.200	272	0.355	0.126	1.000
1868.4	92	9.8	2.399	0.198	269	Coal		
1868.6	97	11.3	2.274	0.237	262	Coal		
1868.8	97	10.4	2.120	0.307	307	Coal		
1869.0	103	9.1	2.173	0.344	318	Coal		
1869.2	107	8.6	2.372	0.315	312	Coal		
1869.4	110	10.2	2.449	0.291	262	Coal		
1869.6	115	11.4	2.395	0.310	263	0.782	0.000	1.000
1869.8	120	11.2	2.448	0.314	263	0.927	0.000	1.000
1870.0	121	9.9	2.460	0.327	289	1.000	0.000	1.000
1870.2	118	8.6	2.405	0.334	303	0.907	0.000	1.000
1870.4	115	8.8	2.461	0.286	300	0.846	0.000	1.000
1870.6	112	10.5	2.523	0.252	281	0.861	0.000	1.000
1870.8	107	14.6	2.528	0.250	255	0.865	0.000	1.000
1871.0	101	16.3	2.503	0.262	253	0.853	0.000	0.981
1871.2	89	11.4	2.417	0.256	258	0.623	0.000	0.980
1871.4	73	7.4	2.360	0.235	273	0.399	0.148	0.983
1871.6	56	5.7	2.332	0.216	286	0.253	0.173	0.969
1871.8	49	4.4	2.315	0.203	300	0.161	0.191	0.949
1872.0	53	4.9	2.301	0.205	301	0.134	0.201	0.931
1872.2	55	4.6	2.282	0.211	304	0.113	0.215	0.899
1872.4	50	5.0	2.247	0.215	308	0.043	0.242	0.871
1872.6	49	4.5	2.232	0.219	311	0.024	0.253	0.873
1872.8	50	4.4	2.259	0.234	306	0.147	0.226	0.881
1873.0	48	4.5	2.296	0.256	298	0.326	0.189	0.920
1873.2	47	4.7	2.300	0.260	299	0.351	0.186	0.957
1873.4	48	4.5	2.314	0.246	299	0.329	0.179	0.982
1873.6	52	4.6	2.331	0.261	297	0.433	0.136	0.995
1873.8	52	5.1	2.336	0.273	294	0.491	0.085	1.000
1874.0	50	5.2	2.338	0.255	294	0.427	0.137	1.000
1874.2	48	5.1	2.320	0.247	303	0.350	0.174	1.000
1874.4	53	4.1	2.302	0.249	306	0.312	0.187	1.000

1874.6	69	4.4	2.339	0.251	298	0.411	0.150	1.000
1874.8	94	5.9	2.416	0.260	293	0.635	0.000	1.000
1875.0	109	11.9	2.420	0.279	285	0.721	0.000	1.000
1875.2	106	15.7	2.380	0.293	293	0.680	0.000	0.960
1875.4	97	13.4	2.335	0.314	306	0.656	0.000	0.925
1875.6	87	7.8	2.299	0.304	313	0.525	0.065	0.921
1875.8	69	5.5	2.281	0.269	311	0.343	0.197	0.920
1876.0	53	4.1	2.280	0.228	307	0.176	0.211	0.919
1876.2	45	3.8	2.279	0.219	305	0.137	0.215	0.967
1876.4	37	3.9	2.283	0.237	304	0.217	0.205	1.000
1876.6	31	4.0	2.303	0.256	304	0.345	0.184	1.000
1876.8	29	4.0	2.310	0.263	304	0.389	0.177	1.000
1877.0	34	4.0	2.287	0.246	305	0.266	0.198	0.988
1877.2	31	3.9	2.259	0.225	304	0.111	0.229	0.978
1877.4	29	3.8	2.248	0.226	303	0.089	0.237	0.982
1877.6	31	3.4	2.245	0.218	314	0.049	0.243	0.978
1877.8	44	3.0	2.256	0.191	311	0.000	0.237	0.953
1878.0	69	3.3	2.221	0.172	296	0.000	0.243	0.929
1878.2	82	4.1	2.163	0.219	285	0.000	0.284	0.890
1878.4	69	6.0	2.170	0.283	283	0.126	0.281	0.835
1878.6	46	6.5	2.202	0.302	301	0.282	0.248	0.813
1878.8	35	4.9	2.215	0.292	316	0.273	0.241	0.849
1879.0	35	3.9	2.224	0.287	322	0.277	0.235	0.913
1879.2	37	3.5	2.257	0.258	312	0.238	0.219	0.988
1879.4	38	3.5	2.304	0.238	301	0.273	0.188	1.000
1879.6	42	3.5	2.319	0.236	294	0.303	0.177	1.000
1879.8	45	3.8	2.313	0.242	292	0.310	0.181	1.000
1880.0	50	4.1	2.329	0.238	293	0.335	0.169	1.000
1880.2	54	4.7	2.344	0.245	291	0.398	0.157	1.000
1880.4	55	5.0	2.344	0.253	288	0.431	0.131	1.000
1880.6	56	4.8	2.319	0.257	293	0.389	0.172	1.000
1880.8	55	4.2	2.293	0.271	297	0.379	0.188	1.000
1881.0	51	4.0	2.289	0.276	300	0.389	0.189	1.000
1881.2	49	3.8	2.300	0.262	303	0.359	0.185	1.000
1881.4	49	3.9	2.312	0.237	302	0.291	0.182	1.000
1881.6	50	4.0	2.338	0.228	299	0.314	0.165	1.000
1881.8	53	4.5	2.339	0.229	297	0.325	0.164	1.000
1882.0	54	4.5	2.326	0.234	296	0.312	0.173	1.000
1882.2	52	4.3	2.305	0.239	298	0.278	0.187	1.000
1882.4	53	3.9	2.291	0.241	298	0.255	0.197	1.000
1882.6	60	4.0	2.307	0.235	300	0.268	0.187	1.000
1882.8	80	5.2	2.360	0.256	287	0.482	0.084	1.000
1883.0	94	9.6	2.480	0.271	271	0.835	0.000	1.000
1883.2	101	17.8	2.542	0.238	246	0.852	0.000	1.000
1883.4	103	18.8	2.566	0.201	237	0.762	0.000	1.000
1883.6	100	19.0	2.583	0.191	237	0.764	0.000	1.000
1883.8	96	18.3	2.589	0.197	241	0.801	0.000	1.000
1884.0	103	18.1	2.580	0.197	244	0.782	0.000	1.000
1884.2	109	18.4	2.570	0.198	244	0.760	0.000	1.000
1884.4	107	18.9	2.559	0.192	244	0.706	0.000	1.000
1884.6	98	17.3	2.534	0.195	247	0.662	0.000	1.000
1884.8	81	13.4	2.503	0.219	254	0.680	0.000	1.000
1885.0	77	8.2	2.451	0.236	271	0.624	0.000	1.000
1885.2	77	6.3	2.421	0.232	280	0.537	0.033	1.000
1885.4	75	5.6	2.419	0.230	283	0.520	0.042	1.000
1885.6	75	5.4	2.413	0.235	283	0.528	0.039	1.000
1885.8	74	5.6	2.400	0.229	284	0.472	0.076	1.000
1886.0	71	5.6	2.381	0.225	285	0.411	0.127	1.000
1886.2	65	5.4	2.362	0.227	288	0.372	0.148	1.000
1886.4	61	5.3	2.330	0.250	288	0.384	0.166	0.968
1886.6	55	4.9	2.285	0.258	293	0.309	0.197	0.919
1886.8	45	4.5	2.265	0.259	294	0.264	0.212	0.884
1887.0	40	4.1	2.259	0.265	303	0.271	0.215	0.882
1887.2	38	3.8	2.245	0.249	308	0.174	0.232	0.899
1887.4	38	3.5	2.240	0.235	315	0.108	0.241	0.909

1887.6	38	3.2	2.230	0.233	313	0.077	0.249	0.910
1887.8	38	3.1	2.208	0.238	315	0.043	0.266	0.921
1888.0	45	3.2	2.211	0.234	315	0.033	0.265	0.956
1888.2	57	3.6	2.272	0.218	304	0.115	0.221	1.000
1888.4	64	4.4	2.350	0.226	294	0.336	0.157	1.000
1888.6	64	5.0	2.390	0.242	287	0.496	0.064	1.000
1888.8	57	5.0	2.357	0.228	287	0.364	0.151	1.000
1889.0	54	4.8	2.325	0.233	291	0.305	0.173	1.000
1889.2	51	4.5	2.296	0.232	294	0.228	0.197	0.953
1889.4	49	4.2	2.260	0.227	298	0.123	0.227	0.935
1889.6	51	4.1	2.269	0.236	297	0.182	0.217	0.964
1889.8	50	4.4	2.314	0.239	289	0.301	0.180	0.998
1890.0	51	4.8	2.370	0.236	281	0.424	0.124	1.000
1890.2	54	5.7	2.375	0.225	275	0.393	0.139	1.000
1890.4	53	5.0	2.345	0.228	287	0.332	0.160	1.000
1890.6	51	4.7	2.303	0.236	291	Coal		
1890.8	47	4.0	2.268	0.234	293	Coal		
1891.0	49	3.6	2.170	0.233	291	Coal		
1891.2	60	3.7	1.962	0.237	304	Coal		
1891.4	79	3.9	1.829	0.306	359	Coal		
1891.6	94	5.1	1.911	0.356	372	Coal		
1891.8	95	5.9	2.119	0.361	408	Coal		
1892.0	97	7.3	2.309	0.326	329	Coal		
1892.2	102	8.7	2.413	0.324	286	Coal		
1892.4	105	9.3	2.389	0.344	266	Coal		
1892.6	103	9.2	2.411	0.339	272	0.939	0.000	1.000
1892.8	105	9.3	2.493	0.288	280	0.931	0.000	1.000
1893.0	102	11.0	2.537	0.270	256	0.968	0.000	1.000
1893.2	95	13.0	2.546	0.245	263	0.892	0.000	1.000
1893.4	93	15.1	2.567	0.227	244	0.866	0.000	1.000
1893.6	98	15.4	2.562	0.224	243	0.845	0.000	1.000
1893.8	104	13.5	2.507	0.227	248	0.725	0.000	1.000
1894.0	106	8.5	2.397	0.277	276	Coal		
1894.2	108	6.1	2.295	0.371	321	Coal		
1894.4	109	5.0	2.284	0.396	351	Coal		
1894.6	97	5.6	2.406	0.305	325	Coal		
1894.8	88	8.0	2.529	0.221	277	Coal		
1895.0	90	13.1	2.548	0.190	234	0.672	0.000	1.000
1895.2	94	16.6	2.534	0.200	236	0.680	0.000	1.000
1895.4	101	15.6	2.529	0.220	250	0.748	0.000	1.000
1895.6	107	14.7	2.540	0.236	261	0.841	0.000	1.000
1895.8	105	14.7	2.535	0.237	264	0.831	0.000	1.000
1896.0	94	14.1	2.523	0.229	257	0.769	0.000	1.000
1896.2	79	9.5	2.471	0.222	256	0.618	0.000	1.000
1896.4	60	6.6	2.393	0.227	267	0.446	0.097	1.000
1896.6	48	4.8	2.341	0.229	288	0.327	0.163	1.000
1896.8	41	3.5	2.310	0.216	301	0.202	0.190	1.000
1897.0	39	3.5	2.299	0.224	304	0.203	0.197	1.000
1897.2	49	4.0	2.304	0.229	301	0.238	0.191	1.000
1897.4	65	4.8	2.347	0.218	289	0.298	0.161	1.000
1897.6	76	6.1	2.400	0.218	277	0.429	0.105	1.000
1897.8	80	6.5	2.413	0.227	272	0.493	0.059	1.000
1898.0	80	6.2	2.405	0.223	277	0.459	0.083	1.000
1898.2	78	6.0	2.407	0.215	280	0.432	0.099	1.000
1898.4	76	6.5	2.422	0.213	279	0.459	0.076	1.000
1898.6	69	6.6	2.405	0.211	276	0.411	0.113	1.000
1898.8	57	5.6	2.375	0.210	280	0.336	0.142	1.000
1899.0	52	4.8	2.351	0.212	288	0.284	0.160	1.000
1899.2	50	4.2	2.344	0.210	291	0.257	0.166	1.000
1899.4	50	4.2	2.345	0.211	290	0.266	0.164	1.000
1899.6	49	4.4	2.314	0.222	294	0.234	0.185	0.990
1899.8	43	4.2	2.281	0.229	300	0.182	0.209	0.934
1900.0	39	4.2	2.259	0.224	309	0.110	0.229	0.875
1900.2	33	4.1	2.243	0.222	313	0.060	0.243	0.847
1900.4	31	4.2	2.239	0.224	309	0.062	0.245	0.835

1900.6	33	4.0	2.240	0.248	308	0.158	0.236	0.834
1900.8	33	3.8	2.233	0.258	308	0.181	0.238	0.843
1901.0	31	3.7	2.232	0.251	308	0.150	0.242	0.864
1901.2	32	3.6	2.242	0.252	309	0.179	0.233	0.888
1901.4	34	3.5	2.254	0.242	305	0.166	0.227	0.908
1901.6	34	3.4	2.259	0.229	305	0.130	0.227	0.925
1901.8	32	3.3	2.250	0.238	304	0.141	0.231	0.943
1902.0	32	3.2	2.243	0.262	305	0.222	0.229	0.964
1902.2	31	3.1	2.249	0.258	303	0.221	0.225	0.982
1902.4	33	3.1	2.270	0.236	303	0.181	0.216	0.991
1902.6	36	3.1	2.273	0.222	302	0.132	0.219	1.000
1902.8	36	3.1	2.256	0.227	303	0.113	0.230	1.000
1903.0	35	3.0	2.254	0.233	305	0.134	0.230	1.000
1903.2	39	2.9	2.269	0.245	305	0.218	0.214	1.000
1903.4	41	3.0	2.289	0.231	301	0.208	0.202	1.000
1903.6	37	3.2	2.282	0.211	300	0.112	0.215	0.981
1903.8	34	3.7	2.261	0.231	300	0.141	0.225	0.938
1904.0	31	3.9	2.245	0.247	304	0.168	0.232	0.889
1904.2	28	3.8	2.239	0.240	306	0.126	0.239	0.863
1904.4	28	3.7	2.238	0.236	308	0.106	0.242	0.869
1904.6	31	3.5	2.236	0.230	309	0.076	0.246	0.887
1904.8	30	3.3	2.244	0.219	308	0.050	0.243	0.907
1905.0	29	3.2	2.240	0.215	307	0.024	0.248	0.927
1905.2	30	3.1	2.239	0.232	305	0.093	0.243	0.948
1905.4	32	3.0	2.238	0.256	306	0.185	0.235	0.971
1905.6	32	2.9	2.242	0.245	307	0.150	0.236	1.000
1905.8	33	2.8	2.252	0.228	305	0.108	0.233	1.000
1906.0	36	2.7	2.265	0.221	304	0.111	0.225	1.000
1906.2	34	2.7	2.261	0.222	303	0.106	0.228	1.000
1906.4	33	2.7	2.256	0.240	302	0.165	0.226	1.000
1906.6	35	2.9	2.269	0.231	302	0.164	0.218	1.000
1906.8	31	3.3	2.280	0.215	298	0.124	0.215	1.000
1907.0	28	3.6	2.281	0.214	301	0.121	0.215	0.995
1907.2	31	3.3	2.265	0.229	307	0.142	0.222	0.964
1907.4	39	2.8	2.245	0.247	314	0.166	0.233	0.926
1907.6	56	3.0	2.219	0.232	314	0.041	0.259	0.893
1907.8	79	4.1	2.215	0.268	309	0.179	0.249	0.895
1908.0	89	6.4	2.325	0.290	293	0.533	0.054	0.889
1908.2	89	9.5	2.398	0.267	285	0.617	0.000	0.923
1908.4	80	6.6	2.367	0.244	273	0.452	0.103	0.999
1908.6	74	4.4	2.332	0.236	284	0.333	0.168	1.000
1908.8	70	3.5	2.334	0.222	295	0.283	0.169	1.000
1909.0	67	3.6	2.334	0.214	299	0.248	0.172	1.000
1909.2	64	3.9	2.325	0.206	295	0.196	0.182	1.000
1909.4	60	3.8	2.328	0.219	299	0.255	0.176	1.000
1909.6	52	3.9	2.321	0.237	299	0.310	0.175	1.000
1909.8	51	3.6	2.306	0.242	302	0.296	0.185	1.000
1910.0	51	3.2	2.296	0.231	306	0.229	0.196	1.000
1910.2	58	3.5	2.341	0.212	302	0.260	0.167	1.000
1910.4	73	4.4	2.423	0.201	291	0.414	0.102	1.000
1910.6	77	5.7	2.431	0.219	280	0.506	0.047	1.000
1910.8	65	6.5	2.402	0.226	280	0.464	0.081	1.000
1911.0	52	5.4	2.381	0.231	285	0.433	0.111	1.000
1911.2	49	4.6	2.354	0.229	289	0.360	0.153	1.000
1911.4	49	4.0	2.331	0.230	292	0.306	0.170	1.000
1911.6	48	3.8	2.331	0.227	292	0.295	0.171	1.000
1911.8	43	3.8	2.328	0.225	292	0.282	0.173	1.000
1912.0	39	3.7	2.299	0.225	295	0.207	0.197	1.000
1912.2	39	3.5	2.277	0.221	299	0.141	0.215	1.000
1912.4	41	3.3	2.284	0.223	300	0.164	0.209	1.000
1912.6	42	3.4	2.296	0.221	297	0.188	0.200	1.000
1912.8	44	3.5	2.309	0.211	298	0.177	0.193	1.000
1913.0	50	3.7	2.334	0.211	293	0.240	0.173	1.000
1913.2	53	4.2	2.369	0.214	288	0.336	0.146	1.000
1913.4	55	4.6	2.386	0.208	284	0.350	0.135	1.000

1913.6	54	4.6	2.375	0.218	286	0.367	0.140	1.000
1913.8	55	4.4	2.368	0.235	290	0.418	0.128	1.000
1914.0	51	4.3	2.362	0.229	291	0.380	0.147	1.000
1914.2	50	4.3	2.352	0.211	289	0.282	0.159	1.000
1914.4	52	4.1	2.350	0.207	287	0.262	0.162	1.000
1914.6	55	3.9	2.337	0.226	289	0.308	0.166	1.000
1914.8	52	3.7	2.321	0.257	293	0.394	0.170	1.000
1915.0	44	3.5	2.306	0.266	294	0.393	0.179	1.000
1915.2	42	3.4	2.300	0.251	296	0.317	0.188	1.000
1915.4	40	3.2	2.290	0.243	298	0.260	0.197	1.000
1915.6	35	3.0	2.280	0.231	302	0.190	0.209	1.000
1915.8	33	2.9	2.268	0.222	303	0.123	0.222	0.996
1916.0	34	2.9	2.241	0.236	306	0.114	0.240	0.962
1916.2	35	3.1	2.221	0.259	308	0.157	0.248	0.930
1916.4	33	3.1	2.222	0.266	312	0.186	0.245	0.902
1916.6	31	2.9	2.220	0.262	314	0.165	0.247	0.894
1916.8	29	2.9	2.214	0.257	311	0.129	0.255	0.901
1917.0	27	2.8	2.208	0.254	313	0.104	0.260	0.912
1917.2	28	2.7	2.204	0.256	313	0.102	0.263	0.917
1917.4	27	2.6	2.206	0.250	315	0.084	0.264	0.928
1917.6	25	2.5	2.201	0.248	318	0.066	0.268	0.943
1917.8	22	2.5	2.206	0.245	319	0.065	0.265	0.956
1918.0	24	2.5	2.220	0.252	318	0.125	0.251	0.962
1918.2	25	2.5	2.220	0.259	316	0.156	0.248	0.964
1918.4	24	2.5	2.212	0.254	315	0.115	0.257	0.964
1918.6	22	2.5	2.202	0.244	315	0.048	0.269	0.955
1918.8	24	2.4	2.200	0.229	317	0.000	0.273	0.949
1919.0	28	2.5	2.196	0.238	318	0.012	0.276	0.958
1919.2	28	2.4	2.197	0.244	320	0.037	0.273	0.989
1919.4	26	2.2	2.200	0.247	321	0.055	0.270	1.000
1919.6	33	2.0	2.222	0.229	319	0.036	0.258	1.000
1919.8	53	2.2	2.313	0.201	304	0.149	0.193	1.000
1920.0	77	3.7	2.457	0.198	287	0.487	0.049	1.000
1920.2	92	7.7	2.519	0.222	267	0.730	0.000	1.000
1920.4	97	16.8	2.505	0.227	264	0.718	0.000	1.000
1920.6	96	16.7	2.497	0.224	265	0.686	0.000	1.000
1920.8	95	15.6	2.495	0.232	266	0.714	0.000	1.000
1921.0	90	13.3	2.493	0.230	266	0.700	0.000	1.000
1921.2	92	12.7	2.499	0.213	264	0.649	0.000	1.000
1921.4	94	12.0	2.499	0.200	261	0.594	0.002	1.000
1921.6	89	10.7	2.486	0.197	261	0.549	0.017	1.000
1921.8	80	8.7	2.468	0.192	263	0.488	0.044	1.000
1922.0	77	8.2	2.468	0.184	266	0.456	0.058	1.000
1922.2	89	8.8	2.466	0.200	272	0.513	0.034	1.000
1922.4	100	10.7	2.449	0.235	277	0.616	0.000	1.000
1922.6	96	13.4	2.420	0.263	283	0.655	0.000	0.963
1922.8	79	11.3	2.366	0.278	287	0.585	0.010	0.913
1923.0	56	6.5	2.275	0.281	300	0.374	0.199	0.873
1923.2	42	4.2	2.185	0.256	317	0.058	0.278	0.833
1923.4	39	3.1	2.174	0.249	331	0.002	0.290	0.818
1923.6	42	2.9	2.246	0.236	323	0.127	0.235	0.818
1923.8	53	3.4	2.326	0.222	300	0.262	0.176	0.858
1924.0	67	4.6	2.361	0.245	290	0.439	0.116	0.858
1924.2	77	6.6	2.362	0.285	296	0.604	0.000	0.858
1924.4	68	6.4	2.307	0.289	311	0.485	0.099	0.840
1924.6	44	4.3	2.257	0.258	318	0.239	0.219	0.846
1924.8	29	2.9	2.233	0.254	322	0.163	0.240	0.813
1925.0	27	2.4	2.226	0.257	322	0.162	0.244	0.822
1925.2	28	2.4	2.226	0.255	324	0.155	0.245	0.842
1925.4	30	2.3	2.218	0.254	323	0.130	0.252	0.886
1925.6	33	2.1	2.229	0.255	320	0.162	0.242	0.922
1925.8	35	2.0	2.267	0.242	318	0.200	0.216	0.937
1926.0	39	2.2	2.288	0.211	311	0.124	0.210	0.937
1926.2	38	2.4	2.269	0.217	312	0.103	0.224	0.936
1926.4	33	2.5	2.246	0.235	315	0.121	0.236	0.929

1926.6	33	2.4	2.254	0.234	318	0.134	0.230	0.932
1926.8	39	2.3	2.285	0.222	313	0.166	0.208	0.943
1927.0	47	2.5	2.313	0.217	303	0.211	0.188	0.962
1927.2	55	3.0	2.328	0.201	295	0.183	0.181	0.982
1927.4	62	3.5	2.347	0.202	289	0.232	0.166	0.999
1927.6	67	4.1	2.382	0.213	283	0.362	0.137	1.000
1927.8	70	4.4	2.401	0.217	283	0.425	0.106	1.000
1928.0	78	4.8	2.411	0.219	279	0.456	0.082	1.000
1928.2	83	4.9	2.419	0.225	280	0.499	0.054	1.000
1928.4	77	5.3	2.411	0.233	283	0.512	0.049	0.965
1928.6	73	5.5	2.388	0.240	289	0.487	0.071	0.917
1928.8	72	5.3	2.365	0.254	296	0.484	0.081	0.873
1929.0	69	4.8	2.357	0.241	297	0.418	0.135	0.860
1929.2	74	4.7	2.369	0.233	297	0.409	0.135	0.886
1929.4	79	4.9	2.387	0.243	290	0.495	0.066	0.923
1929.6	76	5.6	2.404	0.260	290	0.607	0.000	0.951
1929.8	80	6.5	2.406	0.265	289	0.631	0.000	0.948
1930.0	84	6.3	2.405	0.247	292	0.555	0.025	0.955
1930.2	78	6.1	2.399	0.233	289	0.483	0.070	0.960
1930.4	68	5.7	2.410	0.216	287	0.440	0.093	0.982
1930.6	66	5.2	2.414	0.204	281	0.407	0.111	1.000
1930.8	66	5.0	2.417	0.213	277	0.449	0.084	1.000
1931.0	63	4.6	2.400	0.226	279	0.459	0.085	1.000
1931.2	63	4.4	2.405	0.218	281	0.439	0.095	1.000
1931.4	65	4.3	2.417	0.214	282	0.455	0.080	1.000
1931.6	75	4.9	2.427	0.230	280	0.542	0.029	1.000
1931.8	84	5.4	2.450	0.232	277	0.606	0.000	1.000
1932.0	89	6.2	2.467	0.231	275	0.642	0.000	1.000
1932.2	90	6.9	2.452	0.226	275	0.585	0.006	1.000
1932.4	78	6.4	2.427	0.224	279	0.517	0.042	1.000
1932.6	67	5.4	2.414	0.223	282	0.482	0.066	1.000
1932.8	63	4.8	2.420	0.221	280	0.486	0.061	1.000
1933.0	61	4.4	2.411	0.217	277	0.451	0.085	1.000
1933.2	61	4.2	2.380	0.216	281	0.369	0.138	1.000
1933.4	60	3.9	2.372	0.219	284	0.363	0.142	1.000
1933.6	53	3.6	2.387	0.219	287	0.400	0.131	1.000
1933.8	55	3.7	2.404	0.228	284	0.476	0.073	1.000
1934.0	65	4.3	2.424	0.227	280	0.523	0.040	1.000
1934.2	73	5.2	2.448	0.223	274	0.566	0.015	1.000
1934.4	70	6.1	2.451	0.229	271	0.598	0.000	1.000
1934.6	68	6.0	2.454	0.225	272	0.588	0.005	1.000
1934.8	67	5.2	2.435	0.214	275	0.498	0.050	1.000
1935.0	63	4.5	2.409	0.203	277	0.390	0.119	1.000
1935.2	55	3.7	2.393	0.215	284	0.397	0.128	1.000
1935.4	50	3.3	2.373	0.226	288	0.391	0.140	1.000
1935.6	53	3.2	2.368	0.222	288	0.367	0.144	1.000
1935.8	58	3.4	2.388	0.220	285	0.405	0.128	1.000
1936.0	56	3.6	2.409	0.221	281	0.462	0.080	1.000
1936.2	50	3.7	2.387	0.235	279	0.465	0.086	1.000
1936.4	46	3.4	2.347	0.233	285	0.360	0.157	1.000
1936.6	44	3.0	2.294	0.239	298	0.252	0.196	0.959
1936.8	45	2.7	2.264	0.250	307	0.224	0.216	0.917
1937.0	43	2.4	2.248	0.247	310	0.172	0.230	0.905
1937.2	40	2.2	2.246	0.250	314	0.180	0.231	0.936
1937.4	47	2.4	2.285	0.241	307	0.239	0.202	0.984
1937.6	57	3.0	2.355	0.207	292	0.273	0.158	1.000
1937.8	61	3.8	2.399	0.203	280	0.362	0.127	1.000
1938.0	56	4.1	2.373	0.212	276	0.339	0.143	1.000
1938.2	48	3.5	2.347	0.228	285	0.337	0.159	1.000
1938.4	47	3.3	2.348	0.228	287	0.343	0.157	1.000
1938.6	47	3.2	2.356	0.234	288	0.383	0.151	1.000
1938.8	46	3.1	2.355	0.247	288	0.436	0.121	1.000
1939.0	49	3.3	2.367	0.238	287	0.427	0.122	1.000
1939.2	54	3.5	2.400	0.221	282	0.439	0.098	1.000
1939.4	60	4.0	2.403	0.215	276	0.423	0.107	1.000

1939.6	57	4.0	2.379	0.211	278	0.349	0.139	1.000
1939.8	50	3.4	2.337	0.228	287	0.314	0.166	0.997
1940.0	43	2.9	2.285	0.232	296	0.203	0.205	0.965
1940.2	36	2.4	2.265	0.214	302	0.083	0.228	0.959
1940.4	33	2.2	2.270	0.206	303	0.062	0.226	0.958
1940.6	31	2.1	2.277	0.213	300	0.107	0.218	0.965
1940.8	32	2.3	2.281	0.210	298	0.104	0.216	0.956
1941.0	35	2.4	2.270	0.207	297	0.066	0.226	0.940
1941.2	35	2.4	2.247	0.205	299	0.005	0.245	0.936
1941.4	32	2.3	2.247	0.208	300	0.013	0.245	0.942
1941.6	32	2.1	2.268	0.214	296	0.091	0.225	0.944
1941.8	35	2.1	2.268	0.234	295	0.170	0.218	0.949
1942.0	32	2.1	2.243	0.247	296	0.161	0.234	0.967
1942.2	30	2.0	2.224	0.240	301	0.089	0.252	0.969
1942.4	30	2.0	2.228	0.239	307	Coal		
1942.6	30	2.0	2.010	0.247	308	Coal		
1942.8	28	1.9	2.011	0.247	308	Coal		
1943.0	26	1.9	2.269	0.236	306	Coal		
1943.2	26	1.9	2.270	0.237	300	Coal		
1943.4	30	1.9	2.253	0.248	295	0.188	0.226	1.000
1943.6	32	2.0	2.259	0.251	292	0.214	0.220	1.000
1943.8	36	2.1	2.286	0.244	294	0.253	0.200	1.000
1944.0	36	2.3	2.298	0.232	296	0.234	0.195	0.996
1944.2	34	2.4	2.279	0.228	298	0.174	0.212	0.991
1944.4	33	2.4	2.270	0.219	302	0.116	0.222	0.982
1944.6	34	2.2	2.265	0.213	304	0.079	0.228	0.981
1944.8	33	2.0	2.266	0.211	303	0.073	0.228	0.990
1945.0	34	2.0	2.272	0.200	301	0.045	0.227	1.000
1945.2	43	2.2	2.291	0.190	297	0.047	0.215	1.000
1945.4	52	2.8	2.324	0.196	290	0.153	0.186	1.000
1945.6	51	3.1	2.347	0.204	287	0.241	0.165	1.000
1945.8	44	3.1	2.352	0.213	284	0.292	0.158	1.000
1946.0	43	2.8	2.356	0.219	286	0.326	0.154	1.000
1946.2	46	2.7	2.353	0.223	287	0.334	0.156	1.000
1946.4	45	2.8	2.341	0.216	286	0.277	0.166	1.000
1946.6	45	2.9	2.342	0.224	286	0.310	0.163	1.000
1946.8	43	3.0	2.356	0.236	284	0.391	0.150	1.000
1947.0	38	3.1	2.373	0.221	283	0.372	0.142	1.000
1947.2	36	3.0	2.336	0.220	288	0.282	0.168	1.000
1947.4	36	2.6	2.271	0.247	299	0.230	0.211	0.995
1947.6	31	2.2	2.243	0.260	307	0.216	0.229	0.963
1947.8	29	2.0	2.243	0.254	307	0.191	0.231	0.957
1948.0	30	2.0	2.255	0.243	305	0.176	0.226	0.970
1948.2	28	1.9	2.251	0.240	302	0.153	0.230	0.982
1948.4	27	1.8	2.232	0.226	303	0.051	0.250	0.989
1948.6	26	1.8	2.232	0.231	305	0.070	0.249	0.983
1948.8	27	1.8	2.230	0.242	306	0.112	0.246	0.976
1949.0	26	1.8	2.228	0.242	306	0.103	0.248	0.972
1949.2	27	1.8	2.231	0.230	303	0.064	0.250	0.965
1949.4	26	1.8	2.220	0.230	301	0.039	0.259	0.963
1949.6	24	1.7	2.212	0.247	304	0.088	0.259	0.969
1949.8	25	1.7	2.210	0.250	306	0.094	0.260	0.973
1950.0	27	1.6	2.213	0.245	306	0.083	0.259	0.978
1950.2	28	1.6	2.218	0.234	304	0.050	0.259	0.978
1950.4	28	1.7	2.218	0.221	304	0.000	0.263	0.972
1950.6	26	1.8	2.220	0.220	303	0.000	0.262	0.962
1950.8	26	1.8	2.218	0.222	305	0.000	0.264	0.954
1951.0	24	1.7	2.210	0.220	305	0.000	0.266	0.951
1951.2	23	1.7	2.209	0.223	307	0.000	0.267	0.957
1951.4	24	1.7	2.213	0.221	310	0.000	0.265	0.972
1951.6	24	1.7	2.212	0.218	312	0.000	0.264	1.000
1951.8	28	1.6	2.222	0.235	314	0.062	0.256	1.000
1952.0	41	1.6	2.250	0.247	315	0.177	0.229	1.000
1952.2	49	1.8	2.291	0.265	305	0.351	0.191	1.000
1952.4	46	2.0	2.305	0.279	305	0.439	0.142	1.000

1952.6	45	2.2	2.291	0.253	302	0.301	0.194	1.000
1952.8	55	2.3	2.335	0.218	290	0.268	0.170	1.000
1953.0	67	2.9	2.419	0.205	269	0.421	0.100	1.000
1953.2	72	4.4	2.475	0.200	257	0.537	0.023	1.000
1953.4	73	5.7	2.467	0.189	259	0.472	0.052	1.000
1953.6	73	6.1	2.447	0.191	264	0.433	0.079	1.000
1953.8	69	6.1	2.439	0.200	271	0.450	0.074	1.000
1954.0	57	5.3	2.406	0.221	277	0.456	0.084	0.990
1954.2	43	3.7	2.319	0.226	297	0.263	0.180	0.935
1954.4	32	2.5	2.233	0.220	309	0.029	0.252	0.888
1954.6	34	2.1	2.207	0.227	312	0.000	0.270	0.849
1954.8	47	2.3	2.232	0.228	312	0.057	0.250	0.831
1955.0	67	3.1	2.286	0.222	312	0.167	0.208	0.821
1955.2	79	5.0	2.328	0.245	308	0.362	0.168	0.808
1955.4	65	5.6	2.318	0.257	306	0.385	0.173	0.834
1955.6	52	4.6	2.307	0.225	303	0.227	0.190	0.914
1955.8	48	3.5	2.341	0.196	298	0.195	0.172	0.994
1956.0	54	3.3	2.400	0.182	288	0.283	0.130	1.000
1956.2	55	3.7	2.403	0.195	282	0.342	0.125	1.000
1956.4	49	3.5	2.358	0.211	282	0.296	0.154	1.000
1956.6	48	3.0	2.315	0.210	291	0.188	0.189	1.000
1956.8	51	2.8	2.310	0.200	291	0.136	0.196	0.998
1957.0	51	3.0	2.343	0.199	291	0.213	0.170	0.986
1957.2	46	3.2	2.355	0.216	285	0.309	0.155	0.992
1957.4	42	3.2	2.330	0.239	290	0.341	0.168	1.000
1957.6	47	2.9	2.323	0.233	294	0.302	0.175	0.998
1957.8	56	3.1	2.348	0.237	290	0.378	0.155	0.980
1958.0	53	3.3	2.348	0.243	288	0.402	0.152	0.987
1958.2	44	3.0	2.311	0.249	286	0.337	0.180	0.990
1958.4	40	2.4	2.226	0.237	294	Coal		
1958.6	45	2.0	2.083	0.253	309	Coal		
1958.8	56	2.2	2.014	0.289	321	Coal		
1959.0	72	2.5	2.012	0.309	344	Coal		
1959.2	86	2.7	2.056	0.326	319	Coal		
1959.4	98	2.7	2.120	0.349	303	Coal		
1959.6	104	3.1	2.197	0.343	273	Coal		
1959.8	109	4.0	2.331	0.349	273	Coal		
1960.0	108	5.5	2.493	0.332	269	1.000	0.000	1.000
1960.2	100	7.5	2.550	0.295	263	1.000	0.000	1.000
1960.4	91	8.9	2.547	0.272	257	1.000	0.000	1.000
1960.6	85	9.8	2.486	0.274	260	Coal		
1960.8	77	9.7	2.217	0.340	285	Coal		
1961.0	56	10.2	1.758	0.427	360	Coal		
1961.2	42	11.1	1.459	0.489	415	Coal		
1961.4	48	10.6	1.432	0.493	447	Coal		
1961.6	65	7.2	1.604	0.499	481	Coal		
1961.8	78	5.4	1.852	0.506	483	Coal		
1962.0	90	4.9	2.098	0.419	432	Coal		
1962.2	102	5.8	2.371	0.343	360	Coal		
1962.4	103	7.1	2.420	0.346	310	0.988	0.000	1.000
1962.6	99	7.9	2.364	0.369	315	0.945	0.000	1.000
1962.8	98	7.9	2.314	0.356	325	0.770	0.000	1.000
1963.0	102	7.7	2.304	0.339	342	0.679	0.000	1.000
1963.2	102	7.8	2.354	0.325	326	0.743	0.000	1.000
1963.4	100	8.4	2.411	0.294	306	0.760	0.000	0.960
1963.6	101	9.2	2.411	0.256	280	0.606	0.000	0.920
1963.8	98	8.5	2.380	0.252	282	0.517	0.053	0.911
1964.0	97	7.8	2.381	0.258	279	0.542	0.037	0.911
1964.2	94	7.1	2.405	0.249	282	0.562	0.021	0.911
1964.4	97	7.6	2.445	0.226	268	0.567	0.015	0.951
1964.6	103	8.2	2.501	0.217	257	0.667	0.000	0.991
1964.8	111	9.2	2.550	0.224	257	0.814	0.000	1.000
1965.0	113	9.7	2.549	0.239	253	0.871	0.000	1.000
1965.2	112	9.9	2.554	0.252	257	0.937	0.000	1.000
1965.4	108	10.2	2.562	0.246	255	0.935	0.000	1.000

1965.6	108	10.7	2.566	0.227	254	0.866	0.000	1.000
1965.8	114	10.9	2.571	0.219	254	0.847	0.000	1.000
1966.0	113	10.7	2.571	0.228	256	0.881	0.000	1.000
1966.2	111	10.3	2.565	0.219	255	0.831	0.000	1.000
1966.4	112	9.8	2.553	0.227	257	0.833	0.000	1.000
1966.6	113	9.3	2.538	0.246	260	0.872	0.000	1.000
1966.8	110	8.8	2.526	0.234	262	0.798	0.000	1.000
1967.0	109	8.5	2.525	0.217	262	0.728	0.000	1.000
1967.2	107	9.1	2.536	0.211	259	0.729	0.000	1.000
1967.4	101	10.3	2.546	0.206	251	0.733	0.000	1.000
1967.6	102	11.2	2.557	0.194	246	0.711	0.000	1.000
1967.8	101	12.0	2.558	0.196	243	0.721	0.000	1.000
1968.0	98	11.7	2.548	0.193	247	0.688	0.000	1.000
1968.2	100	11.3	2.540	0.196	248	0.679	0.000	1.000
1968.4	102	10.6	2.541	0.208	255	0.732	0.000	1.000
1968.6	102	10.1	2.537	0.217	258	0.757	0.000	1.000
1968.8	100	9.8	2.537	0.221	264	0.771	0.000	1.000
1969.0	104	9.5	2.528	0.225	268	Coal		
1969.2	111	8.2	2.438	0.254	263	Coal		
1969.4	108	6.2	2.270	0.324	277	Coal		
1969.6	102	5.2	2.213	0.394	314	Coal		
1969.8	98	4.6	2.239	0.404	346	Coal		
1970.0	98	4.3	2.220	0.388	384	Coal		
1970.2	97	4.5	2.252	0.369	376	Coal		
1970.4	93	5.3	2.384	0.291	334	Coal		
1970.6	94	6.9	2.493	0.248	267	Coal		
1970.8	98	9.1	2.531	0.244	234	Coal		
1971.0	98	9.7	2.539	0.221	247	0.774	0.000	1.000
1971.2	99	9.3	2.531	0.227	255	0.782	0.000	1.000
1971.4	100	9.2	2.532	0.238	262	0.829	0.000	1.000
1971.6	103	9.3	2.555	0.234	259	0.869	0.000	1.000
1971.8	103	9.7	2.572	0.221	252	0.855	0.000	1.000
1972.0	104	10.2	2.567	0.217	251	0.829	0.000	1.000
1972.2	105	10.2	2.560	0.215	251	0.805	0.000	1.000
1972.4	106	9.8	2.564	0.230	254	0.876	0.000	1.000
1972.6	105	9.2	2.566	0.239	256	Coal		
1972.8	102	8.5	2.528	0.233	254	Coal		
1973.0	98	7.2	2.426	0.235	253	Coal		
1973.2	92	5.8	2.323	0.259	254	Coal		
1973.4	93	5.0	2.231	0.276	274	Coal		
1973.6	95	4.9	2.194	0.282	299	Coal		
1973.8	96	5.4	2.264	0.296	303	Coal		
1974.0	99	6.3	2.387	0.283	274	Coal		
1974.2	107	7.1	2.460	0.264	250	Coal		
1974.4	114	7.6	2.492	0.255	249	Coal		
1974.6	112	8.3	2.551	0.234	252	Coal		
1974.8	110	9.0	2.583	0.209	251	0.836	0.000	1.000
1975.0	111	9.6	2.584	0.201	250	0.805	0.000	1.000
1975.2	115	9.5	2.579	0.196	248	0.775	0.000	1.000
1975.4	116	9.3	2.584	0.205	252	0.821	0.000	1.000
1975.6	117	9.5	2.595	0.206	251	0.851	0.000	1.000
1975.8	115	10.1	2.599	0.197	249	0.827	0.000	1.000
1976.0	108	10.1	2.577	0.196	247	0.770	0.000	1.000
1976.2	99	9.3	2.557	0.187	242	0.687	0.000	1.000
1976.4	92	7.9	2.530	0.185	246	0.611	0.000	1.000
1976.6	89	6.7	2.502	0.175	251	0.504	0.028	1.000
1976.8	89	6.1	2.485	0.168	255	0.433	0.061	1.000
1977.0	96	5.8	2.484	0.161	257	0.402	0.074	1.000
1977.2	93	6.0	2.510	0.166	257	0.487	0.031	1.000
1977.4	88	5.9	2.498	0.177	255	0.501	0.031	1.000
1977.6	76	4.8	2.443	0.194	259	0.437	0.079	1.000
1977.8	66	3.8	2.411	0.188	267	0.332	0.121	1.000
1978.0	60	3.0	2.395	0.183	276	0.276	0.133	1.000
1978.2	55	2.5	2.370	0.189	281	0.237	0.152	1.000
1978.4	48	2.2	2.338	0.195	287	0.184	0.175	1.000

1978.6	40	2.1	2.326	0.212	289	0.223	0.179	1.000
1978.8	34	1.8	2.308	0.238	292	0.281	0.185	1.000
1979.0	31	1.7	2.275	0.243	303	0.223	0.209	1.000
1979.2	31	1.5	2.273	0.242	306	0.215	0.211	1.000
1979.4	32	1.5	2.289	0.225	305	0.186	0.204	1.000
1979.6	35	1.7	2.304	0.219	301	0.198	0.194	1.000
1979.8	37	1.8	2.321	0.236	298	0.308	0.175	1.000
1980.0	39	1.9	2.333	0.237	295	0.342	0.167	1.000
1980.2	40	1.8	2.334	0.245	300	0.375	0.164	1.000
1980.4	41	1.9	2.337	0.228	298	0.315	0.166	1.000
1980.6	44	2.0	2.350	0.206	294	0.259	0.161	1.000
1980.8	55	2.4	2.365	0.203	292	0.280	0.152	1.000
1981.0	67	3.2	2.395	0.213	282	0.394	0.127	1.000
1981.2	74	4.0	2.433	0.213	276	0.489	0.055	1.000
1981.4	75	5.1	2.397	0.209	268	0.384	0.127	0.943
1981.6	73	5.6	2.351	0.212	276	0.283	0.159	0.920
1981.8	77	6.2	2.370	0.232	277	0.413	0.132	0.884
1982.0	85	7.8	2.416	0.251	278	0.598	0.001	0.920
1982.2	86	9.2	2.449	0.249	270	0.672	0.000	0.960
1982.4	82	9.1	2.483	0.223	264	0.648	0.000	1.000
1982.6	79	8.1	2.499	0.212	260	0.644	0.000	1.000
1982.8	77	6.1	2.489	0.215	261	0.633	0.000	1.000
1983.0	71	4.3	2.464	0.214	266	0.567	0.013	1.000
1983.2	68	3.8	2.431	0.202	270	0.440	0.083	0.986
1983.4	78	4.1	2.388	0.212	274	0.374	0.133	0.986
1983.6	89	5.3	2.391	0.234	282	0.471	0.081	0.986
1983.8	91	6.9	2.432	0.251	283	0.637	0.000	0.946
1984.0	91	7.1	2.454	0.246	279	0.670	0.000	0.956
1984.2	75	5.2	2.415	0.250	274	0.592	0.004	0.997
1984.4	56	3.3	2.352	0.225	282	0.338	0.156	1.000
1984.6	42	2.3	2.301	0.196	291	0.100	0.204	1.000
1984.8	36	1.8	2.296	0.200	297	0.102	0.207	1.000
1985.0	32	1.6	2.285	0.209	305	0.110	0.213	1.000
1985.2	27	1.4	2.265	0.202	307	0.037	0.231	1.000
1985.4	28	1.4	2.254	0.197	307	0.000	0.240	1.000
1985.6	31	1.4	2.259	0.201	305	0.016	0.237	1.000
1985.8	32	1.6	2.260	0.209	302	0.050	0.234	1.000
1986.0	32	1.7	2.258	0.225	303	0.109	0.230	1.000
1986.2	30	1.6	2.254	0.232	302	0.129	0.230	1.000
1986.4	32	1.4	2.262	0.235	302	0.159	0.223	1.000
1986.6	47	1.6	2.304	0.225	300	0.222	0.192	1.000
1986.8	61	1.9	2.341	0.227	294	0.320	0.163	1.000
1987.0	68	2.5	2.357	0.216	289	0.315	0.154	1.000
1987.2	70	3.2	2.365	0.212	289	0.316	0.149	1.000
1987.4	73	3.1	2.384	0.224	292	0.411	0.125	1.000
1987.6	76	3.2	2.405	0.248	293	0.559	0.023	1.000
1987.8	75	2.7	2.388	0.255	292	0.548	0.032	1.000
1988.0	57	2.1	2.333	0.238	297	0.343	0.166	1.000
1988.2	56	2.1	2.338	0.200	299	0.205	0.173	1.000
1988.4	87	2.7	2.429	0.198	290	0.419	0.096	1.000
1988.6	114	3.9	2.548	0.221	273	0.798	0.000	1.000
1988.8	115	7.9	2.575	0.230	257	0.899	0.000	1.000
1989.0	108	10.1	2.556	0.233	257	0.869	0.000	1.000
1989.2	110	9.1	2.537	0.267	263	0.956	0.000	1.000
1989.4	115	8.5	2.537	0.280	271	1.000	0.000	1.000
1989.6	114	8.2	2.546	0.257	272	0.937	0.000	1.000
1989.8	109	8.7	2.552	0.252	272	0.932	0.000	1.000
1990.0	99	7.2	2.517	0.264	270	0.897	0.000	0.997
1990.2	81	3.8	2.408	0.268	279	0.645	0.000	1.000
1990.4	56	2.5	2.304	0.244	289	0.297	0.187	1.000
1990.6	40	1.6	2.255	0.231	302	0.130	0.229	1.000
1990.8	36	1.4	2.253	0.238	310	0.148	0.229	1.000
1991.0	32	1.4	2.266	0.231	309	0.151	0.221	1.000
1991.2	36	1.5	2.280	0.220	303	0.141	0.214	1.000
1991.4	35	1.6	2.272	0.213	301	0.098	0.222	1.000

