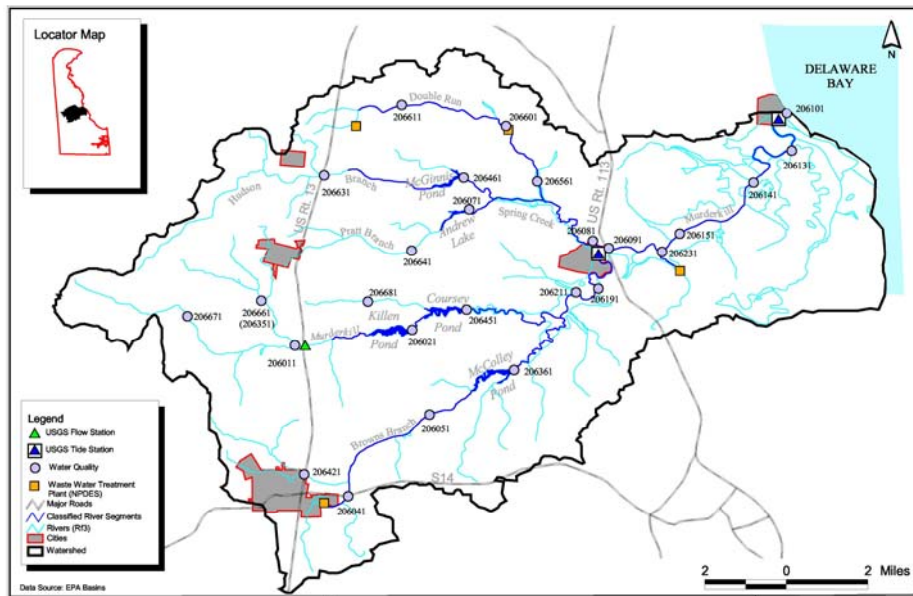


TECHNICAL ANALYSIS FOR AMENDMENT OF THE 2001 MURDERKILL RIVER TMDLS



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EXECUTIVE SUMMARY

The Delaware Department of Natural Resources and Environmental Control (DNREC) is proposing to amend the Total Maximum Daily Loads (TMDLs) for nutrients and oxygen demanding materials for the Murderkill River Watershed.

In December 2001, the Delaware DNREC issued Secretary's Order No. 2001-A-0044 and adopted Total Maximum Daily Loads (TMDLs) for nutrients and oxygen consuming compounds for the entire Murderkill River Watershed including its tributaries and ponds. The TMDLs, which were developed in compliance with requirements of Section 303(d) of the Clean Water Act (CWA), establish the maximum amount of pollutants that can be discharged to a waterbody from point and nonpoint sources while maintaining water quality standards. The TMDLs include Waste Load Allocations (WLAs) for point sources, Load Allocations (LAs) for nonpoint sources, and a Margin of Safety (MOS).

Following adoption of the Murderkill River TMDL Regulation in December 2001, Kent County Levy Court, which owns and operates the Kent County Wastewater Treatment Plant Facility, appealed the TMDLs Regulation for the lower Murderkill River to the State Environmental Appeal Board and State Superior Court. During settlement negotiations, which have been concluded, and additional technical studies, the Department concluded that the original hydrodynamic and water quality WASP5 model of the Murderkill River needs to be updated. Following refinement of the WASP5 model and evaluating several loading scenarios, DNREC is proposing to amend the 2001 TMDL Regulation. The proposed amended TMDLs for the Murderkill River Watershed are listed in the following Table 1:

Table 1- The Proposed Amended TMDLs for the Murderkill River Watershed

Source			Flow (mgd)	Total Nitrogen (lbs/d)	Total Phosphorous (lbs/d)	CBOD5 (lbs/d)
Load Allocation (LA) for Nonpoint Sources			-	560	96	-
Waste Load Allocation (WLA) for Point Sources	City of Harrington	During no discharge	0	0	0	0
		During seasonal discharge	0.750	140	0.75	37.5
	Kent County Facility		15	751	62.5	1001
	Canterbury Crossing Mobile Home Park		0.05	4.3	0.2	9.6
TMDL (When Harrington is not discharging)			-	1315.3	158.7	1010.6
TMDL (When Harrington is discharging)			-	1455.0	159.45	1048.1