1991.6	31	1.6	2.247	0.227	302	0.093	0.237	1.000
1991.8	28	1.4	2.206	0.246	308	0.066	0.265	0.994
1992.0	27	1.2	2.156	0.260	316	0.002	0.301	1.000
1992.2	25	1.2	2.160	0.262	321	0.021	0.297	1.000
1992.4	23	1.2	2.224	0.264	322	0.182	0.244	1.000
1992.6	22	1.2	2.281	0.260	319	0.306	0.200	1.000
1992.8	20	1.2	2.287	0.264	320	0.334	0.194	1.000
1993.0	20	1.2	2.264	0.273	317	0.319	0.209	1.000
1993.2	21	1.2	2.234	0.269	320	0.226	0.234	1.000
1993.4	23	1.2	2.222	0.248	321	0.116	0.251	1.000
1993.6	22	1.1	2.252	0.254	325	0.210	0.225	1.000
1993.8	26	1.1	2.295	0.255	329	0.319	0.190	1.000
1994.0	34	1.1	2.270	0.252	335	0.250	0.210	1.000
1994.2	52	1.2	2.239	0.258	334	0.197	0.233	1.000
1994.4	78	1.8	2.317	0.272	332	0.443	0.133	1.000
1994.6	103	3.5	2.428	0.274	316	0.717	0.000	1.000
1994.8	111	6.4	2.477	0.262	294	0.792	0.000	1.000
1995.0	107	7.5	2.498	0.265	282	0.854	0.000	1.000
1995.2	103	7.3	2.512	0.269	272	0.904	0.000	1.000
1995.4	101	7.1	2.488	0.269	273	0.846	0.000	1.000
1995.6	94	6.9	2.450	0.260	280	0.717	0.000	0.997
1995.8	80	6.2	2.436	0.249	285	0.640	0.000	0.985
1996.0	64	4.1	2.374	0.248	287	0.485	0.077	0.978
1996.2	47	2.2	2.265	0.260	295	0.269	0.212	0.992
1996.4	32	1.5	2.213	0.273	312	0.191	0.249	1.000
1996.6	28	1.2	2.212	0.258	322	0.131	0.255	1.000
1996.8	33	1.3	2.254	0.240	316	0.159	0.228	1.000
1997.0	39	1.6	2.312	0.216	304	0.203	0.189	1.000
1997.2	39	1.8	2.332	0.219	295	0.264	0.172	1.000
1997.4	36	1.9	2.321	0.235	297	0.304	0.176	1.000
1997.6	39	1.7	2.318	0.233	300	0.287	0.179	1.000
1997.8	42	1.8	2.327	0.223	300	0.269	0.175	1.000
1998.0	41	1.7	2.319	0.227	290	Coal		
1998.2	35	1.5	2.242	0.236	286	Coal		
1998.4	34	1.3	2.112	0.236	290	Coal		
1998.6	49	1.3	1.947	0.227	312	Coal		
1998.8	77	1.6	1.902	0.268	341	Coal		
1999.0	99	2.4	2.096	0.336	317	Coal		
1999.2	106	3.7	2.311	0.339	295	Coal		
1999.4	106	5.1	2.373	0.320	238	Coal		
1999.6	101	5.5	2.362	0.329	267	Coal		
1999.8	99	5.0	2.332	0.338	278	0.741	0.000	1.000
2000.0	95	4.9	2.350	0.339	294	0.791	0.000	0.960
2000.2	91	5.5	2.376	0.290	278	0.657	0.000	0.920
2000.4	90	5.7	2.365	0.228	271	0.380	0.146	0.920
2000.6	95	5.4	2.310	0.248	265	0.331	0.181	0.920
2000.8	103	4.9	2.320	0.314	296	0.618	0.000	0.920
2001.0	109	5.0	2.384	0.336	303	0.861	0.000	0.960
2001.2	112	5.4	2.446	0.294	302	0.844	0.000	1.000
2001.4	114	6.1	2.503	0.263	250	0.856	0.000	1.000
2001.6	112	7.4	2.545	0.241	242	0.870	0.000	1.000
2001.8	107	7.1	2.479	0.243	233	0.720	0.000	1.000
2002.0	102	5.1	2.351	0.313	280	0.689	0.000	0.996
2002.2	86	3.7	2.294	0.360	316	0.739	0.000	1.000
2002.4	67	2.8	2.334	0.285	336	0.535	0.050	1.000
2002.6	54	2.6	2.359	0.211	308	0.300	0.154	1.000
2002.8	48	2.4	2.350	0.199	287	0.229	0.164	1.000
2003.0	43	2.4	2.333	0.196	285	0.179	0.178	1.000
2003.2	43	2.3	2.323	0.189	290	0.124	0.189	1.000
2003.4	46	2.3	2.338	0.187	290	0.151	0.178	1.000
2003.6	48	2.2	2.350	0.193	291	0.205	0.167	1.000
2003.8	47	2.1	2.348	0.200	290	0.229	0.165	1.000
2004.0	43	2.2	2.360	0.200	289	0.255	0.156	1.000
2004.2	44	2.7	2.387	0.187	285	0.272	0.139	1.000
2004.4	50	3.3	2.408	0.178	278	0.287	0.125	1.000

2004.6	52	3.3	2.408	0.193	275	0.345	0.122	1.000
2004.8	48	2.9	2.375	0.223	280	0.386	0.139	1.000
2005.0	49	2.5	2.361	0.228	284	0.375	0.148	1.000
2005.2	52	2.4	2.370	0.221	287	0.367	0.144	1.000
2005.4	53	2.6	2.377	0.215	283	0.360	0.139	1.000
2005.6	49	2.9	2.384	0.212	280	0.364	0.135	1.000
2005.8	47	3.1	2.379	0.208	276	0.337	0.140	1.000
2006.0	43	2.8	2.355	0.222	280	0.333	0.154	1.000
2006.2	36	2.0	2.303	0.236	289	0.264	0.189	1.000
2006.4	29	1.5	2.260	0.228	299	0.126	0.227	1.000
2006.6	27	1.4	2.250	0.223	307	0.082	0.237	1.000
2006.8	25	1.4	2.243	0.239	304	0.129	0.237	1.000
2007.0	24	1.4	2.247	0.240	303	0.141	0.234	1.000
2007.2	26	1.4	2.266	0.234	301	0.168	0.220	1.000
2007.4	29	1.5	2.293	0.217	295	0.164	0.204	1.000
2007.6	33	1.7	2.317	0.214	290	0.209	0.186	1.000
2007.8	33	2.0	2.331	0.215	285	0.248	0.174	1.000
2008.0	31	2.1	2.340	0.221	282	0.295	0.165	1.000
2008.2	32	2.0	2.312	0.222	282	0.229	0.187	1.000
2008.4	30	1.8	2.272	0.229	289	0.161	0.217	1.000
2008.6	26	1.5	2.250	0.231	297	0.116	0.234	1.000
2008.8	22	1.4	2.245	0.214	301	0.032	0.244	1.000
2009.0	25	1.4	2.261	0.199	302	0.014	0.236	1.000
2009.2	31	1.5	2.288	0.202	302	0.092	0.213	1.000
2009.4	42	1.6	2.314	0.212	299	0.193	0.189	1.000
2009.6	47	1.8	2.323	0.223	296	0.257	0.178	1.000
2009.8	59	2.1	2.361	0.232	289	0.388	0.148	1.000
2010.0	70	2.7	2.414	0.236	276	0.532	0.037	1.000
2010.2	67	3.4	2.412	0.219	271	0.457	0.081	1.000
2010.4	50	3.1	2.358	0.207	273	0.282	0.155	1.000
2010.6	41	2.3	2.320	0.213	282	0.212	0.183	1.000
2010.8	36	1.9	2.290	0.213	290	Coal		
2011.0	45	1.9	2.223	0.213	297	Coal		
2011.2	64	2.1	2.138	0.223	297	Coal		
2011.4	71	2.4	2.152	0.247	299	Coal		
2011.6	56	2.3	2.253	0.246	290	Coal		
2011.8	40	2.0	2.301	0.220	289	Coal		
2012.0	33	1.7	2.291	0.228	288	Coal		
2012.2	30	1.6	2.284	0.227	291	Coal		
2012.4	28	1.6	2.275	0.227	295	0.159	0.215	1.000
2012.6	27	1.5	2.263	0.234	297	0.160	0.222	1.000
2012.8	27	1.4	2.260	0.238	297	0.165	0.224	1.000
2013.0	25	1.4	2.262	0.227	296	0.127	0.226	1.000
2013.2	26	1.4	2.270	0.227	293	0.147	0.219	1.000
2013.4	28	1.5	2.285	0.224	291	0.172	0.208	1.000
2013.6	28	1.5	2.275	0.225	291	0.151	0.216	1.000
2013.8	28	1.5	2.270	0.219	292	0.113	0.222	1.000
2014.0	29	1.5	2.275	0.218	291	0.123	0.218	1.000
2014.2	30	1.5	2.278	0.215	292	0.119	0.217	1.000
2014.4	30	1.5	2.277	0.224	290	0.152	0.214	1.000
2014.6	29	1.5	2.278	0.216	291	0.122	0.217	1.000
2014.8	31	1.5	2.273	0.219	293	0.123	0.220	1.000
2015.0	40	1.7	2.297	0.198	287	0.097	0.207	1.000
2015.2	48	2.1	2.350	0.174	276	0.130	0.172	1.000
2015.4	48	2.7	2.378	0.179	267	0.218	0.148	1.000
2015.6	38	2.5	2.350	0.199	277	0.229	0.164	1.000
2015.8	30	2.0	2.310	0.201	292	0.140	0.196	1.000
2016.0	29	1.7	2.296	0.203	294	0.113	0.207	1.000
2016.2	34	1.9	2.329	0.196	287	0.166	0.182	1.000
2016.4	42	2.3	2.370	0.178	274	0.195	0.155	1.000
2016.6	48	3.0	2.400	0.168	262	0.227	0.134	1.000
2016.8	51	3.3	2.424	0.168	261	0.285	0.116	1.000
2017.0	53	3.0	2.444	0.175	258	0.361	0.100	1.000
2017.2	62	3.1	2.456	0.186	257	0.434	0.074	1.000
2017.4	60	3.0	2.446	0.195	259	0.447	0.072	1.000

2017.6	51	2.9	2.413	0.198	272	0.378	0.117	1.000
2017.8	41	2.6	2.375	0.192	287	0.260	0.147	1.000
2018.0	35	2.3	2.350	0.192	286	0.199	0.167	1.000
2018.2	32	2.0	2.336	0.209	285	0.236	0.172	1.000
2018.4	28	1.8	2.306	0.220	290	0.208	0.192	1.000
2018.6	26	1.6	2.298	0.233	293	0.241	0.194	1.000
2018.8	28	1.5	2.329	0.225	288	0.282	0.173	1.000
2019.0	31	1.8	2.359	0.209	279	0.291	0.154	1.000
2019.2	30	2.1	2.358	0.204	276	0.269	0.156	1.000
2019.4	27	2.0	2.325	0.196	278	0.156	0.185	1.000
2019.6	28	1.8	2.297	0.202	288	0.113	0.206	1.000
2019.8	28	1.7	2.289	0.223	293	0.177	0.205	1.000
2020.0	25	1.6	2.276	0.225	297	0.151	0.215	1.000
2020.2	24	1.5	2.246	0.222	304	0.070	0.240	1.000
2020.4	25	1.4	2.242	0.232	309	0.097	0.241	1.000
2020.6	30	1.4	2.275	0.244	303	0.229	0.209	1.000
2020.8	35	1.7	2.319	0.234	286	0.294	0.178	1.000
2021.0	34	2.0	2.331	0.201	279	0.191	0.179	1.000
2021.2	30	2.0	2.290	0.219	284	0.164	0.205	1.000
2021.4	29	1.8	2.278	0.231	291	0.183	0.211	1.000
2021.6	31	1.7	2.315	0.202	286	0.158	0.191	1.000
2021.8	33	2.0	2.353	0.188	279	0.194	0.165	1.000
2022.0	34	2.3	2.358	0.188	275	0.205	0.161	1.000
2022.2	32	2.3	2.339	0.188	280	0.159	0.177	1.000
2022.4	27	2.1	2.307	0.199	287	0.124	0.199	1.000
2022.6	23	1.8	2.287	0.219	291	0.157	0.208	1.000
2022.8	24	1.7	2.274	0.223	292	0.141	0.217	1.000
2023.0	25	1.6	2.268	0.223	292	0.126	0.222	1.000
2023.2	25	1.7	2.267	0.218	298	0.105	0.224	1.000
2023.4	25	1.7	2.258	0.218	296	0.083	0.232	1.000
2023.6	26	1.6	2.239	0.213	297	0.014	0.250	0.996
2023.8	28	1.6	2.233	0.203	294	0.000	0.250	0.973
2024.0	31	1.6	2.241	0.193	290	0.000	0.244	0.973
2024.2	45	1.7	2.210	0.200	307	0.000	0.258	0.980
2024.4	59	1.9	2.171	0.257	307	Coal		
2024.6	55	2.2	2.188	0.281	295	Coal		
2024.8	41	2.6	2.286	0.217	266	Coal		
2025.0	29	2.8	2.365	0.164	255	0.125	0.164	1.000
2025.2	25	2.6	2.338	0.162	272	0.049	0.186	1.000
2025.4	21	2.1	2.287	0.184	278	0.014	0.220	1.000
2025.6	20	1.7	2.257	0.218	286	0.079	0.233	1.000
2025.8	20	1.5	2.268	0.244	293	0.212	0.215	1.000
2026.0	22	1.5	2.266	0.253	293	0.242	0.213	1.000
2026.2	23	1.6	2.266	0.259	293	0.265	0.211	1.000
2026.4	24	1.6	2.273	0.258	293	0.279	0.206	1.000
2026.6	24	1.6	2.270	0.251	296	0.244	0.211	1.000
2026.8	24	1.5	2.267	0.244	296	0.209	0.215	1.000
2027.0	27	1.5	2.267	0.240	295	0.193	0.217	1.000
2027.2	31	1.4	2.269	0.244	291	0.211	0.214	1.000
2027.4	42	1.6	2.289	0.232	278	0.215	0.202	1.000
2027.6	61	2.3	2.345	0.224	270	0.320	0.161	1.000
2027.8	86	3.4	2.432	0.216	265	0.496	0.052	1.000
2028.0	100	6.3	2.476	0.214	260	0.594	0.002	1.000
2028.2	96	9.1	2.482	0.225	263	0.655	0.000	1.000
2028.4	67	9.2	2.452	0.242	266	0.648	0.000	0.968
2028.6	38	4.4	2.374	0.241	276	0.455	0.099	0.971
2028.8	26	2.5	2.293	0.212	289	0.142	0.206	0.984
2029.0	26	1.7	2.260	0.194	297	0.000	0.237	1.000
2029.2	29	1.6	2.272	0.197	295	0.032	0.228	1.000
2029.4	30	1.7	2.296	0.209	295	0.135	0.205	1.000
2029.6	29	1.8	2.303	0.216	292	0.181	0.197	1.000
2029.8	33	2.0	2.332	0.207	288	0.218	0.176	1.000
2030.0	41	2.6	2.374	0.193	279	0.261	0.148	1.000
2030.2	47	3.2	2.395	0.172	272	0.233	0.137	1.000
2030.4	45	3.4	2.394	0.156	270	0.162	0.143	1.000

2030.6	42	3.3	2.396	0.139	268	0.101	0.147	1.000
2030.8	43	3.5	2.403	0.144	261	0.138	0.140	1.000
2031.0	44	3.5	2.415	0.155	260	0.210	0.127	1.000
2031.2	40	3.7	2.428	0.166	257	0.285	0.114	1.000
2031.4	38	3.5	2.419	0.176	263	0.306	0.118	1.000
2031.6	40	3.3	2.389	0.176	263	0.230	0.141	1.000
2031.8	41	3.2	2.384	0.174	267	0.212	0.145	1.000
2032.0	39	2.9	2.393	0.181	268	0.262	0.136	1.000
2032.2	37	2.8	2.375	0.177	274	0.203	0.151	1.000
2032.4	44	2.7	2.376	0.184	271	0.233	0.148	1.000
2032.6	62	3.1	2.426	0.197	262	0.407	0.105	1.000
2032.8	78	4.4	2.506	0.192	246	0.580	0.005	1.000
2033.0	79	5.8	2.528	0.179	242	0.584	0.003	1.000
2033.2	73	6.9	2.511	0.180	246	0.543	0.015	0.960
2033.4	77	6.2	2.404	0.180	253	0.286	0.127	0.960
2033.6	88	6.0	2.150	0.206	250	0.831	0.000	0.960
2033.8	98	6.6	1.950	0.245	248	0.969	0.000	0.960
2034.0	98	8.1	1.977	0.246	247	0.970	0.000	1.000
2034.2	98	9.5	2.171	0.222	246	0.972	0.000	1.000
2034.4	99	10.0	2.240	0.222	247	0.981	0.000	1.000
2034.6	102	10.3	2.173	0.235	251	1.000	0.000	1.000
2034.8	100	10.1	2.146	0.256	265	1.000	0.000	1.000
2035.0	91	9.6	2.166	0.274	272	0.870	0.000	1.000
2035.2	81	8.4	2.176	0.260	267	0.726	0.000	1.000
2035.4	84	6.9	2.030	0.287	265	0.775	0.000	1.000
2035.6	92	6.4	1.941	0.312	257	0.886	0.000	1.000
2035.8	96	6.7	2.041	0.293	253	0.941	0.000	1.000
2036.0	96	8.2	2.240	0.276	251	0.950	0.000	1.000
2036.2	98	9.2	2.349	0.270	248	0.972	0.000	1.000
2036.4	98	9.8	2.304	0.248	247	0.968	0.000	1.000
2036.6	92	10.5	2.257	0.235	244	0.895	0.000	1.000
2036.8	88	11.5	2.277	0.229	240	0.826	0.000	1.000
2037.0	84	10.9	2.272	0.264	249	0.774	0.000	1.000
2037.2	84	8.9	2.211	0.298	252	0.772	0.000	1.000
2037.4	84	7.0	2.191	0.321	270	0.768	0.000	1.000
2037.6	83	5.6	2.229	0.303	293	0.750	0.000	1.000
2037.8	84	4.9	2.202	0.310	308	0.771	0.000	1.000
2038.0	91	4.8	2.151	0.302	308	0.871	0.000	1.000
2038.2	93	5.1	2.139	0.338	281	0.909	0.000	1.000
2038.4	94	6.1	2.147	0.349	257	0.916	0.000	1.000
2038.6	99	6.7	2.207	0.318	259	0.989	0.000	1.000
2038.8	95	7.1	2.210	0.298	266	Volcanics		
2039.0	81	7.0	2.222	0.346	272	Volcanics		
2039.2	62	6.0	2.282	0.394	284	Volcanics		
2039.4	44	3.4	2.283	0.429	296	Volcanics		
2039.6	33	1.7	2.292	0.455	298	Volcanics		
2039.8	34	1.1	2.316	0.466	297	Volcanics		
2040.0	34	1.1	2.410	0.424	280	Volcanics		
2040.2	33	1.5	2.699	0.336	251	Volcanics		
2040.4	29	2.1	2.867	0.230	213	Volcanics		
2040.6	26	3.2	2.820	0.128	195	Volcanics		
2040.8	23	3.6	2.714	0.077	189	Volcanics		
2041.0	20	4.6	2.593	0.076	179	Volcanics		
2041.2	23	6.0	2.532	0.092	181	Volcanics		
2041.4	25	8.2	2.585	0.116	187	Volcanics		
2041.6	25	10.0	2.567	0.157	193	Volcanics		
2041.8	23	7.3	2.454	0.230	199	Volcanics		
2042.0	22	6.8	2.445	0.252	209	Volcanics		
2042.2	21	7.9	2.589	0.203	207	Volcanics		
2042.4	23	14.2	2.700	0.161	204	Volcanics		
2042.6	23	26.6	2.709	0.182	193	Volcanics		
2042.8	23	30.6	2.716	0.205	192	Volcanics		
2043.0	25	33.3	2.732	0.215	194	Volcanics		
2043.2	26	32.1	2.709	0.201	192	Volcanics		
2043.4	26	23.4	2.556	0.177	191	Volcanics		

2043.6	26	10.5	2.278	0.189	199	Volcanics		
2043.8	28	3.3	2.111	0.257	249	Volcanics		
2044.0	32	2.1	2.097	0.364	293	Volcanics		
2044.2	33	1.7	2.119	0.413	332	Volcanics		
2044.4	32	1.7	2.164	0.390	322	Volcanics		
2044.6	32	2.2	2.152	0.342	289	Volcanics		
2044.8	34	3.0	2.116	0.331	263	Volcanics		
2045.0	33	3.9	2.129	0.345	266	Volcanics		
2045.2	30	4.7	2.209	0.347	262	Volcanics		
2045.4	27	5.2	2.385	0.277	253	Volcanics		
2045.6	27	6.9	2.513	0.183	237	Volcanics		
2045.8	28	8.2	2.450	0.155	221	Volcanics		
2046.0	28	7.7	2.406	0.199	202	Volcanics		
2046.2	28	7.5	2.558	0.195	208	Volcanics		
2046.4	25	8.7	2.668	0.151	214	Volcanics		
2046.6	23	8.2	2.603	0.167	204	Volcanics		
2046.8	26	4.7	2.401	0.212	205	Volcanics		
2047.0	27	3.0	2.150	0.265	264	Volcanics		
2047.2	26	2.5	2.036	0.307	273	Volcanics		
2047.4	27	2.0	2.011	0.343	287	Volcanics		
2047.6	29	1.8	2.085	0.365	305	Volcanics		
2047.8	28	1.9	2.168	0.382	309	Volcanics		
2048.0	27	2.0	2.226	0.381	324	Volcanics		
2048.2	29	2.3	2.317	0.345	293	Volcanics		
2048.4	29	3.1	2.431	0.303	281	Volcanics		
2048.6	29	5.1	2.555	0.236	248	Volcanics		
2048.8	32	6.0	2.585	0.174	212	Volcanics		
2049.0	32	6.0	2.580	0.151	198	Volcanics		
2049.2	31	4.1	2.597	0.178	199	Volcanics		
2049.4	31	2.2	2.522	0.213	204	Volcanics		
2049.6	33	2.0	2.342	0.267	239	Volcanics		
2049.8	32	1.7	2.269	0.324	269	Volcanics		
2050.0	32	1.4	2.284	0.366	316	Volcanics		
2050.2	32	1.5	2.320	0.358	295	Volcanics		
2050.4	32	1.5	2.385	0.355	290	Volcanics		
2050.6	31	1.8	2.482	0.315	256	Volcanics		
2050.8	29	2.0	2.512	0.307	246	Volcanics		
2051.0	26	2.2	2.491	0.353	248	Volcanics		
2051.2	26	2.5	2.338	0.332	242	Volcanics		
2051.4	35	2.9	2.146	0.296	249	Volcanics		
2051.6	54	3.6	2.072	0.286	251	Volcanics		
2051.8	71	4.2	2.127	0.231	245	Volcanics		
2052.0	83	5.4	2.151	0.188	248	Volcanics		
2052.2	89	6.2	2.180	0.240	245	Volcanics		
2052.4	93	5.7	2.252	0.272	263	0.904	0.000	1.000
2052.6	99	5.6	2.285	0.274	265	0.982	0.000	1.000
2052.8	102	5.7	2.267	0.274	269	1.000	0.000	1.000
2053.0	99	5.8	2.265	0.279	265	0.987	0.000	1.000
2053.2	100	5.8	2.245	0.270	267	0.998	0.000	1.000
2053.4	105	6.0	2.262	0.245	265	1.000	0.000	1.000
2053.6	109	5.7	2.301	0.236	263	1.000	0.000	1.000
2053.8	110	6.9	2.337	0.235	261	1.000	0.000	1.000
2054.0	116	7.0	2.356	0.246	258	1.000	0.000	1.000
2054.2	118	7.1	2.372	0.241	257	1.000	0.000	1.000
2054.4	114	7.1	2.356	0.244	259	1.000	0.000	1.000
2054.6	117	7.1	2.382	0.262	259	1.000	0.000	1.000
2054.8	116	7.2	2.431	0.260	258	1.000	0.000	1.000
2055.0	110	8.4	2.475	0.242	260	1.000	0.000	1.000
2055.2	113	9.7	2.532	0.216	252	1.000	0.000	1.000
2055.4	113	11.0	2.565	0.202	245	1.000	0.000	1.000
2055.6	115	11.3	2.583	0.206	240	0.822	0.000	1.000
2055.8	124	10.8	2.591	0.219	240	0.894	0.000	1.000
2056.0	124	10.4	2.590	0.226	243	0.922	0.000	1.000
2056.2	113	9.7	2.584	0.209	245	0.839	0.000	1.000
2056.4	104	9.1	2.569	0.202	249	0.773	0.000	1.000

2056.6	99	8.7	2.547	0.196	248	0.696	0.000	1.000
2056.8	91	8.1	2.518	0.188	252	0.593	0.002	1.000
2057.0	83	7.2	2.494	0.191	255	0.546	0.017	1.000
2057.2	85	6.2	2.476	0.207	260	0.568	0.011	1.000
2057.4	82	5.7	2.456	0.227	268	0.600	0.000	1.000
2057.6	75	4.9	2.449	0.230	272	0.596	0.002	1.000
2057.8	73	4.7	2.453	0.220	274	0.564	0.015	1.000
2058.0	74	4.6	2.458	0.203	272	0.509	0.038	1.000
2058.2	74	4.1	2.430	0.202	271	0.437	0.085	1.000
2058.4	72	3.6	2.388	0.206	276	0.351	0.133	1.000
2058.6	67	3.3	2.390	0.205	281	0.352	0.133	1.000
2058.8	61	3.0	2.401	0.212	284	0.408	0.118	1.000
2059.0	58	3.0	2.386	0.218	284	0.394	0.132	1.000
2059.2	55	3.0	2.363	0.226	284	0.368	0.147	1.000
2059.4	53	2.3	2.339	0.243	288	0.379	0.161	1.000
2059.6	48	1.7	2.298	0.247	291	0.295	0.190	1.000
2059.8	40	1.6	2.267	0.234	299	0.167	0.219	1.000
2060.0	32	1.6	2.261	0.226	304	Coal		
2060.2	32	1.6	2.073	0.233	302	Coal		
2060.4	33	1.6	2.069	0.237	299	Coal		
2060.6	29	1.6	2.198	0.223	296	Coal		
2060.8	25	1.6	2.283	0.215	295	Coal		
2061.0	23	1.5	2.252	0.212	294	Coal		
2061.2	23	1.5	2.249	0.218	296	0.060	0.240	1.000
2061.4	26	1.5	2.235	0.213	300	0.007	0.252	1.000
2061.6	29	1.5	2.243	0.213	300	0.027	0.246	1.000
2061.8	31	1.6	2.288	0.235	297	0.222	0.202	1.000
2062.0	30	1.7	2.306	0.234	293	0.264	0.188	1.000
2062.2	28	1.6	2.286	0.216	294	0.139	0.210	1.000
2062.4	29	1.6	2.281	0.228	298	0.177	0.210	1.000
2062.6	32	1.7	2.306	0.250	299	0.328	0.183	1.000
2062.8	34	1.8	2.304	0.246	300	0.307	0.186	1.000
2063.0	35	1.9	2.278	0.226	300	0.166	0.212	1.000
2063.2	38	1.8	2.281	0.228	301	0.179	0.210	1.000
2063.4	39	1.8	2.311	0.240	296	0.300	0.182	1.000
2063.6	37	1.8	2.304	0.237	294	0.269	0.188	1.000
2063.8	36	1.7	2.280	0.229	296	0.181	0.210	1.000
2064.0	33	1.7	2.288	0.220	302	0.162	0.207	1.000
2064.2	29	1.8	2.285	0.207	301	0.105	0.213	1.000
2064.4	28	1.7	2.271	0.198	303	0.033	0.228	1.000
2064.6	25	1.6	2.252	0.203	306	0.009	0.242	1.000
2064.8	26	1.5	2.240	0.220	307	0.047	0.246	1.000
2065.0	29	1.5	2.241	0.233	307	0.101	0.241	0.997
2065.2	30	1.6	2.247	0.236	307	0.128	0.235	0.995
2065.4	28	1.6	2.244	0.227	308	0.084	0.240	0.999
2065.6	26	1.5	2.236	0.219	308	0.031	0.250	1.000
2065.8	27	1.5	2.246	0.225	308	0.081	0.240	1.000
2066.0	26	1.6	2.266	0.223	302	0.122	0.224	1.000
2066.2	29	1.6	2.277	0.216	301	0.119	0.217	1.000
2066.4	31	1.8	2.291	0.209	297	0.126	0.208	1.000
2066.6	34	1.8	2.297	0.216	294	0.168	0.201	1.000
2066.8	38	1.9	2.280	0.216	294	0.126	0.215	1.000
2067.0	35	1.8	2.263	0.215	299	0.082	0.229	1.000
2067.2	31	1.6	2.271	0.220	304	0.122	0.221	1.000
2067.4	27	1.6	2.307	0.236	303	0.270	0.187	1.000
2067.6	25	1.6	2.304	0.239	301	0.278	0.188	1.000
2067.8	25	1.5	2.275	0.229	302	0.167	0.214	1.000
2068.0	28	1.5	2.257	0.225	301	0.110	0.230	1.000
2068.2	31	1.5	2.241	0.237	301	0.117	0.239	1.000
2068.4	31	1.5	2.238	0.234	301	0.099	0.242	1.000
2068.6	30	1.5	2.245	0.224	302	0.074	0.240	1.000
2068.8	30	1.6	2.264	0.213	301	0.076	0.229	1.000
2069.0	30	1.6	2.274	0.207	300	0.076	0.223	1.000
2069.2	33	1.7	2.276	0.216	298	0.117	0.218	1.000
2069.4	37	1.8	2.284	0.222	296	0.160	0.209	1.000

2069.6	40	1.9	2.297	0.225	293	0.203	0.198	1.000
2069.8	36	1.9	2.304	0.213	292	0.174	0.197	1.000
2070.0	31	1.9	2.289	0.205	293	0.105	0.211	1.000
2070.2	29	1.7	2.269	0.219	296	0.115	0.222	1.000
2070.4	31	1.8	2.277	0.214	296	0.114	0.218	1.000
2070.6	35	1.7	2.297	0.196	295	0.088	0.208	1.000
2070.8	42	2.0	2.296	0.191	291	0.067	0.210	1.000
2071.0	55	2.2	2.306	0.199	286	0.122	0.199	1.000
2071.2	54	2.3	2.315	0.218	285	0.220	0.186	1.000
2071.4	40	2.0	2.304	0.230	289	0.239	0.191	1.000
2071.6	29	1.6	2.271	0.223	296	0.133	0.220	1.000
2071.8	23	1.4	2.258	0.215	301	0.072	0.233	1.000
2072.0	25	1.5	2.271	0.208	304	0.074	0.225	1.000
2072.2	32	1.7	2.289	0.202	307	0.093	0.212	1.000
2072.4	38	1.8	2.294	0.200	312	0.098	0.209	1.000
2072.6	47	1.8	2.291	0.230	309	0.209	0.201	1.000
2072.8	73	2.3	2.328	0.281	303	0.504	0.076	1.000
2073.0	109	3.1	2.443	0.299	294	0.855	0.000	1.000
2073.2	127	5.6	2.533	0.288	285	1.000	0.000	1.000
2073.4	129	8.8	2.543	0.286	281	1.000	0.000	1.000
2073.6	128	9.2	2.545	0.269	279	0.982	0.000	1.000
2073.8	121	10.6	2.536	0.251	268	0.892	0.000	1.000
2074.0	117	12.3	2.534	0.255	265	0.900	0.000	1.000
2074.2	112	12.3	2.517	0.247	260	0.827	0.000	0.975
2074.4	93	7.9	2.438	0.240	268	0.610	0.000	0.971
2074.6	65	4.0	2.358	0.232	284	0.383	0.149	0.983
2074.8	46	2.3	2.305	0.207	300	0.153	0.198	0.996
2075.0	38	1.8	2.287	0.198	307	0.071	0.215	1.000
2075.2	39	1.7	2.294	0.196	305	0.082	0.210	1.000
2075.4	41	1.9	2.304	0.211	300	0.168	0.197	1.000
2075.6	41	2.0	2.304	0.229	298	0.236	0.191	1.000
2075.8	38	2.1	2.278	0.229	299	0.175	0.212	0.992
2076.0	33	1.9	2.262	0.232	302	0.146	0.224	1.000
2076.2	29	1.7	2.271	0.237	304	0.190	0.215	1.000
2076.4	24	1.6	2.333	0.240	301	0.354	0.166	1.000
2076.6	20	1.6	2.390	0.245	296	0.509	0.056	1.000
2076.8	19	1.6	2.399	0.266	292	0.615	0.000	1.000
2077.0	21	1.6	2.334	0.273	299	0.489	0.087	1.000
2077.2	22	1.6	2.294	0.263	305	0.350	0.189	1.000
2077.4	23	1.7	2.287	0.245	306	0.262	0.199	1.000
2077.6	26	1.7	2.296	0.251	303	0.305	0.191	1.000
2077.8	28	1.7	2.282	0.258	303	0.301	0.199	1.000
2078.0	27	1.8	2.276	0.252	299	0.264	0.205	1.000
2078.2	30	2.0	2.313	0.234	295	0.281	0.182	1.000
2078.4	36	2.3	2.349	0.224	290	0.326	0.158	1.000
2078.6	49	2.7	2.372	0.209	288	0.321	0.145	1.000
2078.8	70	3.6	2.410	0.227	279	0.490	0.062	1.000
2079.0	82	4.3	2.427	0.251	279	0.625	0.000	0.996
2079.2	70	4.0	2.371	0.254	285	0.500	0.067	0.979
2079.4	52	3.0	2.323	0.238	300	0.321	0.173	0.972
2079.6	49	2.5	2.333	0.237	302	0.339	0.167	0.978
2079.8	55	2.6	2.350	0.221	299	0.317	0.158	1.000
2080.0	56	2.6	2.349	0.218	297	0.305	0.159	1.000
2080.2	51	2.5	2.345	0.239	298	0.375	0.158	1.000
2080.4	48	2.5	2.349	0.239	298	0.385	0.155	1.000
2080.6	53	2.6	2.376	0.224	293	0.391	0.138	1.000
2080.8	53	3.2	2.392	0.203	286	0.347	0.131	1.000
2081.0	53	3.5	2.385	0.211	283	0.362	0.135	1.000
2081.2	53	3.7	2.370	0.223	289	0.375	0.143	0.983
2081.4	49	3.2	2.354	0.218	292	0.314	0.156	0.980
2081.6	45	2.9	2.351	0.211	294	0.281	0.160	1.000
2081.8	45	2.8	2.370	0.209	293	0.318	0.146	1.000
2082.0	50	3.1	2.398	0.207	282	0.378	0.126	1.000
2082.2	54	3.5	2.424	0.202	274	0.419	0.098	1.000
2082.4	52	3.9	2.413	0.207	272	0.414	0.108	1.000

2082.6	47	3.9	2.382	0.205	277	0.333	0.138	1.000
2082.8	41	3.2	2.409	0.205	287	0.396	0.119	1.000
2083.0	33	2.7	2.498	0.197	283	0.581	0.005	1.000
2083.2	28	2.4	2.511	0.212	284	0.675	0.000	1.000
2083.4	29	2.3	2.455	0.216	281	0.553	0.020	1.000
2083.6	39	2.4	2.417	0.198	284	0.391	0.114	1.000
2083.8	57	3.0	2.419	0.192	278	0.367	0.115	1.000
2084.0	73	3.9	2.460	0.210	271	0.539	0.025	1.000
2084.2	80	5.3	2.496	0.211	262	0.631	0.000	1.000
2084.4	82	6.2	2.509	0.198	256	0.610	0.000	1.000
2084.6	82	6.7	2.500	0.182	252	0.524	0.022	1.000
2084.8	78	6.3	2.493	0.190	255	0.542	0.018	1.000
2085.0	75	5.6	2.455	0.188	260	0.438	0.073	1.000
2085.2	73	5.0	2.423	0.176	267	0.314	0.115	1.000
2085.4	70	4.7	2.431	0.183	271	0.361	0.108	1.000
2085.6	64	4.8	2.440	0.196	267	0.435	0.082	1.000
2085.8	61	4.6	2.415	0.194	275	0.366	0.117	1.000
2086.0	65	4.4	2.404	0.194	273	0.341	0.125	1.000
2086.2	66	4.4	2.414	0.189	276	0.343	0.119	1.000
2086.4	67	4.6	2.434	0.198	268	0.427	0.089	1.000
2086.6	64	4.6	2.432	0.221	268	0.516	0.042	1.000
2086.8	55	3.7	2.383	0.230	277	0.436	0.108	0.970
2087.0	47	3.2	2.324	0.223	288	0.261	0.177	0.923
2087.2	38	2.7	2.295	0.215	298	0.159	0.203	0.878
2087.4	36	2.4	2.271	0.220	301	0.123	0.220	0.860
2087.6	34	2.2	2.254	0.227	304	0.108	0.232	0.866
2087.8	29	2.0	2.249	0.221	303	0.071	0.238	0.872
2088.0	24	1.9	2.241	0.201	303	0.000	0.247	0.881
2088.2	22	1.9	2.241	0.203	304	0.000	0.248	0.893
2088.4	23	1.9	2.249	0.220	308	0.069	0.238	0.905
2088.6	24	1.9	2.257	0.228	306	0.121	0.229	0.918
2088.8	25	1.9	2.269	0.218	302	0.111	0.223	0.930
2089.0	25	1.9	2.269	0.210	297	0.076	0.226	0.945
2089.2	23	1.9	2.264	0.216	294	0.087	0.228	0.954
2089.4	24	1.8	2.261	0.204	294	0.034	0.234	0.959
2089.6	23	1.7	2.252	0.199	295	0.000	0.242	0.970
2089.8	19	1.7	2.251	0.194	296	0.000	0.240	0.983
2090.0	20	1.7	2.261	0.187	294	0.000	0.234	0.997
2090.2	26	1.7	2.269	0.190	295	0.000	0.232	1.000
2090.4	37	1.9	2.306	0.183	291	0.059	0.205	1.000
2090.6	47	2.4	2.358	0.185	282	0.191	0.163	0.970
2090.8	44	2.9	2.331	0.204	278	0.203	0.178	0.927
2091.0	32	2.9	2.271	0.222	288	0.129	0.220	0.879
2091.2	28	2.4	2.246	0.236	300	0.125	0.236	0.821
2091.4	28	2.2	2.239	0.240	306	0.122	0.240	0.815
2091.6	30	2.2	2.233	0.241	299	0.112	0.245	0.850
2091.8	30	2.0	2.249	0.241	297	0.153	0.231	0.897
2092.0	29	1.8	2.262	0.239	293	0.175	0.221	0.961
2092.2	29	1.6	2.270	0.223	288	0.134	0.220	1.000
2092.4	28	1.5	2.286	0.230	287	0.197	0.205	1.000
2092.6	27	1.5	2.284	0.239	288	0.231	0.203	1.000
2092.8	23	1.4	2.268	0.234	290	0.169	0.218	1.000
2093.0	22	1.3	2.265	0.229	291	0.142	0.223	1.000
2093.2	20	1.3	2.267	0.233	293	0.163	0.220	1.000
2093.4	19	1.2	2.268	0.231	295	0.158	0.219	1.000
2093.6	17	1.2	2.269	0.232	296	0.166	0.218	1.000
2093.8	18	1.2	2.265	0.238	295	0.179	0.219	1.000
2094.0	20	1.2	2.251	0.220	296	0.072	0.237	1.000
2094.2	21	1.3	2.252	0.200	295	0.000	0.242	1.000
2094.4	22	1.3	2.256	0.209	296	0.041	0.237	1.000
2094.6	25	1.3	2.269	0.230	298	0.157	0.219	1.000
2094.8	25	1.3	2.287	0.234	298	0.215	0.203	1.000
2095.0	22	1.3	2.277	0.231	297	0.179	0.212	1.000
2095.2	21	1.3	2.259	0.221	297	0.095	0.230	1.000
2095.4	22	1.3	2.245	0.221	299	0.063	0.241	1.000

2095.6	25	1.2	2.263	0.226	300	0.127	0.225	1.000
2095.8	30	1.3	2.290	0.214	295	0.141	0.208	1.000
2096.0	38	1.5	2.308	0.208	288	0.161	0.195	1.000
2096.2	47	1.9	2.323	0.220	285	0.249	0.179	1.000
2096.4	48	2.1	2.330	0.223	285	0.276	0.172	1.000
2096.6	42	2.1	2.308	0.236	289	0.274	0.186	1.000
2096.8	41	1.9	2.297	0.236	295	0.246	0.195	1.000
2097.0	41	1.8	2.314	0.217	294	0.212	0.187	1.000
2097.2	41	1.9	2.327	0.210	292	0.219	0.179	1.000
2097.4	40	1.9	2.324	0.214	291	0.227	0.180	1.000
2097.6	34	1.8	2.317	0.217	293	0.221	0.185	1.000
2097.8	29	1.8	2.328	0.222	292	0.266	0.174	1.000
2098.0	28	1.8	2.339	0.207	292	0.234	0.170	1.000
2098.2	31	1.8	2.329	0.199	289	0.180	0.181	1.000
2098.4	33	1.8	2.332	0.213	283	0.240	0.174	1.000
2098.6	35	2.0	2.355	0.205	279	0.265	0.158	1.000
2098.8	38	2.1	2.368	0.187	273	0.227	0.153	1.000
2099.0	39	2.2	2.369	0.186	273	0.223	0.153	1.000
2099.2	41	2.3	2.363	0.184	274	0.202	0.159	1.000
2099.4	43	2.3	2.356	0.183	276	0.179	0.165	1.000
2099.6	37	2.2	2.372	0.204	275	0.301	0.146	1.000
2099.8	35	2.1	2.385	0.205	277	0.338	0.136	1.000
2100.0	34	2.1	2.390	0.180	279	0.248	0.139	1.000
2100.2	35	2.1	2.404	0.167	282	0.234	0.131	1.000
2100.4	36	2.2	2.396	0.167	283	0.213	0.138	1.000
2100.6	36	2.1	2.344	0.169	285	0.096	0.178	1.000
2100.8	35	1.9	2.303	0.174	291	0.014	0.210	1.000
2101.0	36	1.7	2.287	0.183	296	0.014	0.220	1.000
2101.2	34	1.7	2.290	0.200	295	0.087	0.212	1.000
2101.4	30	1.6	2.304	0.209	296	0.155	0.198	1.000
2101.6	29	1.7	2.313	0.202	294	0.152	0.193	1.000
2101.8	31	1.7	2.319	0.211	293	0.204	0.185	1.000
2102.0	32	1.7	2.317	0.224	292	0.250	0.182	1.000
2102.2	34	1.7	2.298	0.244	293	0.284	0.191	1.000
2102.4	34	1.6	2.285	0.246	293	0.260	0.201	1.000
2102.6	34	1.6	2.284	0.227	294	0.184	0.207	1.000
2102.8	34	1.6	2.280	0.217	294	0.132	0.214	1.000
2103.0	35	1.6	2.285	0.212	292	0.123	0.212	1.000
2103.2	34	1.7	2.295	0.190	288	0.061	0.211	1.000
2103.4	32	1.7	2.308	0.194	286	0.107	0.200	1.000
2103.6	36	1.7	2.308	0.217	286	0.197	0.192	1.000
2103.8	37	1.7	2.314	0.224	287	0.241	0.185	1.000
2104.0	35	1.8	2.319	0.218	288	0.228	0.183	1.000
2104.2	34	1.7	2.307	0.212	290	0.177	0.194	1.000
2104.4	34	1.7	2.302	0.208	291	0.150	0.199	1.000
2104.6	33	1.8	2.320	0.219	289	0.237	0.181	1.000
2104.8	36	1.8	2.336	0.225	286	0.297	0.168	1.000
2105.0	35	1.8	2.338	0.218	287	0.275	0.168	1.000
2105.2	33	1.9	2.340	0.195	287	0.189	0.173	1.000
2105.4	36	2.0	2.372	0.175	281	0.187	0.154	1.000
2105.6	43	2.2	2.442	0.173	268	0.348	0.102	1.000
2105.8	45	2.4	2.463	0.178	263	0.420	0.077	1.000
2106.0	45	2.6	2.412	0.182	265	0.312	0.121	1.000
2106.2	47	2.5	2.349	0.179	274	0.148	0.171	1.000
2106.4	47	2.4	2.346	0.173	279	0.116	0.176	1.000
2106.6	44	2.6	2.373	0.171	272	0.173	0.155	1.000
2106.8	42	2.9	2.381	0.165	262	0.169	0.150	1.000
2107.0	39	3.1	2.377	0.168	262	0.171	0.153	1.000
2107.2	38	2.6	2.358	0.168	269	0.124	0.168	1.000
2107.4	34	2.0	2.335	0.166	278	0.060	0.187	1.000
2107.6	33	1.9	2.336	0.164	284	0.056	0.186	1.000
2107.8	36	2.0	2.359	0.165	279	0.116	0.168	1.000
2108.0	39	2.3	2.373	0.168	271	0.160	0.156	1.000
2108.2	40	2.7	2.392	0.192	271	Coal		
2108.4	54	3.0	2.207	0.228	273	Coal		