CHAPTER 1

1.1 INTRODUCTION AND BACKGROUND

In December 2001, the Delaware Department of Natural Resources and Environmental Control issued Secretary's Order No. 2001-A-0044 and adopted Total Maximum Daily Loads (TMDLs) for nutrients and oxygen consuming compounds for the entire Murderkill River Watershed including its tributaries and ponds (1, 2, 3). The TMDLs, which were developed in compliance with requirements of Section 303(d) of the Clean Water Act (CWA), establish the maximum amount of pollutants that can be discharged to a waterbody from point and nonpoint sources while maintaining water quality standards. The TMDLs include Waste Load Allocations (WLAs) for point sources, Load Allocations (LAs) for nonpoint sources, and a Margin of Safety (MOS).

The 2001 Murderkill River TMDLs were established based on the results of water quality analyses using a WASP water quality model of the Murderkill River, its tributaries and ponds (3, 4). The WASP (Water Analysis Simulation Program) modeling framework was developed and is supported by the United States Environmental Protection Agency (US EPA). The Murderkill River WASP Model was developed and calibrated using extensive water quality and hydrologic data. Based on the results of modeling analyses, it was determined that point and nonpoint sources of nutrients (nitrogen and phosphorous) and oxygen consuming compounds (BOD) need to be reduced in order to meet the State of Delaware's Water Quality Standard and nutrient targets. The State's Water Quality Standard for dissolved oxygen is 5.5 mg/l for fresh water segments and 5.0 mg/l for marine waters (5). Furthermore, the Department's upper target value for total nitrogen (TN) is 3.0 mg/l and for total phosphorous (TP) is 0.2 mg/l

Following adoption of the Murderkill River TMDLs Regulation in December 2001, Kent County Levy Court, which owns and operates the Kent County Facility, appealed the TMDLs Regulation for the lower Murderkill River to the State Environmental Appeal Board and State Superior Court. Kent County Levy Court, in its appeal of the TMDLs Regulation, presented data showing that the Murderkill River WASP Model

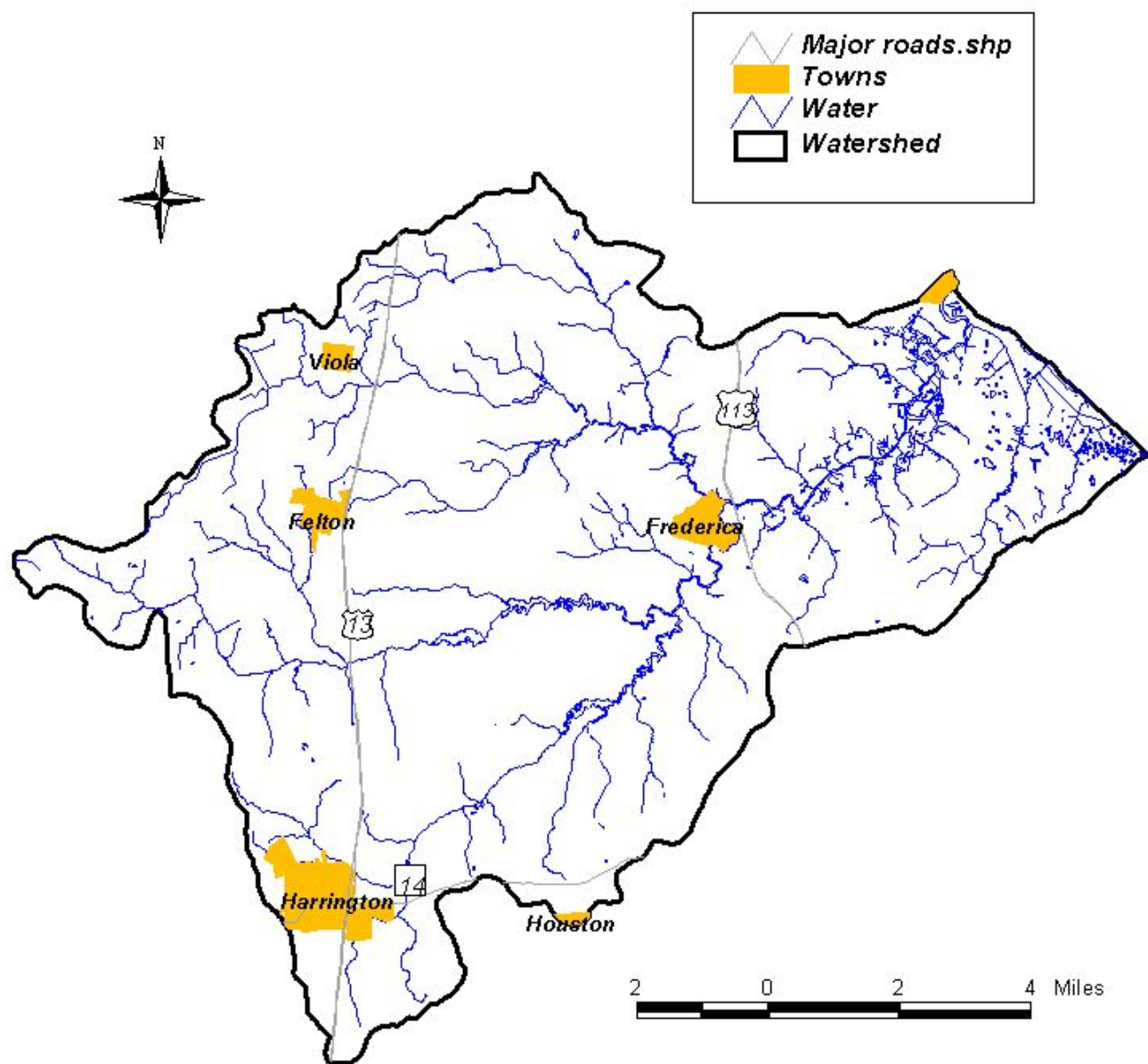
underestimated physical dimensions (width, depth, cross-sectional area) of the lower Murderkill River. In addition, the County believed that the model underestimates tidal currents in the lower Murderkill River. Because of the above two factors, the County believed that the model underestimates discharge flows, hence underestimates assimilative capacity of the lower Murderkill River.