						Coal		
2108.6	82	3.3	1.972	0.282	280			
2108.8	107	3.4	1.883	0.338	292	1.000	0.000	1.000
2109.0	113	3.8	1.990	0.349	282	1.000	0.000	1.000
2109.2	111	4.5	2.107	0.323	282	1.000	0.000	1.000
2109.4	110	5.9	2.162	0.277	266	1.000	0.000	1.000
2109.6	114	7.5	2.146	0.262	252	1.000	0.000	1.000
2109.8	114	8.9	2.128	0.280	239	1.000	0.000	1.000
2110.0	111	9.1	2.216	0.296	224	1.000	0.000	1.000
2110.2	108	6.6	2.265	0.327	233	1.000	0.000	1.000
2110.4	112	4.8	2.212	0.396	296	1.000	0.000	1.000
2110.6	118	4.1	2.228	0.422	337	1.000	0.000	1.000
2110.8	125	4.2	2.297	0.369	353	1.000	0.000	1.000
2111.0	133	5.0	2.347	0.352	296	1.000	0.000	1.000
2111.2	137	5.7	2.342	0.336	262	1.000	0.000	1.000
2111.4	140	6.0	2.306	0.314	246	1.000	0.000	1.000
2111.6	130	5.4	2.329	0.320	260	1.000	0.000	1.000
2111.8	131	5.1	2.352	0.352	266	1.000	0.000	1.000
2112.0	138	5.0	2.371	0.351	275	1.000	0.000	1.000
2112.2	136	5.8	2.390	0.311	269	1.000	0.000	1.000
2112.4	137	6.1	2.339	0.314	257	1.000	0.000	1.000
2112.6	137	6.7	2.327	0.325	249	1.000	0.000	1.000
2112.8	136	7.0	2.294	0.300	251	1.000	0.000	1.000
2113.0	131	7.6	2.208	0.286	253	1.000	0.000	1.000
2113.2	131	7.4	2.084	0.298	257	1.000	0.000	1.000
2113.4	127	7.0	2.002	0.340	257	1.000	0.000	1.000
2113.6	124	6.4	1.926	0.400	263	1.000	0.000	1.000
2113.8	121	6.3	1.942	0.372	262	1.000	0.000	1.000
2114.0	128	6.8	2.066	0.339	260	1.000	0.000	1.000
2114.2	134	8.0	2.159	0.335	261	1.000	0.000	1.000
2114.4	135	8.7	2.226	0.324	263	1.000	0.000	1.000
2114.6	130	9.3	2.292	0.309	273	1.000	0.000	1.000
2114.8	122	11.7	2.292	0.307	272	1.000	0.000	1.000
2115.0	109	10.8	2.311	0.266	271	1.000	0.000	1.000
2115.2	88	10.0	2.246	0.221	272	0.822	0.000	1.000
2115.4	76	8.9	2.184	0.205	271	0.645	0.000	1.000
2115.6	80	8.7	2.209	0.219	266	0.699	0.000	1.000
2115.8	87	9.3	2.183	0.224	259	0.818	0.000	1.000
2116.0	91	9.9	2.140	0.239	251	0.877	0.000	1.000
2116.2	93	10.3	2.218	0.241	245	0.906	0.000	1.000
2116.4	88	11.6	2.304	0.240	241	0.822	0.000	1.000
2116.6	81	13.2	2.264	0.249	253	0.726	0.000	1.000
2116.8	83	10.1	2.186	0.272	263	0.747	0.000	1.000
2117.0	92	7.7	2.151	0.311	305	0.885	0.000	1.000
2117.2	101	6.3	2.119	0.325	303	1.000	0.000	1.000
2117.4	103	5.3	2.133	0.332	297	1.000	0.000	1.000
2117.6	107	5.4	2.109	0.320	307	1.000	0.000	1.000
2117.8	109	5.4	2.104	0.333	285	1.000	0.000	1.000
2118.0	109	5.3	2.116	0.339	304	1.000	0.000	1.000
2118.2	110	5.5	2.193	0.316	272	1.000	0.000	1.000
2118.4	109	7.6	2.339	0.283	268	1.000	0.000	1.000
2118.6	106	10.6	2.474	0.261	242	1.000	0.000	1.000
2118.8	108	11.2	2.521	0.243	234	1.000	0.000	1.000
2119.0	112	11.5	2.516	0.247	239	1.000	0.000	1.000
2119.2	111	12.0	2.500	0.237	237	1.000	0.000	1.000
2119.4	109	13.1	2.536	0.240	238	1.000	0.000	1.000
2119.6	104	13.7	2.547	0.217	238	1.000	0.000	1.000
2119.8	97	12.7	2.537	0.190	237	0.646	0.000	1.000
2120.0	80	9.6	2.494	0.198	247	0.574	0.008	1.000
2120.2	72	6.7	2.472	0.189	253	0.485	0.044	1.000
2120.4	73	5.9	2.484	0.188	252	0.511	0.031	1.000
2120.6	74	5.6	2.497	0.197	251	0.581	0.006	1.000
2120.8	77	5.3	2.472	0.207	248	0.558	0.016	1.000
2121.0	79	4.2	2.452	0.212	260	0.529	0.031	1.000
2121.2	79	3.9	2.455	0.214	264	0.545	0.023	1.000
2121.4	74	3.6	2.453	0.213	262	0.535	0.028	1.000

2121.6	56	2.9	2.387	0.195	264	0.301	0.137	1.000
2121.8	40	2.5	2.319	0.194	271	0.136	0.190	1.000
2122.0	36	1.9	2.305	0.207	287	0.154	0.197	1.000
2122.2	35	1.8	2.305	0.211	289	0.169	0.196	1.000
2122.4	30	1.8	2.312	0.207	290	0.170	0.192	1.000
2122.6	30	1.8	2.320	0.203	290	0.173	0.187	1.000
2122.8	31	2.0	2.340	0.202	287	0.219	0.171	1.000
2123.0	33	2.1	2.365	0.197	281	0.259	0.153	1.000
2123.2	32	2.2	2.349	0.184	280	0.166	0.170	1.000
2123.4	33	2.2	2.326	0.185	278	0.114	0.188	1.000
2123.6	32	2.1	2.309	0.183	284	0.066	0.202	1.000
2123.8	32	2.1	2.312	0.169	284	0.017	0.204	1.000
2124.0	33	2.2	2.338	0.147	283	0.000	0.189	1.000
2124.2	37	2.5	2.360	0.128	278	0.000	0.173	1.000
2124.4	43	2.9	2.376	0.108	267	0.000	0.159	1.000
2124.6	45	3.5	2.415	0.102	257	0.000	0.142	1.000
2124.8	42	4.2	2.457	0.096	249	0.076	0.111	1.000
2125.0	44	4.7	2.446	0.088	242	0.016	0.122	1.000
2125.2	52	4.3	2.410	0.106	242	0.000	0.146	1.000
2125.4	55	3.0	2.364	0.154	254	0.081	0.168	1.000
2125.6	47	2.3	2.327	0.193	271	0.151	0.184	1.000
2125.8	37	2.0	2.331	0.201	289	0.193	0.178	1.000
2126.0	34	2.0	2.345	0.189	292	0.180	0.171	1.000
2126.2	33	2.0	2.370	0.183	290	0.215	0.153	1.000
2126.4	33	2.0	2.410	0.181	287	0.303	0.123	1.000
2126.6	34	2.0	2.432	0.192	286	0.400	0.105	1.000
2126.8	38	2.1	2.420	0.189	285	0.362	0.114	1.000
2127.0	45	2.4	2.410	0.162	282	0.229	0.128	1.000
2127.2	50	2.7	2.424	0.135	275	0.153	0.126	1.000
2127.4	54	3.8	2.445	0.117	264	0.130	0.115	1.000
2127.6	72	5.1	2.460	0.148	259	0.290	0.094	1.000
2127.8	83	7.5	2.480	0.204	261	0.567	0.011	1.000
2128.0	73	9.8	2.495	0.198	248	0.578	0.006	0.975
2128.2	56	11.3	2.478	0.133	223	0.275	0.084	0.920
2128.4	48	6.3	2.426	0.120	230	0.096	0.129	0.932
2128.6	48	4.6	2.382	0.150	240	0.111	0.154	0.949
2128.8	48	3.2	2.380	0.169	264	0.182	0.150	0.994
2129.0	47	2.7	2.368	0.173	270	0.170	0.158	1.000
2129.2	45	2.5	2.346	0.187	274	0.172	0.171	1.000
2129.4	46	2.4	2.353	0.197	277	0.226	0.163	1.000
2129.6	48	2.5	2.352	0.193	274	0.210	0.164	1.000
2129.8	50	2.5	2.341	0.184	277	0.148	0.176	1.000
2130.0	54	2.4	2.347	0.198	279	0.216	0.167	1.000
2130.2	56	2.4	2.355	0.196	281	0.228	0.162	1.000
2130.4	52	2.4	2.359	0.192	282	0.221	0.160	1.000
2130.6	46	2.4	2.353	0.182	281	0.169	0.168	1.000
2130.8	47	2.4	2.352	0.181	280	0.164	0.168	1.000
2131.0	46	2.4	2.361	0.188	279	0.211	0.159	1.000
2131.2	48	2.4	2.368	0.198	279	0.271	0.150	1.000
2131.4	52	2.5	2.366	0.196	278	0.254	0.153	1.000
2131.6	55	2.8	2.373	0.179	273	0.208	0.152	1.000
2131.8	54	2.9	2.381	0.167	270	0.173	0.150	1.000
2132.0	52	3.0	2.375	0.181	268	0.217	0.150	1.000
2132.2	53	2.9	2.362	0.186	273	0.206	0.159	1.000
2132.4	50	2.6	2.351	0.183	275	0.169	0.168	1.000
2132.6	45	2.3	2.348	0.182	278	0.155	0.172	1.000
2132.8	43	2.2	2.338	0.184	278	0.138	0.179	1.000
2133.0	40	2.1	2.330	0.190	282	0.145	0.183	1.000
2133.2	43	2.2	2.332	0.191	279	0.150	0.182	1.000
2133.4	46	2.3	2.335	0.175	276	0.096	0.184	1.000
2133.6	44	2.4	2.318	0.171	276	0.038	0.199	0.986
2133.8	43	2.3	2.294	0.185	277	0.040	0.213	0.982
2134.0	42	2.2	2.302	0.195	281	0.097	0.204	0.981
2134.2	43	2.1	2.317	0.196	283	0.135	0.192	0.994
2134.4	45	2.1	2.312	0.194	283	0.119	0.196	1.000

2134.6	45	2.0	2.307	0.204	284	0.146	0.197	1.000
2134.8	44	1.9	2.321	0.218	287	0.233	0.181	1.000
2135.0	42	2.0	2.339	0.227	285	0.314	0.165	1.000
2135.2	44	2.2	2.341	0.222	285	0.301	0.164	1.000
2135.4	45	2.3	2.324	0.198	284	0.162	0.185	1.000
2135.6	45	2.3	2.319	0.199	283	0.153	0.189	1.000
2135.8	43	2.1	2.311	0.210	287	0.176	0.192	1.000
2136.0	44	2.0	2.311	0.219	287	0.218	0.188	1.000
2136.2	52	2.0	2.296	0.228	286	Coal		
2136.4	66	2.2	2.161	0.253	295	Coal		
2136.6	78	2.8	2.055	0.322	302	Coal		
2136.8	89	3.5	2.117	0.361	291	Coal		
2137.0	94	4.4	2.292	0.343	294	Coal		
2137.2	98	5.8	2.369	0.313	260	Coal		
2137.4	100	6.6	2.295	0.340	266	Coal		
2137.6	98	6.9	2.281	0.348	247	Coal		
2137.8	97	6.9	2.457	0.320	249	Coal		
2138.0	98	7.7	2.550	0.293	240	Coal		
2138.2	96	9.2	2.547	0.273	245	1.000	0.000	1.000
2138.4	99	10.0	2.520	0.277	246	0.956	0.000	1.000
2138.6	101	10.7	2.527	0.303	247	1.000	0.000	1.000
2138.8	102	12.0	2.462	0.321	254	0.989	0.000	1.000
2139.0	103	11.6	2.395	0.306	266	0.769	0.000	1.000
2139.2	104	10.0	2.443	0.292	271	0.830	0.000	1.000
2139.4	105	8.7	2.524	0.312	272	1.000	0.000	1.000
2139.6	106	8.8	2.513	0.345	271	1.000	0.000	1.000
2139.8	109	9.4	2.484	0.357	282	1.000	0.000	1.000
2140.0	111	10.1	2.473	0.343	291	1.000	0.000	1.000
2140.2	111	10.9	2.498	0.324	290	1.000	0.000	1.000
2140.4	109	11.4	2.532	0.296	281	1.000	0.000	1.000
2140.6	112	11.8	2.534	0.314	271	1.000	0.000	1.000
2140.8	114	11.9	2.525	0.329	273	1.000	0.000	1.000
2141.0	111	11.8	2.525	0.332	272	1.000	0.000	1.000
2141.2	111	10.7	2.533	0.330	275	1.000	0.000	1.000
2141.4	111	9.4	2.525	0.337	278	1.000	0.000	1.000
2141.6	111	8.3	2.531	0.333	282	1.000	0.000	1.000
2141.8	112	8.6	2.529	0.324	286	1.000	0.000	1.000
2142.0	109	9.7	2.534	0.304	283	1.000	0.000	1.000
2142.2	108	11.3	2.538	0.279	275	1.000	0.000	1.000
2142.4	110	13.2	2.525	0.258	268	0.889	0.000	1.000
2142.6	113	12.8	2.534	0.267	260	0.949	0.000	1.000
2142.8	116	11.4	2.542	0.271	255	0.983	0.000	1.000
2143.0	109	8.1	2.510	0.263	253	0.875	0.000	1.000
2143.2	91	4.8	2.452	0.243	266	0.654	0.000	1.000
2143.4	64	4.2	2.417	0.208	278	0.429	0.096	1.000
2143.6	42	4.6	2.440	0.151	259	0.256	0.109	1.000
2143.8	38	7.4	2.480	0.111	225	0.194	0.089	1.000
2144.0	40	21.3	2.527	0.081	193	0.184	0.062	1.000
2144.2	40	25.4	2.597	0.049	193	0.229	0.016	1.000
2144.4	40	1187.5	2.644	0.032	184	0.275	0.000	1.000
2144.6	45	2938.2	2.643	0.029	178	0.262	0.000	1.000
2144.8	52	72.8	2.612	0.038	175	0.222	0.008	1.000
2145.0	55	29.7	2.508	0.070	170	0.097	0.079	1.000
2145.2	57	17.0	2.414	0.113	189	0.040	0.140	1.000
2145.4	57	12.2	2.378	0.127	225	0.009	0.164	1.000
2145.6	54	10.5	2.406	0.114	244	0.026	0.146	1.000
2145.8	51	13.6	2.503	0.075	232	0.105	0.081	1.000
2146.0	49	19.0	2.618	0.037	199	0.232	0.004	1.000
2146.2	46	34.3	2.644	0.019	179	0.221	0.000	1.000
2146.4	44	204.0	2.643	0.017	169	0.211	0.000	1.000
2146.6	44	191.1	2.645	0.017	182	0.217	0.000	1.000
2146.8	41	165.4	2.642	0.020	188	0.220	0.000	1.000
2147.0	38	168.4	2.642	0.021	185	0.227	0.000	1.000
2147.2	38	164.3	2.647	0.022	184	0.242	0.000	1.000
2147.4	39	168.8	2.642	0.021	183	0.223	0.000	1.000

2147.6	38	160.8	2.627	0.018	184	0.176	0.002	1.000
2147.8	37	145.8	2.617	0.020	184	0.162	0.008	1.000
2148.0	37	124.5	2.642	0.032	184	0.271	0.000	1.000
2148.2	38	87.0	2.635	0.043	181	0.296	0.000	1.000
2148.4	40	34.0	2.546	0.058	180	0.140	0.053	1.000
2148.6	40	13.2	2.423	0.083	195	0.000	0.131	1.000
2148.8	42	8.4	2.395	0.097	195	0.000	0.147	1.000
2149.0	41	8.9	2.467	0.082	194	0.045	0.107	1.000
2149.2	42	10.1	2.579	0.076	180	0.292	0.023	1.000
2149.4	41	7.3	2.564	0.108	196	0.386	0.028	1.000
2149.6	39	3.5	2.455	0.159	223	0.324	0.096	1.000
2149.8	38	2.2	2.392	0.184	256	0.271	0.136	1.000
2150.0	39	2.1	2.401	0.192	271	0.326	0.127	1.000
2150.2	39	2.1	2.403	0.192	269	0.330	0.126	1.000
2150.4	38	2.1	2.375	0.178	272	0.206	0.151	1.000
2150.6	41	2.0	2.349	0.187	272	0.179	0.169	1.000
2150.8	44	2.0	2.343	0.199	277	0.213	0.170	1.000
2151.0	41	1.9	2.354	0.214	275	0.301	0.157	1.000
2151.2	35	1.9	2.357	0.211	275	0.295	0.155	1.000
2151.4	32	1.9	2.352	0.209	277	0.276	0.159	1.000
2151.6	36	2.0	2.362	0.197	278	0.253	0.155	1.000
2151.8	41	2.2	2.380	0.184	275	0.242	0.145	1.000
2152.0	36	2.3	2.390	0.172	269	0.217	0.142	1.000
2152.2	36	2.4	2.394	0.167	266	0.209	0.140	1.000
2152.4	44	2.5	2.415	0.182	264	0.318	0.120	1.000
2152.6	44	2.7	2.428	0.191	261	0.385	0.108	1.000
2152.8	42	2.9	2.439	0.178	259	0.363	0.103	1.000
2153.0	43	2.9	2.430	0.174	257	0.323	0.110	1.000
2153.2	40	2.6	2.396	0.172	260	0.235	0.136	1.000
2153.4	37	2.5	2.376	0.158	263	0.130	0.157	1.000
2153.6	37	2.5	2.364	0.151	264	0.071	0.169	1.000
2153.8	36	2.5	2.372	0.159	266	0.122	0.160	1.000
2154.0	37	2.4	2.380	0.179	266	0.225	0.146	1.000
2154.2	37	2.4	2.376	0.189	268	0.251	0.147	1.000
2154.4	38	2.4	2.384	0.182	268	0.242	0.143	1.000
2154.6	37	2.5	2.423	0.156	263	0.232	0.120	1.000
2154.8	39	2.8	2.465	0.132	256	0.239	0.095	1.000
2155.0	44	3.0	2.474	0.124	253	0.229	0.090	1.000
2155.2	51	3.2	2.460	0.126	252	0.205	0.100	1.000
2155.4	60	3.6	2.490	0.123	248	0.264	0.078	1.000
2155.6	67	5.2	2.549	0.107	237	0.342	0.039	1.000
2155.8	65	6.1	2.530	0.097	226	0.257	0.055	1.000
2156.0	52	4.6	2.442	0.118	234	0.131	0.116	1.000
2156.2	40	3.1	2.365	0.145	252	0.048	0.170	1.000
2156.4	37	2.6	2.356	0.151	268	0.053	0.175	1.000
2156.6	36	2.7	2.358	0.155	266	0.070	0.172	1.000
2156.8	36	2.8	2.365	0.146	265	0.050	0.170	1.000
2157.0	36	2.9	2.379	0.139	263	0.059	0.160	1.000
2157.2	40	2.9	2.389	0.139	261	0.084	0.152	1.000
2157.4	40	3.0	2.390	0.135	257	0.069	0.153	1.000
2157.6	37	3.0	2.397	0.134	258	0.084	0.147	1.000
2157.8	40	2.9	2.400	0.133	258	0.085	0.146	1.000
2158.0	41	2.9	2.393	0.131	260	0.063	0.151	1.000
2158.2	43	3.2	2.396	0.131	258	0.067	0.149	1.000
2158.4	49	3.7	2.422	0.121	253	0.094	0.131	1.000
2158.6	53	4.0	2.425	0.131	248	0.140	0.126	1.000
2158.8	53	3.4	2.390	0.149	256	0.126	0.148	1.000
2159.0	44	2.8	2.354	0.164	265	0.099	0.172	1.000
2159.2	38	2.4	2.337	0.173	277	0.095	0.183	1.000
2159.4	36	2.3	2.339	0.173	280	0.096	0.182	1.000
2159.6	33	2.2	2.339	0.171	281	0.090	0.182	1.000
2159.8	37	2.1	2.339	0.175	279	0.105	0.181	1.000
2160.0	47	2.3	2.344	0.173	274	0.111	0.177	1.000
2160.2	59	2.6	2.370	0.166	266	0.146	0.159	1.000
2160.4	59	3.4	2.393	0.161	259	0.184	0.142	1.000

2160.6	52	3.6	2.383	0.164	257	0.169	0.149	0.997
2160.8	45	3.3	2.364	0.162	257	0.115	0.165	0.978
2161.0	42	3.0	2.347	0.156	256	0.050	0.180	0.959
2161.2	38	2.5	2.327	0.168	258	0.048	0.193	0.953
2161.4	38	2.2	2.293	0.185	268	0.035	0.215	0.956
2161.6	37	2.1	2.286	0.207	279	0.104	0.213	0.951
2161.8	32	2.1	2.295	0.215	287	0.160	0.203	0.934
2162.0	30	2.2	2.292	0.200	289	0.090	0.211	0.932
2162.2	34	2.4	2.292	0.180	289	0.013	0.217	0.955
2162.4	36	2.5	2.323	0.170	286	0.047	0.195	0.996
2162.6	39	2.7	2.365	0.162	279	0.116	0.165	1.000
2162.8	35	2.6	2.386	0.160	275	0.162	0.148	1.000
2163.0	34	2.9	2.399	0.158	269	0.185	0.139	1.000
2163.2	34	3.2	2.398	0.154	260	0.165	0.141	1.000
2163.4	35	3.8	2.405	0.138	255	0.121	0.140	1.000
2163.6	39	4.0	2.428	0.122	251	0.110	0.126	1.000
2163.8	42	3.9	2.429	0.129	257	0.142	0.123	1.000
2164.0	45	3.4	2.384	0.161	265	0.158	0.150	1.000
2164.2	49	3.0	2.349	0.180	271	0.148	0.172	0.990
2164.4	53	3.0	2.344	0.168	273	0.093	0.179	0.951
2164.6	53	3.1	2.348	0.165	268	0.090	0.176	0.945
2164.8	54	3.2	2.367	0.163	266	0.125	0.163	0.948
2165.0	52	3.3	2.373	0.163	264	0.140	0.158	0.945
2165.2	50	3.3	2.369	0.162	265	0.128	0.161	0.945
2165.4	48	3.3	2.357	0.167	265	0.117	0.169	0.948
2165.6	50	3.4	2.363	0.160	265	0.104	0.166	0.950
2165.8	53	3.6	2.384	0.161	264	0.160	0.149	0.960
2166.0	50	3.8	2.396	0.171	260	0.228	0.137	0.978
2166.2	50	4.0	2.406	0.158	258	0.203	0.133	0.989
2166.4	51	4.1	2.408	0.155	257	0.195	0.132	0.993
2166.6	55	4.0	2.401	0.162	254	0.205	0.136	0.981
2166.8	52	3.6	2.387	0.178	258	0.238	0.141	0.974
2167.0	45	3.2	2.354	0.186	261	0.188	0.165	0.972
2167.2	44	2.8	2.342	0.192	266	0.182	0.173	0.969
2167.4	45	2.5	2.337	0.199	274	0.198	0.174	0.966
2167.6	46	2.6	2.335	0.197	274	0.187	0.177	0.978
2167.8	48	2.7	2.346	0.195	272	0.201	0.169	0.981
2168.0	46	2.8	2.353	0.198	268	0.230	0.162	0.981
2168.2	42	2.7	2.343	0.187	267	0.164	0.174	0.991
2168.4	40	2.4	2.327	0.169	270	0.055	0.192	1.000
2168.6	38	2.2	2.326	0.178	273	0.088	0.190	1.000
2168.8	38	2.3	2.341	0.199	272	0.206	0.172	1.000
2169.0	36	2.3	2.348	0.206	271	0.254	0.164	1.000
2169.2	36	2.4	2.345	0.192	271	0.187	0.171	1.000
2169.4	37	2.4	2.331	0.185	276	0.127	0.184	1.000
2169.6	39	2.2	2.318	0.192	280	0.125	0.192	0.989
2169.8	36	2.3	2.308	0.204	280	0.146	0.196	0.976
2170.0	34	2.4	2.315	0.198	278	0.142	0.192	0.980
2170.2	36	2.4	2.327	0.180	278	0.098	0.189	1.000
2170.4	42	2.5	2.349	0.175	278	0.132	0.173	1.000
2170.6	47	2.8	2.396	0.168	274	0.217	0.137	1.000
2170.8	51	3.4	2.446	0.142	265	0.234	0.106	1.000
2171.0	58	5.3	2.484	0.128	243	0.271	0.081	1.000
2171.2	61	6.4	2.498	0.145	234	0.374	0.068	1.000
2171.4	51	4.4	2.444	0.166	253	0.326	0.102	1.000
2171.6	46	3.6	2.156	0.209	278	Coal		
2171.8	60	3.3	2.026	0.307	329	Coal		
2172.0	80	5.7	2.169	0.323	313	Coal		
2172.2	89	9.7	2.467	0.234	299	Coal		
2172.4	87	12.2	2.596	0.179	234	Coal		
2172.6	79	9.6	2.550	0.172	243	0.610	0.000	1.000
2172.8	67	6.9	2.481	0.181	251	0.475	0.045	1.000
2173.0	64	5.6	2.450	0.194	257	0.452	0.068	1.000
2173.2	69	4.9	2.444	0.194	261	0.440	0.077	1.000
2173.4	73	5.3	2.451	0.186	257	0.423	0.082	1.000

2173.6	76	5.7	2.468	0.181	257	0.445	0.064	1.000
2173.8	73	6.0	2.456	0.178	257	0.403	0.089	1.000
2174.0	65	5.4	2.426	0.184	263	0.356	0.111	1.000
2174.2	62	4.5	2.411	0.197	268	0.367	0.120	0.989
2174.4	63	4.0	2.410	0.198	270	0.371	0.120	0.975
2174.6	63	4.1	2.413	0.189	268	0.341	0.120	0.969
2174.8	61	4.5	2.413	0.181	268	0.309	0.121	0.953
2175.0	59	5.0	2.412	0.185	265	0.324	0.121	0.940
2175.2	55	4.8	2.409	0.194	266	0.354	0.121	0.934
2175.4	55	4.8	2.420	0.186	267	0.348	0.115	0.935
2175.6	53	4.8	2.422	0.168	265	0.278	0.118	0.915
2175.8	53	5.0	2.426	0.158	261	0.251	0.117	0.938
2176.0	69	5.8	2.375	0.173	254	0.187	0.153	0.948
2176.2	93	5.9	2.196	0.255	277	Coal		
2176.4	113	6.8	2.162	0.349	275	Coal		
2176.6	124	8.2	2.328	0.342	273	Coal		
2176.8	125	9.3	2.545	0.280	244	Coal		
2177.0	101	7.1	2.507	0.224	244	0.710	0.000	1.000
2177.2	70	4.7	2.414	0.199	262	0.385	0.116	1.000
2177.4	58	2.5	2.332	0.196	280	0.172	0.180	0.998
2177.6	58	2.1	2.307	0.200	288	0.130	0.198	0.985
2177.8	57	2.0	2.299	0.200	294	0.110	0.205	0.966
2178.0	59	2.0	2.284	0.205	295	0.096	0.215	0.949
2178.2	60	2.1	2.274	0.210	293	0.090	0.221	0.948
2178.4	61	2.1	2.286	0.196	292	0.063	0.217	0.948
2178.6	63	2.1	2.308	0.184	287	0.066	0.203	0.958
2178.8	60	2.3	2.323	0.181	282	0.092	0.191	0.968
2179.0	57	2.4	2.331	0.188	280	0.137	0.183	0.982
2179.2	58	2.4	2.320	0.202	281	0.167	0.187	0.989
2179.4	59	2.3	2.324	0.206	282	0.194	0.182	0.995
2179.6	58	2.3	2.334	0.186	279	0.139	0.181	1.000
2179.8	57	2.6	2.349	0.166	271	0.093	0.176	1.000
2180.0	55	2.9	2.381	0.154	261	0.123	0.154	1.000
2180.2	53	3.5	2.414	0.141	255	0.152	0.132	1.000
2180.4	54	3.9	2.429	0.136	250	0.167	0.122	1.000
2180.6	52	4.4	2.423	0.135	247	0.150	0.127	1.000
2180.8	48	4.7	2.420	0.132	246	0.131	0.130	1.000
2181.0	46	4.9	2.427	0.130	245	0.139	0.125	1.000
2181.2	46	5.1	2.443	0.128	245	0.171	0.113	1.000
2181.4	51	5.9	2.466	0.124	241	0.208	0.097	1.000
2181.6	51	6.6	2.481	0.106	237	0.176	0.090	1.000
2181.8	49	7.2	2.477	0.094	235	0.119	0.096	1.000
2182.0	50	7.9	2.484	0.098	233	0.150	0.090	1.000
2182.2	51	7.5	2.491	0.098	233	0.166	0.085	1.000
2182.4	52	7.6	2.502	0.088	234	0.155	0.079	1.000
2182.6	53	8.7	2.515	0.075	227	0.132	0.072	1.000
2182.8	50	9.7	2.536	0.068	224	0.158	0.058	1.000
2183.0	49	11.3	2.540	0.076	220	0.197	0.053	1.000
2183.2	46	10.3	2.531	0.081	220	0.199	0.058	1.000
2183.4	45	9.2	2.513	0.084	225	0.163	0.072	1.000
2183.6	46	9.3	2.510	0.082	225	0.150	0.074	1.000
2183.8	44	9.3	2.522	0.081	222	0.174	0.065	1.000
2184.0	48	8.8	2.486	0.098	225	0.152	0.089	1.000
2184.2	53	7.4	2.467	0.113	233	0.171	0.099	1.000
2184.4	53	7.5	2.494	0.100	235	0.184	0.081	1.000
2184.6	53	9.9	2.520	0.076	224	0.148	0.068	1.000
2184.8	54	12.0	2.517	0.073	218	0.128	0.071	1.000
2185.0	55	13.0	2.531	0.077	219	0.180	0.059	1.000
2185.2	56	15.2	2.557	0.071	218	0.222	0.041	1.000
2185.4	55	17.9	2.563	0.068	210	0.224	0.037	1.000
2185.6	54	20.3	2.554	0.072	210	0.215	0.043	1.000
2185.8	55	15.6	2.529	0.082	208	0.198	0.059	1.000
2186.0	56	6.5	2.468	0.112	229	0.168	0.098	1.000
2186.2	58	3.8	2.397	0.138	259	0.099	0.146	1.000
2186.4	65	3.1	2.351	0.146	282	0.019	0.180	0.996

2186.6	77	3.9	2.385	0.164	281	0.173	0.148	0.973
2186.8	98	5.3	2.477	0.215	258	0.600	0.000	0.969
2187.0	117	7.9	2.565	0.264	239	1.000	0.000	0.981
2187.2	124	10.5	2.567	0.286	237	1.000	0.000	1.000
2187.4	120	10.1	2.455	0.315	244	0.947	0.000	1.000
2187.6	111	8.9	2.281	0.364	261	Coal		
2187.8	107	9.0	2.129	0.396	301	Coal		
2188.0	103	10.9	2.145	0.380	302	Coal		
2188.2	100	11.9	2.279	0.316	295	Coal		
2188.4	100	9.9	2.351	0.301	261	0.639	0.000	1.000
2188.6	101	8.1	2.330	0.328	257	0.699	0.000	1.000
2188.8	105	7.5	2.333	0.326	263	0.696	0.000	1.000
2189.0	114	7.8	2.365	0.317	258	0.740	0.000	1.000
2189.2	115	7.5	2.447	0.329	275	0.984	0.000	1.000
2189.4	115	7.6	2.439	0.364	268	1.000	0.000	1.000
2189.6	113	7.4	2.476	0.370	277	1.000	0.000	1.000
2189.8	108	8.0	2.434	0.386	275	1.000	0.000	1.000
2190.0	101	9.3	2.363	0.378	285	0.979	0.000	1.000
2190.2	95	9.0	2.309	0.360	284	0.774	0.000	1.000
2190.4	97	8.1	2.324	0.349	282	0.766	0.000	0.992
2190.6	85	6.8	2.401	0.288	267	0.712	0.000	1.000
2190.8	61	7.2	2.469	0.170	261	0.404	0.082	1.000
2191.0	46	11.3	2.534	0.084	233	0.217	0.055	1.000
2191.2	47	22.9	2.578	0.058	206	0.218	0.029	1.000
2191.4	48	43.0	2.575	0.054	200	0.196	0.032	1.000
2191.6	49	40.8	2.558	0.052	205	0.146	0.045	0.968
2191.8	47	39.5	2.566	0.041	206	0.123	0.042	1.000
2192.0	45	53.6	2.583	0.030	199	0.116	0.032	1.000
2192.2	47	24.9	2.557	0.042	196	0.104	0.049	1.000
2192.4	50	7.5	2.477	0.080	212	0.060	0.100	1.000
2192.6	48	6.2	2.464	0.084	223	0.047	0.109	1.000
2192.8	43	6.5	2.532	0.054	224	0.089	0.065	1.000
2193.0	42	17.1	2.574	0.036	214	0.119	0.037	1.000
2193.2	43	44.9	2.578	0.036	201	0.131	0.034	1.000
2193.4	46	50.0	2.575	0.036	204	0.125	0.036	0.962
2193.6	48	35.7	2.543	0.045	200	0.079	0.059	0.951
2193.8	50	8.4	2.454	0.088	219	0.039	0.116	0.947
2194.0	47	3.2	2.369	0.135	244	0.020	0.169	0.942
2194.2	46	2.4	2.328	0.161	271	0.026	0.194	0.979
2194.4	49	2.4	2.324	0.167	283	0.037	0.196	0.998
2194.6	50	2.5	2.335	0.165	284	0.056	0.187	1.000
2194.8	49	2.6	2.356	0.156	283	0.073	0.173	1.000
2195.0	49	2.8	2.366	0.151	280	0.077	0.167	1.000
2195.2	46	2.8	2.356	0.159	280	0.084	0.172	1.000
2195.4	46	2.6	2.342	0.170	282	0.091	0.180	1.000
2195.6	46	2.5	2.332	0.170	288	0.069	0.188	1.000
2195.8	45	2.5	2.346	0.171	287	0.108	0.177	1.000
2196.0	44	2.7	2.365	0.169	286	0.147	0.162	1.000
2196.2	52	3.2	2.410	0.148	278	0.171	0.133	1.000
2196.4	69	4.2	2.480	0.130	262	0.268	0.084	1.000
2196.6	85	7.2	2.544	0.151	247	0.507	0.016	1.000
2196.8	105	12.5	2.545	0.186	244	0.652	0.000	1.000
2197.0	118	13.8	2.500	0.212	252	0.645	0.000	1.000
2197.2	125	12.3	2.416	0.260	270	0.635	0.000	1.000
2197.4	127	11.7	2.389	0.335	290	0.868	0.000	1.000
2197.6	127	12.6	2.438	0.323	296	0.942	0.000	1.000
2197.8	125	14.7	2.457	0.277	291	0.800	0.000	0.960
2198.0	120	10.6	2.424	0.259	265	0.652	0.000	0.926
2198.2	100	5.6	2.373	0.222	266	0.379	0.141	0.915
2198.4	75	3.6	2.335	0.186	278	0.141	0.180	0.908
2198.6	64	2.6	2.328	0.187	284	0.128	0.186	0.894
2198.8	65	2.6	2.335	0.188	288	0.147	0.180	0.921
2199.0	68	2.8	2.339	0.184	286	0.144	0.178	0.947
2199.2	69	3.0	2.354	0.187	284	0.192	0.165	0.965
2199.4	72	3.4	2.376	0.194	279	0.270	0.145	0.988

2199.6	75	3.5	2.394	0.188	273	0.292	0.133	1.000
2199.8	75	3.4	2.402	0.187	268	0.305	0.128	1.000
2200.0	83	4.0	2.415	0.169	263	0.268	0.122	1.000
2200.2	106	4.8	2.452	0.144	252	0.255	0.101	1.000
2200.4	123	6.6	2.466	0.151	240	0.321	0.089	0.993
2200.6	123	8.3	2.449	0.200	242	0.474	0.057	1.000
2200.8	108	6.4	2.461	0.210	251	0.542	0.023	1.000
2201.0	91	5.4	2.475	0.185	253	0.478	0.046	1.000
2201.2	74	4.8	2.463	0.166	251	0.375	0.088	1.000
2201.4	61	4.1	2.427	0.168	257	0.293	0.114	1.000
2201.6	59	3.5	2.384	0.169	260	0.194	0.146	1.000
2201.8	59	3.0	2.356	0.175	270	0.146	0.167	1.000
2202.0	56	2.7	2.338	0.181	276	0.130	0.179	0.976
2202.2	51	2.6	2.338	0.182	280	0.134	0.179	0.979
2202.4	49	2.7	2.350	0.177	278	0.142	0.171	0.983
2202.6	49	2.7	2.357	0.180	277	0.170	0.165	0.991
2202.8	51	2.7	2.349	0.177	275	0.138	0.172	0.995
2203.0	52	2.6	2.345	0.178	275	0.133	0.175	0.999
2203.2	52	2.6	2.345	0.180	276	0.143	0.174	1.000
2203.4	51	2.6	2.351	0.179	275	0.153	0.170	1.000
2203.6	50	2.6	2.355	0.175	274	0.146	0.168	1.000
2203.8	52	2.6	2.348	0.168	273	0.102	0.176	1.000
2204.0	51	2.5	2.348	0.159	273	0.063	0.179	1.000
2204.2	49	2.6	2.359	0.163	272	0.106	0.169	1.000
2204.4	45	2.7	2.377	0.160	270	0.138	0.155	1.000
2204.6	39	2.6	2.380	0.154	269	0.122	0.155	1.000
2204.8	37	2.6	2.366	0.163	271	0.124	0.163	1.000
2205.0	36	2.5	2.356	0.166	271	0.111	0.170	1.000
2205.2	35	2.5	2.361	0.160	273	0.100	0.168	1.000
2205.4	38	2.5	2.350	0.153	273	0.044	0.179	1.000
2205.6	39	2.5	2.351	0.156	273	0.059	0.177	1.000
2205.8	38	2.5	2.353	0.171	272	0.125	0.171	1.000
2206.0	39	2.6	2.353	0.177	271	0.149	0.169	1.000
2206.2	38	2.5	2.362	0.152	272	0.069	0.170	1.000
2206.4	36	2.5	2.366	0.133	272	0.002	0.172	1.000
2206.6	37	2.6	2.389	0.136	268	0.068	0.154	1.000
2206.8	37	3.1	2.441	0.121	243	0.138	0.117	1.000
2207.0	39	5.2	2.525	0.073	220	0.150	0.065	1.000
2207.2	50	10.4	2.552	0.043	209	0.094	0.052	1.000
2207.4	68	16.8	2.500	0.080	211	0.117	0.083	0.973
2207.6	76	12.6	2.460	0.149	231	0.297	0.094	0.911
2207.8	77	7.8	2.462	0.180	245	0.425	0.075	0.863
2208.0	77	7.4	2.462	0.179	246	0.419	0.079	0.876
2208.2	77	7.9	2.477	0.186	241	0.485	0.043	0.878
2208.4	75	7.9	2.461	0.192	241	0.471	0.055	0.869
2208.6	69	6.4	2.425	0.180	250	0.336	0.113	0.870
2208.8	58	5.3	2.399	0.165	255	0.211	0.136	0.852
2209.0	49	4.1	2.383	0.161	264	0.158	0.150	0.869
2209.2	46	3.8	2.368	0.170	266	0.157	0.159	0.906
2209.4	46	3.6	2.377	0.166	270	0.161	0.154	0.934
2209.6	43	3.5	2.388	0.160	268	0.166	0.147	0.941
2209.8	43	3.4	2.375	0.172	270	0.180	0.153	0.952
2210.0	47	3.2	2.354	0.177	274	0.151	0.168	0.953
2210.2	52	3.2	2.362	0.175	276	0.163	0.162	0.945
2210.4	54	3.6	2.384	0.177	270	0.225	0.144	0.937
2210.6	52	3.6	2.382	0.177	265	0.217	0.146	0.938
2210.8	51	3.4	2.364	0.165	267	0.128	0.164	0.938
2211.0	47	3.1	2.350	0.155	268	0.051	0.179	0.935
2211.2	43	3.0	2.345	0.155	272	0.040	0.183	0.938
2211.4	42	3.0	2.349	0.163	274	0.082	0.177	0.948
2211.6	41	2.9	2.354	0.159	275	0.080	0.174	0.953
2211.8	39	3.0	2.361	0.156	275	0.082	0.169	0.962
2212.0	37	3.1	2.362	0.160	274	0.103	0.167	0.975
2212.2	37	3.2	2.371	0.156	270	0.109	0.161	0.979
2212.4	41	3.3	2.385	0.147	268	0.105	0.153	0.976

2212.6	48	3.7	2.396	0.148	263	0.138	0.144	0.976
2212.8	54	4.0	2.400	0.161	265	0.196	0.137	0.976
2213.0	52	3.7	2.383	0.177	269	0.220	0.145	0.968
2213.2	47	2.9	2.352	0.189	278	0.195	0.166	0.960
2213.4	44	2.5	2.333	0.189	283	0.147	0.181	0.952
2213.6	42	2.6	2.330	0.182	284	0.111	0.186	0.945
2213.8	41	2.8	2.339	0.178	286	0.119	0.180	0.942
2214.0	38	3.1	2.348	0.171	278	0.110	0.175	0.943
2214.2	35	3.0	2.355	0.159	273	0.081	0.173	0.948
2214.4	33	2.8	2.348	0.159	270	0.062	0.179	0.965
2214.6	35	2.7	2.342	0.168	270	0.087	0.180	0.989
2214.8	37	2.8	2.363	0.160	268	0.106	0.166	1.000
2215.0	35	3.2	2.388	0.145	262	0.103	0.152	1.000
2215.2	35	3.5	2.395	0.136	260	0.085	0.149	1.000
2215.4	36	3.6	2.384	0.145	261	0.097	0.154	0.987
2215.6	39	3.4	2.374	0.153	266	0.103	0.160	0.962
2215.8	39	3.3	2.367	0.158	269	0.107	0.163	0.944
2216.0	42	3.5	2.366	0.161	270	0.115	0.164	0.944
2216.2	44	3.6	2.379	0.156	267	0.126	0.155	0.949
2216.4	46	3.8	2.395	0.146	265	0.127	0.145	0.958
2216.6	50	4.2	2.409	0.149	260	0.172	0.133	0.959
2216.8	51	4.2	2.410	0.148	260	0.171	0.133	0.964
2217.0	51	4.5	2.404	0.140	253	0.122	0.140	0.972
2217.2	51	5.0	2.426	0.121	250	0.101	0.128	0.979
2217.4	52	5.9	2.456	0.126	240	0.194	0.103	0.982
2217.6	53	6.2	2.455	0.146	243	0.273	0.098	0.996
2217.8	49	4.8	2.424	0.155	251	0.233	0.120	0.996
2218.0	45	3.7	2.392	0.179	263	0.249	0.138	0.983
2218.2	44	3.4	2.379	0.174	267	0.200	0.149	0.965
2218.4	42	3.5	2.378	0.159	263	0.139	0.155	0.947
2218.6	43	3.5	2.368	0.155	265	0.099	0.164	0.943
2218.8	41	3.4	2.364	0.162	265	0.112	0.165	0.949
2219.0	39	3.2	2.368	0.166	269	0.138	0.161	0.957
2219.2	42	3.1	2.372	0.169	266	0.161	0.156	0.971
2219.4	48	3.2	2.376	0.163	266	0.149	0.155	0.993
2219.6	53	3.4	2.387	0.171	260	0.209	0.144	1.000
2219.8	54	3.3	2.385	0.182	261	0.248	0.142	1.000
2220.0	48	2.9	2.374	0.189	268	0.249	0.148	1.000
2220.2	41	2.5	2.348	0.191	280	0.193	0.169	1.000
2220.4	37	2.2	2.321	0.188	292	0.118	0.191	0.999
2220.6	36	2.2	2.306	0.197	291	0.117	0.200	0.973
2220.8	37	2.2	2.297	0.188	294	0.056	0.211	0.952
2221.0	38	2.2	2.291	0.174	298	0.000	0.217	0.939
2221.2	38	2.2	2.293	0.168	293	0.000	0.214	0.938
2221.4	39	2.2	2.291	0.174	298	0.000	0.217	0.951
2221.6	36	2.0	2.280	0.172	299	0.000	0.220	0.981
2221.8	40	2.0	2.295	0.160	303	0.000	0.210	1.000
2222.0	57	2.5	2.368	0.161	291	0.123	0.162	1.000
2222.2	67	3.3	2.447	0.169	276	0.347	0.099	1.000
2222.4	59	4.9	2.457	0.165	262	0.353	0.093	1.000
2222.6	62	5.3	2.453	0.147	259	0.271	0.100	1.000
2222.8	76	5.1	2.484	0.155	261	0.376	0.076	1.000
2223.0	80	7.7	2.482	0.185	253	0.492	0.039	1.000
2223.2	76	7.5	2.482	0.206	262	0.579	0.007	1.000
2223.4	76	7.1	2.459	0.206	267		Coal	
2223.6	86	7.1	2.320	0.234	262		Coal	
2223.8	95	8.4	2.150	0.254	271		Coal	
2224.0	102	10.0	1.957	0.270	270		Coal	
2224.2	104	9.4	1.828	0.293	275		Coal	
2224.4	109	8.4	1.851	0.342	298		Coal	
2224.6	111	8.3	1.941	0.402	345		Coal	
2224.8	112	9.9	2.008	0.422	362		Coal	
2225.0	115	9.7	2.087	0.378	357		Coal	
2225.2	119	10.1	2.174	0.349	325		Coal	
2225.4	119	10.4	2.337	0.324	305		Coal	

2225.6	117	10.9	2.405	0.282	300	Coal		
2225.8	115	10.8	2.333	0.324	294	Coal		
2226.0	115	11.3	2.242	0.400	316	Coal		
2226.2	117	12.3	2.209	0.422	336	Coal		
2226.4	120	13.0	2.307	0.350	325	Coal		
2226.6	127	13.1	2.346	0.338	306	Coal		
2226.8	123	15.4	2.197	0.373	326	Coal		
2227.0	112	21.1	2.167	0.353	335	Coal		
2227.2	104	23.1	2.298	0.297	329	Coal		
2227.4	95	14.8	2.413	0.241	297	Coal		
2227.6	90	11.0	2.470	0.217	274	Coal		
2227.8	98	9.7	2.495	0.217	258	0.655	0.000	1.000
2228.0	111	9.6	2.525	0.238	255	0.812	0.000	1.000
2228.2	122	11.2	2.539	0.251	250	0.899	0.000	1.000
2228.4	126	11.1	2.530	0.244	254	0.848	0.000	1.000
2228.6	121	10.6	2.505	0.235	252	0.750	0.000	0.980
2228.8	107	9.6	2.490	0.227	255	0.680	0.000	0.940
2229.0	96	9.6	2.469	0.198	255	0.516	0.032	0.940
2229.2	97	10.9	2.386	0.231	280	0.443	0.102	0.940
2229.4	104	17.3	2.354	0.299	289	0.640	0.000	0.940
2229.6	105	23.3	2.434	0.281	284	0.763	0.000	0.960
2229.8	104	19.6	2.541	0.230	257	0.817	0.000	0.970
2230.0	95	14.5	2.535	0.204	239	0.698	0.000	0.930
2230.2	86	9.2	2.477	0.181	247	0.465	0.051	0.890
2230.4	81	7.5	2.400	0.194	260	0.331	0.128	0.850
2230.6	73	6.0	2.373	0.214	272	0.345	0.143	0.841
2230.8	63	5.6	2.404	0.204	274	0.380	0.123	0.884
2231.0	50	4.8	2.421	0.177	264	0.313	0.116	0.939
2231.2	40	4.5	2.433	0.161	263	0.278	0.111	1.000
2231.4	43	4.5	2.435	0.150	268	0.239	0.113	1.000
2231.6	60	5.0	2.459	0.167	267	0.368	0.091	1.000
2231.8	83	6.6	2.488	0.205	264	0.587	0.004	1.000
2232.0	97	9.8	2.521	0.211	248	0.694	0.000	1.000
2232.2	98	11.5	2.513	0.205	249	0.648	0.000	1.000
2232.4	95	8.8	2.493	0.213	252	0.632	0.000	1.000
2232.6	81	6.2	2.477	0.219	255	0.618	0.000	1.000
2232.8	61	5.3	2.452	0.198	259	0.474	0.056	1.000
2233.0	51	4.4	2.429	0.187	256	0.373	0.109	1.000
2233.2	44	3.3	2.397	0.196	268	0.329	0.130	1.000
2233.4	34	2.7	2.377	0.194	273	0.276	0.144	1.000
2233.6	31	2.5	2.393	0.183	278	0.269	0.135	1.000
2233.8	33	2.4	2.397	0.176	278	0.252	0.135	1.000
2234.0	38	2.5	2.363	0.182	279	0.193	0.160	1.000
2234.2	42	2.6	2.354	0.180	280	0.163	0.167	1.000
2234.4	43	2.8	2.363	0.169	280	0.138	0.164	1.000
2234.6	44	3.2	2.379	0.171	272	0.187	0.150	1.000
2234.8	45	3.4	2.388	0.174	268	0.221	0.142	1.000
2235.0	43	3.4	2.386	0.190	267	0.281	0.139	0.998
2235.2	41	3.2	2.373	0.210	272	0.330	0.144	0.991
2235.4	38	2.8	2.357	0.199	275	0.244	0.159	0.993
2235.6	37	2.6	2.340	0.185	277	0.146	0.177	0.999
2235.8	34	2.5	2.344	0.180	279	0.136	0.176	1.000
2236.0	34	2.5	2.354	0.183	278	0.173	0.166	1.000
2236.2	35	2.7	2.368	0.186	276	0.222	0.154	1.000
2236.4	39	2.9	2.391	0.184	272	0.271	0.136	1.000
2236.6	41	3.3	2.403	0.185	267	0.301	0.128	1.000
2236.8	43	3.5	2.399	0.185	266	0.291	0.131	1.000
2237.0	40	3.2	2.384	0.187	271	0.264	0.141	1.000
2237.2	38	2.9	2.362	0.194	273	0.238	0.156	1.000
2237.4	37	2.7	2.350	0.194	274	0.209	0.166	0.983
2237.6	36	2.6	2.341	0.182	275	0.140	0.177	0.971
2237.8	36	2.7	2.340	0.170	274	0.090	0.182	0.971
2238.0	37	2.8	2.350	0.177	273	0.143	0.171	0.976
2238.2	41	2.9	2.360	0.181	273	0.181	0.162	0.993
2238.4	50	3.2	2.384	0.175	268	0.215	0.145	1.000

2238.6	54	3.9	2.416	0.173	259	0.284	0.121	1.000
2238.8	50	4.1	2.423	0.171	256	0.292	0.116	1.000
2239.0	44	4.0	2.404	0.171	256	0.247	0.130	1.000
2239.2	41	3.3	2.391	0.168	264	0.207	0.142	1.000
2239.4	40	3.1	2.379	0.168	266	0.175	0.151	1.000
2239.6	37	3.0	2.370	0.161	267	0.126	0.160	1.000
2239.8	34	2.9	2.371	0.161	270	0.125	0.160	1.000
2240.0	36	2.9	2.376	0.170	272	0.174	0.153	1.000
2240.2	40	3.0	2.377	0.170	271	0.177	0.152	1.000
2240.4	41	3.2	2.390	0.168	267	0.200	0.143	1.000
2240.6	40	3.4	2.384	0.165	266	0.174	0.148	1.000
2240.8	39	3.3	2.376	0.164	265	0.153	0.155	1.000
2241.0	35	3.0	2.381	0.163	265	0.160	0.151	1.000
2241.2	34	3.0	2.392	0.160	266	0.177	0.143	1.000
2241.4	38	3.0	2.406	0.154	266	0.186	0.134	1.000
2241.6	41	3.0	2.402	0.160	265	0.199	0.135	1.000
2241.8	40	3.3	2.403	0.157	263	0.189	0.136	1.000
2242.0	38	3.2	2.399	0.160	263	0.193	0.138	1.000
2242.2	35	3.2	2.389	0.172	265	0.216	0.142	1.000
2242.4	34	2.9	2.388	0.171	269	0.209	0.143	1.000
2242.6	37	2.9	2.396	0.178	267	0.255	0.135	1.000
2242.8	41	2.8	2.388	0.176	270	0.227	0.142	1.000
2243.0	38	2.9	2.381	0.167	272	0.177	0.150	1.000
2243.2	39	2.9	2.393	0.160	272	0.176	0.143	1.000
2243.4	44	3.4	2.416	0.163	267	0.243	0.124	1.000
2243.6	46	3.6	2.407	0.181	265	0.296	0.125	1.000
2243.8	45	3.4	2.391	0.190	268	0.295	0.135	1.000
2244.0	41	2.9	2.390	0.177	277	0.240	0.140	1.000
2244.2	38	3.0	2.399	0.167	274	0.220	0.136	1.000
2244.4	38	3.2	2.422	0.154	265	0.223	0.122	1.000
2244.6	51	3.2	2.439	0.141	260	0.213	0.112	1.000
2244.8	76	4.3	2.184	0.145	260	0.639	0.000	1.000
2245.0	95	4.9	1.871	0.261	303	0.928	0.000	1.000
2245.2	102	5.4	1.763	0.370	327	1.000	0.000	1.000
2245.4	110	6.4	1.944	0.333	315	1.000	0.000	1.000
2245.6	108	7.1	2.074	0.261	264	1.000	0.000	1.000
2245.8	96	7.5	1.980	0.282	250	0.947	0.000	1.000
2246.0	87	6.9	2.078	0.266	255	0.821	0.000	1.000
2246.2	92	6.3	2.231	0.241	260	0.894	0.000	1.000
2246.4	107	6.2	2.131	0.257	256	1.000	0.000	1.000
2246.6	111	5.9	2.050	0.297	284	1.000	0.000	1.000
2246.8	110	6.1	2.139	0.293	281	1.000	0.000	1.000
2247.0	114	6.7	2.345	0.273	275	1.000	0.000	1.000
2247.2	122	7.3	2.427	0.264	260	1.000	0.000	1.000
2247.4	125	7.2	2.282	0.255	264	1.000	0.000	1.000
2247.6	124	7.3	2.221	0.235	269	1.000	0.000	1.000
2247.8	124	7.7	2.012	0.229	272	1.000	0.000	1.000
2248.0	124	8.2	1.792	0.270	277	1.000	0.000	1.000
2248.2	123	8.2	1.740	0.319	276	1.000	0.000	1.000
2248.4	118	8.1	1.835	0.343	270	1.000	0.000	1.000
2248.6	112	8.2	2.033	0.339	269	1.000	0.000	1.000
2248.8	114	8.3	2.190	0.298	262	1.000	0.000	1.000
2249.0	121	8.4	2.212	0.308	253	1.000	0.000	1.000
2249.2	119	6.7	2.059	0.337	266	1.000	0.000	1.000
2249.4	112	5.9	1.949	0.351	283	1.000	0.000	1.000
2249.6	113	5.4	2.044	0.339	288	1.000	0.000	1.000
2249.8	117	5.2	2.187	0.320	290	1.000	0.000	1.000
2250.0	112	5.9	2.211	0.304	275	1.000	0.000	1.000
2250.2	110	6.3	2.142	0.286	271	1.000	0.000	1.000
2250.4	112	6.8	2.042	0.296	264	1.000	0.000	1.000
2250.6	112	7.0	2.040	0.311	285	1.000	0.000	1.000
2250.8	115	6.9	2.042	0.316	293	1.000	0.000	1.000
2251.0	115	7.0	1.982	0.353	290	1.000	0.000	1.000
2251.2	117	7.3	1.988	0.359	294	1.000	0.000	1.000
2251.4	115	8.3	2.033	0.343	301	1.000	0.000	1.000

2251.6	107	9.4	2.019	0.287	290	1.000	0.000	1.000
2251.8	107	10.0	1.963	0.250	272	1.000	0.000	1.000
2252.0	103	7.6	1.943	0.275	256	1.000	0.000	1.000
2252.2	100	5.8	1.913	0.338	273	0.998	0.000	1.000
2252.4	95	4.8	1.986	0.393	321	0.934	0.000	1.000
2252.6	93	4.9	2.180	0.379	318	0.904	0.000	1.000
2252.8	99	6.3	2.330	0.292	291	0.988	0.000	1.000
2253.0	104	7.7	2.113	0.226	238	1.000	0.000	1.000
2253.2	106	7.8	1.927	0.245	245	1.000	0.000	1.000
2253.4	110	6.9	2.010	0.268	252	1.000	0.000	1.000
2253.6	116	6.4	2.153	0.286	263	1.000	0.000	1.000
2253.8	115	6.5	2.252	0.279	263	1.000	0.000	1.000
2254.0	114	7.1	2.349	0.247	255	1.000	0.000	1.000
2254.2	113	8.4	2.487	0.201	249	1.000	0.000	1.000
2254.4	109	10.1	2.534	0.174	238	1.000	0.000	1.000
2254.6	101	11.0	2.541	0.166	237	0.559	0.007	1.000
2254.8	95	11.2	2.528	0.163	234	0.515	0.019	1.000
2255.0	92	11.4	2.536	0.169	239	0.560	0.007	1.000
2255.2	94	11.4	2.556	0.171	242	0.618	0.000	1.000
2255.4	96	11.6	2.554	0.175	245	0.628	0.000	1.000
2255.6	102	12.0	2.554	0.196	248	0.712	0.000	1.000
2255.8	107	11.9	2.549	0.204	249	0.734	0.000	1.000
2256.0	102	11.0	2.545	0.201	250	0.709	0.000	1.000
2256.2	91	10.4	2.522	0.191	249	0.616	0.000	1.000
2256.4	78	9.9	2.509	0.179	243	0.536	0.017	1.000
2256.6	61	8.8	2.501	0.153	242	0.412	0.060	1.000
2256.8	42	8.8	2.491	0.117	236	0.243	0.079	1.000
2257.0	38	8.7	2.498	0.090	236	0.151	0.082	1.000
2257.2	40	9.4	2.503	0.096	234	0.190	0.075	1.000
2257.4	38	9.5	2.503	0.101	235	0.207	0.074	1.000
2257.6	35	9.3	2.505	0.090	231	0.168	0.076	1.000
2257.8	33	8.8	2.504	0.085	229	0.145	0.078	1.000
2258.0	32	8.8	2.509	0.088	227	0.169	0.074	1.000
2258.2	33	7.8	2.506	0.102	230	0.218	0.072	1.000
2258.4	38	7.0	2.494	0.113	234	0.236	0.078	1.000
2258.6	43	6.3	2.480	0.125	237	0.251	0.085	1.000
2258.8	45	5.8	2.469	0.136	242	0.266	0.090	1.000
2259.0	43	5.4	2.457	0.129	247	0.210	0.102	1.000
2259.2	42	5.2	2.440	0.135	249	0.192	0.113	1.000
2259.4	40	5.2	2.443	0.143	248	0.230	0.109	1.000
2259.6	38	5.3	2.452	0.134	247	0.217	0.104	1.000
2259.8	40	5.4	2.462	0.125	244	0.203	0.099	1.000
2260.0	43	5.3	2.465	0.129	246	0.230	0.095	1.000
2260.2	44	5.1	2.456	0.137	248	0.240	0.100	1.000
2260.4	43	4.9	2.447	0.132	250	0.195	0.109	1.000
2260.6	42	4.7	2.450	0.136	249	0.219	0.105	1.000
2260.8	40	4.7	2.443	0.139	250	0.215	0.110	1.000
2261.0	38	4.6	2.445	0.140	253	0.224	0.108	1.000
2261.2	35	4.5	2.453	0.142	253	0.250	0.101	1.000
2261.4	33	4.6	2.453	0.136	251	0.230	0.102	1.000
2261.6	36	4.9	2.459	0.127	250	0.206	0.101	1.000
2261.8	41	5.4	2.478	0.125	248	0.246	0.086	1.000
2262.0	47	6.1	2.491	0.127	243	0.283	0.076	1.000
2262.2	50	6.0	2.478	0.144	246	0.318	0.082	1.000
2262.4	45	5.5	2.453	0.165	247	0.341	0.096	1.000
2262.6	42	4.7	2.432	0.171	256	0.316	0.110	1.000
2262.8	42	4.6	2.432	0.162	255	0.279	0.111	1.000
2263.0	39	4.6	2.431	0.151	252	0.234	0.116	1.000
2263.2	37	4.9	2.434	0.145	250	0.219	0.115	1.000
2263.4	36	5.4	2.451	0.129	248	0.191	0.107	1.000
2263.6	38	6.2	2.467	0.122	241	0.203	0.096	1.000
2263.8	36	7.4	2.487	0.127	236	0.274	0.079	1.000
2264.0	30	8.7	2.523	0.127	229	0.362	0.054	1.000
2264.2	28	9.2	2.542	0.118	224	0.372	0.042	1.000
2264.4	27	8.5	2.528	0.111	223	0.310	0.053	1.000

2264.6	27	8.1	2.504	0.110	225	0.245	0.071	1.000
2264.8	26	7.8	2.500	0.114	229	0.252	0.073	1.000
2265.0	24	9.1	2.524	0.102	219	0.260	0.058	1.000
2265.2	23	10.0	2.538	0.085	209	0.230	0.052	1.000
2265.4	23	11.5	2.537	0.082	209	0.214	0.053	1.000
2265.6	24	9.9	2.526	0.085	211	0.199	0.061	1.000
2265.8	25	8.5	2.498	0.099	235	0.189	0.078	1.000
2266.0	32	6.2	2.451	0.127	241	0.184	0.107	1.000
2266.2	36	4.8	2.418	0.142	246	0.167	0.128	1.000
2266.4	34	4.5	2.422	0.138	244	0.160	0.127	0.994
2266.6	30	4.5	2.430	0.131	242	0.150	0.122	1.000
2266.8	26	4.7	2.434	0.134	241	0.173	0.118	1.000
2267.0	27	4.8	2.440	0.139	241	0.207	0.112	1.000
2267.2	29	4.5	2.427	0.136	242	0.165	0.123	1.000
2267.4	30	3.9	2.399	0.148	254	0.142	0.142	1.000
2267.6	29	3.2	2.366	0.167	269	0.142	0.162	0.990
2267.8	28	2.4	2.339	0.194	273	0.183	0.175	0.985
2268.0	27	2.3	2.327	0.187	276	0.123	0.187	1.000
2268.2	29	2.4	2.339	0.170	272	0.086	0.182	1.000
2268.4	29	2.6	2.375	0.164	267	0.150	0.156	1.000
2268.6	32	2.8	2.392	0.150	265	0.134	0.146	1.000
2268.8	37	3.2	2.409	0.126	262	0.083	0.140	1.000
2269.0	46	4.0	2.442	0.115	253	0.115	0.118	1.000
2269.2	50	5.5	2.472	0.135	243	0.267	0.089	1.000
2269.4	43	8.2	2.485	0.136	231	0.304	0.079	1.000
2269.6	35	9.1	2.493	0.111	229	0.223	0.079	1.000
2269.8	39	8.7	2.494	0.099	229	0.180	0.082	1.000
2270.0	45	8.2	2.488	0.106	235	0.191	0.084	1.000
2270.2	43	7.1	2.482	0.113	242	0.207	0.087	1.000
2270.4	42	6.4	2.462	0.128	245	0.216	0.099	1.000
2270.6	41	5.5	2.448	0.125	247	0.170	0.110	1.000
2270.8	37	5.2	2.453	0.120	244	0.164	0.108	1.000
2271.0	34	4.8	2.454	0.117	244	0.155	0.108	1.000
2271.2	41	4.8	2.455	0.136	244	0.233	0.101	1.000
2271.4	45	5.0	2.464	0.164	244	0.364	0.088	1.000
2271.6	40	5.0	2.465	0.168	243	0.381	0.087	1.000
2271.8	37	4.7	2.438	0.163	245	0.298	0.107	1.000
2272.0	32	3.7	2.387	0.182	260	0.249	0.141	1.000
2272.2	27	2.9	2.348	0.176	272	0.135	0.173	1.000
2272.4	29	2.7	2.363	0.157	272	0.091	0.168	1.000
2272.6	31	2.9	2.398	0.134	263	0.083	0.147	1.000
2272.8	32	4.0	2.433	0.123	252	0.126	0.123	1.000
2273.0	36	5.5	2.451	0.111	246	0.122	0.112	1.000
2273.2	36	7.2	2.473	0.105	238	0.150	0.097	1.000
2273.4	32	7.9	2.487	0.096	231	0.151	0.088	1.000
2273.6	34	7.6	2.492	0.089	226	0.132	0.086	1.000
2273.8	51	7.2	2.454	0.094	234	0.061	0.114	0.982
2274.0	66	6.3	2.362	0.133	248	0.487	0.048	0.972
2274.2	69	5.6	2.261	0.182	263	0.542	0.031	0.949
2274.4	73	6.0	2.287	0.200	263	0.595	0.002	0.965
2274.6	84	7.4	2.333	0.200	251	0.767	0.000	0.974
2274.8	97	10.3	2.327	0.209	234	0.955	0.000	1.000
2275.0	106	12.8	2.360	0.245	232	1.000	0.000	1.000
2275.2	112	12.9	2.403	0.273	232	1.000	0.000	1.000
2275.4	113	13.1	2.457	0.274	228	1.000	0.000	1.000
2275.6	115	11.7	2.424	0.276	243	1.000	0.000	1.000
2275.8	120	10.2	2.207	0.287	250	1.000	0.000	1.000
2276.0	119	9.4	1.988	0.295	253	1.000	0.000	1.000
2276.2	110	7.4	1.927	0.333	260	1.000	0.000	1.000
2276.4	103	6.5	1.886	0.375	275	1.000	0.000	1.000
2276.6	104	6.1	1.834	0.371	284	1.000	0.000	1.000
2276.8	105	7.0	1.971	0.338	277	1.000	0.000	1.000
2277.0	108	8.7	2.304	0.305	256	1.000	0.000	1.000
2277.2	108	9.4	2.565	0.266	252	1.000	0.000	1.000
2277.4	111	9.6	2.618	0.236	246	1.000	0.000	1.000

2277.6	109	9.4	2.577	0.245	243	1.000	0.000	1.000
2277.8	110	9.9	2.503	0.258	244	1.000	0.000	1.000
2278.0	113	9.9	2.288	0.261	248	1.000	0.000	1.000
2278.2	107	9.7	2.157	0.256	249	1.000	0.000	1.000
2278.4	100	10.1	2.193	0.244	244	1.000	0.000	1.000
2278.6	99	10.9	2.298	0.235	241	0.989	0.000	1.000
2278.8	106	12.0	2.324	0.221	242	1.000	0.000	1.000
2279.0	116	11.5	2.142	0.261	252	1.000	0.000	1.000
2279.2	123	10.3	1.928	0.319	262	1.000	0.000	1.000
2279.4	119	9.0	1.938	0.333	268	1.000	0.000	1.000
2279.6	113	8.3	1.998	0.335	268	1.000	0.000	1.000
2279.8	111	8.3	2.064	0.356	269	1.000	0.000	1.000
2280.0	108	8.1	2.167	0.346	269	1.000	0.000	1.000
2280.2	108	8.5	2.261	0.331	267	1.000	0.000	1.000
2280.4	112	8.6	2.378	0.326	260	1.000	0.000	1.000
2280.6	117	8.9	2.452	0.316	259	1.000	0.000	1.000
2280.8	119	8.9	2.445	0.293	255	0.836	0.000	1.000
2281.0	121	9.1	2.444	0.292	251	0.831	0.000	1.000
2281.2	122	9.5	2.485	0.289	247	0.916	0.000	1.000
2281.4	123	9.9	2.503	0.268	247	0.878	0.000	1.000
2281.6	116	9.0	2.495	0.268	250	0.858	0.000	1.000
2281.8	113	7.1	2.465	0.278	254	0.824	0.000	1.000
2282.0	111	7.0	2.413	0.279	255	0.702	0.000	1.000
2282.2	111	6.9	2.331	0.264	256	1.000	0.000	1.000
2282.4	110	7.4	2.270	0.243	254	1.000	0.000	1.000
2282.6	109	8.8	2.228	0.246	253	1.000	0.000	1.000
2282.8	106	9.9	2.116	0.239	255	1.000	0.000	1.000
2283.0	105	9.4	2.071	0.232	256	1.000	0.000	1.000
2283.2	111	9.5	2.190	0.235	255	1.000	0.000	1.000
2283.4	117	9.6	2.294	0.240	255	1.000	0.000	0.973
2283.6	116	10.3	2.351	0.230	253	1.000	0.000	0.973
2283.8	114	10.2	2.444	0.220	248	0.541	0.027	0.973
2284.0	109	10.0	2.493	0.187	251	0.530	0.022	0.942
2284.2	104	9.7	2.507	0.172	250	0.502	0.027	0.902
2284.4	103	8.7	2.476	0.180	256	0.460	0.054	0.890
2284.6	110	8.5	2.438	0.183	253	0.380	0.103	0.850
2284.8	114	9.3	2.392	0.185	252	0.276	0.135	0.809
2285.0	114	9.6	2.413	0.199	251	0.381	0.118	0.800
2285.2	108	9.9	2.397	0.225	252	0.449	0.093	0.812
2285.4	98	9.2	2.384	0.225	255	0.415	0.122	0.883
2285.6	86	7.6	2.460	0.199	250	0.497	0.043	0.963
2285.8	72	7.3	2.511	0.161	248	0.468	0.037	0.989
2286.0	69	7.2	2.505	0.147	246	0.397	0.062	0.989
2286.2	79	7.2	2.464	0.152	246	0.318	0.090	0.977
2286.4	88	8.0	2.423	0.173	245	0.302	0.115	0.946
2286.6	88	10.9	2.445	0.209	250	0.501	0.045	0.906
2286.8	98	11.4	2.491	0.237	254	0.724	0.000	0.880
2287.0	101	12.4	2.486	0.216	246	0.629	0.000	0.880
2287.2	99	13.4	2.438	0.200	242	0.450	0.074	0.880
2287.4	101	12.1	2.353	0.235	245	0.382	0.152	0.880
2287.6	101	11.3	2.398	0.245	245	0.531	0.041	0.880
2287.8	94	12.2	2.519	0.196	248	0.630	0.000	0.920
2288.0	90	13.5	2.540	0.175	242	0.597	0.000	0.946
2288.2	90	13.2	2.536	0.175	236	0.586	0.002	0.946
2288.4	99	12.6	2.505	0.167	240	0.478	0.036	0.946
2288.6	108	12.2	2.437	0.202	248	0.452	0.073	0.946
2288.8	113	12.1	2.363	0.208	250	1.000	0.000	0.946
2289.0	100	10.5	2.068	0.215	257	1.000	0.000	0.960
2289.2	85	9.7	1.792	0.320	262	0.780	0.000	1.000
2289.4	82	8.2	1.852	0.352	266	0.738	0.000	0.970
2289.6	81	6.2	2.244	0.253	263	0.726	0.000	0.961
2289.8	74	5.5	2.422	0.187	255	0.356	0.114	0.957
2290.0	67	4.5	2.412	0.174	254	0.280	0.123	0.950
2290.2	60	3.9	2.403	0.165	258	0.222	0.133	0.969
2290.4	57	3.9	2.401	0.160	262	0.195	0.137	1.000

2290.6	58	3.9	2.427	0.149	262	0.213	0.120	1.000
2290.8	65	4.0	2.458	0.141	265	0.258	0.098	1.000
2291.0	66	3.8	2.467	0.156	257	0.341	0.087	1.000
2291.2	66	3.7	2.456	0.167	260	0.359	0.093	1.000
2291.4	65	3.7	2.435	0.164	260	0.297	0.108	1.000
2291.6	60	3.7	2.414	0.174	266	0.287	0.121	1.000
2291.8	56	3.8	2.392	0.188	268	0.287	0.135	1.000
2292.0	54	3.6	2.383	0.188	271	0.267	0.142	0.939
2292.2	62	3.8	2.380	0.174	271	0.203	0.148	0.928
2292.4	83	5.1	2.417	0.168	264	0.270	0.121	0.939
2292.6	104	9.1	2.503	0.187	251	0.555	0.013	0.951
2292.8	120	16.8	2.564	0.224	239	0.851	0.000	0.974
2293.0	128	15.7	2.558	0.242	237	0.908	0.000	1.000
2293.2	126	15.2	2.521	0.256	242	0.872	0.000	1.000
2293.4	118	15.4	2.507	0.264	249	0.870	0.000	1.000
2293.6	113	15.9	2.502	0.266	252	0.868	0.000	1.000
2293.8	112	15.3	2.485	0.257	254	0.789	0.000	1.000
2294.0	113	14.7	2.484	0.248	254	0.753	0.000	1.000
2294.2	115	14.9	2.487	0.256	253	0.789	0.000	1.000
2294.4	116	15.4	2.482	0.263	251	0.808	0.000	1.000
2294.6	111	16.3	2.474	0.252	247	0.745	0.000	1.000
2294.8	104	15.6	2.404	0.244	245	1.000	0.000	1.000
2295.0	94	13.4	2.244	0.265	256	0.924	0.000	1.000
2295.2	89	12.0	2.197	0.283	266	0.849	0.000	1.000
2295.4	91	11.2	2.324	0.275	269	0.874	0.000	1.000
2295.6	94	11.1	2.399	0.277	271	0.919	0.000	1.000
2295.8	97	12.2	2.401	0.267	263	0.628	0.000	0.977
2296.0	97	13.1	2.433	0.243	259	0.608	0.000	0.946
2296.2	86	11.1	2.453	0.214	255	0.538	0.026	0.943
2296.4	70	7.1	2.449	0.200	254	0.475	0.057	0.958
2296.6	60	5.0	2.437	0.190	258	0.405	0.099	0.973
2296.8	59	4.1	2.429	0.200	264	0.426	0.092	1.000
2297.0	58	3.8	2.424	0.199	267	0.408	0.105	1.000
2297.2	59	4.0	2.430	0.199	266	0.422	0.094	1.000
2297.4	61	4.2	2.436	0.203	261	0.455	0.073	1.000
2297.6	60	4.3	2.431	0.200	258	0.430	0.089	1.000
2297.8	57	4.1	2.420	0.192	260	0.372	0.114	1.000
2298.0	53	3.6	2.402	0.186	263	0.303	0.128	0.980
2298.2	49	3.3	2.380	0.205	269	0.326	0.140	0.935
2298.4	44	3.2	2.355	0.239	273	0.401	0.149	0.891
2298.6	41	3.2	2.334	0.250	273	0.397	0.162	0.847
2298.8	42	3.0	2.319	0.245	275	0.337	0.175	0.820
2299.0	39	2.8	2.298	0.238	280	0.262	0.192	0.807
2299.2	36	2.6	2.300	0.241	286	0.279	0.190	0.813
2299.4	43	2.9	2.308	0.232	280	0.259	0.186	0.840
2299.6	50	3.3	2.344	0.213	272	0.272	0.164	0.884
2299.8	47	3.4	2.374	0.184	267	0.228	0.150	0.924
2300.0	38	3.1	2.382	0.181	265	0.234	0.145	0.957
2300.2	31	2.6	2.355	0.176	270	0.151	0.167	0.980
2300.4	26	2.3	2.316	0.163	275	0.000	0.203	0.967
2300.6	29	2.4	2.320	0.158	280	0.000	0.200	0.932
2300.8	36	2.8	2.322	0.159	278	0.002	0.200	0.934
2301.0	45	3.1	2.331	0.176	275	0.093	0.187	0.981
2301.2	42	3.0	2.384	0.179	276	0.231	0.144	1.000
2301.4	39	3.0	2.438	0.171	275	0.328	0.106	1.000
2301.6	41	3.2	2.470	0.165	267	0.382	0.084	1.000
2301.8	42	3.7	2.447	0.173	262	0.362	0.098	1.000
2302.0	39	3.4	2.435	0.185	269	0.379	0.105	1.000
2302.2	32	2.8	2.412	0.197	279	0.374	0.118	1.000
2302.4	30	2.3	2.377	0.204	289	0.315	0.142	1.000
2302.6	32	2.4	2.269	0.190	295	Coal		
2302.8	38	2.8	1.944	0.225	299	Coal		
2303.0	49	3.6	1.797	0.340	360	Coal		
2303.2	60	5.5	1.864	0.406	366	Coal		
2303.4	67	7.7	2.037	0.389	344	Coal		

						Coal		
2303.6	73	12.4	2.260	0.414	272	0.628	0.000	1.000
2303.8	75	12.4	2.349	0.425	228	0.637	0.000	0.960
2304.0	76	9.4	2.258	0.412	243	0.577	0.011	0.920
2304.2	72	6.8	2.238	0.403	259	0.505	0.058	0.880
2304.4	67	5.6	2.267	0.394	267	0.465	0.090	0.840
2304.6	64	5.0	2.232	0.381	270	0.457	0.102	0.800
2304.8	64	4.8	2.222	0.346	275	0.345	0.158	0.800
2305.0	56	4.8	2.317	0.299	271	0.261	0.163	0.800
2305.2	49	4.9	2.325	0.282	266	0.289	0.149	0.800
2305.4	51	4.9	2.172	0.296	261	0.424	0.116	0.800
2305.6	61	4.9	2.158	0.296	265	0.449	0.100	0.800
2305.8	63	5.0	2.322	0.242	267	0.387	0.135	0.872
2306.0	59	5.3	2.418	0.195	263	0.313	0.130	0.919
2306.2	53	6.1	2.470	0.172	254	0.325	0.057	0.959
2306.4	49	9.9	2.520	0.120	233	0.250	0.039	0.999
2306.6	46	15.6	2.557	0.079	215	0.272	0.010	1.000
2306.8	40	24.8	2.603	0.056	202	0.255	0.000	1.000
2307.0	32	37.0	2.641	0.029	194	0.252	0.000	1.000
2307.2	27	67.5	2.654	0.020	193	0.248	0.000	1.000
2307.4	27	113.7	2.640	0.028	187	0.244	0.000	1.000
2307.6	27	85.7	2.632	0.032	186	0.208	0.007	1.000
2307.8	27	40.3	2.614	0.033	190	0.179	0.028	1.000
2308.0	27	27.2	2.583	0.045	196	0.184	0.036	1.000
2308.2	30	23.2	2.569	0.055	203	0.168	0.043	1.000
2308.4	31	21.3	2.560	0.056	206	0.167	0.041	1.000
2308.6	33	20.4	2.562	0.055	207	0.181	0.042	1.000
2308.8	35	17.5	2.559	0.060	206	0.172	0.055	1.000
2309.0	38	15.0	2.539	0.070	208	0.171	0.074	1.000
2309.2	42	10.8	2.507	0.089	215	0.236	0.082	0.997
2309.4	41	8.9	2.487	0.118	224	0.251	0.085	0.940
2309.6	37	8.4	2.481	0.125	229	0.234	0.091	0.899
2309.8	36	8.4	2.471	0.127	228	0.262	0.091	0.867
2310.0	39	8.4	2.468	0.135	226	0.263	0.095	0.850
2310.2	40	8.3	2.462	0.140	228	0.224	0.104	0.861
2310.4	39	8.1	2.452	0.136	230	0.166	0.104	0.883
2310.6	39	7.9	2.458	0.117	231	0.141	0.097	0.916
2310.8	38	8.1	2.474	0.102	230	0.145	0.091	0.969
2311.0	36	8.4	2.483	0.097	226	0.173	0.081	1.000
2311.2	33	9.3	2.496	0.097	225	0.194	0.071	1.000
2311.4	35	10.2	2.510	0.093	222	0.255	0.057	1.000
2311.6	34	11.6	2.526	0.099	220	0.295	0.045	1.000
2311.8	33	13.2	2.542	0.099	216	0.254	0.054	0.993
2312.0	35	15.9	2.532	0.095	213	0.226	0.059	0.930
2312.2	34	18.2	2.527	0.091	211	0.204	0.058	0.874
2312.4	34	19.0	2.531	0.083	212	0.146	0.072	0.884
2312.6	36	16.2	2.515	0.079	215	0.103	0.083	0.955
2312.8	35	14.4	2.500	0.076	219	0.113	0.069	1.000
2313.0	31	13.2	2.523	0.065	218	0.133	0.051	1.000
2313.2	28	13.5	2.551	0.054	210	0.108	0.056	1.000
2313.4	30	15.3	2.544	0.051	207	0.117	0.054	1.000
2313.6	31	17.8	2.546	0.052	204	0.155	0.041	1.000
2313.8	32	21.0	2.565	0.050	208	0.153	0.043	1.000
2314.0	35	22.1	2.560	0.053	209	0.199	0.055	1.000
2314.2	43	15.9	2.536	0.079	215	0.277	0.081	0.970
2314.4	49	9.6	2.484	0.130	228	0.295	0.107	0.943
2314.6	48	6.4	2.438	0.162	251	0.276	0.116	0.922
2314.8	46	5.2	2.424	0.165	256	0.277	0.117	0.925
2315.0	46	4.8	2.423	0.167	257	0.286	0.114	0.928
2315.2	46	4.7	2.427	0.167	258	0.308	0.118	0.927
2315.4	44	4.6	2.418	0.178	259	0.294	0.127	0.922
2315.6	42	4.5	2.404	0.183	260	0.299	0.121	0.905
2315.8	40	4.6	2.413	0.178	257	0.311	0.116	0.893
2316.0	38	4.8	2.421	0.176	255	0.324	0.117	0.902
2316.2	39	5.0	2.419	0.181	254	0.309	0.116	0.905
2316.4	43	5.2	2.421	0.176	253			

2316.6	40	5.4	2.434	0.164	250	0.292	0.109	0.906
2316.8	39	5.8	2.443	0.163	246	0.310	0.104	0.937
2317.0	44	6.3	2.453	0.160	243	0.323	0.097	0.981
2317.2	45	6.8	2.478	0.156	241	0.366	0.080	1.000
2317.4	43	7.3	2.491	0.157	239	0.403	0.070	1.000
2317.6	41	7.9	2.493	0.148	238	0.371	0.071	1.000
2317.8	40	9.3	2.500	0.142	234	0.367	0.067	1.000
2318.0	36	11.0	2.512	0.143	230	0.399	0.059	1.000
2318.2	33	12.4	2.528	0.134	222	0.400	0.049	1.000
2318.4	30	14.9	2.547	0.115	217	0.372	0.039	0.996
2318.6	32	17.1	2.544	0.108	215	0.335	0.042	0.990
2318.8	33	16.3	2.528	0.103	215	0.276	0.055	0.984
2319.0	32	15.3	2.526	0.099	215	0.259	0.057	0.973
2319.2	30	14.7	2.529	0.106	216	0.291	0.053	0.930
2319.4	27	15.2	2.525	0.108	212	0.289	0.055	0.920
2319.6	26	16.5	2.515	0.099	213	0.230	0.065	0.946
2319.8	27	17.6	2.529	0.083	207	0.199	0.059	0.984
2320.0	25	17.7	2.553	0.073	204	0.218	0.044	0.998
2320.2	22	14.1	2.549	0.068	204	0.189	0.048	1.000
2320.4	21	9.2	2.492	0.080	220	0.097	0.089	1.000
2320.6	24	6.3	2.433	0.110	239	0.072	0.126	1.000
2320.8	28	4.1	2.429	0.134	253	0.160	0.122	1.000
2321.0	37	3.4	2.464	0.153	253	0.321	0.090	1.000
2321.2	47	3.9	2.510	0.161	245	0.464	0.038	1.000
2321.4	51	5.8	2.551	0.138	233	0.471	0.021	1.000
2321.6	49	13.9	2.585	0.100	211	0.403	0.015	1.000
2321.8	50	22.3	2.580	0.083	208	0.323	0.021	1.000
2322.0	48	26.4	2.568	0.086	210	0.308	0.029	1.000
2322.2	42	27.2	2.592	0.083	203	0.353	0.013	1.000
2322.4	33	30.7	2.613	0.056	199	0.295	0.003	1.000
2322.6	32	38.7	2.608	0.040	195	0.219	0.010	1.000
2322.8	40	39.0	2.594	0.046	198	0.206	0.020	1.000
2323.0	49	31.7	2.593	0.050	203	0.223	0.019	1.000
2323.2	51	27.9	2.602	0.055	207	0.265	0.011	1.000
2323.4	50	28.8	2.605	0.060	204	0.293	0.008	1.000
2323.6	51	22.8	2.576	0.061	211	0.225	0.029	1.000
2323.8	45	19.2	2.561	0.066	211	0.209	0.039	1.000
2324.0	37	16.9	2.573	0.071	210	0.259	0.029	1.000
2324.2	34	12.7	2.574	0.075	212	0.275	0.027	1.000
2324.4	41	9.7	2.556	0.088	216	0.286	0.037	1.000
2324.6	46	7.8	2.538	0.101	221	0.293	0.048	1.000
2324.8	46	7.8	2.538	0.103	220	0.301	0.047	1.000
2325.0	43	8.8	2.550	0.105	218	0.336	0.039	1.000
2325.2	39	9.4	2.548	0.110	218	0.354	0.039	1.000
2325.4	37	8.9	2.530	0.112	220	0.319	0.051	1.000
2325.6	33	8.6	2.512	0.109	222	0.264	0.065	1.000
2325.8	30	7.7	2.502	0.104	224	0.216	0.074	1.000
2326.0	29	7.6	2.509	0.100	222	0.217	0.070	1.000
2326.2	28	7.6	2.519	0.105	222	0.262	0.061	1.000
2326.4	27	8.5	2.527	0.101	221	0.266	0.056	1.000
2326.6	27	10.1	2.543	0.088	218	0.254	0.047	1.000
2326.8	27	12.1	2.554	0.082	212	0.255	0.041	1.000
2327.0	25	13.6	2.557	0.087	208	0.283	0.037	1.000
2327.2	26	13.9	2.554	0.081	209	0.254	0.040	1.000
2327.4	27	13.7	2.542	0.075	208	0.198	0.051	1.000
2327.6	28	12.8	2.536	0.083	209	0.215	0.054	1.000
2327.8	28	11.2	2.526	0.087	213	0.207	0.061	1.000
2328.0	30	9.8	2.510	0.098	218	0.215	0.070	1.000
2328.2	29	8.6	2.506	0.107	224	0.239	0.070	1.000
2328.4	28	7.7	2.499	0.117	228	0.262	0.073	1.000
2328.6	27	7.3	2.478	0.127	229	0.252	0.086	1.000
2328.8	28	7.4	2.484	0.119	230	0.234	0.084	1.000
2329.0	27	7.4	2.496	0.110	229	0.229	0.077	1.000
2329.2	23	6.6	2.480	0.117	230	0.215	0.088	1.000
2329.4	24	5.6	2.439	0.128	236	0.163	0.116	0.992