In order to address Kent County Levy Court's concerns, the Department agreed to collect additional field data and if necessary, modify the Murderkill River WASP Model, so that the model's predications are in agreement with field observations. Chapter 1 of this document presents a brief description of the Murderkill River Watershed and the applicable water quality standards and nutrient targets. Chapter 2 provides an overview of the Murderkill River WASP Model. Chapter 3 discusses the results of the 2002 field survey. Modification of the model and the proposed amended TMDLs are presented in Chapter 4.

1.2 THE MURDERKILL RIVER WATERSHED

The Murderkill River Watershed has a drainage area of 106 square miles and is located in the southeastern portion of Kent County, Delaware (Figures 1.1 and 1.2). The Murderkill River flows eastward approximately 20 miles from its headwaters west of Felton to its confluence with the Delaware Bay at Bowers Beach. The lower portion of the Murderkill River from its mouth at the Delaware Bay to Rt. 113 Bridge at Frederica is tidal. Several free flowing tributaries such as Browns Branch, Double Run, and Hudson Branch enter the Murderkill River. In addition, a number of lakes and ponds are in the watershed including McColley Pond on Browns Branch, Killens Pond and Courseys Pond on the Murderkill River, McGinnis Pond on the Hudson Branch, and Andrews Lake on the Spring Creek Branch.