2329.6	30	5.0	2.406	0.141	247	0.130	0.139	0.975
2329.8	35	5.0	2.412	0.143	250	0.154	0.133	0.994
2330.0	36	5.8	2.468	0.131	240	0.244	0.093	1.000
2330.2	34	7.8	2.505	0.117	230	0.276	0.068	1.000
2330.4	32	10.0	2.507	0.113	225	0.266	0.068	1.000
2330.6	31	10.9	2.512	0.106	223	0.250	0.066	1.000
2330.8	34	10.7	2.518	0.104	224	0.256	0.062	1.000
2331.0	33	9.8	2.517	0.103	227	0.250	0.063	1.000
2331.2	34	9.0	2.514	0.111	229	0.273	0.063	1.000
2331.4	33	8.9	2.526	0.120	229	0.341	0.053	1.000
2331.6	34	9.0	2.531	0.126	227	0.378	0.048	1.000
2331.8	33	8.6	2.508	0.124	229	0.313	0.064	1.000
2332.0	31	9.5	2.508	0.127	227	0.324	0.064	1.000
2332.2	30	11.4	2.541	0.120	220	0.376	0.043	1.000
2332.4	32	16.7	2.552	0.100	212	0.324	0.038	1.000
2332.6	35	20.8	2.564	0.090	205	0.311	0.031	1.000
2332.8	34	25.3	2.595	0.078	201	0.339	0.012	1.000
2333.0	35	40.5	2.616	0.058	193	0.310	0.000	1.000
2333.2	38	61.6	2.641	0.051	188	0.342	0.000	1.000
2333.4	41	72.6	2.614	0.051	190	0.277	0.003	1.000
2333.6	46	73.6	2.534	0.060	190	0.118	0.062	1.000
2333.8	47	73.2	2.475	0.070	194	0.015	0.104	1.000
2334.0	44	70.7	2.490	0.068	194	0.043	0.094	1.000
2334.2	42	84.2	2.552	0.058	191	0.154	0.048	1.000
2334.4	44	97.3	2.555	0.040	192	0.090	0.051	1.000
2334.6	43	134.3	2.503	0.030	189	0.000	0.079	1.000
2334.8	42	166.2	2.471	0.029	186	0.000	0.089	1.000
2335.0	43	134.6	2.482	0.032	187	0.000	0.087	1.000
2335.2	43	86.0	2.466	0.031	192	0.000	0.092	1.000
2335.4	44	65.3	2.465	0.035	199	0.000	0.094	1.000
2335.6	43	57.6	2.496	0.050	201	0.000	0.091	1.000
2335.8	49	50.1	2.520	0.078	202	0.157	0.067	1.000
2336.0	57	31.5	2.461	0.125	217	0.204	0.100	1.000
2336.2	72	17.6	2.364	0.178	237	0.181	0.160	1.000
2336.4	90	12.1	2.357	0.228	254	0.363	0.151	1.000
2336.6	104	10.9	2.414	0.248	266	0.580	0.010	1.000
2336.8	113	11.1	2.466	0.269	279	0.794	0.000	1.000
2337.0	111	11.2	2.487	0.266	282	0.829	0.000	1.000
2337.2	112	11.7	2.513	0.226	274	0.732	0.000	1.000
2337.4	106	11.5	2.495	0.206	259	0.607	0.000	1.000
2337.6	92	7.7	2.421	0.220	269	0.488	0.060	1.000
2337.8	69	4.6	2.358	0.211	277	0.297	0.155	1.000
2338.0	54	3.1	2.335	0.191	289	0.159	0.179	1.000
2338.2	46	2.8	2.336	0.168	283	0.069	0.186	1.000
2338.4	46	3.6	2.378	0.124	262	0.000	0.165	1.000
2338.6	48	7.1	2.470	0.074	252	0.022	0.107	1.000
2338.8	47	14.1	2.550	0.032	233	0.047	0.056	1.000
2339.0	44	28.5	2.591	0.016	207	0.081	0.029	1.000
2339.2	46	67.0	2.595	0.021	191	0.109	0.025	1.000
2339.4	58	64.4	2.601	0.046	190	0.223	0.015	1.000
2339.6	78	27.3	2.560	0.104	209	0.358	0.032	1.000
2339.8	90	13.6	2.508	0.161	227	0.463	0.040	1.000
2340.0	98	9.9	2.477	0.192	244	0.508	0.034	1.000
2340.2	100	8.8	2.457	0.201	254	0.497	0.044	1.000
2340.4	95	8.8	2.439	0.207	257	0.478	0.059	1.000
2340.6	87	7.4	2.413	0.209	262	0.425	0.100	1.000
2340.8	75	6.1	2.397	0.200	264	0.347	0.128	1.000
2341.0	62	4.7	2.396	0.185	270	0.283	0.133	1.000
2341.2	49	5.3	2.425	0.147	262	0.201	0.122	1.000
2341.4	41	7.4	2.481	0.101	254	0.155	0.091	1.000
2341.6	36	14.4	2.526	0.101	228	0.265	0.056	1.000
2341.8	35	19.9	2.556	0.125	217	0.432	0.026	1.000
2342.0	36	19.4	2.556	0.138	211	0.484	0.017	1.000
2342.2	38	17.0	2.532	0.126	219	0.379	0.048	1.000
2342.4	40	16.3	2.526	0.127	219	0.370	0.051	1.000

2342.6	38	17.1	2.551	0.130	218	0.441	0.027	1.000
2342.8	37	17.8	2.554	0.119	215	0.402	0.033	1.000
2343.0	35	14.5	2.520	0.122	215	0.333	0.057	1.000
2343.2	36	6.7	2.443	0.143	224	0.232	0.109	1.000
2343.4	37	3.9	2.353	0.174	254	0.138	0.170	1.000
2343.6	39	2.6	2.304	0.200	287	0.124	0.200	1.000
2343.8	45	2.3	2.302	0.203	296	0.128	0.202	1.000
2344.0	69	2.6	2.379	0.193	284	0.278	0.143	1.000
2344.2	98	4.5	2.460	0.202	264	0.508	0.038	1.000
2344.4	113	7.5	2.504	0.261	247	0.852	0.000	1.000
2344.6	116	8.4	2.492	0.291	249	0.941	0.000	0.996
2344.8	119	7.6	2.370	0.277	246	0.589	0.007	0.916
2345.0	113	7.0	2.221	0.306	258	0.344	0.233	0.916
2345.2	107	7.1	2.241	0.335	276	0.510	0.094	0.916
2345.4	105	7.5	2.437	0.286	273	0.789	0.000	0.920
2345.6	101	9.1	2.526	0.216	263	0.726	0.000	0.960
2345.8	99	10.6	2.535	0.181	242	0.606	0.000	1.000
2346.0	95	11.8	2.533	0.176	241	0.580	0.004	1.000
2346.2	92	11.2	2.514	0.196	239	0.617	0.000	1.000
2346.4	82	9.2	2.475	0.192	248	0.507	0.034	1.000
2346.6	81	8.0	2.448	0.165	258	0.329	0.099	1.000
2346.8	95	8.3	2.464	0.166	260	0.373	0.088	1.000
2347.0	102	10.2	2.531	0.191	251	0.638	0.000	1.000
2347.2	97	12.8	2.513	0.190	248	0.589	0.003	1.000
2347.4	93	8.9	2.468	0.172	257	0.409	0.080	1.000
2347.6	92	8.6	2.453	0.169	259	0.360	0.095	1.000
2347.8	96	8.3	2.470	0.194	261	0.498	0.040	1.000
2348.0	87	9.1	2.462	0.206	261	0.531	0.028	1.000
2348.2	79	8.0	2.441	0.192	259	0.422	0.088	1.000
2348.4	73	6.4	2.448	0.183	263	0.403	0.095	1.000
2348.6	63	5.5	2.421	0.179	262	0.321	0.116	1.000
2348.8	56	4.8	2.400	0.181	270	0.279	0.130	1.000
2349.0	62	4.9	2.403	0.182	273	0.287	0.128	1.000
2349.2	66	5.1	2.419	0.180	270	0.324	0.117	1.000
2349.4	57	5.1	2.401	0.180	267	0.280	0.130	1.000
2349.6	41	3.8	2.356	0.192	268	0.216	0.162	1.000
2349.8	29	3.0	2.344	0.190	269	0.179	0.172	1.000
2350.0	25	3.5	2.415	0.150	256	0.188	0.129	1.000
2350.2	27	5.9	2.530	0.097	222	0.256	0.055	1.000
2350.4	37	11.5	2.578	0.077	204	0.293	0.023	1.000
2350.6	51	13.6	2.524	0.102	201	0.262	0.058	1.000
2350.8	68	11.1	2.438	0.151	229	0.249	0.110	0.944
2351.0	85	11.1	2.365	0.223	259	0.363	0.147	0.904
2351.2	84	11.5	2.347	0.257	278	0.454	0.111	0.864
2351.4	69	11.7	2.393	0.193	269	0.309	0.133	0.880
2351.6	53	13.9	2.361	0.080	245	Coal		
2351.8	41	16.8	2.021	0.026	213	Coal		
2352.0	37	42.4	1.843	0.038	188	Coal		
2352.2	42	32.3	1.968	0.071	187	Coal		
2352.4	49	13.4	2.318	0.094	205	Coal		
2352.6	49	10.6	2.507	0.087	220	Coal		
2352.8	45	12.1	2.542	0.058	214	0.128	0.056	1.000
2353.0	48	20.9	2.557	0.035	204	0.075	0.050	1.000
2353.2	49	33.4	2.542	0.028	200	0.011	0.063	1.000
2353.4	48	32.3	2.524	0.031	201	0.000	0.073	1.000
2353.6	47	27.0	2.530	0.043	204	0.039	0.069	1.000
2353.8	47	26.0	2.544	0.052	204	0.110	0.056	1.000
2354.0	47	27.9	2.553	0.053	203	0.139	0.049	1.000
2354.2	47	28.9	2.522	0.053	201	0.061	0.073	1.000
2354.4	45	38.2	2.408	0.049	199	0.214	0.014	1.000
2354.6	47	48.9	2.294	0.054	198	0.238	0.007	0.998
2354.8	49	64.3	2.278	0.067	196	0.259	0.000	1.000
2355.0	47	73.4	2.255	0.071	197	0.234	0.005	1.000
2355.2	47	79.6	2.211	0.073	197	0.236	0.006	1.000
2355.4	47	77.6	2.219	0.079	197	0.234	0.004	1.000

2355.6	46	58.1	2.283	0.105	200	0.224	0.015	1.000
2355.8	45	39.9	2.321	0.120	204	0.212	0.030	1.000
2356.0	45	34.5	2.381	0.122	207	0.211	0.039	1.000
2356.2	45	35.1	2.459	0.128	203	0.207	0.029	1.000
2356.4	46	51.5	2.517	0.112	200	0.227	0.014	1.000
2356.6	48	76.1	2.554	0.101	197	0.251	0.003	0.960
2356.8	49	76.3	2.563	0.108	194	0.382	0.029	0.974
2357.0	50	27.2	2.500	0.131	205	0.324	0.069	1.000
2357.2	51	7.8	2.411	0.153	229	0.194	0.131	1.000
2357.4	52	3.8	2.360	0.179	254	0.174	0.163	1.000
2357.6	51	3.3	2.348	0.192	273	0.197	0.168	1.000
2357.8	49	3.5	2.350	0.187	271	0.179	0.168	1.000
2358.0	45	3.8	2.364	0.170	267	0.145	0.163	1.000
2358.2	44	4.9	2.380	0.154	260	0.124	0.154	1.000
2358.4	47	5.4	2.397	0.147	251	0.136	0.143	1.000
2358.6	46	5.6	2.413	0.142	246	0.155	0.132	1.000
2358.8	46	5.0	2.406	0.141	250	0.132	0.138	1.000
2359.0	45	4.6	2.394	0.141	259	0.104	0.147	1.000
2359.2	44	4.5	2.387	0.148	262	0.116	0.151	1.000
2359.4	47	4.6	2.386	0.146	262	0.104	0.153	1.000
2359.6	55	5.4	2.380	0.139	253	0.061	0.159	1.000
2359.8	58	6.0	2.379	0.137	252	0.050	0.161	1.000
2360.0	58	6.0	2.388	0.135	252	0.064	0.154	1.000
2360.2	56	5.7	2.390	0.117	260	0.000	0.158	1.000
2360.4	62	5.7	2.407	0.097	259	0.000	0.143	1.000
2360.6	73	6.5	2.434	0.085	255	0.000	0.128	1.000
2360.8	94	9.8	2.431	0.125	255	0.130	0.123	1.000
2361.0	115	13.7	2.402	0.220	270	0.438	0.098	0.954
2361.2	120	15.1	2.357	0.300	291	0.653	0.000	0.874
2361.4	115	15.3	2.293	0.314	315	0.552	0.043	0.840
2361.6	110	14.5	2.218	0.342	332	0.483	0.131	0.880
2361.8	105	15.6	2.164	0.378	349	0.495	0.134	0.880
2362.0	99	15.4	2.230	0.390	355	0.703	0.000	0.920
2362.2	102	14.2	2.327	0.369	349	0.856	0.000	0.960
2362.4	106	12.9	2.350	0.343	330	0.805	0.000	0.993
2362.6	104	13.8	2.325	0.314	328	0.632	0.000	0.993
2362.8	106	14.6	2.401	0.256	310	0.582	0.010	0.993
2363.0	110	14.6	2.537	0.202	287	0.695	0.000	0.993
2363.2	106	13.3	2.572	0.183	254	0.705	0.000	0.993
2363.4	98	13.1	2.555	0.177	249	0.637	0.000	1.000
2363.6	97	13.2	2.541	0.171	247	0.579	0.004	1.000
2363.8	106	12.8	2.509	0.196	263	0.602	0.000	1.000
2364.0	118	12.3	2.482	0.259	274	0.790	0.000	1.000
2364.2	123	11.7	2.480	0.281	285	0.874	0.000	1.000
2364.4	119	11.2	2.480	0.274	287	0.846	0.000	1.000
2364.6	111	10.3	2.490	0.253	283	0.787	0.000	1.000
2364.8	101	10.1	2.522	0.209	275	0.686	0.000	1.000
2365.0	95	10.9	2.561	0.173	259	0.638	0.000	1.000
2365.2	95	11.4	2.579	0.166	243	0.654	0.000	1.000
2365.4	101	9.8	2.561	0.190	250	0.708	0.000	1.000
2365.6	110	7.5	2.522	0.241	261	0.816	0.000	1.000
2365.8	113	7.3	2.490	0.260	275	0.814	0.000	1.000
2366.0	111	8.2	2.510	0.241	279	0.785	0.000	1.000
2366.2	107	11.3	2.524	0.224	274	0.751	0.000	1.000
2366.4	103	13.0	2.534	0.198	261	0.672	0.000	1.000
2366.6	96	12.7	2.540	0.162	249	0.540	0.011	1.000
2366.8	93	12.0	2.534	0.150	246	0.481	0.025	1.000
2367.0	100	11.2	2.538	0.189	249	0.648	0.000	1.000
2367.2	107	10.4	2.516	0.237	266	0.788	0.000	1.000
2367.4	110	11.3	2.436	0.301	285	0.847	0.000	1.000
2367.6	109	12.4	2.362	0.323	303	0.757	0.000	1.000
2367.8	108	13.9	2.426	0.265	294	0.678	0.000	1.000
2368.0	113	13.6	2.552	0.204	267	0.740	0.000	1.000
2368.2	112	12.0	2.601	0.178	246	0.757	0.000	1.000
2368.4	109	11.9	2.604	0.180	243	0.769	0.000	1.000

2368.6	109	11.9	2.598	0.176	242	0.738	0.000	1.000
2368.8	107	11.9	2.588	0.173	238	0.702	0.000	1.000
2369.0	109	11.1	2.582	0.182	243	0.726	0.000	1.000
2369.2	116	10.9	2.567	0.186	248	0.704	0.000	1.000
2369.4	125	10.1	2.555	0.194	254	0.708	0.000	1.000
2369.6	129	9.8	2.560	0.241	259	0.909	0.000	1.000
2369.8	126	9.0	2.527	0.272	266	0.955	0.000	1.000
2370.0	116	9.8	2.460	0.269	283	0.775	0.000	1.000
2370.2	111	11.1	2.428	0.261	290	0.666	0.000	1.000
2370.4	104	12.5	2.459	0.231	292	0.624	0.000	1.000
2370.6	92	12.3	2.507	0.199	271	0.611	0.000	1.000
2370.8	88	12.2	2.550	0.155	260	0.539	0.009	1.000
2371.0	94	11.9	2.562	0.149	244	0.546	0.006	1.000
2371.2	101	12.2	2.563	0.171	241	0.633	0.000	1.000
2371.4	104	12.6	2.559	0.173	241	0.632	0.000	0.986
2371.6	108	13.8	2.530	0.167	242	0.538	0.013	0.946
2371.8	106	14.6	2.490	0.176	247	0.479	0.041	0.906
2372.0	97	12.1	2.434	0.195	257	0.416	0.095	0.866
2372.2	95	9.9	2.362	0.247	278	0.450	0.108	0.866
2372.4	99	9.6	2.336	0.288	306	0.553	0.036	0.880
2372.6	106	10.3	2.381	0.304	314	0.724	0.000	0.920
2372.8	111	10.8	2.447	0.297	310	0.859	0.000	0.960
2373.0	109	10.0	2.499	0.256	286	0.821	0.000	1.000
2373.2	112	9.7	2.519	0.199	268	0.640	0.000	1.000
2373.4	120	11.2	2.499	0.163	253	0.447	0.049	1.000
2373.6	118	13.1	2.476	0.157	244	0.366	0.081	0.976
2373.8	107	12.8	2.457	0.162	243	0.339	0.094	0.969
2374.0	100	11.6	2.440	0.173	246	0.342	0.104	0.929
2374.2	103	11.1	2.467	0.186	250	0.462	0.056	0.937
2374.4	106	11.7	2.516	0.194	242	0.612	0.000	0.961
2374.6	103	13.2	2.539	0.200	239	0.691	0.000	0.993
2374.8	97	13.5	2.544	0.199	239	0.701	0.000	1.000
2375.0	90	12.7	2.563	0.191	240	0.715	0.000	1.000
2375.2	79	11.0	2.560	0.175	236	0.644	0.000	1.000
2375.4	69	10.6	2.541	0.140	231	0.457	0.028	1.000
2375.6	62	12.7	2.534	0.092	221	0.245	0.053	1.000
2375.8	57	15.9	2.531	0.076	214	0.175	0.060	1.000
2376.0	55	27.0	2.543	0.076	209	0.204	0.050	1.000
2376.2	52	29.6	2.549	0.067	212	0.185	0.048	1.000
2376.4	58	21.7	2.514	0.079	237	0.148	0.072	1.000
2376.6	72	14.5	2.464	0.140	261	0.272	0.093	1.000
2376.8	93	11.0	2.481	0.211	268	0.595	0.002	0.995
2377.0	107	9.7	2.518	0.222	272	0.729	0.000	0.979
2377.2	113	10.0	2.534	0.208	262	0.712	0.000	1.000
2377.4	109	9.9	2.538	0.205	256	0.711	0.000	1.000
2377.6	104	10.0	2.538	0.221	265	0.776	0.000	1.000
2377.8	106	11.1	2.414	0.275	293	Coal		
2378.0	106	13.3	2.206	0.356	323	Coal		
2378.2	103	13.8	2.142	0.376	345	Coal		
2378.4	96	13.3	2.215	0.349	352	Coal		
2378.6	92	11.0	2.332	0.328	313	Coal		
2378.8	93	10.6	2.408	0.298	306	0.767	0.000	1.000
2379.0	97	10.6	2.465	0.288	291	0.865	0.000	1.000
2379.2	97	11.3	2.473	0.293	291	0.905	0.000	1.000
2379.4	94	13.6	2.423	0.294	291	Coal		
2379.6	88	15.6	2.339	0.307	306	Coal		
2379.8	87	16.4	2.309	0.324	305	Coal		
2380.0	95	14.1	2.385	0.302	297	Coal		
2380.2	99	12.1	2.462	0.276	282	0.809	0.000	1.000
2380.4	99	12.7	2.441	0.280	283	0.778	0.000	1.000
2380.6	99	14.6	2.450	0.262	277	0.723	0.000	1.000
2380.8	101	14.8	2.503	0.229	264	0.720	0.000	1.000
2381.0	108	12.9	2.530	0.214	241	0.729	0.000	1.000
2381.2	112	12.1	2.540	0.232	241	0.823	0.000	1.000
2381.4	104	12.3	2.552	0.227	239	0.834	0.000	1.000

2381.6	96	12.5	2.545	0.208	238	0.738	0.000	1.000
2381.8	96	12.3	2.533	0.179	235	0.593	0.001	1.000
2382.0	99	12.2	2.521	0.174	236	0.545	0.013	1.000
2382.2	98	12.1	2.522	0.181	236	0.575	0.006	1.000
2382.4	100	12.7	2.542	0.194	237	0.677	0.000	1.000
2382.6	89	11.0	2.532	0.193	233	0.648	0.000	1.000
2382.8	69	10.9	2.517	0.146	224	0.423	0.048	1.000
2383.0	57	12.7	2.520	0.074	217	0.141	0.069	1.000
2383.2	49	20.1	2.552	0.033	211	0.053	0.055	1.000
2383.4	46	37.0	2.570	0.028	199	0.076	0.042	1.000
2383.6	48	36.4	2.562	0.034	207	0.081	0.047	1.000
2383.8	52	29.6	2.544	0.056	210	0.126	0.055	1.000
2384.0	52	29.9	2.552	0.076	210	0.225	0.044	1.000
2384.2	43	40.2	2.576	0.069	202	0.257	0.027	1.000
2384.4	43	72.5	2.598	0.048	193	0.225	0.016	1.000
2384.6	46	136.0	2.599	0.046	191	0.223	0.016	1.000
2384.8	45	178.1	2.607	0.054	189	0.274	0.007	1.000
2385.0	42	213.5	2.625	0.058	188	0.333	0.000	1.000
2385.2	40	242.7	2.630	0.055	187	0.332	0.000	1.000
2385.4	41	262.7	2.628	0.052	187	0.318	0.000	1.000
2385.6	41	270.6	2.622	0.057	190	0.320	0.000	1.000
2385.8	42	240.7	2.630	0.070	189	0.393	0.000	1.000
2386.0	50	169.9	2.633	0.110	192	0.560	0.000	1.000
2386.2	67	62.0	2.586	0.169	226	0.683	0.000	1.000
2386.4	90	26.8	2.524	0.200	245	0.655	0.000	1.000
2386.6	100	19.4	2.502	0.204	255	0.618	0.000	0.994
2386.8	96	18.1	2.498	0.197	253	0.578	0.006	0.954
2387.0	88	18.9	2.493	0.185	255	0.520	0.025	0.914
2387.2	89	20.0	2.487	0.166	252	0.431	0.060	0.914
2387.4	92	20.1	2.496	0.158	250	0.420	0.060	0.914
2387.6	99	17.5	2.516	0.181	255	0.560	0.010	0.920
2387.8	104	13.8	2.515	0.218	262	0.707	0.000	0.960
2388.0	103	12.5	2.501	0.240	268	0.759	0.000	1.000
2388.2	103	12.8	2.511	0.223	264	0.718	0.000	1.000
2388.4	104	13.9	2.535	0.210	251	0.722	0.000	1.000
2388.6	105	14.3	2.557	0.221	250	0.823	0.000	1.000
2388.8	102	14.3	2.568	0.214	240	0.819	0.000	1.000
2389.0	100	14.1	2.569	0.197	235	0.754	0.000	1.000
2389.2	93	16.4	2.551	0.177	234	0.631	0.000	1.000
2389.4	85	15.3	2.582	0.162	232	0.645	0.000	1.000
2389.6	75	10.0	2.614	0.173	239	0.765	0.000	1.000
2389.8	67	8.4	2.552	0.174	252	0.620	0.000	1.000
2390.0	64	7.8	2.469	0.174	259	0.419	0.075	1.000
2390.2	65	9.1	2.438	0.178	258	0.360	0.104	1.000
2390.4	59	8.5	2.425	0.171	258	0.301	0.114	1.000
2390.6	54	7.5	2.417	0.162	256	0.244	0.123	1.000
2390.8	62	7.1	2.429	0.149	257	0.220	0.118	1.000
2391.0	71	8.2	2.429	0.136	255	0.169	0.122	1.000
2391.2	68	13.3	2.406	0.118	241	0.039	0.145	1.000
2391.4	55	25.0	2.388	0.096	216	0.340	0.038	0.971
2391.6	54	40.8	2.419	0.083	206	0.320	0.015	0.942
2391.8	61	40.9	2.443	0.105	207	0.411	0.003	0.995
2392.0	58	24.5	2.431	0.129	224	0.375	0.053	0.986
2392.2	50	22.5	2.421	0.118	218	0.272	0.057	0.986
2392.4	46	24.3	2.372	0.104	217	0.219	0.065	0.986
2392.6	43	39.1	2.349	0.107	200	0.191	0.021	1.000
2392.8	40	52.9	2.360	0.095	202	0.156	0.034	0.994
2393.0	37	62.6	2.393	0.082	200	0.125	0.035	1.000
2393.2	36	75.8	2.435	0.083	199	0.122	0.031	1.000
2393.4	34	87.6	2.522	0.076	195	0.103	0.022	1.000
2393.6	32	90.4	2.541	0.064	191	0.084	0.015	1.000
2393.8	36	109.1	2.455	0.064	188	0.114	0.000	1.000
2394.0	38	91.5	2.423	0.070	193	0.138	0.010	1.000
2394.2	35	94.9	2.495	0.079	195	0.108	0.021	1.000
2394.4	29	97.6	2.508	0.081	192	0.060	0.023	1.000

2394.6	28	117.0	2.386	0.090	185	0.052	0.002	1.000
2394.8	31	142.7	2.320	0.093	186	0.073	0.000	1.000
2395.0	35	139.8	2.370	0.075	192	0.112	0.013	1.000
2395.2	40	139.6	2.417	0.062	195	0.156	0.014	1.000
2395.4	41	154.4	2.341	0.066	196	0.168	0.015	1.000
2395.6	40	183.6	2.284	0.070	193	0.153	0.009	1.000
2395.8	39	182.5	2.299	0.068	192	0.145	0.007	1.000
2396.0	39	181.8	2.334	0.054	194	0.151	0.012	1.000
2396.2	37	175.3	2.435	0.035	197	0.125	0.024	1.000
2396.4	35	195.7	2.512	0.018	193	0.106	0.016	1.000
2396.6	35	226.4	2.512	0.014	188	0.110	0.000	1.000
2396.8	40	193.3	2.528	0.021	187	0.162	0.000	1.000
2397.0	50	94.8	2.517	0.040	189	0.274	0.000	1.000
2397.2	59	50.6	2.465	0.053	202	0.383	0.000	1.000
2397.4	58	42.6	2.394	0.051	208	0.372	0.011	1.000
2397.6	54	41.7	2.357	0.053	208	0.323	0.021	1.000
2397.8	53	57.3	2.398	0.053	204	0.307	0.013	1.000
2398.0	47	63.2	2.240	0.067	201	0.237	0.016	1.000
2398.2	45	65.2	2.067	0.101	201	0.215	0.020	1.000
2398.4	47	61.8	2.083	0.115	201	0.235	0.017	1.000
2398.6	47	57.5	2.227	0.104	203	0.231	0.023	1.000
2398.8	47	62.9	2.385	0.083	201	0.239	0.016	1.000
2399.0	49	75.4	2.494	0.063	199	0.256	0.008	1.000
2399.2	49	75.0	2.497	0.066	199	0.257	0.006	1.000
2399.4	52	68.0	2.478	0.069	201	0.296	0.007	1.000
2399.6	50	56.9	2.466	0.068	205	0.276	0.021	1.000
2399.8	50	50.7	2.389	0.069	209	0.275	0.033	1.000
2400.0	51	50.4	2.355	0.081	207	0.281	0.026	1.000
2400.2	49	54.1	2.302	0.089	204	0.262	0.020	1.000
2400.4	49	60.2	2.268	0.073	205	0.254	0.024	1.000
2400.6	48	66.0	2.313	0.048	207	0.252	0.030	1.000
2400.8	48	70.6	2.348	0.034	206	0.243	0.031	1.000
2401.0	48	73.0	2.387	0.042	203	0.248	0.020	1.000
2401.2	53	49.9	2.468	0.069	205	0.303	0.015	1.000
2401.4	60	39.3	2.472	0.091	212	0.401	0.018	1.000
2401.6	60	37.5	2.407	0.087	214	0.408	0.021	1.000
2401.8	52	48.6	2.379	0.070	211	0.299	0.035	1.000
2402.0	49	71.2	2.408	0.067	203	0.253	0.020	1.000
2402.2	48	95.1	2.398	0.066	196	0.251	0.000	1.000
2402.4	48	116.7	2.358	0.064	196	0.242	0.002	1.000
2402.6	47	130.2	2.398	0.061	200	0.240	0.013	1.000
2402.8	47	129.5	2.464	0.054	201	0.231	0.018	1.000
2403.0	47	121.2	2.453	0.050	199	0.236	0.010	1.000
2403.2	50	118.6	2.466	0.047	194	0.268	0.000	1.000
2403.4	49	117.0	2.409	0.041	198	0.255	0.004	1.000
2403.6	45	120.0	2.381	0.035	198	0.215	0.011	1.000
2403.8	51	108.3	2.317	0.041	192	0.289	0.000	1.000
2404.0	70	60.2	2.284	0.086	197	0.554	0.000	1.000
2404.2	90	29.2	2.391	0.124	213	0.852	0.000	1.000
2404.4	90	21.2	2.401	0.127	226	0.860	0.000	1.000
2404.6	82	18.7	2.395	0.121	228	0.736	0.000	1.000
2404.8	76	18.5	2.485	0.115	228	0.635	0.000	1.000
2405.0	78	19.9	2.424	0.121	230	0.669	0.000	1.000
2405.2	82	22.1	2.309	0.137	225	0.736	0.000	1.000
2405.4	77	30.5	2.325	0.135	224	0.651	0.000	1.000
2405.6	71	39.5	2.409	0.127	224	0.569	0.003	1.000
2405.8	70	45.8	2.354	0.115	219	0.548	0.003	1.000
2406.0	61	63.8	2.172	0.097	215	0.413	0.022	1.000
2406.2	48	113.0	2.048	0.099	198	0.248	0.006	1.000
2406.4	48	119.0	2.096	0.108	194	0.243	0.000	1.000
2406.6	54	116.0	2.220	0.122	192	0.325	0.000	1.000
2406.8	50	139.4	2.341	0.103	197	0.277	0.000	1.000
2407.0	41	190.9	2.393	0.045	188	0.166	0.000	1.000
2407.2	35	218.1	2.383	0.026	185	0.113	0.000	1.000
2407.4	43	172.9	2.345	0.036	185	0.188	0.000	1.000

2407.6	51	146.9	2.288	0.046	182	0.290	0.000	1.000
2407.8	57	148.0	2.268	0.031	185	0.361	0.000	1.000
2408.0	54	161.8	2.267	0.014	187	0.327	0.000	1.000
2408.2	49	172.0	2.246	0.010	189	0.263	0.000	1.000
2408.4	48	159.5	2.259	0.015	189	0.244	0.000	1.000
2408.6	50	150.4	2.320	0.024	195	0.274	0.000	1.000
2408.8	49	156.9	2.255	0.030	191	0.263	0.000	1.000
2409.0	44	165.8	2.122	0.045	187	0.196	0.000	1.000
2409.2	39	155.6	2.124	0.058	189	0.151	0.000	1.000
2409.4	38	155.7	2.339	0.058	194	0.138	0.015	1.000
2409.6	41	176.1	2.454	0.053	195	0.163	0.011	1.000
2409.8	42	183.1	2.442	0.047	191	0.180	0.000	1.000
2410.0	46	177.0	2.276	0.048	193	0.221	0.000	1.000
2410.2	49	166.5	2.168	0.052	191	0.256	0.000	1.000
2410.4	50	147.3	2.274	0.048	198	0.274	0.001	1.000
2410.6	49	162.2	2.393	0.057	186	0.257	0.000	1.000
2410.8	47	166.7	2.345	0.061	192	0.236	0.000	1.000
2411.0	41	160.2	2.357	0.047	189	0.171	0.000	1.000
2411.2	41	147.3	2.442	0.030	193	0.164	0.007	1.000
2411.4	45	109.2	2.529	0.038	197	0.213	0.009	1.000
2411.6	51	73.4	2.511	0.069	200	0.287	0.005	0.960
2411.8	55	60.5	2.489	0.094	206	0.342	0.011	0.960
2412.0	55	51.0	2.512	0.077	211	0.133	0.074	0.960
2412.2	58	33.4	2.531	0.053	212	Coal		
2412.4	65	20.4	2.526	0.046	211	Coal		
2412.6	77	18.7	2.473	0.056	220	Coal		
2412.8	87	19.3	2.383	0.090	229	Coal		
2413.0	83	23.5	2.345	0.127	238	Coal		
2413.2	65	50.4	2.436	0.114	230	Coal		
2413.4	51	111.1	2.572	0.075	208	Coal		
2413.6	53	129.4	2.621	0.063	186	Coal		
2413.8	68	72.0	2.584	0.070	190	0.280	0.021	0.960
2414.0	81	37.0	2.548	0.112	200	0.361	0.039	0.920
2414.2	82	27.9	2.514	0.143	211	0.401	0.057	0.883
2414.4	76	28.2	2.512	0.139	217	0.381	0.059	0.852
2414.6	68	39.1	2.528	0.104	208	0.281	0.054	0.820
2414.8	57	57.1	2.543	0.069	202	0.175	0.053	0.834
2415.0	52	63.5	2.543	0.058	199	0.133	0.055	0.866
2415.2	54	51.1	2.532	0.067	201	0.142	0.061	0.916
2415.4	56	38.1	2.520	0.070	206	0.127	0.070	0.936
2415.6	57	31.7	2.519	0.074	211	0.140	0.069	0.931
2415.8	64	28.4	2.503	0.095	213	0.185	0.076	0.931
2416.0	67	26.3	2.492	0.128	219	0.289	0.075	0.936
2416.2	65	23.6	2.501	0.139	221	0.355	0.067	0.957
2416.4	58	24.4	2.506	0.119	221	0.289	0.067	1.000
2416.6	52	26.8	2.525	0.093	215	0.229	0.060	1.000
2416.8	48	32.0	2.546	0.082	212	0.236	0.047	1.000
2417.0	50	35.6	2.541	0.086	210	0.242	0.049	1.000
2417.2	51	33.3	2.526	0.098	211	0.250	0.058	1.000
2417.4	48	34.6	2.528	0.094	210	0.242	0.057	0.943
2417.6	43	41.7	2.527	0.078	207	0.175	0.062	0.923
2417.8	40	54.9	2.539	0.075	205	0.190	0.054	0.929
2418.0	42	63.0	2.560	0.072	204	0.231	0.039	0.937
2418.2	47	71.7	2.566	0.069	203	0.231	0.035	0.980
2418.4	52	47.3	2.553	0.082	206	0.253	0.041	1.000
2418.6	53	38.0	2.543	0.076	204	0.203	0.051	1.000
2418.8	52	38.0	2.549	0.064	206	0.170	0.049	1.000
2419.0	53	55.0	2.568	0.056	196	0.186	0.037	1.000
2419.2	52	59.1	2.570	0.066	199	0.232	0.033	0.998
2419.4	53	51.5	2.546	0.091	203	0.272	0.044	0.920
2419.6	55	42.3	2.535	0.119	207	0.359	0.047	0.875
2419.8	55	38.3	2.520	0.122	214	0.336	0.056	0.835
2420.0	53	35.8	2.505	0.107	219	0.238	0.071	0.811
2420.2	47	35.0	2.510	0.109	213	0.256	0.067	0.819
2420.4	44	39.4	2.526	0.113	205	0.315	0.054	0.819

2420.6	45	47.4	2.542	0.106	199	0.320	0.044	0.859
2420.8	54	52.3	2.532	0.122	204	0.363	0.048	0.899
2421.0	73	38.0	2.501	0.188	217	0.554	0.013	0.935
2421.2	93	26.2	2.499	0.205	234	0.614	0.000	0.995
2421.4	91	21.5	2.511	0.147	234	0.413	0.054	1.000
2421.6	73	20.3	2.506	0.082	225	0.139	0.077	1.000
2421.8	63	21.5	2.513	0.053	221	0.040	0.080	1.000
2422.0	59	23.5	2.527	0.040	210	0.022	0.072	1.000
2422.2	55	26.6	2.527	0.047	211	0.048	0.071	1.000
2422.4	55	29.1	2.527	0.058	210	0.095	0.067	1.000
2422.6	57	33.2	2.531	0.066	213	0.135	0.062	1.000
2422.8	62	32.5	2.531	0.073	212	0.163	0.061	1.000
2423.0	65	30.5	2.524	0.087	212	0.203	0.062	1.000
2423.2	62	27.7	2.514	0.088	215	0.181	0.069	1.000
2423.4	61	26.9	2.516	0.081	217	0.159	0.070	1.000
2423.6	56	29.1	2.515	0.098	218	0.224	0.066	0.979
2423.8	50	28.6	2.499	0.102	218	0.201	0.077	0.927
2424.0	45	31.4	2.482	0.084	216	0.088	0.095	0.865
2424.2	44	32.7	2.485	0.087	211	0.108	0.092	0.826
2424.4	41	41.3	2.501	0.082	204	0.126	0.081	0.829
2424.6	34	50.3	2.519	0.067	202	0.112	0.071	0.866
2424.8	32	52.5	2.537	0.060	199	0.125	0.059	0.923
2425.0	31	52.7	2.550	0.058	200	0.152	0.050	0.963
2425.2	31	48.6	2.555	0.057	198	0.158	0.046	1.000
2425.4	31	46.6	2.572	0.055	202	0.192	0.034	1.000
2425.6	32	42.1	2.586	0.057	203	0.233	0.023	1.000
2425.8	33	45.5	2.563	0.058	201	0.180	0.040	1.000
2426.0	34	51.5	2.532	0.054	199	0.096	0.036	1.000
2426.2	31	84.3	2.512	0.056	196	0.070	0.032	1.000
2426.4	27	116.8	2.547	0.059	192	0.044	0.023	1.000
2426.6	32	128.7	2.551	0.065	189	0.085	0.009	1.000
2426.8	34	130.9	2.447	0.068	192	0.103	0.014	1.000
2427.0	33	121.0	2.395	0.081	194	0.090	0.022	1.000
2427.2	33	143.5	2.394	0.100	194	0.090	0.023	1.000
2427.4	33	189.4	2.439	0.103	192	0.092	0.015	1.000
2427.6	37	153.1	2.413	0.104	193	0.124	0.013	1.000
2427.8	43	115.9	2.272	0.123	196	0.193	0.011	1.000
2428.0	47	83.0	2.221	0.128	202	0.234	0.019	1.000
2428.2	49	66.4	2.207	0.123	201	0.253	0.014	1.000
2428.4	48	66.1	2.213	0.111	199	0.251	0.010	1.000
2428.6	46	74.7	2.319	0.110	198	0.223	0.012	1.000
2428.8	45	84.6	2.444	0.121	199	0.207	0.016	0.960
2429.0	43	89.6	2.505	0.127	200	0.187	0.024	0.920
2429.2	41	76.4	2.540	0.110	201	0.336	0.044	0.880
2429.4	42	64.8	2.527	0.097	204	0.251	0.057	0.840
2429.6	38	55.6	2.496	0.080	203	0.109	0.085	0.800
2429.8	34	57.3	2.498	0.066	201	0.054	0.088	0.838
2430.0	35	82.5	2.541	0.057	199	0.123	0.057	0.857
2430.2	37	111.7	2.569	0.059	200	0.199	0.035	0.857
2430.4	37	119.8	2.564	0.059	199	0.187	0.039	0.857
2430.6	41	102.0	2.550	0.054	196	0.134	0.051	0.897
2430.8	45	53.6	2.499	0.077	204	0.101	0.084	0.899
2431.0	46	29.2	2.350	0.194	219	Coal		
2431.2	52	26.7	2.107	0.372	275	Coal		
2431.4	57	30.7	1.932	0.408	334	Coal		
2431.6	59	37.2	1.999	0.275	329	Coal		
2431.8	62	29.7	2.299	0.167	299	Coal		
2432.0	66	19.6	2.486	0.137	256	Coal		
2432.2	70	17.6	2.527	0.141	226	Coal		
2432.4	64	17.5	2.527	0.142	230	Coal		
2432.6	50	13.4	2.479	0.139	239	Coal		
2432.8	39	9.1	2.422	0.136	243	Coal		
2433.0	35	6.9	2.407	0.124	250	Coal		
2433.2	38	8.2	2.423	0.116	252	Coal		
2433.4	47	11.2	2.405	0.132	250	Coal		

2433.6	53	13.7	2.375	0.153	254	Coal		
2433.8	53	19.5	2.371	0.140	244	Coal		
2434.0	56	24.9	2.402	0.125	232	Coal		
2434.2	64	26.5	2.428	0.138	222	Coal		
2434.4	65	25.5	2.432	0.158	222	0.263	0.113	0.883
2434.6	62	22.4	2.445	0.140	222	0.224	0.108	0.848
2434.8	62	20.4	2.447	0.124	224	0.163	0.111	0.813
2435.0	63	20.7	2.447	0.118	225	0.138	0.113	0.876
2435.2	61	21.8	2.452	0.114	220	0.137	0.110	0.944
2435.4	58	22.6	2.464	0.118	221	0.374	0.045	1.000
2435.6	57	22.0	2.454	0.122	219	0.358	0.045	1.000
2435.8	56	21.5	2.394	0.125	222	0.354	0.052	1.000
2436.0	54	24.9	2.392	0.123	219	0.318	0.052	1.000
2436.2	55	31.3	2.474	0.122	215	0.337	0.038	1.000
2436.4	59	36.2	2.488	0.125	212	0.385	0.021	1.000
2436.6	63	31.1	2.458	0.126	214	0.440	0.012	1.000
2436.8	63	26.0	2.445	0.124	216	0.443	0.016	1.000
2437.0	60	26.4	2.389	0.128	218	0.405	0.031	1.000
2437.2	58	31.9	2.386	0.119	217	0.379	0.034	1.000
2437.4	59	42.9	2.454	0.100	215	0.385	0.028	1.000
2437.6	58	45.8	2.480	0.091	211	0.374	0.021	1.000
2437.8	57	42.7	2.503	0.089	211	0.362	0.023	1.000
2438.0	60	40.1	2.496	0.086	213	0.402	0.020	1.000
2438.2	61	38.2	2.456	0.084	216	0.416	0.023	1.000
2438.4	60	37.7	2.422	0.079	216	0.406	0.027	1.000
2438.6	61	37.1	2.447	0.071	214	0.415	0.020	1.000
2438.8	57	39.0	2.427	0.070	214	0.365	0.030	1.000
2439.0	57	42.8	2.382	0.073	213	0.365	0.026	1.000
2439.2	58	45.0	2.396	0.078	211	0.381	0.019	1.000
2439.4	55	46.3	2.435	0.083	210	0.332	0.024	1.000
2439.6	54	47.7	2.480	0.078	210	0.325	0.026	1.000
2439.8	56	50.0	2.506	0.070	210	0.343	0.022	1.000
2440.0	53	56.7	2.488	0.067	207	0.308	0.022	1.000
2440.2	48	69.4	2.468	0.057	203	0.253	0.019	1.000
2440.4	46	83.0	2.418	0.052	199	0.218	0.015	1.000
2440.6	45	104.0	2.431	0.057	197	0.215	0.008	1.000
2440.8	46	106.9	2.497	0.054	196	0.226	0.005	1.000
2441.0	47	101.1	2.475	0.054	200	0.234	0.014	1.000
2441.2	49	99.9	2.494	0.057	201	0.258	0.014	1.000
2441.4	51	96.7	2.511	0.053	201	0.277	0.010	1.000
2441.6	48	88.5	2.469	0.054	202	0.246	0.017	1.000
2441.8	45	84.6	2.441	0.055	203	0.217	0.025	1.000
2442.0	47	83.2	2.436	0.056	202	0.231	0.020	1.000
2442.2	47	84.8	2.372	0.064	201	0.237	0.018	1.000
2442.4	44	93.5	2.286	0.069	200	0.205	0.019	1.000
2442.6	41	114.2	2.310	0.055	198	0.162	0.021	1.000
2442.8	38	136.9	2.346	0.044	196	0.135	0.019	1.000
2443.0	40	126.0	2.243	0.056	195	0.152	0.015	1.000
2443.2	45	98.9	2.220	0.064	198	0.207	0.013	0.983
2443.4	45	90.0	2.328	0.057	202	0.209	0.026	0.949
2443.6	44	94.4	2.401	0.048	206	0.200	0.039	0.949
2443.8	40	132.3	2.457	0.048	204	0.159	0.041	0.949
2444.0	38	164.6	2.457	0.047	197	0.133	0.023	0.949
2444.2	39	152.0	2.418	0.044	195	0.150	0.014	0.967
2444.4	43	131.8	2.440	0.056	196	0.191	0.011	1.000
2444.6	46	112.2	2.465	0.071	200	0.225	0.015	1.000
2444.8	44	122.7	2.496	0.069	202	0.204	0.025	1.000
2445.0	37	181.7	2.507	0.053	199	0.130	0.030	1.000
2445.2	32	269.4	2.336	0.043	192	0.078	0.018	1.000
2445.4	27	401.4	2.247	0.041	187	0.043	0.009	1.000
2445.6	27	499.8	2.255	0.036	186	0.040	0.007	1.000
2445.8	26	489.7	2.177	0.032	187	0.035	0.009	1.000
2446.0	26	439.5	2.066	0.033	187	0.038	0.009	1.000
2446.2	29	331.3	2.016	0.038	188	0.057	0.011	1.000
2446.4	31	252.0	2.043	0.052	194	0.070	0.025	1.000

2446.6	32	216.8	2.215	0.061	195	0.083	0.026	1.000
2446.8	34	185.1	2.307	0.052	195	0.100	0.025	1.000
2447.0	41	137.3	2.304	0.047	197	0.166	0.018	1.000
2447.2	46	87.5	2.347	0.056	201	0.227	0.020	0.988
2447.4	50	64.8	2.414	0.067	206	0.267	0.025	0.988
2447.6	50	60.0	2.427	0.063	212	0.274	0.040	0.988
2447.8	52	59.8	2.298	0.058	210	0.292	0.033	0.988
2448.0	53	55.7	2.246	0.075	210	0.306	0.031	0.988
2448.2	56	49.6	2.314	0.099	212	0.350	0.028	1.000
2448.4	66	47.2	2.455	0.106	221	0.490	0.013	1.000
2448.6	72	49.1	2.512	0.092	224	0.577	0.002	1.000
2448.8	71	53.2	2.494	0.087	221	0.560	0.002	1.000
2449.0	72	48.0	2.476	0.085	215	0.576	0.000	1.000
2449.2	77	36.8	2.431	0.099	218	0.662	0.000	0.979
2449.4	73	32.8	2.389	0.091	222	0.593	0.000	0.953
2449.6	57	32.6	2.410	0.072	222	0.365	0.049	0.953
2449.8	53	37.6	2.436	0.073	218	0.303	0.051	0.945
2450.0	53	41.7	2.362	0.072	214	0.314	0.038	0.916
2450.2	52	44.8	2.342	0.059	214	0.300	0.042	0.902
2450.4	48	54.8	2.380	0.054	212	0.246	0.047	0.892
2450.6	44	70.5	2.357	0.048	209	0.195	0.047	0.866
2450.8	42	86.5	2.296	0.042	207	0.177	0.045	0.873
2451.0	41	98.4	2.274	0.034	205	0.165	0.042	0.902
2451.2	43	100.1	2.216	0.032	203	0.186	0.031	0.928
2451.4	46	87.2	2.192	0.034	203	0.220	0.026	0.964
2451.6	45	80.0	2.300	0.043	207	0.213	0.038	0.990
2451.8	46	67.9	2.386	0.054	207	0.223	0.036	0.990
2452.0	49	62.8	2.324	0.054	205	0.256	0.024	0.990
2452.2	49	62.8	2.349	0.056	204	0.253	0.022	0.999
2452.4	49	60.1	2.392	0.055	205	0.257	0.026	1.000
2452.6	51	54.0	2.366	0.053	206	0.283	0.022	1.000
2452.8	50	51.2	2.395	0.060	208	0.273	0.030	1.000
2453.0	50	43.0	2.453	0.078	211	0.272	0.038	0.998
2453.2	51	41.9	2.475	0.080	213	0.286	0.042	1.000
2453.4	48	44.6	2.483	0.058	212	0.246	0.045	1.000
2453.6	48	46.9	2.485	0.045	209	0.244	0.039	1.000
2453.8	49	46.7	2.477	0.049	209	0.255	0.036	1.000
2454.0	49	41.4	2.451	0.062	211	0.259	0.040	1.000
2454.2	50	46.6	2.441	0.065	212	0.270	0.041	1.000
2454.4	47	55.1	2.443	0.048	209	0.240	0.039	1.000
2454.6	43	67.3	2.454	0.033	207	Coal		
2454.8	44	86.6	2.347	0.026	203	Coal		
2455.0	45	80.0	2.108	0.035	203	Coal		
2455.2	46	66.6	1.988	0.048	203	Coal		
2455.4	49	56.7	2.081	0.051	206	Coal		
2455.6	57	50.4	2.244	0.053	209	Coal		
2455.8	60	37.1	2.337	0.060	212	Coal		
2456.0	57	21.5	2.320	0.070	221	Coal		
2456.2	68	13.4	2.327	0.099	233	Coal		
2456.4	94	10.1	2.405	0.151	241	Coal		
2456.6	119	10.4	2.523	0.198	249	Coal		
2456.8	129	14.1	2.565	0.208	241	0.788	0.000	1.000
2457.0	127	16.2	2.561	0.204	236	0.762	0.000	1.000
2457.2	133	16.2	2.550	0.199	235	0.717	0.000	1.000
2457.4	133	16.6	2.545	0.207	236	0.736	0.000	1.000
2457.6	133	17.5	2.537	0.208	236	0.720	0.000	1.000
2457.8	130	19.0	2.531	0.210	236	Coal		
2458.0	126	21.1	2.467	0.216	237	Coal		
2458.2	121	23.7	2.322	0.200	236	Coal		
2458.4	111	24.0	2.251	0.188	239	Coal		
2458.6	94	24.2	2.315	0.190	240	Coal		
2458.8	73	28.1	2.370	0.143	231	Coal		
2459.0	56	39.1	2.351	0.107	220	Coal		
2459.2	51	54.9	2.352	0.101	209	Coal		
2459.4	49	58.0	2.483	0.097	207	Coal		

2459.6	48	55.8	2.543	0.091	206	Coal		
2459.8	47	54.0	2.526	0.087	203	0.208	0.061	0.892
2460.0	48	52.8	2.522	0.071	205	0.135	0.068	0.878
2460.2	50	52.1	2.535	0.065	206	0.140	0.060	0.845
2460.4	52	50.1	2.542	0.066	207	0.165	0.054	0.860
2460.6	49	48.4	2.533	0.075	205	0.176	0.059	0.885
2460.8	51	50.5	2.537	0.067	203	0.157	0.057	0.899
2461.0	51	54.6	2.542	0.056	200	0.121	0.057	0.906
2461.2	47	58.7	2.546	0.052	200	0.116	0.054	0.938
2461.4	48	59.1	2.553	0.057	201	0.154	0.048	0.958
2461.6	50	55.0	2.558	0.068	201	0.208	0.042	0.945
2461.8	48	54.3	2.555	0.073	204	0.225	0.042	0.919
2462.0	48	60.4	2.547	0.066	204	0.176	0.050	0.886
2462.2	46	72.2	2.533	0.054	202	0.091	0.064	0.861
2462.4	42	85.0	2.531	0.044	197	0.047	0.068	0.866
2462.6	41	96.6	2.562	0.053	199	0.158	0.042	0.894
2462.8	42	79.9	2.571	0.064	200	0.225	0.032	0.934
2463.0	46	51.1	2.572	0.077	204	Coal		
2463.2	59	35.6	2.445	0.136	241	Coal		
2463.4	77	28.3	2.280	0.233	295	Coal		
2463.6	82	24.7	2.231	0.301	321	Coal		
2463.8	74	21.2	2.291	0.276	323	Coal		
2464.0	71	16.2	2.334	0.253	307	Coal		
2464.2	67	16.4	2.356	0.207	288	Coal		
2464.4	54	18.2	2.421	0.120	260	Coal		
2464.6	40	26.0	2.476	0.052	232	Coal		
2464.8	35	49.5	2.511	0.043	209	0.000	0.083	0.951
2465.0	34	56.4	2.528	0.043	201	0.038	0.070	0.962
2465.2	35	45.2	2.514	0.038	206	0.000	0.079	1.000
2465.4	36	36.3	2.512	0.040	210	0.000	0.081	1.000
2465.6	38	32.8	2.532	0.053	211	0.087	0.065	1.000
2465.8	36	33.8	2.533	0.061	211	0.120	0.062	1.000
2466.0	34	37.9	2.528	0.060	210	0.104	0.066	1.000
2466.2	35	44.4	2.554	0.052	205	0.136	0.048	1.000
2466.4	35	50.6	2.573	0.040	206	0.132	0.037	1.000
2466.6	33	60.4	2.572	0.031	204	0.096	0.040	1.000
2466.8	32	72.4	2.585	0.022	202	0.088	0.033	1.000
2467.0	33	89.8	2.598	0.016	198	0.097	0.024	1.000
2467.2	35	107.7	2.601	0.014	199	0.098	0.022	1.000
2467.4	37	119.7	2.598	0.019	200	0.111	0.023	1.000
2467.6	38	116.7	2.588	0.025	204	0.111	0.029	1.000
2467.8	36	110.2	2.568	0.029	207	0.076	0.043	1.000
2468.0	36	113.3	2.495	0.032	207	0.122	0.054	1.000
2468.2	39	144.5	2.386	0.033	204	0.151	0.041	1.000
2468.4	38	177.7	2.323	0.030	199	0.140	0.028	1.000
2468.6	39	207.2	2.342	0.026	197	0.146	0.020	1.000
2468.8	40	221.7	2.361	0.028	197	0.160	0.019	1.000
2469.0	48	233.6	2.400	0.031	198	0.246	0.006	1.000
2469.2	55	183.9	2.440	0.039	201	0.334	0.000	1.000
2469.4	60	179.9	2.431	0.050	207	0.402	0.005	1.000
2469.6	60	95.6	2.392	0.070	212	0.401	0.017	1.000
2469.8	59	85.8	2.390	0.078	215	0.383	0.029	1.000
2470.0	56	88.8	2.375	0.072	216	0.352	0.038	1.000
2470.2	54	95.6	2.309	0.075	214	0.327	0.037	1.000
2470.4	50	97.0	2.201	0.083	215	0.275	0.050	1.000
2470.6	48	103.5	2.196	0.083	213	0.245	0.050	1.000
2470.8	45	120.7	2.246	0.067	211	0.210	0.049	1.000
2471.0	44	139.4	2.252	0.067	209	0.202	0.044	1.000
2471.2	46	135.5	2.317	0.075	209	0.220	0.043	1.000
2471.4	46	123.0	2.428	0.078	211	0.000	0.127	1.000
2471.6	45	120.5	2.500	0.083	211	0.128	0.082	1.000
2471.8	42	129.2	2.498	0.098	208	0.186	0.079	1.000
2472.0	39	133.1	2.487	0.117	203	0.233	0.082	1.000
2472.2	39	136.8	2.497	0.130	199	0.309	0.071	1.000
2472.4	39	144.7	2.526	0.110	201	0.301	0.054	1.000

2472.6	42	157.1	2.543	0.077	204	0.207	0.050	1.000
2472.8	42	152.7	2.539	0.067	205	0.159	0.056	1.000
2473.0	43	130.2	2.501	0.070	204	0.079	0.084	1.000
2473.2	46	94.0	2.443	0.079	203	0.000	0.122	1.000
2473.4	49	79.6	2.407	0.082	204	0.000	0.136	1.000
2473.6	48	68.0	2.432	0.068	207	0.000	0.121	1.000
2473.8	46	60.0	2.482	0.053	210	0.222	0.046	1.000
2474.0	51	56.0	2.496	0.046	214	0.281	0.044	1.000
2474.2	54	48.5	2.488	0.043	216	0.316	0.045	1.000
2474.4	49	42.4	2.490	0.037	218	0.255	0.059	1.000
2474.6	45	44.5	2.488	0.031	217	0.217	0.066	1.000
2474.8	46	55.0	2.493	0.032	213	0.226	0.053	1.000
2475.0	47	71.1	2.504	0.034	207	0.241	0.032	1.000
2475.2	46	93.3	2.514	0.031	204	0.224	0.027	1.000
2475.4	43	117.4	2.494	0.029	202	0.185	0.028	1.000
2475.6	41	124.9	2.479	0.030	201	0.167	0.031	1.000
2475.8	43	107.4	2.469	0.032	201	0.194	0.026	0.960
2476.0	46	87.7	2.463	0.034	204	0.219	0.028	0.920
2476.2	43	79.6	2.461	0.031	209	0.194	0.047	0.920
2476.4	41	77.3	2.455	0.027	207	0.167	0.048	0.920
2476.6	48	73.7	2.455	0.036	205	0.249	0.025	0.916
2476.8	58	53.3	2.459	0.078	208	0.375	0.013	0.916
2477.0	61	31.1	2.429	0.137	222	0.415	0.039	0.915
2477.2	51	26.4	2.408	0.136	231	0.289	0.085	0.876
2477.4	42	26.5	2.415	0.080	227	0.178	0.096	0.836
2477.6	37	34.2	2.420	0.051	219	0.128	0.085	0.802
2477.8	37	42.9	2.408	0.051	215	0.131	0.074	0.803
2478.0	40	46.9	2.405	0.049	213	0.160	0.064	0.803
2478.2	40	51.0	2.414	0.044	212	0.157	0.061	0.802
2478.4	41	58.2	2.426	0.046	211	0.165	0.059	0.813
2478.6	48	56.1	2.458	0.064	214	0.245	0.052	0.833
2478.8	53	54.4	2.514	0.079	215	0.307	0.044	0.833
2479.0	52	57.2	2.547	0.079	214	0.294	0.041	0.833
2479.2	49	62.7	2.544	0.074	211	0.198	0.050	0.833
2479.4	46	73.7	2.536	0.071	209	0.167	0.057	0.821
2479.6	46	81.0	2.523	0.063	210	0.104	0.069	0.800
2479.8	44	87.3	2.512	0.053	212	0.036	0.080	0.800
2480.0	40	99.8	2.523	0.050	210	0.053	0.072	0.800
2480.2	40	113.2	2.538	0.051	207	0.095	0.061	0.800
2480.4	39	127.6	2.542	0.055	205	0.117	0.057	0.831
2480.6	37	147.6	2.553	0.049	204	0.119	0.050	0.871
2480.8	38	170.9	2.574	0.046	201	0.157	0.035	0.871
2481.0	40	174.4	2.580	0.046	199	0.173	0.030	0.871
2481.2	44	168.1	2.562	0.050	199	0.148	0.043	0.911
2481.4	46	166.0	2.563	0.051	199	0.153	0.042	0.920
2481.6	44	167.5	2.581	0.045	199	0.175	0.029	0.920
2481.8	38	170.1	2.612	0.038	198	0.220	0.008	0.960
2482.0	40	166.5	2.612	0.035	198	0.210	0.008	1.000
2482.2	41	162.5	2.599	0.033	199	0.172	0.019	1.000
2482.4	33	170.8	2.603	0.034	200	0.183	0.016	1.000
2482.6	29	179.0	2.623	0.027	200	0.205	0.002	1.000
2482.8	30	191.9	2.625	0.022	200	0.186	0.002	1.000
2483.0	31	170.4	2.610	0.027	201	0.171	0.012	1.000
2483.2	31	132.8	2.588	0.038	201	0.161	0.026	1.000
2483.4	34	109.1	2.589	0.047	204	0.200	0.023	0.960
2483.6	42	77.0	2.573	0.069	205	0.250	0.029	0.920
2483.8	53	54.2	2.515	0.115	212	0.293	0.061	0.893
2484.0	66	37.8	2.473	0.160	224	0.373	0.083	0.893
2484.2	82	24.9	2.488	0.188	237	0.518	0.027	0.853
2484.4	91	25.8	2.502	0.198	243	0.596	0.001	0.853
2484.6	75	29.0	2.512	0.159	239	0.466	0.037	0.853
2484.8	51	31.3	2.508	0.113	227	0.269	0.067	0.840
2485.0	41	29.5	2.469	0.109	224	0.157	0.098	0.802
2485.2	40	23.4	2.422	0.118	241	0.079	0.133	0.865
2485.4	42	21.0	2.442	0.112	264	0.104	0.119	0.923

2485.6	48	25.2	2.517	0.089	259	0.195	0.067	0.934
2485.8	54	34.5	2.551	0.083	239	0.250	0.043	0.962
2486.0	50	49.7	2.542	0.095	220	0.278	0.046	1.000
2486.2	40	60.9	2.555	0.080	215	0.250	0.040	0.976
2486.4	30	71.7	2.585	0.045	210	0.185	0.026	0.958
2486.6	25	99.5	2.599	0.027	207	0.145	0.021	0.988
2486.8	26	126.6	2.603	0.021	197	0.131	0.019	1.000
2487.0	30	96.1	2.597	0.021	195	0.117	0.024	1.000
2487.2	36	72.8	2.596	0.026	194	0.134	0.023	1.000
2487.4	39	62.6	2.614	0.027	194	0.181	0.009	1.000
2487.6	41	65.2	2.630	0.020	194	0.192	0.000	1.000
2487.8	44	57.6	2.633	0.022	191	0.208	0.000	1.000
2488.0	48	45.4	2.626	0.040	194	0.260	0.000	1.000
2488.2	49	36.5	2.609	0.060	196	0.301	0.005	1.000
2488.4	46	30.3	2.587	0.060	197	0.250	0.021	1.000
2488.6	44	29.4	2.563	0.053	200	0.162	0.041	1.000
2488.8	46	29.5	2.531	0.070	205	0.154	0.061	1.000
2489.0	45	29.5	2.514	0.087	216	0.178	0.070	1.000
2489.2	38	29.1	2.519	0.093	225	0.215	0.064	1.000
2489.4	36	31.5	2.533	0.084	224	0.213	0.056	1.000
2489.6	35	44.3	2.555	0.070	219	0.209	0.043	1.000
2489.8	34	72.8	2.576	0.054	211	0.199	0.031	1.000
2490.0	33	110.7	2.582	0.044	202	0.170	0.029	1.000
2490.2	30	149.1	2.596	0.045	198	0.209	0.018	1.000
2490.4	28	182.1	2.609	0.055	195	0.281	0.006	1.000
2490.6	30	175.0	2.613	0.066	195	0.336	0.001	1.000
2490.8	35	152.7	2.603	0.079	197	0.363	0.006	1.000
2491.0	43	105.7	2.578	0.098	196	0.379	0.020	0.964
2491.2	49	106.5	2.554	0.104	198	0.343	0.036	0.935
2491.4	48	96.4	2.550	0.093	200	0.290	0.041	0.923
2491.6	46	96.6	2.553	0.088	202	0.275	0.040	0.896
2491.8	44	101.1	2.560	0.078	200	0.253	0.037	0.882
2492.0	42	87.3	2.557	0.071	200	0.219	0.041	0.917
2492.2	43	62.2	2.555	0.072	199	0.219	0.042	0.948
2492.4	45	54.4	2.563	0.077	197	0.258	0.035	0.938
2492.6	44	41.7	2.559	0.084	199	0.273	0.037	0.933
2492.8	44	37.8	2.530	0.091	202	0.232	0.057	0.907
2493.0	43	38.1	2.522	0.090	208	0.211	0.063	0.867
2493.2	42	48.2	2.533	0.081	210	0.202	0.056	0.826
2493.4	41	56.7	2.537	0.067	208	0.153	0.058	0.809
2493.6	43	62.3	2.527	0.062	206	0.109	0.066	0.826
2493.8	45	56.9	2.541	0.069	207	0.171	0.054	0.857
2494.0	44	41.5	2.537	0.082	209	0.213	0.054	0.909
2494.2	44	32.1	2.516	0.085	219	0.177	0.069	0.942
2494.4	42	28.4	2.518	0.083	220	0.172	0.068	0.952
2494.6	40	29.7	2.510	0.085	221	0.161	0.073	0.926
2494.8	43	35.3	2.512	0.087	217	0.172	0.071	0.896
2495.0	46	47.1	2.524	0.078	213	0.170	0.064	0.844
2495.2	44	66.5	2.527	0.067	201	0.131	0.065	0.811
2495.4	42	92.5	2.540	0.063	193	0.145	0.056	0.800
2495.6	38	128.1	2.547	0.061	188	0.157	0.051	0.800
2495.8	35	104.7	2.523	0.060	187	0.092	0.070	0.800
2496.0	33	53.6	2.453	0.072	190	0.000	0.116	0.817
2496.2	37	25.1	2.411	0.090	201	0.000	0.138	0.858
2496.4	44	15.4	2.394	0.095	216	0.000	0.147	0.909
2496.6	44	12.8	2.403	0.090	228	0.000	0.141	0.948
2496.8	41	12.8	2.418	0.087	235	0.000	0.135	0.970
2497.0	42	13.2	2.406	0.089	237	0.000	0.140	0.980
2497.2	44	14.1	2.392	0.098	237	0.000	0.148	1.000
2497.4	46	14.2	2.406	0.101	242	0.000	0.145	1.000
2497.6	48	8.6	2.473	0.098	246	0.123	0.098	1.000
2497.8	58	9.8	2.566	0.135	247	0.499	0.011	1.000
2498.0	83	11.3	2.564	0.204	252	0.771	0.000	1.000
2498.2	111	18.3	2.492	0.241	246	0.740	0.000	1.000
2498.4	116	43.1	2.501	0.231	244	0.726	0.000	0.999

2498.6	88	32.3	2.521	0.176	232	0.552	0.011	1.000
2498.8	58	32.0	2.534	0.103	222	0.291	0.050	1.000
2499.0	52	33.1	2.536	0.061	215	0.126	0.060	1.000
2499.2	52	35.6	2.528	0.057	211	0.093	0.067	1.000
2499.4	52	33.1	2.529	0.056	216	0.089	0.067	1.000
2499.6	50	31.9	2.526	0.059	216	0.096	0.068	1.000
2499.8	50	32.3	2.515	0.060	216	0.074	0.076	1.000
2500.0	53	31.7	2.513	0.067	217	0.096	0.076	1.000
2500.2	54	29.5	2.516	0.074	217	0.132	0.072	1.000
2500.4	52	27.2	2.513	0.073	217	0.119	0.074	1.000
2500.6	52	25.5	2.509	0.073	221	0.112	0.077	1.000
2500.8	55	24.3	2.486	0.080	222	0.083	0.093	0.988
2501.0	57	24.3	2.455	0.083	221	0.020	0.117	0.962
2501.2	54	21.4	2.451	0.084	222	0.013	0.120	0.958
2501.4	48	23.0	2.490	0.100	224	0.172	0.085	0.961
2501.6	47	22.5	2.516	0.118	224	0.306	0.060	0.964
2501.8	44	21.5	2.509	0.131	224	0.346	0.062	0.964
2502.0	42	22.1	2.497	0.136	224	0.333	0.070	0.976
2502.2	45	21.8	2.489	0.126	225	0.273	0.078	0.964
2502.4	46	21.9	2.499	0.110	226	0.236	0.074	1.000
2502.6	45	21.8	2.499	0.110	225	0.233	0.075	1.000
2502.8	45	20.9	2.512	0.104	224	0.243	0.066	1.000
2503.0	46	20.3	2.514	0.098	224	0.222	0.067	1.000
2503.2	46	19.9	2.510	0.100	226	0.221	0.069	1.000
2503.4	46	19.4	2.492	0.093	226	0.149	0.085	1.000
2503.6	47	19.2	2.477	0.086	227	0.085	0.098	1.000
2503.8	50	19.6	2.478	0.088	227	0.096	0.097	1.000
2504.0	48	19.8	2.497	0.089	227	0.147	0.082	1.000
2504.2	46	20.7	2.491	0.089	226	0.129	0.087	1.000
2504.4	46	22.0	2.477	0.092	225	0.110	0.097	1.000
2504.6	44	23.4	2.491	0.101	225	0.177	0.084	1.000
2504.8	44	25.1	2.508	0.094	221	0.191	0.073	0.999
2505.0	45	27.9	2.517	0.082	221	0.165	0.069	0.988
2505.2	46	32.5	2.517	0.074	217	0.136	0.071	0.997
2505.4	56	30.7	2.511	0.096	220	0.209	0.069	0.991
2505.6	77	22.1	2.503	0.194	236	0.583	0.005	0.978
2505.8	93	14.1	2.491	0.277	258	0.884	0.000	0.976
2506.0	93	12.7	2.491	0.260	268	0.818	0.000	1.000
2506.2	83	13.2	2.478	0.192	257	0.511	0.032	1.000
2506.4	74	12.2	2.443	0.150	252	0.259	0.106	1.000
2506.6	75	10.8	2.428	0.163	251	0.275	0.114	1.000
2506.8	79	11.4	2.467	0.190	255	0.475	0.050	1.000
2507.0	69	15.1	2.526	0.153	236	0.474	0.029	1.000
2507.2	53	26.2	2.574	0.080	220	0.296	0.026	1.000
2507.4	46	61.9	2.578	0.051	206	0.190	0.030	1.000
2507.6	48	82.9	2.571	0.057	205	0.196	0.034	0.973
2507.8	48	75.0	2.567	0.064	208	0.216	0.035	0.953
2508.0	50	62.9	2.552	0.066	209	0.186	0.047	0.948
2508.2	49	60.8	2.549	0.054	211	0.130	0.052	0.909
2508.4	47	60.3	2.555	0.053	210	0.142	0.047	0.871
2508.6	50	55.7	2.537	0.074	212	0.183	0.055	0.855
2508.8	55	47.1	2.521	0.086	214	0.190	0.065	0.836
2509.0	60	39.7	2.524	0.095	218	0.234	0.060	0.801
2509.2	68	33.1	2.526	0.121	223	0.343	0.053	0.842
2509.4	75	25.9	2.505	0.138	232	0.360	0.064	0.922
2509.6	71	19.5	2.495	0.130	239	0.304	0.073	0.972
2509.8	63	17.8	2.503	0.115	240	0.263	0.070	0.992
2510.0	54	20.0	2.494	0.109	238	0.218	0.079	1.000
2510.2	48	26.1	2.493	0.097	232	0.166	0.083	1.000
2510.4	44	34.3	2.526	0.074	227	0.153	0.064	1.000
2510.6	41	35.7	2.545	0.057	219	0.135	0.054	1.000
2510.8	42	35.3	2.534	0.049	219	0.076	0.064	1.000
2511.0	43	30.6	2.519	0.050	221	0.041	0.076	1.000
2511.2	46	24.2	2.501	0.062	221	0.048	0.086	1.000
2511.4	50	21.7	2.489	0.078	224	0.080	0.092	1.000

2511.6	49	22.3	2.487	0.084	227	0.104	0.091	0.973
2511.8	43	33.8	2.496	0.073	226	0.079	0.087	0.947
2512.0	40	63.9	2.533	0.052	217	0.085	0.064	0.934
2512.2	38	112.5	2.575	0.046	201	0.160	0.034	0.930
2512.4	37	161.2	2.590	0.047	198	0.202	0.023	0.957
2512.6	38	116.8	2.588	0.057	200	0.241	0.021	0.980
2512.8	38	73.4	2.578	0.070	206	0.266	0.025	0.946
2513.0	36	54.5	2.551	0.079	214	0.235	0.044	0.946
2513.2	38	48.2	2.539	0.091	216	0.257	0.049	0.946
2513.4	40	51.2	2.557	0.092	217	0.305	0.036	0.922
2513.6	42	51.0	2.575	0.095	212	0.356	0.023	0.899
2513.8	49	24.7	2.510	0.129	216	0.338	0.062	0.936
2514.0	77	16.8	2.449	0.192	229	0.443	0.073	0.936
2514.2	110	15.2	2.463	0.265	248	0.770	0.000	0.936
2514.4	101	20.0	2.496	0.261	260	0.831	0.000	0.920
2514.6	75	26.9	2.503	0.184	246	0.540	0.017	0.920
2514.8	53	34.5	2.510	0.116	231	0.287	0.065	0.906
2515.0	47	42.8	2.527	0.098	221	0.255	0.057	0.888
2515.2	47	49.9	2.549	0.095	215	0.293	0.041	0.873
2515.4	47	61.2	2.551	0.091	209	0.287	0.040	0.873
2515.6	45	69.2	2.553	0.091	205	0.289	0.039	0.873
2515.8	43	74.3	2.545	0.092	207	0.272	0.045	0.887
2516.0	42	66.2	2.538	0.089	206	0.244	0.051	0.905
2516.2	43	47.0	2.570	0.095	207	0.346	0.026	0.920
2516.4	44	41.1	2.629	0.086	203	0.452	0.000	0.960
2516.6	44	38.4	2.654	0.064	201	0.427	0.000	1.000
2516.8	44	42.9	2.615	0.052	202	0.282	0.003	1.000
2517.0	44	49.8	2.582	0.047	205	0.183	0.028	1.000
2517.2	45	50.1	2.560	0.040	211	0.101	0.047	1.000
2517.4	47	54.7	2.556	0.035	210	0.072	0.051	1.000
2517.6	47	65.0	2.562	0.029	210	0.062	0.048	1.000
2517.8	45	66.4	2.551	0.030	211	0.041	0.056	1.000
2518.0	48	61.0	2.541	0.037	213	0.043	0.062	1.000
2518.2	51	53.9	2.540	0.040	212	0.054	0.062	1.000
2518.4	53	48.9	2.553	0.038	211	0.078	0.053	1.000
2518.6	50	50.8	2.569	0.037	210	0.113	0.041	1.000
2518.8	46	56.5	2.573	0.033	209	0.105	0.039	1.000
2519.0	43	71.9	2.582	0.032	205	0.125	0.032	1.000
2519.2	46	87.8	2.584	0.034	200	0.135	0.030	0.967
2519.4	59	66.0	2.555	0.057	200	0.159	0.046	0.903
2519.6	74	32.3	2.497	0.113	224	0.241	0.076	0.863
2519.8	75	25.2	2.462	0.146	230	0.289	0.093	0.826
2520.0	68	20.1	2.457	0.148	236	0.284	0.096	0.837
2520.2	62	20.9	2.468	0.133	232	0.253	0.092	0.866
2520.4	59	21.1	2.491	0.114	228	0.232	0.080	0.894
2520.6	57	29.4	2.511	0.088	226	0.176	0.072	0.917
2520.8	49	40.9	2.532	0.071	214	0.159	0.060	0.947
2521.0	48	44.5	2.538	0.073	210	0.180	0.055	0.956
2521.2	50	29.2	2.510	0.089	213	0.178	0.072	0.978
2521.4	53	21.2	2.487	0.095	221	0.146	0.088	1.000
2521.6	51	19.9	2.484	0.088	225	0.111	0.092	1.000
2521.8	49	19.6	2.495	0.073	225	0.076	0.088	1.000
2522.0	46	20.2	2.508	0.065	221	0.074	0.080	1.000
2522.2	47	18.8	2.498	0.064	223	0.046	0.088	1.000
2522.4	47	18.0	2.483	0.067	229	0.024	0.099	1.000
2522.6	45	20.0	2.484	0.072	232	0.045	0.097	1.000
2522.8	42	18.8	2.507	0.072	232	0.100	0.079	1.000
2523.0	41	20.7	2.526	0.069	229	0.136	0.065	1.000
2523.2	41	22.9	2.528	0.063	226	0.116	0.065	1.000
2523.4	41	23.9	2.523	0.057	225	0.082	0.071	1.000
2523.6	43	27.5	2.521	0.056	224	0.071	0.073	1.000
2523.8	51	30.7	2.513	0.062	223	0.074	0.077	1.000
2524.0	62	33.0	2.517	0.082	223	0.166	0.069	0.956
2524.2	73	36.4	2.509	0.105	223	0.240	0.068	0.882
2524.4	72	40.3	2.514	0.111	219	0.273	0.063	0.833

2524.6	57	42.3	2.535	0.096	218	0.265	0.051	0.822
2524.8	48	49.7	2.538	0.083	212	0.219	0.053	0.871
2525.0	47	51.1	2.545	0.072	212	0.193	0.050	0.916
2525.2	42	51.8	2.561	0.058	212	0.177	0.042	0.953
2525.4	37	55.5	2.571	0.052	210	0.174	0.036	1.000
2525.6	38	51.2	2.570	0.058	209	0.199	0.034	1.000
2525.8	43	41.6	2.557	0.060	211	0.174	0.044	1.000
2526.0	49	34.5	2.520	0.070	215	0.127	0.069	0.982
2526.2	53	30.6	2.504	0.084	218	0.142	0.078	0.982
2526.4	49	32.3	2.508	0.088	219	0.167	0.074	0.996
2526.6	41	31.9	2.518	0.073	217	0.131	0.071	1.000
2526.8	37	31.2	2.546	0.061	218	0.154	0.052	1.000
2527.0	35	33.5	2.572	0.052	215	0.180	0.035	1.000
2527.2	35	39.7	2.578	0.057	212	0.214	0.029	1.000
2527.4	39	54.5	2.560	0.061	210	0.187	0.041	0.930
2527.6	49	56.3	2.507	0.071	211	0.097	0.080	0.901
2527.8	58	37.1	2.470	0.093	221	0.096	0.102	0.911
2528.0	60	23.7	2.488	0.110	234	0.209	0.083	0.905
2528.2	55	19.4	2.494	0.115	238	0.244	0.077	0.957
2528.4	49	20.1	2.484	0.112	237	0.206	0.086	1.000
2528.6	44	22.3	2.504	0.100	238	0.207	0.074	1.000
2528.8	43	23.5	2.523	0.100	238	0.256	0.059	1.000
2529.0	46	22.3	2.518	0.118	236	0.314	0.058	1.000
2529.2	57	20.5	2.525	0.138	236	0.410	0.048	1.000
2529.4	70	19.4	2.545	0.159	237	0.543	0.009	1.000
2529.6	74	19.5	2.532	0.166	235	0.540	0.012	0.970
2529.8	68	18.3	2.485	0.151	237	0.367	0.076	0.957
2530.0	61	15.6	2.445	0.132	240	0.191	0.110	0.991
2530.2	57	14.6	2.444	0.112	240	0.106	0.117	1.000
2530.4	53	13.5	2.466	0.104	241	0.131	0.102	1.000
2530.6	54	14.1	2.477	0.102	238	0.150	0.094	1.000
2530.8	53	14.2	2.479	0.106	240	0.169	0.091	1.000
2531.0	52	15.2	2.485	0.102	238	0.167	0.088	1.000
2531.2	51	17.7	2.487	0.092	233	0.132	0.089	1.000
2531.4	52	19.6	2.490	0.080	231	0.093	0.090	1.000
2531.6	48	21.1	2.502	0.077	231	0.112	0.081	1.000
2531.8	47	17.5	2.510	0.081	233	0.145	0.074	1.000
2532.0	45	14.1	2.529	0.079	235	0.182	0.060	1.000
2532.2	48	13.8	2.568	0.079	234	0.276	0.031	1.000
2532.4	46	16.3	2.555	0.071	228	0.215	0.043	1.000
2532.6	44	22.4	2.501	0.053	226	0.013	0.089	1.000
2532.8	40	25.2	2.496	0.041	228	0.000	0.087	1.000
2533.0	40	27.3	2.486	0.049	227	0.000	0.094	1.000
2533.2	43	25.8	2.467	0.075	228	0.017	0.109	1.000
2533.4	45	21.6	2.475	0.106	230	0.161	0.094	1.000
2533.6	43	21.6	2.508	0.097	229	0.205	0.072	1.000
2533.8	43	23.6	2.540	0.065	218	0.154	0.056	1.000
2534.0	45	29.8	2.549	0.050	212	0.113	0.053	1.000
2534.2	51	27.8	2.516	0.068	218	0.105	0.074	1.000
2534.4	60	21.1	2.470	0.100	228	0.125	0.100	1.000
2534.6	66	17.4	2.463	0.112	235	0.156	0.102	1.000
2534.8	65	17.0	2.476	0.097	232	0.127	0.096	1.000
2535.0	62	17.3	2.482	0.090	231	0.113	0.094	1.000
2535.2	61	17.4	2.486	0.093	233	0.134	0.090	1.000
2535.4	60	18.7	2.488	0.090	231	0.127	0.089	1.000
2535.6	58	15.9	2.483	0.091	233	0.120	0.092	1.000
2535.8	60	13.9	2.438	0.101	236	0.051	0.125	1.000
2536.0	64	11.9	2.400	0.109	244	0.000	0.150	1.000
2536.2	63	10.2	2.398	0.110	244	0.000	0.152	1.000
2536.4	57	11.9	2.422	0.100	218	0.006	0.138	1.000
2536.6	49	16.2	2.463	0.084	213	0.043	0.110	1.000
2536.8	50	23.3	2.512	0.080	210	0.146	0.073	1.000
2537.0	54	27.9	2.521	0.083	208	0.180	0.066	1.000
2537.2	53	15.8	2.466	0.090	235	0.074	0.106	1.000
2537.4	52	11.7	2.403	0.113	250	0.012	0.149	0.960

2537.6	51	12.0	2.376	0.147	256	0.083	0.160	0.905
2537.8	49	15.0	2.415	0.164	247	0.249	0.124	0.843
2538.0	43	19.2	2.445	0.165	240	0.326	0.101	0.807
2538.2	43	20.5	2.441	0.157	225	0.282	0.106	0.840
2538.4	48	20.5	2.468	0.170	227	0.402	0.083	0.880
2538.6	52	21.0	2.500	0.205	231	0.619	0.000	0.920
2538.8	61	17.9	2.472	0.254	257	0.746	0.000	0.960
2539.0	71	12.2	2.444	0.268	263	0.735	0.000	1.000
2539.2	74	10.4	2.462	0.262	268	0.754	0.000	1.000
2539.4	79	8.6	2.479	0.283	265	0.881	0.000	1.000
2539.6	84	7.8	2.441	0.322	274	0.945	0.000	1.000
2539.8	84	7.9	2.371	0.357	298	0.915	0.000	1.000
2540.0	81	7.3	2.395	0.343	304	0.917	0.000	1.000
2540.2	78	7.0	2.543	0.295	304	1.000	0.000	1.000
2540.4	74	7.6	2.605	0.256	277	1.000	0.000	1.000
2540.6	68	8.3	2.477	0.253	264	0.754	0.000	0.960
2540.8	62	12.6	2.332	0.317	284	0.660	0.000	0.920
2541.0	59	19.1	2.243	0.344	310	0.551	0.050	0.920
2541.2	63	17.9	2.271	0.323	317	0.536	0.060	0.920
2541.4	68	14.6	2.381	0.291	299	0.673	0.000	0.920
2541.6	74	11.3	2.458	0.263	281	0.749	0.000	0.946
2541.8	72	10.9	2.463	0.235	270	0.647	0.000	0.986
2542.0	67	12.6	2.466	0.190	260	0.477	0.050	0.986
2542.2	69	12.3	2.486	0.195	248	0.545	0.018	0.986
2542.4	76	10.9	2.524	0.232	242	0.786	0.000	0.986
2542.6	76	8.7	2.542	0.236	244	0.844	0.000	1.000
2542.8	72	8.1	2.513	0.246	248	0.814	0.000	0.960
2543.0	64	10.0	2.422	0.272	259	0.696	0.000	0.920
2543.2	61	13.8	2.359	0.260	269	0.495	0.075	0.926
2543.4	67	14.9	2.389	0.215	269	0.389	0.131	0.926
2543.6	72	11.5	2.475	0.193	250	0.508	0.034	0.926
2543.8	74	8.8	2.516	0.199	242	0.632	0.000	0.966
2544.0	77	7.6	2.526	0.230	245	0.781	0.000	1.000
2544.2	76	7.9	2.479	0.280	253	0.866	0.000	0.960
2544.4	71	10.0	2.385	0.307	282	0.749	0.000	0.920
2544.6	65	16.3	2.323	0.299	298	0.565	0.028	0.920
2544.8	64	19.6	2.348	0.259	294	0.465	0.102	0.920
2545.0	69	16.4	2.433	0.244	271	0.612	0.000	0.920
2545.2	78	12.4	2.493	0.236	252	0.724	0.000	0.960
2545.4	85	10.2	2.497	0.236	253	0.736	0.000	1.000
2545.6	88	8.6	2.501	0.245	265	0.782	0.000	1.000
2545.8	89	7.7	2.502	0.259	272	0.841	0.000	1.000
2546.0	90	7.3	2.490	0.275	272	0.874	0.000	1.000
2546.2	92	7.9	2.460	0.299	283	0.899	0.000	1.000
2546.4	90	9.6	2.410	0.328	300	0.894	0.000	1.000
2546.6	86	10.4	2.449	0.331	314	0.997	0.000	1.000
2546.8	82	7.9	2.651	0.275	304	1.000	0.000	1.000
2547.0	88	8.4	2.825	0.210	277	1.000	0.000	1.000
2547.2	100	9.5	2.696	0.201	249	1.000	0.000	1.000
2547.4	109	17.7	2.606	0.199	240	0.852	0.000	1.000
2547.6	117	15.9	2.599	0.187	240	0.787	0.000	1.000
2547.8	119	14.7	2.584	0.201	239	0.803	0.000	1.000
2548.0	114	13.8	2.565	0.207	240	0.783	0.000	1.000
2548.2	105	11.2	2.553	0.215	239	0.788	0.000	1.000
2548.4	92	9.1	2.553	0.230	239	0.848	0.000	1.000
2548.6	85	7.6	2.555	0.248	238	0.923	0.000	1.000
2548.8	85	6.8	2.553	0.270	239	1.000	0.000	1.000
2549.0	86	6.7	2.518	0.277	238	0.950	0.000	1.000
2549.2	83	7.0	2.485	0.288	239	0.914	0.000	0.960
2549.4	77	9.2	2.397	0.310	239	0.790	0.000	0.920
2549.6	78	11.8	2.314	0.306	238	0.573	0.022	0.920
2549.8	78	14.0	2.333	0.287	238	0.539	0.047	0.920
2550.0	76	7.8	2.428	0.254	238	0.640	0.000	0.920
2550.2	78	4.1	2.581	0.209	238	0.831	0.000	0.960
2550.4	81	2.0	2.760	0.205	238	1.000	0.000	1.000

2550.6	83	2.0	2.633	0.216	238	0.985	0.000	1.000
2550.8	79	6.9	2.427	0.201	238	0.425	0.093	1.000
2551.0	78	8.9	2.387	0.187	238	0.272	0.139	0.962
2551.2	80	10.5	2.395	0.181	238	0.266	0.135	0.922
2551.4	79	11.8	2.410	0.192	238	0.347	0.121	0.842
2551.6	79	15.9	2.401	0.227	238	0.467	0.080	0.814
2551.8	78	21.7	2.362	0.257	239	0.492	0.076	0.831
2552.0	79	22.7	2.339	0.259	239	0.445	0.121	0.871
2552.2	81	16.2	2.388	0.265	239	0.587	0.008	0.911
2552.4	81	10.5	2.445	0.270	239	0.744	0.000	0.951
2552.6	82	9.9	2.423	0.300	239	0.812	0.000	0.985
2552.8	83	11.3	2.372	0.304	239	0.704	0.000	0.994
2553.0	82	12.9	2.393	0.262	239	0.587	0.008	0.994
2553.2	83	13.0	2.466	0.218	239	0.587	0.005	0.994
2553.4	82	10.2	2.511	0.223	239	0.717	0.000	0.994
2553.6	82	7.9	2.495	0.250	239	0.787	0.000	1.000
2553.8	82	6.1	2.493	0.261	239	0.823	0.000	1.000
2554.0	83	5.6	2.520	0.257	239	0.873	0.000	1.000
2554.2	83	5.8	2.555	0.236	239	0.875	0.000	1.000
2554.4	83	6.3	2.583	0.226	239	0.903	0.000	1.000
2554.6	83	7.1	2.577	0.211	239	0.828	0.000	1.000
2554.8	83	7.2	2.586	0.211	239	0.849	0.000	1.000
2555.0	83	7.6	2.594	0.211	239	0.871	0.000	1.000
2555.2	83	7.4	2.589	0.208	239	0.846	0.000	1.000
2555.4	83	8.6	2.581	0.192	239	0.761	0.000	1.000
2555.6	83	9.5	2.564	0.178	239	0.667	0.000	1.000
2555.8	83	9.4	2.547	0.173	239	0.604	0.000	1.000
2556.0	83	8.5	2.562	0.172	239	0.638	0.000	1.000
2556.2	83	9.4	2.565	0.170	239	0.635	0.000	1.000
2556.4	83	8.0	2.559	0.168	239	0.615	0.000	1.000
2556.6	83	4.8	2.533	0.175	239	0.578	0.004	1.000
2556.8	83	4.1	2.518	0.174	239	0.539	0.015	1.000
2557.0	83	4.0	2.496	0.178	239	0.499	0.032	1.000
2557.2	83	5.1	2.467	0.199	239	0.513	0.034	1.000
2557.4	83	11.9	2.495	0.196	239	0.568	0.009	1.000
2557.6	83	13.6	2.611	0.170	239	0.748	0.000	1.000
2557.8	83	15.3	2.642	0.150	239	0.743	0.000	1.000
2558.0	83	10.4	2.511	0.137	239	0.373	0.060	1.000
2558.2	83	7.9	2.433	0.132	239	0.160	0.120	1.000
2558.4	83	7.7	2.419	0.130	239	0.120	0.131	1.000
2558.6	83	7.6	2.408	0.133	239	0.108	0.139	1.000
2558.8	83	6.7	2.405	0.137	239	0.115	0.140	1.000
2559.0	83	6.4	2.385	0.138	239	0.068	0.156	1.000
2559.2	83	6.5	2.389	0.134	239	0.064	0.154	1.000
2559.4	83	6.9	2.392	0.139	239	0.091	0.150	1.000
2559.6	83	8.8	2.446	0.147	239	0.255	0.105	1.000
2559.8	83	9.2	2.514	0.137	239	0.382	0.058	1.000
2560.0	83	10.3	2.524	0.133	239	0.386	0.052	1.000
2560.2	83	11.1	2.532	0.131	239	0.400	0.046	1.000
2560.4	83	14.3	2.535	0.128	239	0.393	0.045	1.000
2560.6	83	24.1	2.533	0.135	239	0.418	0.041	1.000
2560.8	83	27.0	2.512	0.145	239	0.409	0.055	0.996
2561.0	83	27.2	2.535	0.147	239	0.470	0.027	0.956
2561.2	83	31.7	2.553	0.141	239	0.488	0.017	0.920
2561.4	83	38.6	2.553	0.139	239	0.482	0.018	0.960
2561.6	83	41.6	2.536	0.128	239	0.399	0.044	0.960
2561.8	83	46.9	2.546	0.134	239	0.443	0.029	0.960
2562.0	83	59.9	2.565	0.134	239	0.493	0.012	0.920
2562.2	83	72.2	2.555	0.129	239	0.446	0.024	0.920
2562.4	83	73.6	2.534	0.135	239	0.419	0.040	0.920
2562.6	83	57.1	2.533	0.143	239	0.447	0.034	0.920
2562.8	83	44.7	2.558	0.145	239	0.517	0.011	0.920
2563.0	83	42.0	2.569	0.144	239	0.542	0.005	0.960
2563.2	83	44.0	2.560	0.144	239	0.521	0.010	0.960
2563.4	83	44.3	2.541	0.145	239	0.476	0.024	0.946

2563.6	83	32.2	2.529	0.144	239	0.447	0.035	0.946
2563.8	83	24.9	2.531	0.145	239	0.450	0.034	0.986
2564.0	83	13.1	2.539	0.144	239	0.468	0.026	1.000
2564.2	83	8.5	2.513	0.143	239	0.401	0.058	1.000
2564.4	83	7.2	2.493	0.143	239	0.352	0.072	1.000
2564.6	83	6.9	2.497	0.143	239	0.362	0.069	1.000
2564.8	83	7.5	2.506	0.143	239	0.384	0.063	1.000
2565.0	83	7.0	2.502	0.143	239	0.375	0.065	1.000
2565.2	83	7.4	2.503	0.143	239	0.378	0.064	1.000
2565.4	83	8.8	2.499	0.143	239	0.367	0.068	1.000
2565.6	83	10.6	2.493	0.143	239	0.354	0.071	1.000
2565.8	83	12.8	2.495	0.143	239	0.357	0.070	1.000
2566.0	83	13.3	2.490	0.143	239	0.346	0.074	1.000
2566.2	83	13.1	2.492	0.143	239	0.350	0.072	1.000
2566.4	83	11.7	2.490	0.143	239	0.345	0.074	1.000
2566.6	83	10.9	2.486	0.143	239	0.336	0.077	1.000
2566.8	83	11.3	2.492	0.143	239	0.350	0.073	1.000
2567.0	83	13.5	2.501	0.143	239	0.372	0.066	1.000
2567.2	83	14.8	2.506	0.143	239	0.385	0.063	1.000
2567.4	83	12.4	2.492	0.143	239	0.351	0.072	1.000
2567.6	83	11.9	2.483	0.143	239	0.329	0.079	1.000
2567.8	83	10.7	2.487	0.143	239	0.338	0.076	1.000
2568.0	83	7.4	2.487	0.143	239	0.339	0.076	1.000
2568.2	83	6.3	2.483	0.143	239	0.329	0.079	1.000
2568.4	83	5.8	2.490	0.143	239	0.347	0.074	1.000
2568.6	83	6.0	2.499	0.143	239	0.368	0.067	1.000
2568.8	83	7.1	2.501	0.143	239	0.373	0.066	1.000
2569.0	83	7.6	2.501	0.143	239	0.372	0.066	1.000
2569.2	83	8.3	2.502	0.143	239	0.375	0.065	1.000
2569.4	83	8.7	2.503	0.143	239	0.377	0.065	1.000
2569.6	83	8.1	2.503	0.143	239	0.377	0.065	1.000
2569.8	83	7.5	2.503	0.143	239	0.377	0.065	1.000
2570.0	83	7.6	2.503	0.143	239	0.377	0.065	1.000
2570.2	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2570.4	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2570.6	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2570.8	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2571.0	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2571.2	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2571.4	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2571.6	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2571.8	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2572.0	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2572.2	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2572.4	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2572.6	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2572.8	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2573.0	83	7.8	2.503	0.143	239	0.377	0.065	1.000
2573.2	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2573.4	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2573.6	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2573.8	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2574.0	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2574.2	83	7.7	2.503	0.143	239	0.377	0.065	1.000
2574.4	83	7.8	2.503	0.143	239	0.377	0.065	1.000
2574.6	Null	N	Nul	Nul	Null	0.000	0.000	1.000
2574.8	Null	N	Nul	Nul	Null	0.000	0.000	1.000
2575.0	Null	N	Nul	Nul	Null	0.000	0.000	1.000

PE601008

This is an enclosure indicator page.
The enclosure PE601008 is enclosed within the container PE902164 at this location in this document.