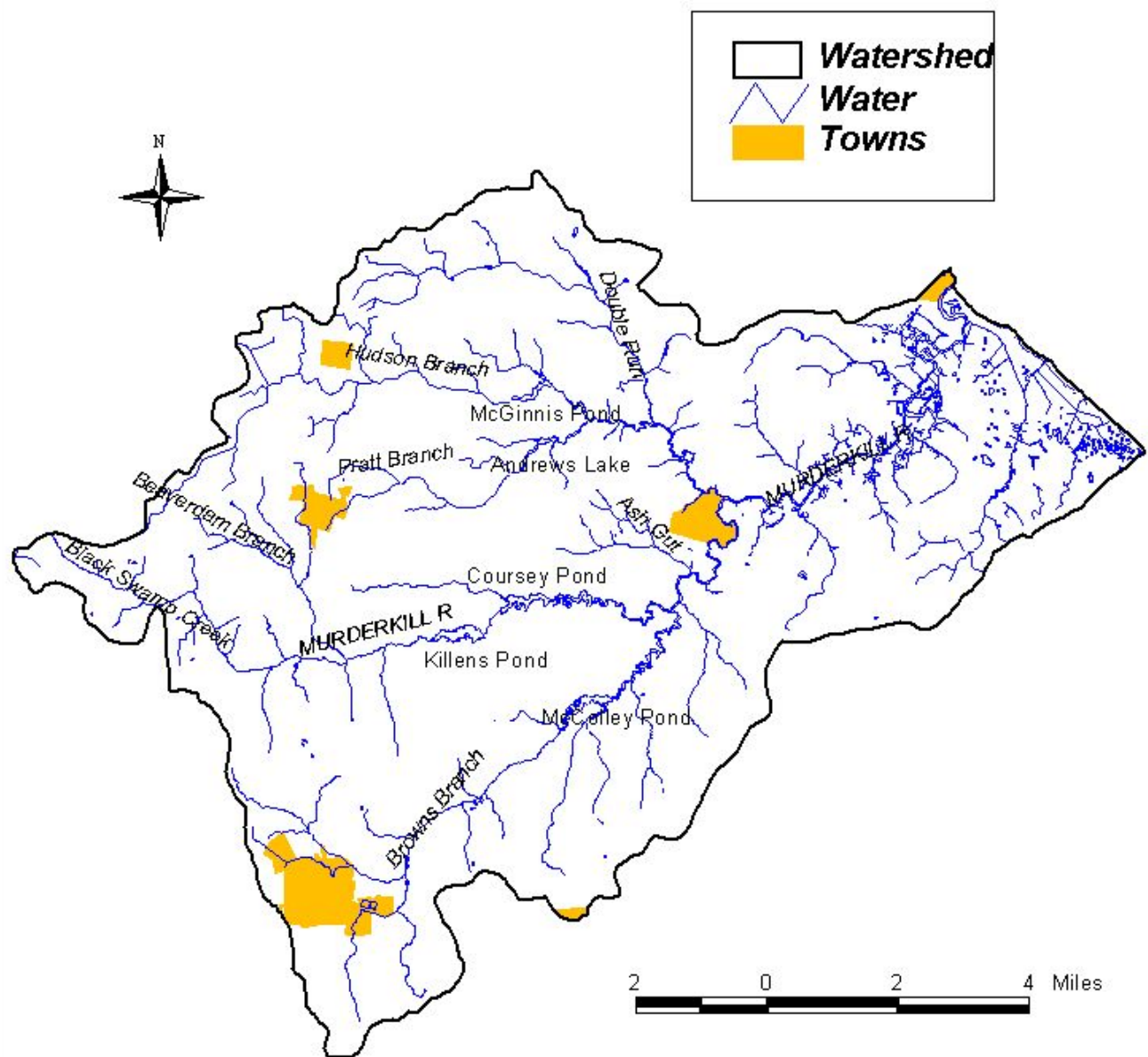
Figure 1.1 Murderkill River Study Area



This map is prepared for DNREC internal use. The information in this map is subject to change or modification at any time. Use of the information by others is at their own risk, and DNREC in no way guarantees or warrants the accuracy and/or completeness of the information. The information depicted is provided for general and approximate graphical representation only.