The enclosure PE601008 has the following characteristics:

ITEM_BARCODE	= PE601008
CONTAINER_BARCODE	= PE902164
NAME	= Quantitative Log
BASIN	=
PERMIT	= Vic/P1
TYPE	= WELL
SUBTYPE	= well log
DESCRIPTION	= Quantitative Log
REMARKS	=
DATE_CREATED	= 26/04/1989
DATE_RECEIVED	= 22/02/1990
W_NO	=
WELL_NAME	= Harlequin-1
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

APPENDIX 3

APPENDIX 3

HARLEQUIN-1
RFT REPORT

A.B. Thomson
February 1989

HARLEQUIN - 1 RFT REPORT

A total of 26 RFT pretest seats were attempted in the Harlequin-1 exploration well on the 1st of February 1989. The Harlequin-1 RFT program consisted of pretests only. A total of 26 pretests were attempted, of which 14 pretests were successful. Two of the successful pretests were supercharged, or in transition to overpressure. Of the 12 unsuccessful pretests, 2 were seal failures, 2 had probe plugging and 8 were tight.

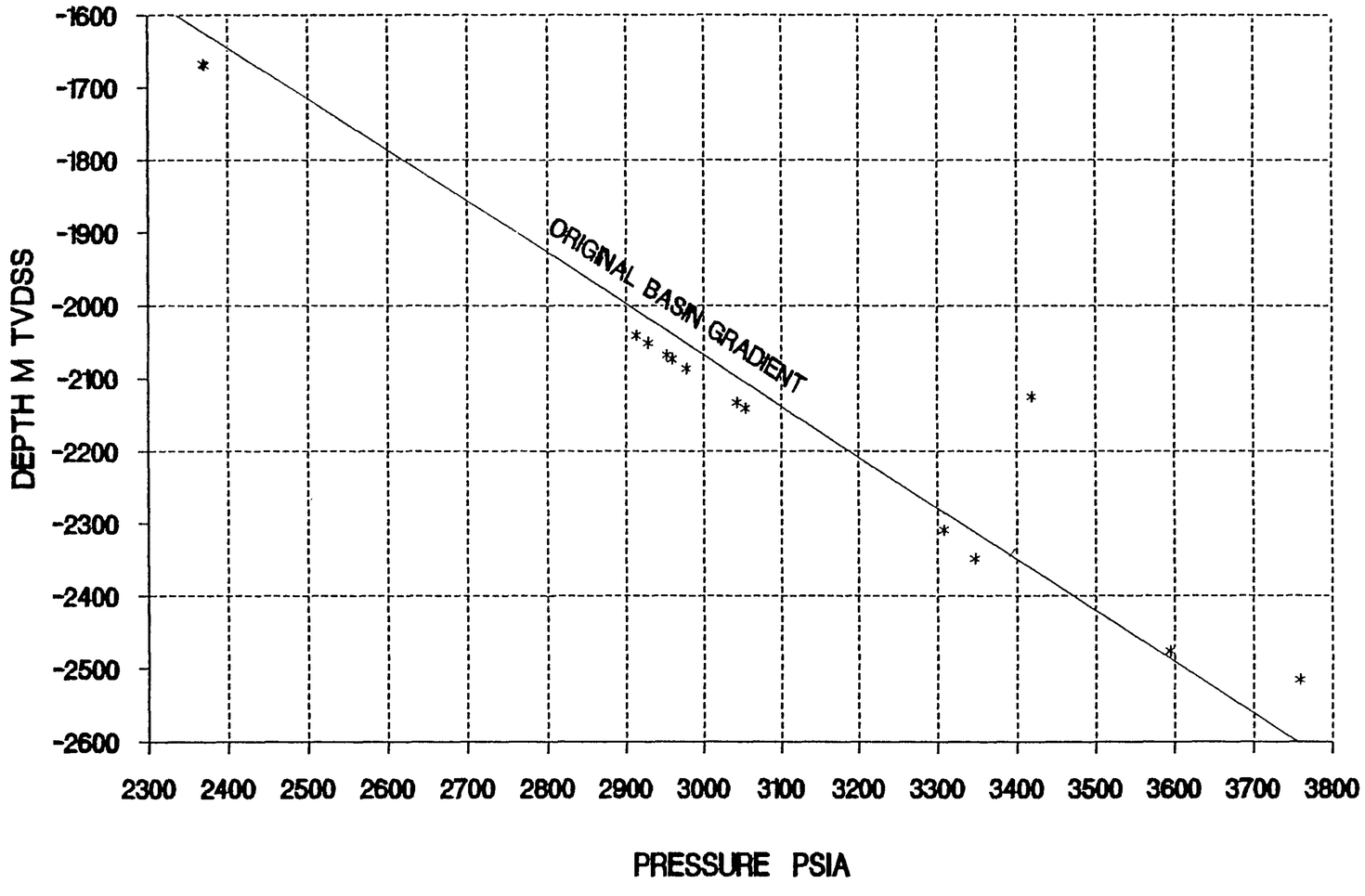
The results of the program are tabulated in Attachment 1.

The 14 successful seats all fell on a water gradient, indicating no moveable hydrocarbons were present in the well (Figure 1). Fourteen seats were attempted in the T.longus section below 2300 metres MDKB (Figure 2). Only 3 of the 14 pretests were valid and these were in water sands, the other attempts were in zones that appeared to be hydrocarbon bearing but were tight. Two cores were cut in the L.balmei section between 2060 and 2160 metres MDKB, all 7 pretests taken over this interval fall on a water line, indicating that any hydrocarbons present were residual only (Figure 3). A drawdown of 49 psi from the orginal Gippsland Basin aquifer gradient was indicated from the pretests taken in the L.balmei section.

FIGURE -1-

HARLEQUIN-1 RFT SURVEY

RUN 1 FEB 1989

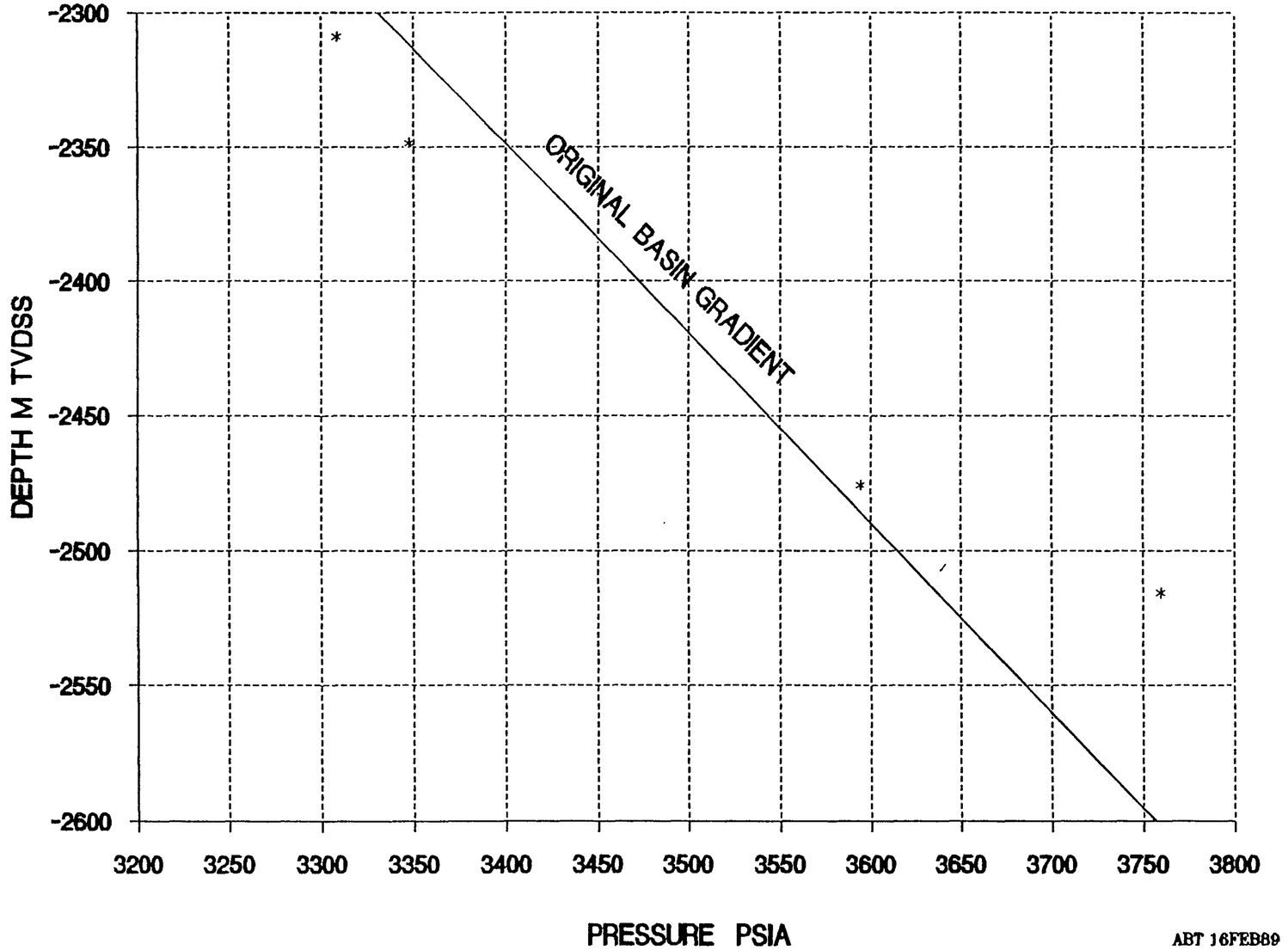


ABT 16FEB89

FIGURE -2-

HARLEQUIN-1 RFT SURVEY

RUN DATE: 1 FEB 1989

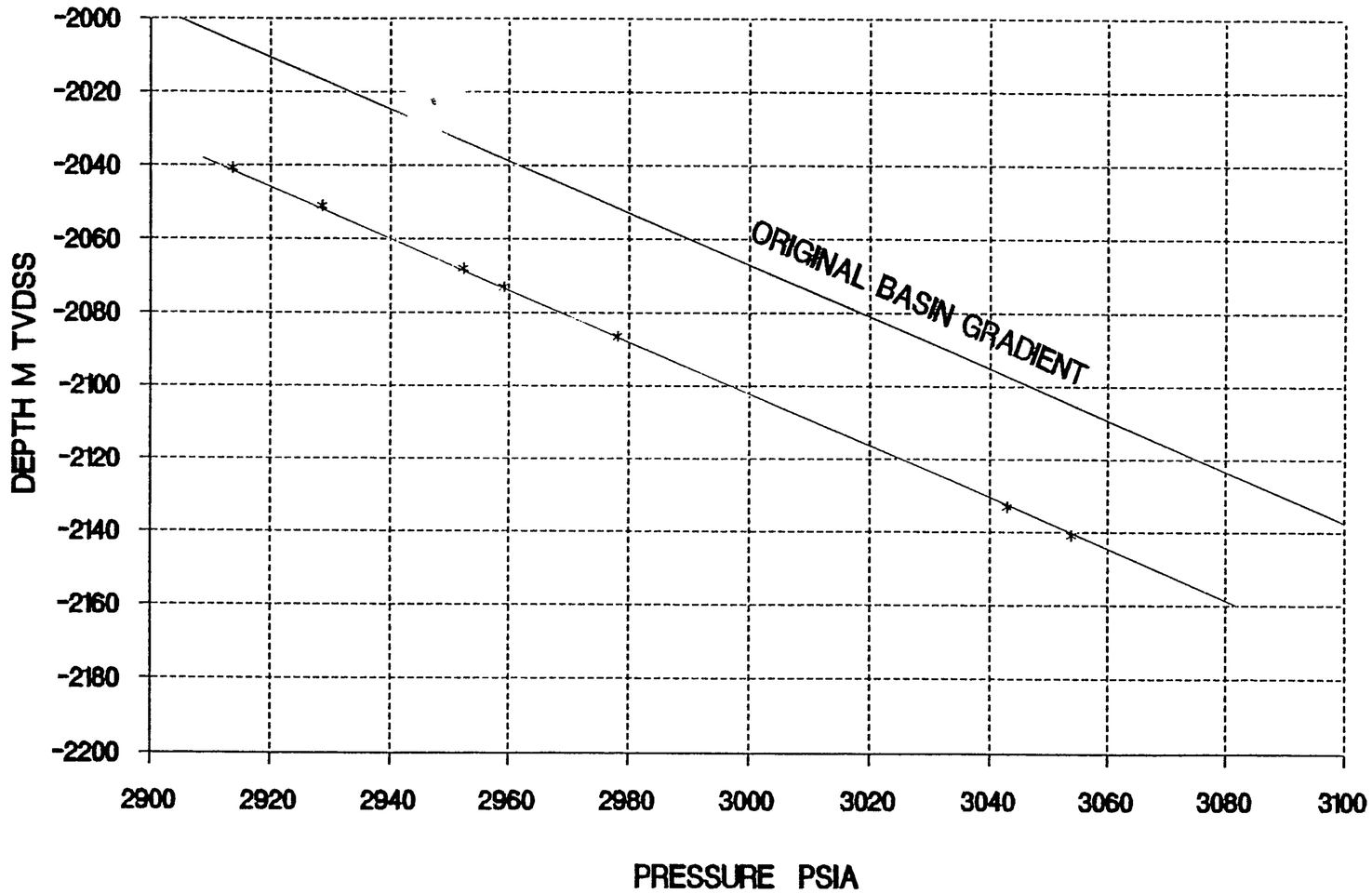


ABT 16FEB89

FIGURE -3-

HARLEQUIN-1 RFT SURVEY

RUN DATE: 1 FEB 1989



ABT 16FEB89

RFT PRESSURE DATA

WELL: HARLEQUIN -1

DATE:

~~GEOLOGIST~~-ENGINEER: A.B. THOMSON

RFT NO. RUN-SEAT / RFT TYPE	DEPTH m MDKB	DEPTH m TVD ss KB = 21m	INITIAL HYDROSTATIC HP/RFT GAUGE psia ~~psig~~ / ppg	TIME SET	MINIMUM FLOWING PRESSURE psia (PRETEST)	FORMATION PRESSURE HP/RFT GAUGE psia ~~psig~~ / ppg	TEMP ~~°C~~ °F	TIME RETRACT	FINAL HYDROSTATIC HP/RFT GAUGE psia ~~psig~~ / ppg	COMMENTS (INCLUDE PROBE TYPES)
1-1 PT	2536.5	-2515.5	4162.90	07.52	19.3	3759.80 / 8.76	199.2	08.15	4161.22 / 9.62	TIGHT SUPERCHARGED
1-2 PT	2497.0	-2476.0	4097.48	08.27	-	-	-	08.30	-	SEAL FAILURE
1-3 PT	2496.7	-2475.7	4097.77	08.35	707.6	3594.75 / 8.51	202.2	08.43	4098.52 / 9.64	VALID TEST
1-4 PT	2433.7	-2412.7	3997.64	08.55	-	-	-	08.58	-	TIGHT
1-5 PT	2433.2	-2412.2	3997.95	09.04	-	-	200.1	09.06	-	TIGHT
1-6 PT	2433.0	-2412.0	3996.02	09.16	-	-	199.4	09.18	-	TIGHT
1-7 PT	2396.5	2375.5	3936.83	09.30	-	-	198.1	09.33	-	PLUGGED
1-8 PT	2396.7	-2375.7	3939.83	09.41	-	-	196.9	09.43	-	SEAL FAILURE
1-9 PT	2395.6	-2374.6	3938.40	09.50	-	-	196.5	09.53	-	PLUGGED
1-10 PT	2383.6	-2362.6	3919.71	10.01	-	-	196.6	10.03	-	TIGHT

PT=PRETEST
SPT=SAMPLE

L=LONG NOSE PROBE
M=MARTINEAU PROBE

RFT PRESSURE DATA

WELL: HARLEQUIN -1

DATE: 1-2-89

GEOLOGIST-ENGINEER: A.B. THOMSON

RFT NO. RUN-SEAT / RFT TYPE	DEPTH m MDKB	DEPTH m TVD ss KB=	INITIAL HYDROSTATIC HP/RFT GAUGE psia psig / PPg	TIME SET	MINIMUM FLOWING PRESSURE psi__ (PRETEST)	FORMATION PRESSURE HP/RFT GAUGE psia psig / PPg	TEMP °C	TIME RETRACT	FINAL HYDROSTATIC HP/RFT GAUGE psia psig / PPg	COMMENTS (INCLUDE PROBE TYPES)
1-11 PT	2385.0	-2364.0	3922.49	10.09	-	-	196.4	10.12	-	TIGHT
1-12 PT	2359.5	-2338.5	3881.12	10.24	2572.0	3347.40 / 8.41	195.8	10.37	3882.05 / 9.66	VALID TEST
1-13 PT	2329.9	-2308.9	3834.74	10.47	1942.0	3308.32 / 8.41	194.5	10.56	3835.20 / 9.66	VALID TEST
1-14 PT	2392.0	-2371.0	3934.58	11.09	-	---	194.3	11.13	-	TIGHT
1-15 PT	2161.8	-2140.8	3560.44	11.33	1324.3	3053.96 / 8.38	189.1	11.37	3560.72 / 9.67	VALID TEST
1-16 PT	2154.0	-2133.0	3548.02	11.44	2803.0	3043.03 / 8.38	186.9	11.49	3548.38 / 9.67	VALID TEST
1-17 PT	2145.5	-2124.5	3534.39	11.56	-	3419.20 / 9.45	186.4	12.04	3534.35 / 9.67	SUPERCHARGED
1-18 PT	2107.5	-2086.5	3472.15	12.13	2705.0	2978.10 / 8.38	185.2	12.16	3472.18 / 9.67	VALID TEST
1-19 PT	2094.0	-2073.0	3450.35	12.25	2885.0	2959.18 / 8.38	184.6	12.28	3450.10 / 9.67	VALID TEST
1-20 PT	2089.0	-2068.0	3441.22	12.38	2884.0	2952.38 / 8.38	184.4	12.46	3441.60 / 9.67	VALID TEST

PT=PRETEST
SPT=SAMPLE

L=LONG NOSE PROBE
M=MARTINEAU PROBE

RFT PRESSURE DATA

WELL: HARLEQUIN-1

DATE: 1-2-89

GEOLOGIST-ENGINEER: A.B. THOMSON

RFT NO. RUN-SEAT / RFT TYPE	DEPTH m MDKB	DEPTH m TVD ss KB=	INITIAL HYDROSTATIC HP/RFT GAUGE psia psig / PPg	TIME SET	MINIMUM FLOWING PRESSURE psi__ (PRETEST)	FORMATION PRESSURE HP/RFT GAUGE psia psig / PPg	TEMP °C	TIME RETRACT	FINAL HYDROSTATIC HP/RFT GAUGE psia psig / PPg	COMMENTS (INCLUDE PROBE TYPES)
1-21 PT	2072.0	-2051.0	3413.44	12.57	28 83	2928.61 / 8.38	184.1	1.04	3420.02 / 9.69	VALID TEST
1-22 PT	2061.7	2040.7	3402.90	1.18	2858	2913.80 / 8.38	183.9	1.25	3402.62 / 9.69	VALID TEST
1-23 PT	1690.0	-1669.0	2792.98	1.48	1620	2371.63 / 8.34	177.6	1.53	2792.95 / 9.7	VALID TEST
1-24 PT	1687.7	-1666.7	2788.95	2.01	-	-	174.2	2.02	-	TIGHT
1-25 PT	1688.0	-1667.0	2789.37	2.09	-	-	173.7	2.11	--	TIGHT
1-26	1688.5	-1667.5	2789.63	2.19	2299	2369.57 / 8.34	173.4	2.24	2789.40 / 9.7	VALID TEST

PT=PRETEST

SPT=SAMPLE

RFT 2.85

1107.0P.344

L=LONG NOSE PROBE

M=MARTINEAU PROBE

APPENDIX 4

APPENDIX 4

GEOCHEMICAL REPORT

ON

HARLEQUIN 1 WELL

GIPPSLAND BASIN

BY

B.J.BURNS

JANUARY 1990

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Figure 4 "Pentane Extract" chromatogram, oil stained core 2087.9 - 2087.95m

Figure 5 "C_{12+} Saturate Fraction" chromatogram, oil stained core 2087.9 - 2087.95m

INTRODUCTION

Harlequin 1 was drilled near the basin margin and penetrated a relatively shallow section of Eocene and Paleocene Latrobe Group sediments. These were considered to be too immature to act as significant source rocks for oil in the basin and so only fifteen SWC's from the section below an arbitrary depth of 2000m were examined for routine TOC and Rockeval measurements. This part of the section consisted of lower Paleocene and Upper Cretaceous sands, shales and siltstone.

Twenty eight sidewall core samples were selected over the interval from 1413-2542.9m for palynological separation and a fraction of the organic concentrate was then examined for Carbon-Hydrogen-Nitrogen elemental analysis.

Ten samples were sent to Keiraville Konsultants for vitrinite reflectance determination.

No free oil was recovered from the well but a piece of core from 2087.9-2087.95m, with reported cut and fluorescence, was extracted with pentane and analysed using liquid and gas chromatography in order to learn something about the nature of the oil-stain.

RESULTS

The Total Organic Carbon (TOC) values for the Cretaceous Upper and Lower T.longus shales and siltstones average 1.4% and 2.38% respectively (Table 1) and would be rated as good source rocks with individual samples containing 2 - 3% TOC. Similarily, the basal part of the L.balmei section (below2141m) has very good TOC values from 2.33 - 4.76%. The Rockeval data (Table 2) show four of these samples with S2 yields greater than 6 mg/g and Hydrogen Indices from 230 - 435 indicating rich potential source rocks for liquid generation.

The H/C atomic ratios of the kerogens, as shown in the Van Krevelen Plot (Fig. 3, Table 3), indicate a predominance of Type III terrestrial organic matter over most of the Latrobe Group interval although all nine of the N.asperus and Lower M.diversus samples show enriched hydrogen compositions

with H/C ratios greater than 0.9. This is equivalent to intermediate Type II-III kerogen, and hence greater oil source potential, but it is clear from Figure 2 that these samples are still very immature. Four of the Cretaceous samples also have Type II-III kerogens but, again, the immaturity of all samples is confirmed by both the low Tmax values (< 435 Table 2) and the Vitrinite reflectance results (Rv 0.36 - 0.55% , Table 4). However, in a more mature part of the basin, these source rocks would be capable of generating significant quantities of oil and gas.

OIL-STAINED EXTRACT

The sample of "stained" sandstone from 2087.9 - 2087.95m was taken from an interval which exhibited some cut and fluorescence. After extraction with pentane solvent the "Total Extract" chromatogram (Fig 4) shows a predominance of n-alkanes from C14 - C25 with a maximum at C22. The absence of light components below C12 is a result of evaporation prior to solvent extraction and while it is not possible to accurately estimate how much of the light ends have been removed our experience would suggest that the "stain" was due to the presence of oil rather than condensate.

SUMMARY

1. The Harlequin 1 well contains good oil-prone source rocks scattered over the whole Latrobe Group section from the Eocene N.asperus to the Upper Cretaceous T.longus. However the whole section penetrated in the well down to 2542.9m is too immature to have generated significant volumes of hydrocarbons.

2. The "stained" sandstone sample at 2087.9 - 2087.95m indicates the presence of oil rather than condensate.

TABLE 1 TOTAL ORGANIC CARBON

WELL: HARLEQUIN 1

SAMPLE ID	DEPTH (m)	TYPE	AGE/ZONE	TOC %	CO3 %	DESCRIPTION
78210 Y	2001.5	SWC	L.balmei	0.55	1.7	GY SLYST,TR CARB
78210 W	2056.0	SWC	L.balmei	0.25	5.5	LT GY SLYST,TR CARB
78210 V	2112.0	SWC	L.balmei	0.11	1.0	LT GY CLYST,TR CARB
78210 U	2141.1	SWC	L.balmei	2.78	1.0	M-DK BRN CLYST,TR CARB
78210 T	2189.6	SWC	L.balmei	2.33	2.0	LT GY-LT BRN CLYST
78210 S	2197.8	SWC	L.balmei	4.76	1.6	M-DK BRN SLYST,TR CARB
78210 P	2247.5	SWC	Upper T.longus	3.47	7.4	M BRN CLYST
78210 O	2256.0	SWC	Upper T.longus	1.15	2.8	LT-M BRN SLYST,TR CARB
78210 N	2281.5	SWC	Upper T.longus	1.35	1.7	M BRN-GY SLYST,TR CARB
78210 M	2293.0	SWC	Upper T.longus	0.59	1.4	M BRN-GY SLYST,TR CARB
78210 K	2368.5	SWC	Upper T.longus	0.43	2.1	LT GY CLYST,TR CARB
78210 F	2484.5	SWC	Lower T.longus	1.82	1.5	M BRN CLYST,TR CARB
78210 D	2514.5	SWC	Lower T.longus	2.88	3.3	M BRN SLTST,TR CARB
78210 C	2540.0	SWC	Lower T.longus	2.93	1.9	M GY-BRN SLTST,TR CARB
78210 B	2542.9	SWC	Lower T.longus	0.85	2.0	M GY SLTST,TR CARB

TABLE 2

ROCKEVAL PYROLYSIS DATA

WELL: HARLEQUIN 1

SAMPL ID	DEPTH (m)	TYPE	TOC %	Tmax	S1	S2	S3	HI	OI	HI/OI
78210 Y	2001.5	SWC	0.55	416	0.09	1.47	0.19	266	34	8
78210 W	2056.0	SWC	0.25	398	0.05	0.08	0.13	30	53	1
78210 V	2112.0	SWC	0.11	299	0.02	0.02	0.03	18	27	1
78210 U	2141.1	SWC	2.78	419	0.48	7.89	0.52	284	19	15
78210 T	2189.6	SWC	2.33	419	0.14	2.37	0.28	102	12	8
78210 S	2197.8	SWC	4.76	419	1.41	20.7	0.09	435	2	234
78210 P	2247.5	SWC	3.47	422	0.05	0.32	0.04	9	1	9
78210 O	2256.0	SWC	1.15	424	0.24	1.56	0.06	135	5	27
78210 N	2281.5	SWC	1.35	425	0.17	1.22	0.03	90	2	41
78210 M	2293.0	SWC	0.59	427	0.04	0.11	0.01	18	2	11
78210 K	2368.5	SWC	0.43	421	0.03	0.2	0.01	46	2	20
78210 F	2484.5	SWC	1.82	432	0.35	2.83	0.16	155	9	18
78210 D	2514.5	SWC	2.88	427	0.81	6.63	0.27	230	9	24
78210 C	2540.0	SWC	2.93	425	1.28	11.41	0.29	389	10	39
78210 B	2542.9	SWC	0.85	427	0.18	1.22	0.03	143	3	41

TABLE 3

KEROGEN ELEMENTAL ANALYSIS

WELL: HARLEQUIN 1

SAMPLE ID	DEPTH (m)	TYPE	AGE	ZONE	ATOMIC RATIOS			COMMENTS
					H/C	O/C	N/C	
78211 Y	1413.0	SWC	Late Eocene	Upp N.asperus	0.96	0.28	0.02	
78211 W	1422.0	SWC	Late Eocene	Mid N.asperus	0.95	0.37	0.01	
78211 V	1434.0	SWC	Late Eocene	Mid N.asperus	0.99	0.32	0	
78211 U	1458.5	SWC	Mid Eocene	Low N.asperus	0.96	0.31	0.01	
78211 T	1493.0	SWC	Mid Eocene	Low N.asperus	0.97	0.37	0.01	
78211 S	1505.0	SWC	Mid Eocene	Low N.asperus	0.90	0.33	0.01	
78211 P	1594.1	SWC	Early Eoc	P.asperopolus	0.98	0.29	0.01	HIGH ASH
78211 J	1762.5	SWC	Early Eoc	Low M.diversus	0.93	0.21	0.01	
78211 I	1780.0	SWC	Early Eoc	Low M.diversus	1.01	0.22	0.01	HIGH ASH
78211 D	1895.9	SWC	Paleocene	L.balmei	1.38	1.30	0	
78211 C	1921.1	SWC	Paleocene	L.balmei	0.83	0.25	0.01	
78211 B	1930.0	SWC	Paleocene	L.balmei	0.85	0.22	0.01	
78210 Y	2001.5	SWC	Paleocene	L.balmei	1.11	0.18	0	HIGH ASH
78210 U	2141.1	SWC	Paleocene	L.balmei	0.91	0.22	0.01	
78210 T	2189.6	SWC	Paleocene	L.balmei	0.86	0.18	0.01	
78210 R	2228.5	SWC	Upper Cret	Upper T.longus	0.57	0.14	0.01	
78210 Q	2232.3	SWC	Upper Cret	Upper T.longus	0.68	0.08	0.01	
78210 P	2247.5	SWC	Upper Cret	Upper T.longus	0.77	0.18	0.01	
78209 B	2255.0	SWC	Upper Cret	Upper T.longus	0.91	0.18	0.01	HIGH ASH
78210 N	2281.5	SWC	Upper Cret	Upper T.longus	0.65	0.13	0.01	
78209 C	2300.0	SWC	Upper Cret	Upper T.longus	0.84	0.20	0.01	
78210 L	2347.0	SWC	Upper Cret	Upper T.longus	0.55	0.14	0.01	
78210 K	2368.5	SWC	Upper Cret	Upper T.longus	0.64	0.16	0.01	
78210 J	2381.0	SWC	Upper Cret	Upper T.longus	1.09	0.21	0.01	
78209 E	2390.0	SWC	Upper Cret	Upper T.longus	0.96	0.33	0.01	
78210 G	2457.5	SWC	Upper Cret	Lower T.longus	0.63	0.14	0.01	
78210 E	2498.0	SWC	Upper Cret	Lower T.longus	0.85	0.14	0.02	
78210 B	2542.9	SWC	Upper Cret	T.lilliei	0.96	0.15	0.02	

TABLE 4

VITRINITE REFLECTANCE

WELL: HARLEQUIN 1

SAMPLE ID	DEPTH (m)	TYPE	Rv (max) Avg %	COUNTS	FLUORESCENCE COLOUR	MACERALS
78211 W	1422.0	CRSW	0.36	8	GREENISH YEL	DOM SPARSE,V>E>I
78211 R	1525.5	CRSG	0.41	26	GRN YEL-OR	DOM ABUNDANT,V>E>I
78211 J	1762.5	CRSW	0.43	27	GRN YEL-OR	DOM ABUNDANT,V>E>I
78211 B	1930.0	CRSW	0.5	27	YEL-OR	DOM MAJOR,V>I>E
78210 Y	2001.5	CRSW	0.4	18	YEL-OR	DOM ABUNDANT,E>V>I
78210 U	2141.1	CRSW	0.49	26	OR-DUL OR	DOM ABUNDANT,I>V>E
78210 O	2256.0	CRSW	0.53	24	OR-DUL OR	DOM ABUNDANT,I>E>V
78210 F	2484.5	CRSW	0.55	26	OR-DUL OR	DOM ABUNDANT,I>V>E
78210 C	2540.0	CRSW	0.42	26	YEL-OR	DOM ABUNDANT,E>V>I
78210 B	2542.9	CRSW	0.54	26	OR-DUL OR	DOM ABUNDANT,I>V>E

TABLE 5

C12+ LIQUID CHROMATOGRAPHY

WELL: HARLEQUIN 1

SAMPLE ID	DEPTH (m)	TYPE	Tot. Ext. ppm	C12+ Hydrocarbons ppm			C12+ Non-Hydrocarbons			Ratios	
					Sats %	Arom %	Tot Ext %	Asph %	Total %	Sat Arom	HC Non-HC
78247 G	2087.95	Stained core	25043	13970	50.4	5.4	55.8	40.5	3.7	9.4	1.3

Figure 1

Harlequin 1

Total Organic Carbon & Rockeval

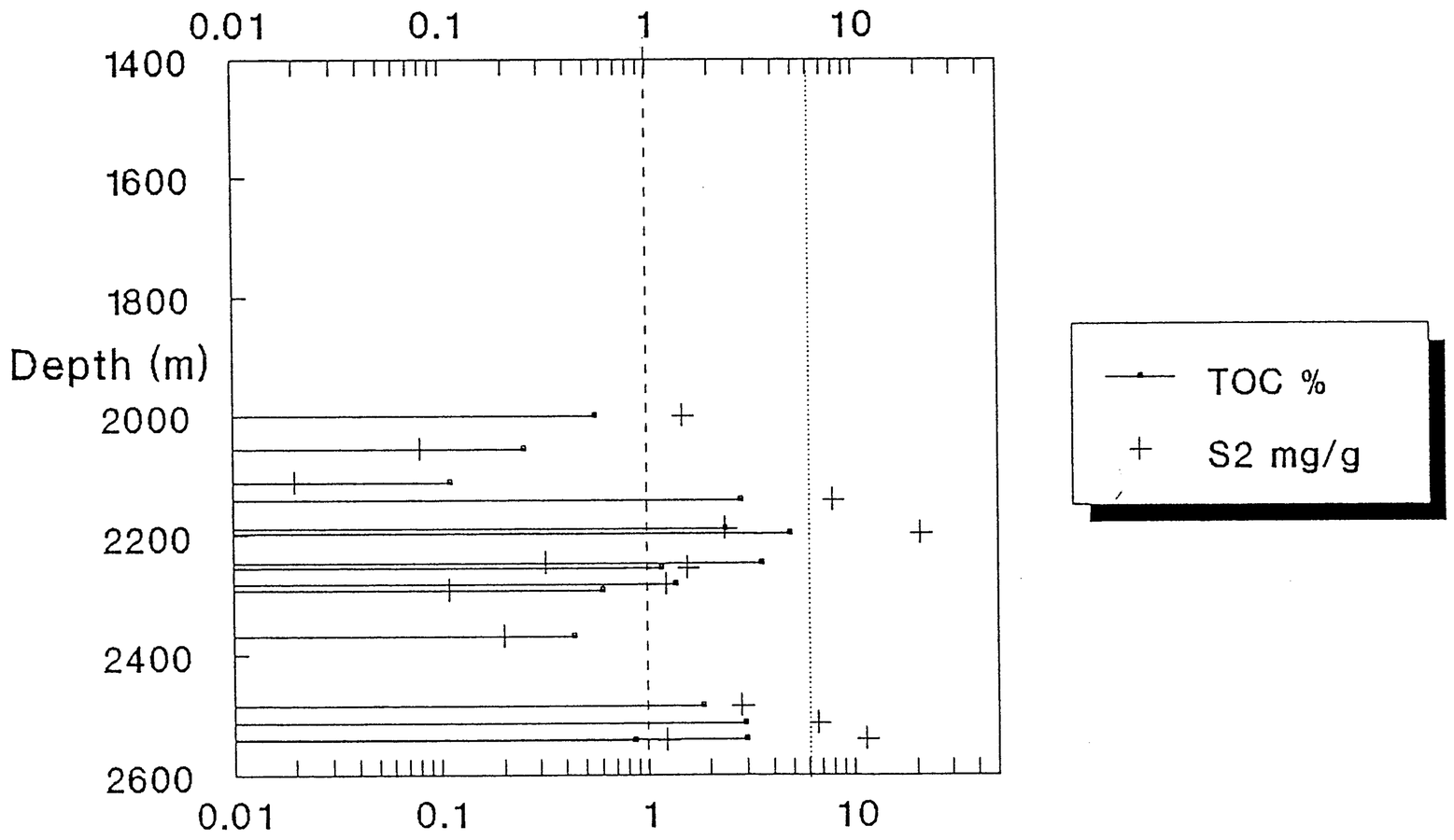


Figure 2

Harlequin 1

Hydrogen Index, Tmax & Vit. Reflectance

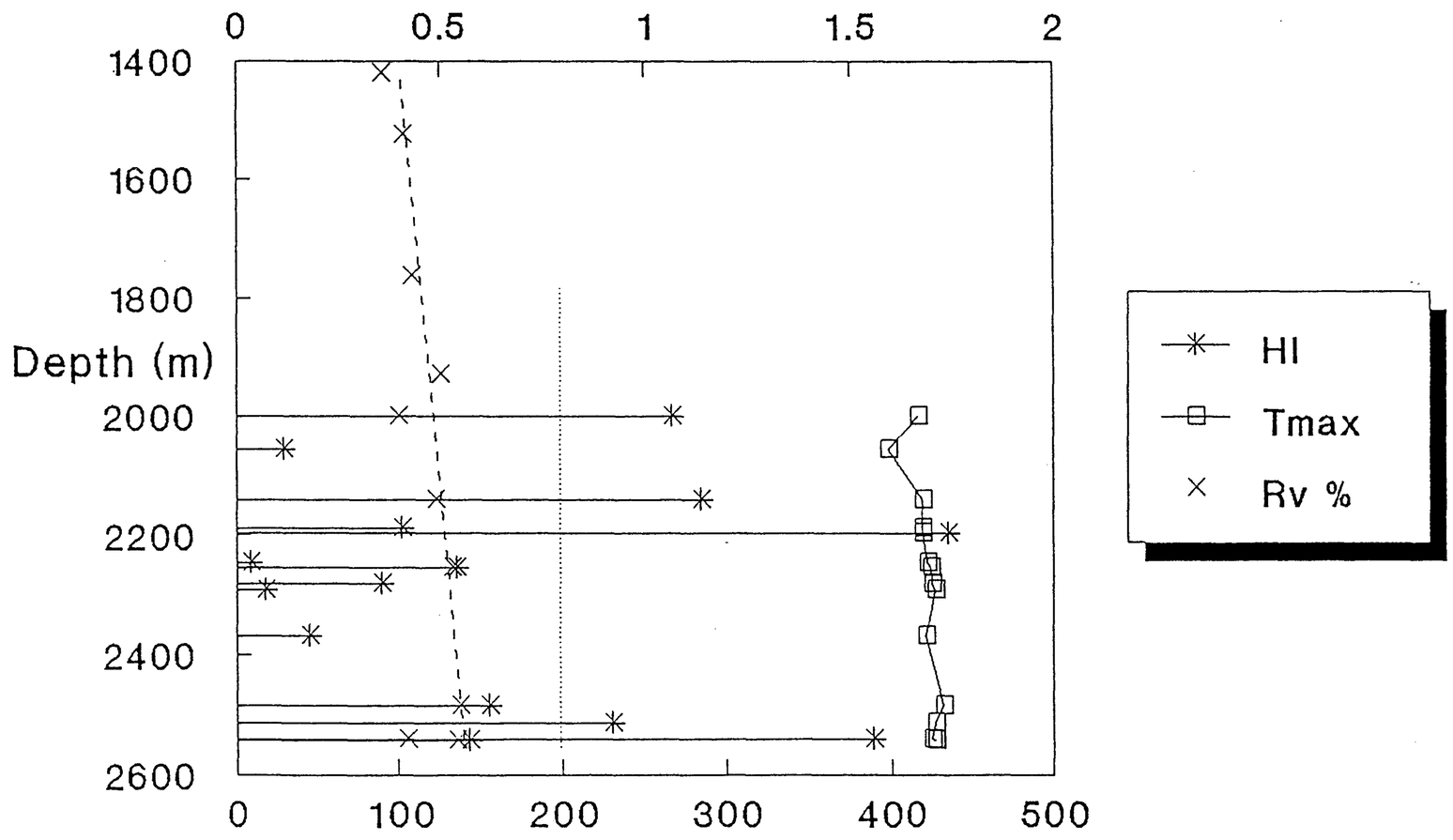
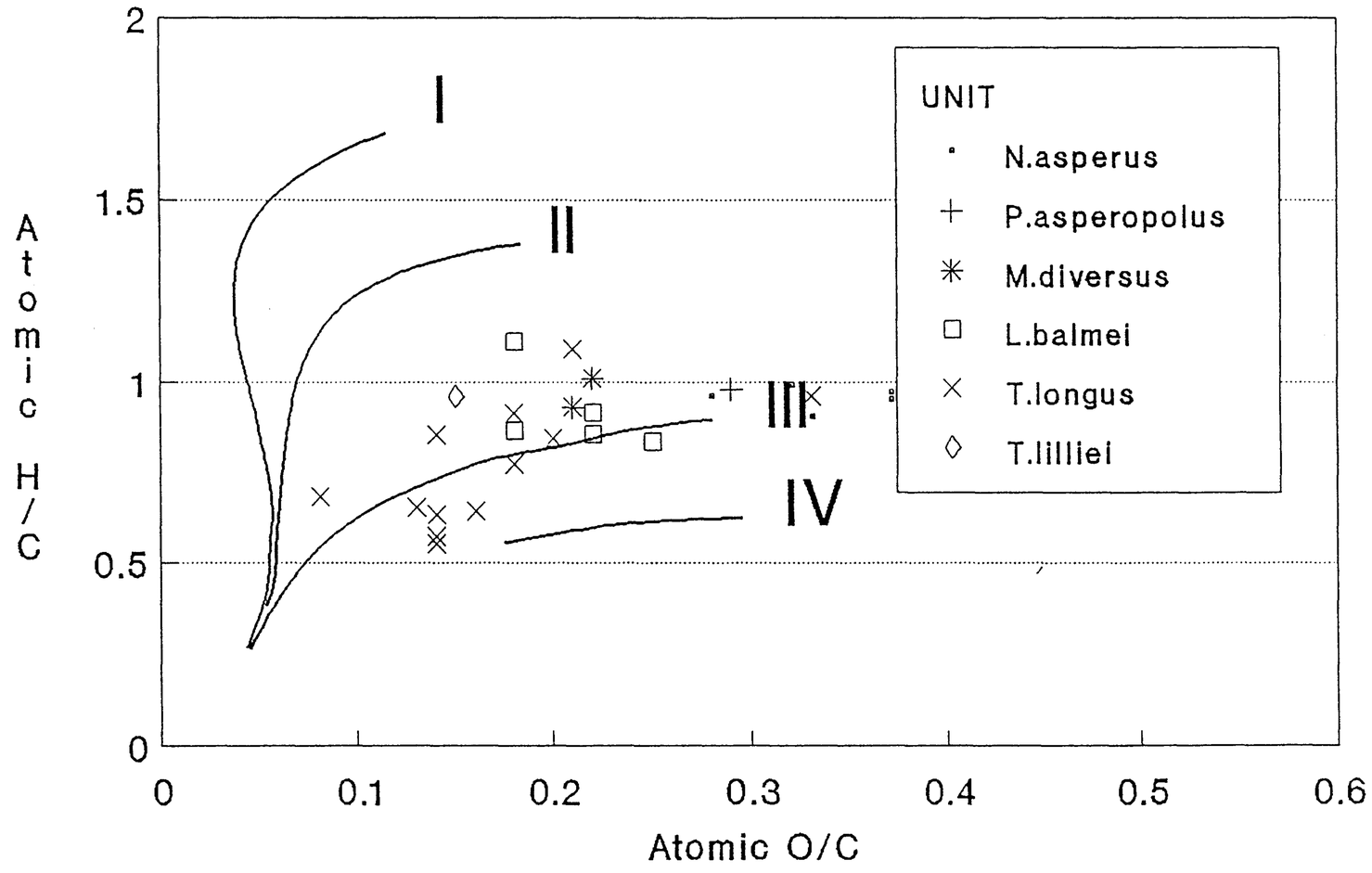


Figure 3

Harlequin 1

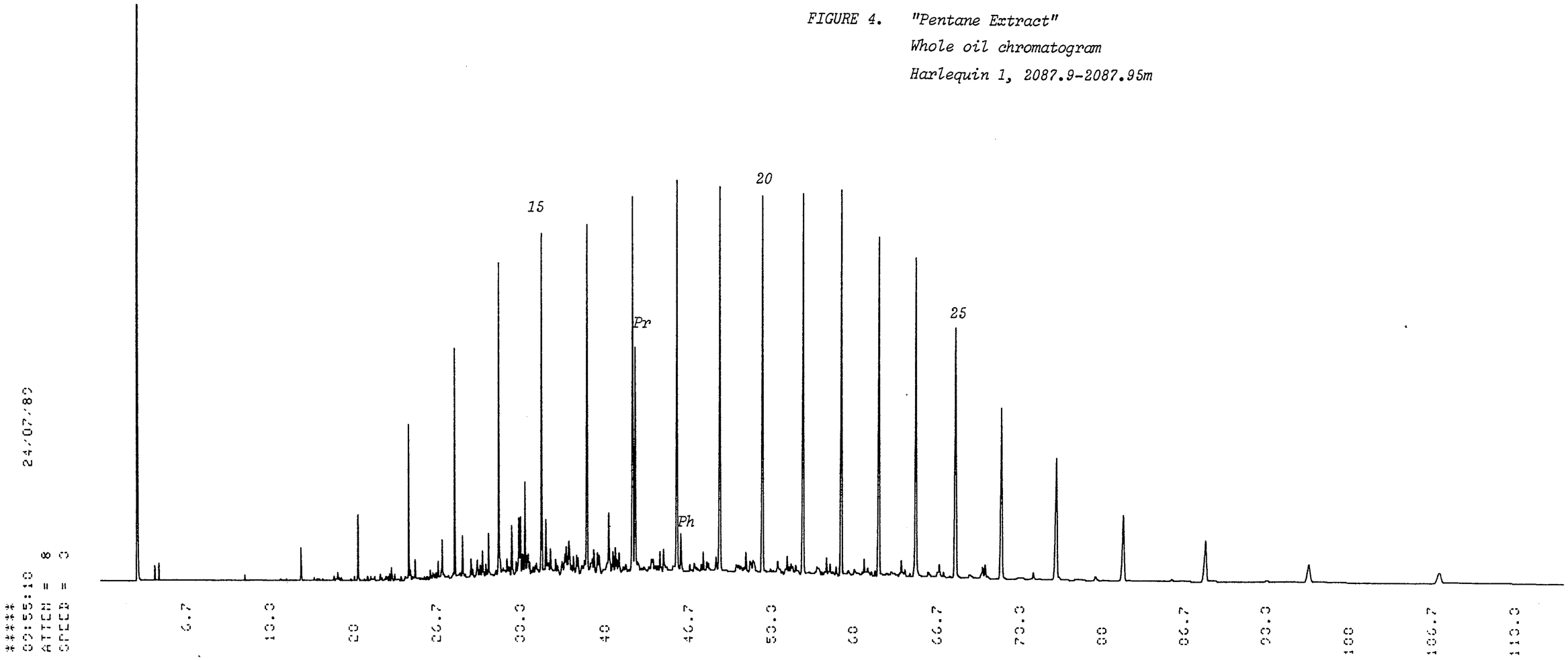


Van Krevelen Plot

EEEE

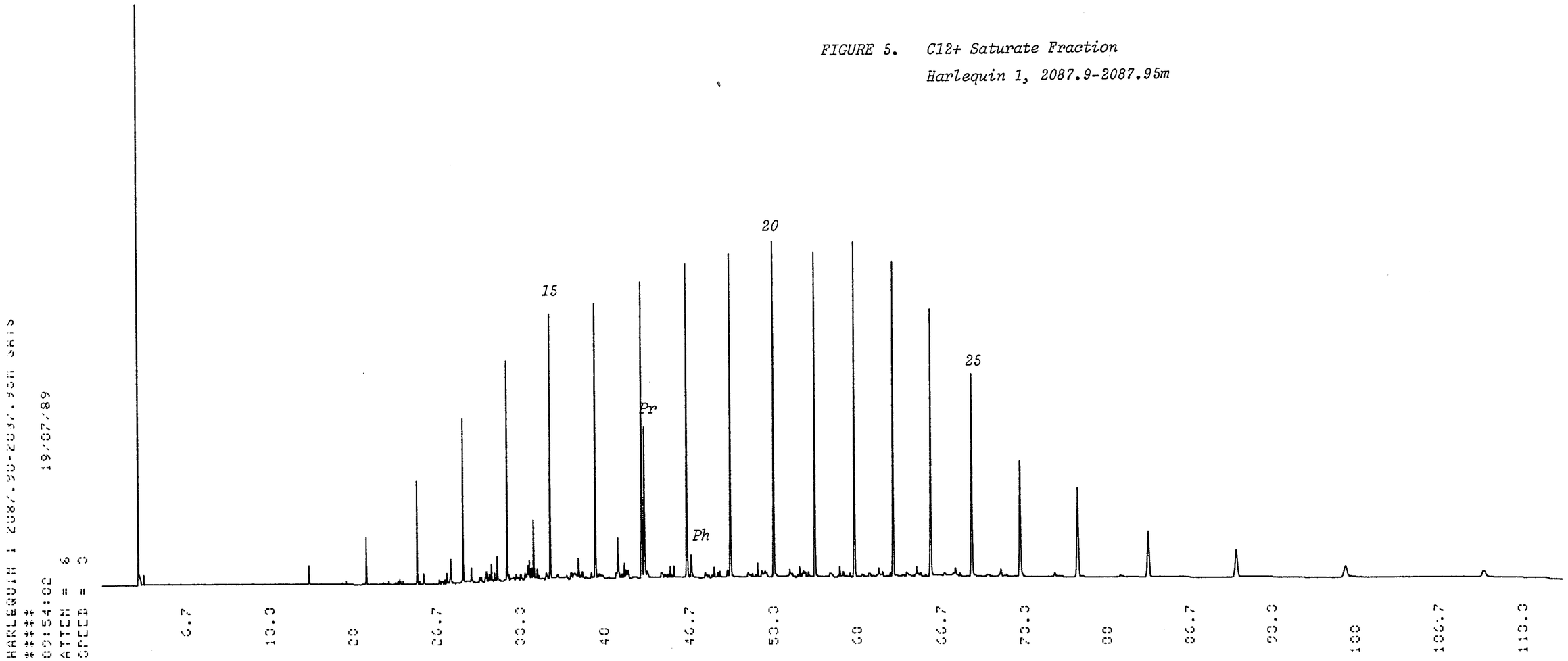
Shimadzu 221-25412 706007A 032

FIGURE 4. *"Pentane Extract"*
Whole oil chromatogram
Harlequin 1, 2087.9-2087.95m



Shimadzu 221-25412

FIGURE 5. C12+ Saturate Fraction
Harlequin 1, 2087.9-2087.95m



APPENDIX 5

technology and enterprise

Amdel
31 Flemington Street,
Frewville, S.A. 5063

Telephone: (08) 372 2700

Address all correspondence to:
P.O. Box 114,
Eastwood, S.A. 5063

Telex: AA82520
Facsimile: (08) 79 6623

21st February 1989

Esso Australia Ltd
GPO Box 4047
SYDNEY NSW 2001

Attention: Mr A P Whittle

REPORT F 5125/89

CLIENT REF:	Letter 25/1/89 61:RGN/Kex/MGT
TITLE:	Core Analysis
IDENTIFICATION:	Harlequin #1
MATERIAL:	Core Plugs
WORK REQUIRED:	Porosity and Permeability to Air (Ambient and Overburden), Residual Fluids Saturations, Calculated and Absolute Grain Density, Lithological Description

Investigation and Report by: Russell R Martin

Manager, Petroleum Services Section: Dr Brian G. Steveson

for Dr William G. Spencer
General Manager
Applied Sciences Group

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1. INTRODUCTION

On the 6th February 1989 correspondence was received from Mr A P Whittle of Esso Australia confirming the analysis required on plugs from Harlequin #1.

The following analysis were requested:

- Porosity at ambient and overburden conditions
- Permeability to air at ambient and overburden conditions
- Residual fluid saturations
- Calculated grain density
- Absolute grain density

2. RESIDUAL FLUIDS SATURATIONS

One inch diameter samples had been prepared by Esso Australia and samples plus offcuts sent to Amdel Limited, Adelaide.

Samples were first placed in a Dean and Stark apparatus in which toluene, (boiling point 110 °C), vapour is condensed and collects in a calibrated side arm where it overflows and passes down onto the sample leaching the residual hydrocarbons and water. The toluene and water are continually refluxed and water collects in the side arm. After drying the extracted core plug the oil volume present is determined as the difference between the core plug weight loss and the weight of accumulated water. Oil volume present is corrected by assuming an oil specific gravity of 0.85.

After drying the plugs at 100 °C to complete Dean and Stark results all plugs were dried at 50 °C and 50% relative humidity prior to porosity and permeability to air determinations.

3. HELIUM INJECTION POROSITY (Ambient and Overburden)

To determine ambient porosity the clean dry core plug is first placed in a matrix cup and grain volume determined by helium injection. Using this method a known volume of helium at a known pressure is expanded into an unknown volume and the resultant pressure is read and the unknown volume determined using Boyles law. Bulk volume is determined using mercury immersion. The difference between the two values is the pore volume from which porosity is calculated and expressed as a percentage.

To determine porosity reduction at overburden pressure the samples were placed in a hydrostatic cell and pore volume determined at both ambient and the required reservoir overburden pressure by the helium injection technique. The pore volume reduction measured using this technique was then used to calculate the actual overburden pore volume and bulk volume and hence porosity.

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4. PERMEABILITY TO AIR (Ambient and Overburden)

Permeability is determined on the plug sample by placing the sample into a hydrostatic cell and a confining pressure of 150 psig (1035 kPa) applied. The confining pressure is applied to prevent any air bypassing around the sides of the sample. The differential pressure is then monitored at the downstream face of the sample using a calibrated orifice and graduated straight tube manometer.

After measurements of "ambient" permeability are completed, ambient pore volume is determined and the hydrostatic cell is then pressured to obtain the desired overburden pressure, 6567 psi (45,312 kPa) for Core 1 and 6813 psi (47,000 kPa) for Core 2. Air permeability is again measured in the same manner under applied overburden conditions.

5. ABSOLUTE GRAIN DENSITY

The sample offcuts were first extracted in a 3:1 chloroform/methanol mix to leach residual hydrocarbons and salts then placed in a humidity oven at 50 °C and 50% relative humidity to dry. The offcuts were then crushed to grain size using a mortar and pestle.

Approximately 15 grams of crushed sample is placed into an accurately calibrated pycnometer and weights recorded. Industrial grade metholated spirits of known specific gravity is then used to fill the pycnometer. A short vacuum is applied to expell all air and the pycnometer is filled to the top. Weight of the full pycnometer and temperature are recorded. Absolute grain density is then calculated at a standard temperature of 20 °C.

6. DISCUSSION OF RESULTS

Results are tabulated on pages one through six of this report and a brief lithological description concludes the analysis required. Most samples contain trace amounts of disseminated pyrite throughout the sample matrix. Those samples exhibiting high values of grain density have abundant pyrite inclusions.

Sample Number 94 has a fracture running the length of the plug which has closed under applied overburden, therefore the higher ambient permeability value.

Many of the samples have abundant rock flour coating the outside of the samples, particularly on the plug endfaces. The accumulation of rock flour on the plug endfaces will reduce permeability to some extent. This problem is unavoidable if plugs are taken using liquid nitrogen or air as the bit lubricant, and fluids are to be preserved for residual fluids determinations.

If Esso are agreeable in the future I propose to scrub the plugs with either kerosene or water to remove the rock flour after residual fluids determinations have been completed. If kerosene is used to scrub the plugs this will necessitate a further cleaning cycle in chloroform/methanol which will slow turnaround of data, however, if this practice of scrubbing plugs free from rock flour is adopted I feel results of air permeability will be enhanced.

Should you have any questions concerning the data or comments in this report, please do not hesitate to contact me.

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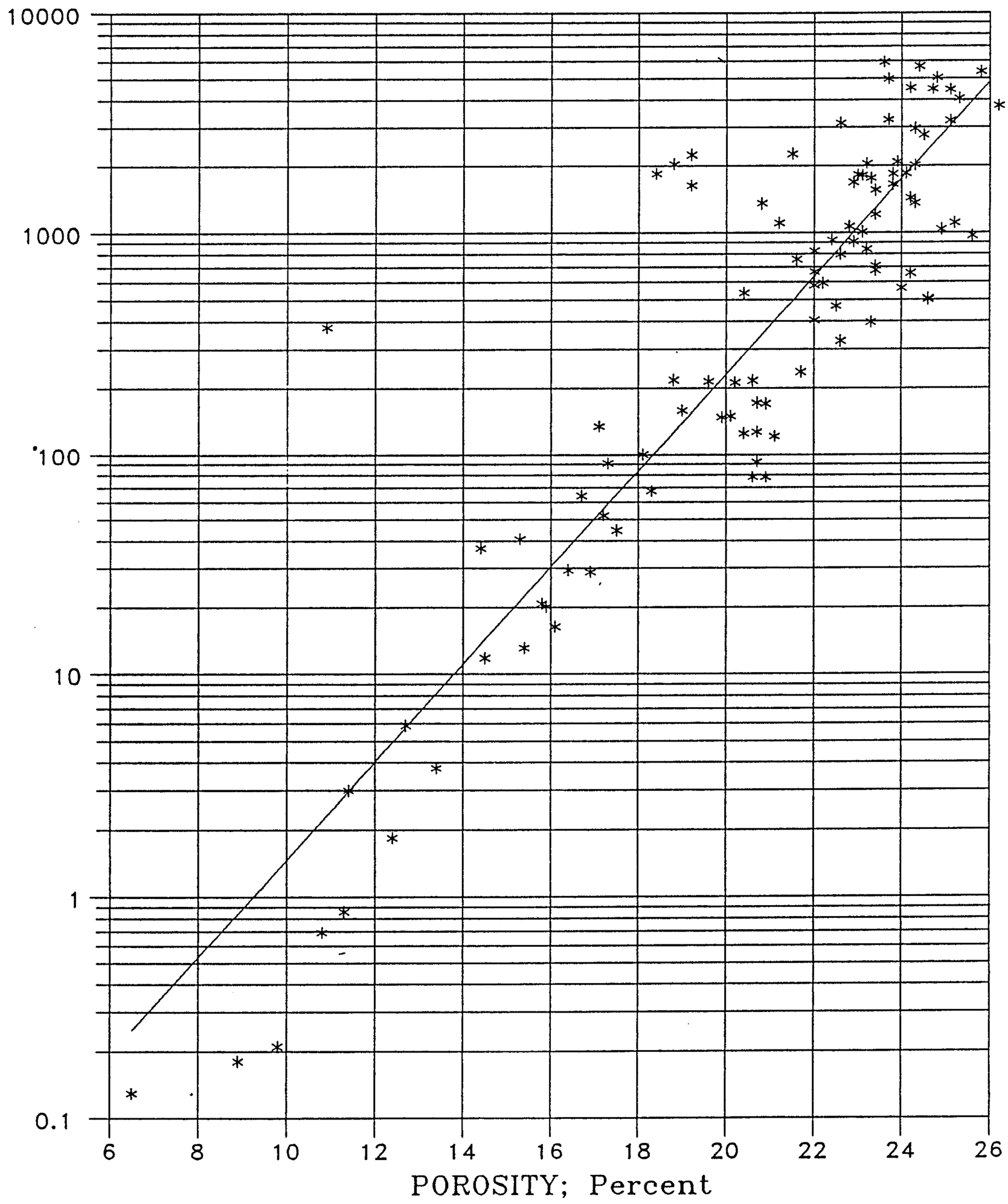
POROSITY vs PERMEABILITY

Company: Esso Australia Limited
Well : Harlequin No. 1

Y= EXP(0.506294X) x 0.00925542



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ROUTINE CORE ANALYSIS RESULTS

Company: Esso Australia Ltd.
Well : Harlequin # 1

Sample Number	Depth, Metres	Permeability to air, md		Porosity percent		Residual Fluids Water	Oil
		Ambient	NOBP	Ambient	NOBP	Sw%	So%
1	2079.22	217	175	20.6	18.6	47.3	9.4
3	2079.38	403	336	22.0	20.5	39.1	5.3
5	2079.54	92.3	65.1	20.7	18.7	44.1	8.2
8	2079.70	125	84.6	20.4	18.4	47.6	8.0
12	2079.91	507	365	24.6	22.7	29.9	6.4
14	2080.07	78.2	51.7	20.9	19.2	46.0	9.4
16	2080.19	148	118	19.9	18.3	47.8	13.3
19	2080.38	326	219	22.6	20.8	41.5	5.7
20	2080.50	237	166	21.7	20.4	40.4	6.7
24	2080.70	67.6	42.0	18.3	16.7	43.9	7.5
26	2080.84	20.8	12.4	15.8	13.9	47.8	6.7
32	2081.23	13.1	7.5	15.4	13.5	57.4	7.2
36	2081.40	44.5	33.2	17.5	14.6	54.8	2.8
38	2081.59	150	112	20.1	18.4	40.6	7.8
40	2081.70	212	156	20.2	18.5	36.7	14.1
42	2081.86	159	131	19.0	17.8	42.1	5.0
46	2082.06	64.2	50.8	16.7	15.4	54.9	2.5
48	2082.21	3.00	1.34	11.4	9.5	62.3	2.1
51	2082.37	5.88	2.58	12.7	10.9	59.2	3.1
52	2082.49	3.78	1.69	13.4	11.9	55.8	3.6
55	2082.66	218	168	18.8	17.4	23.8	19.0
58	2082.80	135	104	17.1	15.9	30.9	15.1
60	2082.93	100	62.9	18.1	16.7	38.2	11.5
63	2083.12	40.6	23.8	15.3	12.6	43.3	11.2
66	2083.29	758	588	21.6	19.8	36.5	17.4
67	2083.41	594	464	22.2	20.6	42.9	11.0
69	2083.56	1846	1406	18.4	16.6	40.5	10.0
73	2083.77	2245	1195	19.2	16.6	39.4	14.7
78	2084.12	0.13	<0.01	6.5	6.3	66.4	4.6
80	2084.27	0.21	0.06	9.8	8.5	76.5	1.1
83	2084.44	0.86	0.24	11.3	9.4	58.2	2.6
84	2084.52	0.18	0.03	8.9	8.3	54.4	4.3
93	2085.07	28.9	17.2	16.9	15.2	47.6	8.5
94	2085.19	376	1.27	10.9	8.7	74.9	4.5
99	2085.50	16.3	9.15	16.1	14.3	37.7	13.6
102	2085.66	1.84	0.57	12.4	10.4	52.3	4.7
104	2085.82	91.0	59.5	17.3	15.7	39.7	8.9
108	2086.01	11.8	6.12	14.5	12.8	45.6	15.6
110	2086.18	0.69	0.13	10.8	9.3	67.3	0.9
112	2086.30	20.1	13.9	15.9	14.4	45.0	3.5
118	2086.69	52.0	38.9	17.2	15.9	36.0	9.5
119	2086.79	29.4	19.4	16.4	15.0	47.5	10.3
123	2087.01	1551	1241	23.4	21.8	30.5	13.8
125	2087.15	827	608	22.0	20.1	51.8	8.8
128	2087.30	910	708	22.9	21.2	41.5	16.7

ROUTINE CORE ANALYSIS RESULTS

Company: Esso Australia Ltd.
Well : Harlequin # 1

Sample Number	Depth, Metres	Permeability to air, md		Porosity percent		Residual Fluids	
		Ambient	NOBP	Ambient	NOBP	Water Sw%	Oil So%
130	2087.45	1064	813	22.8	20.9	31.8	11.7
134	2087.65	924	578	22.4	20.7	39.1	11.0
136	2087.82	1810	1446	23.1	21.7	36.2	15.4
137	2087.97	2949	1684	24.3	22.6	48.0	9.6
141	2088.17	1759	1166	23.3	21.3	43.5	17.0
143	2088.35	1839	1534	23.8	22.1	41.9	10.8
146	2088.52	1005	743	23.1	21.4	39.4	15.0
148	2088.68	537	420	20.4	18.6	39.3	14.2
151	2088.84	3237	2459	23.7	21.8	41.6	15.0
152	2088.96	5685	4532	24.4	22.3	33.5	17.9
156	2089.16	3125	2294	22.6	20.4	36.8	19.8
157	2089.25	5945	4669	23.6	21.3	35.2	11.1
159	2089.36	4964	3985	23.7	21.3	39.9	13.4
163	2089.55	2763	1748	24.5	22.6	41.1	11.3
165	2089.71	1631	936	19.2	17.1	48.3	9.5
167	2089.79	2269	1622	21.5	19.3	40.3	11.4
169	2089.99	4471	2930	24.7	21.6	47.8	8.1
172	2090.12	2049	1390	23.2	20.9	46.9	12.2
173	2090.20	677	509	23.4	21.1	47.3	13.8
176	2090.35	1820	1186	23.0	20.8	48.7	10.8
178	2090.57	37.0	24.0	14.4	12.7	34.2	8.4
180	2090.72	1356	1016	24.3	22.7	32.7	13.9
182	2090.87	3740	2253	26.2	23.7	36.8	19.3
186	2091.08	1650	819	23.8	21.8	52.0	12.5
188	2091.22	1850	1308	24.1	22.2	49.4	11.4
190	2091.37	1207	845	23.4	21.5	54.8	8.4
193	2091.53	1429	1153	25.2	23.6	48.6	13.8
197	2091.72	1031	834	24.9	23.1	53.6	7.8
200	2091.89	578	371	22.0	20.2	58.8	1.5
202	2092.05	797	656	22.6	20.6	63.9	0.4
205	2092.20	469	356	22.5	20.3	59.3	2.3
207	2092.36	966	805	25.6	23.9	55.9	1.2
210	2092.53	501	334	24.6	22.4	52.0	0.9
211	2092.65	1104	599	25.2	22.5	62.2	0.4
215	2092.84	3201	2509	25.1	23.4	60.6	0.5
217	2093.00	5036	4026	24.8	23.0	49.9	2.4
219	2080.34	564	393	24.0	21.9	62.0	1.4
222	2093.63	4042	3050	25.3	23.2	62.8	1.9
225	2093.79	2015	1415	24.3	22.1	53.6	1.2
227	2093.91	5373	3932	25.8	24.3	49.5	0.6
230	2094.10	4443	3532	25.1	23.2	56.8	1.6
234	2094.35	4533	3547	24.2	22.4	65.8	1.5
235	2094.44	709	436	23.4	21.7	55.1	0.6
238	2094.60	1682	1206	22.9	21.1	60.6	1.6
240	2094.07	172	116	20.7	18.8	61.2	1.0

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ROUTINE CORE ANALYSIS RESULTS

Company: Esso Australia Ltd.
Well : Harlequin # 1

Sample Number	Depth, Metres	Permeability to air, md		Porosity percent		Residual Fluids	
		Ambient	NOBP	Ambient	NOBP	Water Sw%	Oil So%
243	2094.89	127	80.7	20.7	18.2	61.2	2.2
246	2095.08	170	116	20.9	19.0	57.1	1.1
248	2095.24	78.2	49.6	20.6	18.7	52.3	0.6
251	2095.40	658	386	24.2	21.9	55.7	0.4
252	2095.50	396	241	23.3	21.1	55.6	1.4
256	2095.72	121	76.0	21.1	19.3	56.2	0.8
258	2095.88	215	160	19.6	17.7	70.3	1.4
260	2096.00	839	513	23.2	20.6	55.0	0.9
263	2096.14	2084	1415	23.9	22.3	65.8	1.1
265	2096.26	1104	638	21.2	18.9	66.6	0.7
268	2096.41	667	496	22.0	19.2	60.7	0.8
271	2096.57	1354	698	20.8	18.5	61.8	0.7
273	2096.68	2041	1325	18.8	17.1	58.0	3.6

ROUTINE CORE ANALYSIS RESULTS

Company: Esso Australia Ltd.
Well : Harlequin # 1

Sample Number	Depth, Metres	Calculated Grain Density gms/cc	Absolute Grain Density gms/cc	Bulk Dry Density gms/cc		Bulk Volume cc	
				Ambient	NOBP	Ambient	NOBP
1	2079.22	2.68	2.69	2.13	2.18	20.51	19.99
3	2079.38	2.69	2.70	2.10	2.14	20.48	20.10
5	2079.54	2.69	2.69	2.13	2.19	20.61	20.11
8	2079.70	2.69	2.68	2.14	2.19	20.57	20.05
12	2079.91	2.69	2.70	2.03	2.08	20.53	20.02
14	2080.07	2.70	2.69	2.14	2.18	20.51	20.09
16	2080.19	2.67	2.69	2.14	2.19	20.19	19.79
19	2080.38	2.69	2.70	2.08	2.13	20.50	20.04
20	2080.50	2.68	2.69	2.10	2.14	20.63	20.28
24	2080.70	2.67	2.66	2.18	2.22	20.66	20.27
26	2080.84	2.66	2.70	2.24	2.29	20.44	20.01
32	2081.23	2.67	2.70	2.26	2.31	20.61	20.17
36	2081.40	2.67	2.75	2.20	2.27	20.40	19.73
38	2081.59	2.67	2.69	2.13	2.17	20.42	19.99
40	2081.70	2.67	2.67	2.13	2.18	20.39	19.97
42	2081.86	2.66	2.71	2.16	2.19	20.37	20.07
46	2082.06	2.66	2.70	2.21	2.25	20.80	20.47
48	2082.21	2.68	2.71	2.38	2.43	20.67	20.23
51	2082.37	2.67	2.68	2.33	2.38	20.46	20.04
52	2082.49	2.69	2.72	2.33	2.37	20.62	20.27
55	2082.66	2.66	2.70	2.16	2.19	20.36	20.01
58	2082.80	2.66	2.69	2.20	2.23	20.48	20.19
60	2082.93	2.67	2.70	2.19	2.23	20.55	20.20
63	2083.12	2.88	2.84	2.44	2.51	20.55	19.92
66	2083.29	2.77	2.77	2.17	2.22	20.16	19.71
67	2083.41	2.68	2.68	2.08	2.13	20.25	19.84
69	2083.56	2.90	2.72	2.37	2.42	20.01	19.59
73	2083.77	2.83	2.92	2.29	2.36	20.26	19.65
78	2084.12	2.70	2.69	2.53	2.53	20.64	20.60
80	2084.27	2.69	2.70	2.43	2.46	20.44	20.15
83	2084.44	2.74	2.70	2.43	2.48	20.47	20.03
84	2084.52	2.69	2.69	2.45	2.47	20.50	20.37
93	2085.07	2.67	2.69	2.22	2.27	20.63	20.22
94	2085.19	2.68	2.69	2.39	2.45	17.15	16.74
99	2085.50	2.68	2.66	2.25	2.30	20.43	20.01
102	2085.66	2.69	2.69	2.36	2.41	20.71	20.26
104	2085.82	2.64	2.67	2.19	2.23	20.44	20.05
108	2086.01	2.66	2.74	2.28	2.32	20.73	20.31
110	2086.18	2.69	2.69	2.40	2.44	20.35	20.01
112	2086.30	2.67	2.68	2.24	2.28	20.64	20.28
118	2086.69	2.66	2.70	2.20	2.24	20.66	20.33
119	2086.79	2.66	2.67	2.22	2.26	20.63	20.29
123	2087.01	2.66	2.68	2.04	2.08	20.56	20.14
125	2087.15	2.66	2.69	2.08	2.13	20.20	19.73
128	2087.30	2.67	2.69	2.06	2.10	20.47	20.03

ROUTINE CORE ANALYSIS RESULTS

Company: Esso Australia Ltd.
Well : Harlequin # 1

Sample Number	Depth, Metres	Calculated Grain Density gms/cc	Absolute Grain Density gms/cc	Bulk Dry Density gms/cc		Bulk Volume cc	
				Ambient	NOBP	Ambient	NOBP
130	2087.45	2.66	2.67	2.06	2.11	20.39	19.90
134	2087.65	2.65	2.68	2.05	2.10	20.62	20.19
136	2087.82	2.66	2.69	2.05	2.08	20.04	19.67
137	2087.97	2.66	2.68	2.02	2.06	20.37	19.92
141	2088.17	2.66	2.66	2.04	2.09	20.06	19.56
143	2088.35	2.66	2.70	2.03	2.08	20.36	19.90
146	2088.52	2.67	2.69	2.05	2.09	20.44	20.00
148	2088.68	2.65	2.67	2.11	2.15	20.44	19.99
151	2088.84	2.66	2.68	2.03	2.08	20.36	19.88
152	2088.96	2.66	2.68	2.01	2.07	20.08	19.54
156	2089.16	2.66	2.69	2.06	2.11	20.16	19.61
157	2089.25	2.66	2.68	2.03	2.09	20.13	19.53
159	2089.36	2.66	2.68	2.03	2.09	20.23	19.63
163	2089.55	2.66	2.68	2.01	2.06	14.84	14.49
165	2089.71	2.71	2.72	2.19	2.25	20.20	19.70
167	2089.79	2.69	2.68	2.11	2.17	20.36	19.81
169	2089.99	2.66	2.73	2.00	2.08	20.06	19.27
172	2090.12	2.66	2.69	2.04	2.10	20.00	19.44
173	2090.20	2.66	2.67	2.04	2.10	20.18	19.59
176	2090.35	2.73	2.70	2.10	2.16	20.09	19.53
178	2090.57	2.67	2.69	2.29	2.33	20.50	20.11
180	2090.72	2.67	2.69	2.02	2.06	20.01	19.59
182	2090.87	2.66	2.73	1.97	2.03	20.34	19.69
186	2091.08	2.67	2.68	2.04	2.09	20.22	19.71
188	2091.22	2.67	2.68	2.03	2.08	20.45	19.95
190	2091.37	2.67	2.67	2.05	2.10	20.51	20.01
193	2091.53	2.66	2.72	1.99	2.03	20.37	19.94
197	2091.72	2.67	2.69	2.00	2.05	20.60	20.12
200	2091.89	2.67	2.69	2.08	2.13	20.49	20.02
202	2092.05	2.66	2.71	2.06	2.11	19.96	19.47
205	2092.20	2.67	2.69	2.07	2.13	20.61	20.03
207	2092.36	2.68	2.70	1.99	2.04	20.19	19.74
210	2092.53	2.68	2.69	2.02	2.08	20.15	19.60
211	2092.65	2.68	2.69	2.00	2.06	20.20	19.62
215	2092.84	2.68	2.69	2.01	2.05	20.05	19.62
217	2093.00	2.70	2.69	2.03	2.08	20.20	19.73
219	2080.34	2.67	2.72	2.03	2.08	20.29	19.75
222	2093.63	2.64	2.67	1.97	2.03	20.12	19.56
225	2093.79	2.68	2.70	2.03	2.09	20.32	19.76
227	2093.91	2.66	2.67	1.97	2.01	20.17	19.75
230	2094.10	2.67	2.70	2.00	2.05	20.13	19.63
234	2094.35	2.67	2.67	2.03	2.08	20.20	19.72
235	2094.44	2.69	2.69	2.06	2.08	20.36	19.91
238	2094.60	2.73	2.74	2.11	2.16	20.43	19.95

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ROUTINE CORE ANALYSIS RESULTS

Company: Esso Australia Ltd.
Well : Harlequin # 1

Sample Number	Depth, Metres	Calculated Grain Density gms/cc	Absolute Grain Density gms/cc	Bulk Dry Density gms/cc		Bulk Volume cc	
				Ambient	NOBP	Ambient	NOBP
240	2094.07	2.68	2.67	2.12	2.17	20.16	19.69
243	2094.89	2.65	2.66	2.11	2.17	20.33	19.71
246	2095.08	2.70	2.71	2.14	2.19	20.65	20.18
248	2095.24	2.66	2.66	2.11	2.17	20.50	20.00
251	2095.40	2.66	2.70	2.02	2.08	20.18	19.58
252	2095.50	2.66	2.66	2.04	2.10	20.30	19.75
256	2095.72	2.66	2.66	2.10	2.15	20.60	20.14
258	2095.88	2.69	2.71	2.16	2.21	20.36	19.89
260	2096.00	2.68	2.66	2.06	2.13	20.50	19.83
263	2096.14	2.68	2.71	2.04	2.08	19.96	19.54
265	2096.26	2.72	2.70	2.14	2.20	20.10	19.52
268	2096.41	2.72	2.73	2.13	2.20	20.13	19.45
271	2096.57	2.69	2.73	2.13	2.20	20.52	19.93
273	2096.68	2.73	2.74	2.22	2.26	20.05	19.64

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HARLEQUIN -1

1. Sst, lt gry, fn - occ med gr, ang - sub ang, mod srtd, mod ind, abund slt/cly mtx, non-calc tr mica, tr pyrite.

3. A/A but predom med gr, less abund mtx.

5. Sst, lt gry, fn-occ med gr, ang - sub ang, mod srtd, mod ind, abund slt/cly mtx. non - calc tr mica, tr pyrite.

8. A/A

12. A/A but predom med gr, less mtx matl.

14. Sst, lt gry, fn gr, ang - sub ang, mod - well srtd, mod ind, abund slt/cly mtx, non-calc, tr mica/pyrite.

16. A/A mod abund pyrite.

19. A/A fn - occ med gr.

20, A/A fn - occ med gr.

24. A/A mod abund pyrite, abun mtx, shale/claytone lam.

26. Sst, lt gry, fn gr, ang - sub ang, mod - w. srtd, mod ind, abund slt/cly mtx, non-calc, tr dissen carb matl, mica, mod abun, pyrite, slt/cly rich lam.

32. A/A

36. A/A

38. Sst, lt gry, med - crs gr, ang - sub ang, mod - w. srtd, mod ind, mod abund slt/cly mtx, non-calc. tr pyrite, mica, glauc?

40. A/A

42. Sst, lt gry, fn - med gr, ang - sub ang, mod - w. srtd, mod ind, mod abund slt/cly mtx, non-calc, tr pysto mica.

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46. A/A occ cly rich lam.

48. Predom Sltst - Sst, v. fin gr w. abun slt/cly mtx, mod - well ind, abund mtx, carb matl, tr pyrite, mica, occ crs gr lam.

51. A/A

52. A/A

55. Sst, med - crs gr, sub ang - ang, mod std, mod ind, mod abund slt/cly mtx, non-calc, tr mica, pyrite dissen carb matl.

58. A/A

60. A/A

63. A/A but abund mtx, abund pyrite.

66. Sst, predom med gr, sub ang - ang, mod srtd, mod ind, sparse slt/cly mtx, non-calc, tr mica, mod - abund pyrite.

67. A/A but more abund mtx.

69. Sst, crs gr, sub ang - ang, mod srtd, mod - w. ind, sparse slt/cly mtx non-calc abund pyrite.

73. A/A

78. Sltst, lt gry, w. ind, massive, non-calc tr mica, tr pyrite.

80. Sltst - v. fn gr Sst, lt gry, sub ang - ang, w. srtd, w. ind, abund mtx, non-calc tr, mica, pyrite, dissen org matl.

83. A/A

84. A/A

93. Sst, lt gry, fn - occ med gr, sub ang - ang, mod srtd, mod ind, abund slt/cly mtx, non - calc tr mica, pyrite, dissen carb matl.

amdel

94. Sltst - lt gry, fn gr Sst, sub ang - ang, mod - well srtd, w. ind, v. abund slt/cly mtx, non - calc, tr mica, pyrite, dissen carb matl, fracture.

99. Sst, lt gry, fn gr, sub ang - ang, mod srtd, mod ind, slt/cly mtx, non - calc tr mica, pyrite, dissen carb matl.

102. A/A but very abundant mtx, mod - abund pyrite.

104. Sst, lt gry, fn - med occ crs gr, sub ang - ang, mod srtd, mod ind, abund slt/cly mtx, non - calc, tr mica, pyrite, dissen carb matl.

108. A/A but v. abundant slt/cly mtx.

110. Sltst, lt gry, w. srtd, massive, w. ind, non - calc, carb streaks and lam, pyrite.

112. Sst, lt gry, fn gr, sub ang - ang, w. srtd, mod ind. abund slt/cly mtx, tr mica, pyrite, dissen carb matl.

118. A/A

119. A/A

123. Sst, lt gry, med - occ crs gr, sub ang - ang, mod srtd, mod ind slt/cly mtx (sparse in part) tr mica, pyrite, non -calc.

125. A/A but fn - med grn.

128. A/A but fn - med grn.

130. Sst, lt gry, fn - med occ crs gr, sub ang - ang, mod srtd, mod ind slt/cly mtx, non - calc tr pyrite, mica.

134. A/A

136. A/A but predom med, occ crs grn.

137. Sst, lt gry, med gr, sub ang - ang, mod - w. srtd, mod rnd, slt/cly mtx, non - clc, tr pyrite, tr mica.

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141. A/A

143. A/A

146. A/A

148. A/A more abun mtx, carb streaks.

151. Sst, lt gry, med gr occ crs, sub ang - ang, mod srtd, mod ind slt/cly mtx, tr mica, tr pyrite, non - calc.

152. A/A but med - v. crs gr.

156. A/A but med - v. crs gr.

157. A/A but med - v. crs gr.

159. A/A but med - v. crs gr.

163. A/A but med - v. crs gr.

165. A/A but med - v. crs gr.

167. Sst, lt gry, med - v. crs gr, sub ang - ang. poorly - mod srtd, mod ind slt/cly mtx, tr mica, tr pyrite, non - calc.

169. A/A

172. A/A

173. A/A but more abund mtx.

176. Sst, lt gry, med - v. crs gr, sub ang - ang, poorly srtd, mod ind, slt/cly mtx, tr pyrite, non - calc.

178. Sst, lt gry, fn - occ med gr, sub ang - ang, mod srtd, mod ind v. abund slt/cly mtx, tr pyrite, tr mica.

180. Sst, lt gry, fn - occ med gr, sub ang - ang, mod - w. srtd, mod ind slt/cly mtx, tr pyrite/mica.

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182. A/A but med - crs gr.

186. A/A but predom med gr.

188. A/A but predom med gr.

190. A/A but predom med gr.

193. A/A but predom gr.

197. A/A fn - med gr.

200. Sst, lt gry, fn - med gr, sub ang - ang, mod srtd, mod abund slt/cly mtx, mod ind, non - calc, tr pyrite, tr mica.

202. A/A

205. A/A

207. A/A but predom med gr.

210. Sst, lt gry, med - occ crs gr, sub ang - ang, mod srtd, slt/cly mtx, mod ind, non - calc, tr pyrite, tr mica.

211. A/A less abund mtx.

215. A/A much less abund mtx.

217. Sst, lt gry, crs gr, sub ang - ang, mod srtd, mod ind, fairly sparse, slt/cly mtx, non calc, tr pyrite, tr mica.

219. Sst, lt gry, fn - crs gr, sub ang - ang, poorly srtd, mod ind, mod abund slt/cly mtx, non - calc, tr pyrite, tr mica, clay lam.

222. Sst, lt gry, med - crs gr, sub ang - ang, poor - med srtd, mod rnd, slt/cly mtx, non calc, tr mica/pyrite, carb streaks/lams, clay inclusions.

225. A/A

amdel

227. Sst, lt gry, predom med, occ crs gr, sub ang - ang, mod srtd, mod rnd sparse slt/cly mtx, non-calc, tr mica/pyrite.

230. A/A

234. A/A

235. A/A with mod abund mtx.

238. Sst, lt gry, med - crs occ v. crs gr, sub ang - ang, poorly srtd, mod ind, slt/cly mtx, non - calc, tr mica pyrite.

240. A/A with abund mtx.

243. A/A with abund mtx.

246. A/A with abund mtx, abund pyrite.

248. Sst, lt gry, med - occ crs gr, sub ang - ang, mod srtd, mod ind abund slt/cly mtx, non-calc, tr pyrite, mica.

251. A/A but less abund mtx.

252. Sst, lt gry, med - crs gr, sub ang - ang, poor - mod srtd, mod ind, mod abund slt/cly mtx, non - calc tr pyrite/mica.

256. A/A with more abund mtrx.

258. Sst, lt gry, med - crs gr, occ v. crs, sub ang - ang, poorly srtd, mod ind, mod abund slt/cly mtx, tr pyrite/mica.

260. A/A but coarser grained with less mtx matl.

263. A/A coarser grained, fairly sparse mtx.

265. Sst, lt gry, crs - v. crs gr, sub ang - ang, poor - mod srtd, mod ind, slt/cly mtx, tr mica/pyrite.

268. A/A

amdel

271. A/A

273. A/A

ENCLOSURES

PE902165

This is an enclosure indicator page.
The enclosure PE902165 is enclosed within the container PE902164 at this location in this document.

The enclosure PE902165 has the following characteristics:

ITEM_BARCODE	= PE902165
CONTAINER_BARCODE	= PE902164
NAME	= Structural Cross Section West Seahorse to Wirrah
BASIN	=
PERMIT	= Vic/P1
TYPE	= WELL
SUBTYPE	= cross section
DESCRIPTION	= Structural Cross Section West Seahorse to Wirrah
REMARKS	=
DATE_CREATED	= 01/01/1990
DATE_RECEIVED	= 22/02/1990
W_NO	=
WELL_NAME	= Harlequin-1
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE902166

This is an enclosure indicator page.
The enclosure PE902166 is enclosed within the container PE902164 at this location in this document.

The enclosure PE902166 has the following characteristics:

ITEM_BARCODE	= PE902166
CONTAINER_BARCODE	= PE902164
NAME	= Structure Map Top of Coarse Clastics
BASIN	=
PERMIT	= Vic/P1
TYPE	= WELL
SUBTYPE	= map
DESCRIPTION	= Structure Map Top of Coarse Clastics
REMARKS	=
DATE_CREATED	= 01/04/1989
DATE_RECEIVED	= 22/02/1990
W_NO	=
WELL_NAME	= Harlequin-1
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE902167

This is an enclosure indicator page.
The enclosure PE902167 is enclosed within the container PE902164 at this location in this document.

The enclosure PE902167 has the following characteristics:

ITEM_BARCODE	= PE902167
CONTAINER_BARCODE	= PE902164
NAME	= Structure map Upper L Balmei Seismic marker
BASIN	=
PERMIT	= Vic/P1
TYPE	= WELL
SUBTYPE	= map
DESCRIPTION	= Structure map Upper L Balmei Seismic marker
REMARKS	=
DATE_CREATED	= 01/04/1989
DATE_RECEIVED	= 22/02/1990
W_NO	=
WELL_NAME	= Harlequin-1
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE902168

This is an enclosure indicator page.
The enclosure PE902168 is enclosed within the container PE902164 at this location in this document.

The enclosure PE902168 has the following characteristics:

ITEM_BARCODE	= PE902168
CONTAINER_BARCODE	= PE902164
NAME	= Structure Map 67 Ma Sequence Boundary
BASIN	=
PERMIT	= Vic/P1
TYPE	= WELL
SUBTYPE	= map
DESCRIPTION	= Structure Map 67 Ma Sequence Boundary
REMARKS	=
DATE_CREATED	= 01/04/1989
DATE_RECEIVED	= 22/02/1990
W_NO	=
WELL_NAME	= Harlequin-1
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE601009

This is an enclosure indicator page.
The enclosure PE601009 is enclosed within the container PE902164 at this location in this document.

The enclosure PE601009 has the following characteristics:

ITEM_BARCODE	= PE601009
CONTAINER_BARCODE	= PE902164
NAME	= Formation Evaluation Log
BASIN	=
PERMIT	= Vic/P1
TYPE	= WELL
SUBTYPE	= well log
DESCRIPTION	= Formation Evaluation Log
REMARKS	=
DATE_CREATED	= 31/01/1988
DATE_RECEIVED	= 22/02/1990
W_NO	=
WELL_NAME	= Harlequin-1
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE601010

This is an enclosure indicator page.
The enclosure PE601010 is enclosed within the container PE902164 at this location in this document.

The enclosure PE601010 has the following characteristics:

ITEM_BARCODE	= PE601010
CONTAINER_BARCODE	= PE902164
NAME	= Well Completion Log
BASIN	=
PERMIT	= Vic/P1
TYPE	= WELL
SUBTYPE	= well log
DESCRIPTION	= Well Completion Log
REMARKS	=
DATE_CREATED	= 06/02/1989
DATE_RECEIVED	= 22/02/1990
W_NO	=
WELL_NAME	= Harlequin-1
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)