Figure 1.2 Streams and Ponds of the Murderkill River



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1.3 LAND USE / LAND COVER

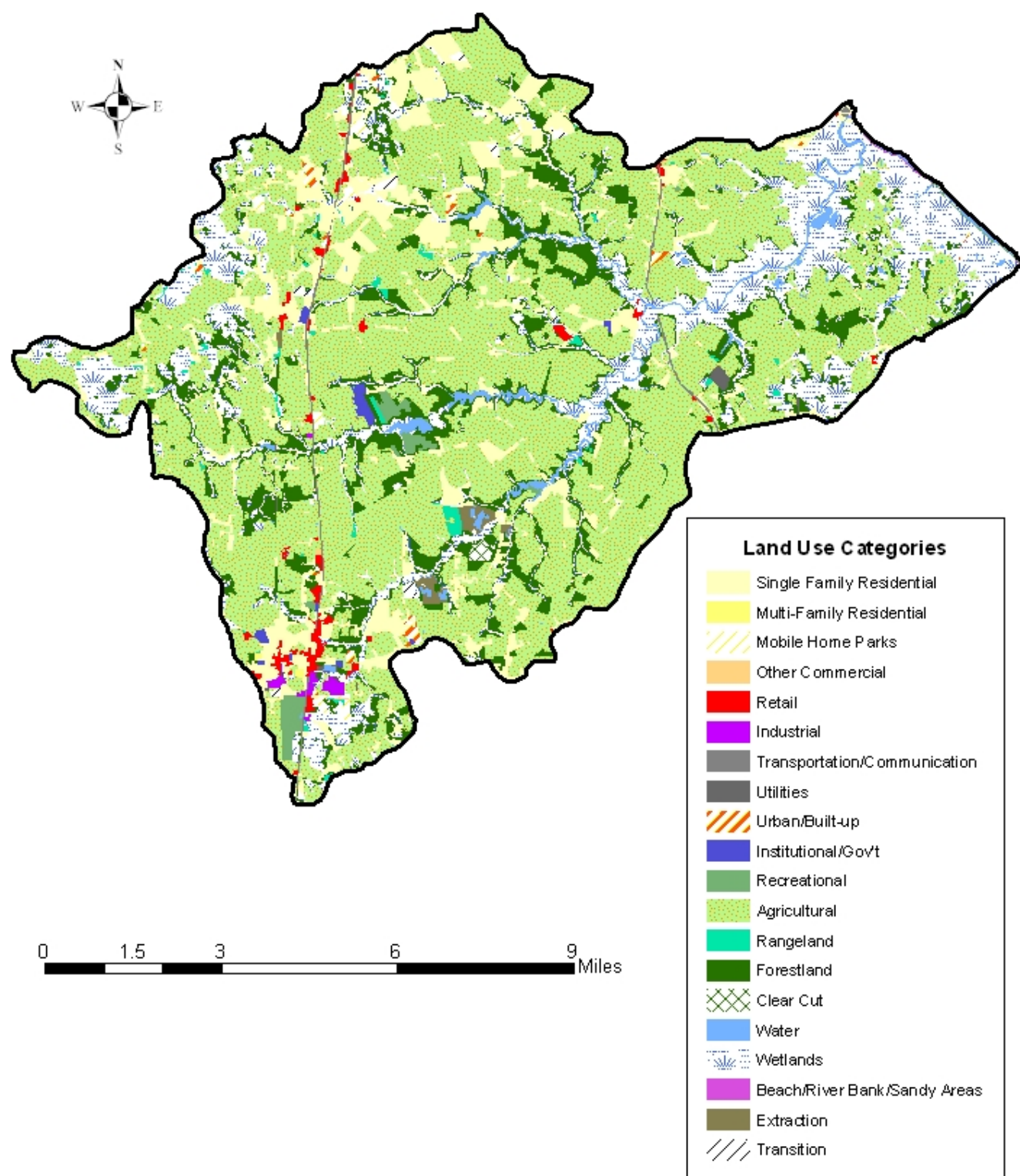
Figure 1.3 shows the 2002 land use map for the Murderkill River Watershed. As it can be seen from this map, about 55% of the watershed is agricultural land, 14% is urban/built up, 11% is forest, 17% is wetlands (fresh and tidal), and about 2% is water.

1.4 SOILS/WETLANDS

The Murderkill River Watershed has predominately well-drained soils. Tidal marsh soils occupy 6% of the landscape and are found in the flood plains below the dams of Andrews Lake, McGinnis Pond, Courseys Pond, and McColley Pond and along the Delaware Bay. Broadkill, Missipilion, Westbrook, Honga, Bestpitch and Transquaking are the tidal brackish soils found in the flood plains of the watershed. Poorly drained soils, predominantly Longmarsh and Indiantown, along with some occurrences of Chicone and Zekiah, can be found above the dams in the non-tidal flood plains. About 17% of the watershed (11,890 acres) is covered by wetlands associated with poorly drained soils of which 4,259 acres are tidal and 7,105 are freshwater wetlands. About 86% of the freshwater wetlands are forested.

The well-drained upland soils are predominately Downer and Ingleside with small areas of moderately well-drained Hammonton soils in slight depressions. A few Sassafras soils occur on level landscapes. In the headwater areas of the Murderkill River, poorly drained Hurlock and Mullica soils are found. Some well to excessively well-drained sandy soils (Galestown and Evesboro soils) are found near the ponds. In shallow depressions throughout the watershed, Hammonton and Hurlock soils are encountered.

Figure 1.3 2002 Land Use Map - Murderkill River Watershed



1.5 DESIGNATED USES AND APPLICABLE WATER QUALITY STANDARDS

Section 3 of the State of Delaware Surface Water Quality Standards, as amended, July 11, 2004, assigns the following designated uses for the waters of the Murderkill River Watershed (5):

- Primary Contact Recreation
- Secondary Contact Recreation
- Fish, Aquatic Life, and Wildlife
- Industrial Water Supply
- Agricultural Water Supply (only the freshwater segments)

Specific narrative and/or numeric criteria concerning the waters of the Murderkill River Watershed are listed in Section 4 of the State of Delaware Surface Water Quality Standards and include the following:

A. Dissolved Oxygen (D.O.)

- For fresh waters, daily average shall not be less than 5.5 mg/l and instantaneous minimum shall not be less than 4.0 mg/l. Fresh waters are defined as those waters having a salinity of less than 5 parts per thousand.
- For marine waters, daily average shall not be less than 5.0 mg/l and instantaneous minimum shall not be less than 4.0 mg/l.

Based on salinity data and field observations, the tidal portion of the Murderkill River downstream of the Rt. 113 Bridge at Frederica is considered to be marine water. All tributaries and ponds upstream of the Rt. 113 Bridge are considered to be fresh water.

B. Enterococcus Bacteria (to support Primary Contact Recreation Use)

- For fresh waters, a single sample value shall not exceed 185 colonies/100 ml and geometric mean shall not exceed 100 colonies/100 ml.
- For marine waters, a single sample value shall not exceed 104 colonies/100 ml and geometric mean shall not exceed 35 colonies/100 ml.

C. Nutrients Section 4.6.2 of the State Water Quality Standards addresses nutrient overenrichment of the State's surface waters through the following statements:

- Nutrient overenrichment is recognized as a significant problem in some surface waters of the State.
- It shall be the policy of this Department to minimize nutrient input to surface waters from point sources and human induced nonpoint sources.
- The types of, and need for, nutrient controls shall be established on a site-specific basis. Nutrient controls may include, but shall not be limited to, discharge limitations or institution of best management practices.

In the absence of national numeric nutrient criteria, DNREC uses upper target values of 3.0 mg/l for nitrogen (total nitrogen) and 0.2 mg/l for phosphorous (total phosphorous) to ensure that nutrient overenrichment is not occurring. Concentrations above these levels are generally considered by the scientific community to be indicative of overenriched waters.

CHAPTER 2

2.1 THE MURDERKILL RIVER HYDRODYNAMIC AND WATER QUALITY MODEL

The hydrodynamic and water quality model of the Murderkill River is developed using the U.S. EPA's Water Quality Analysis Simulation Program (WASP5) modeling framework. The general purpose WASP model was developed by the U.S. EPA and has been widely used for application to many riverine and estuarine systems in the U.S. and worldwide (6).

The WASP5 model of the Murderkill River consists of two submodels:

- Hydrodynamic model (DYNHYD5)
- Water quality model (EUTRO5)

In what follows, the main components of the Murderkill River WASP Model will be described briefly. A detailed discussion of the Model can be found in Reference 4.

2.2 THE HYDRODYNAMIC MODEL

The US EPA's DYNHYD5 Hydrodynamic Model is applied to the Murderkill River and several of its tributaries and ponds. The DYNHYD5 solves one-dimensional equations describing the propagation of a long wave through a shallow water system by conserving both momentum and volume. The equation of motion, based on the conservation of momentum, predicts time variable flows and velocities in a river and is written as (6):

$$\frac{\partial U}{\partial t} = -U \frac{\partial U}{\partial x} + a_{g,\lambda} + a_f + a_{w,\lambda}$$

where:

$$\frac{\partial U}{\partial t} = \text{the rate of velocity change with respect to time, m/sec}^2$$

$$U \frac{\partial U}{\partial x} = \text{the Bernoulli acceleration, or the rate of change of momentum, m/sec}^2$$

$$a_{g,\lambda} = \text{gravitational acceleration, m/sec}^2$$

a_f	=	frictional acceleration, m/sec ²
$a_{w,\lambda}$	=	wind stress acceleration along channel axis, m/sec ²
x	=	distance along channel axis, m
t	=	time, sec
U	=	velocity along the channel axis, m/sec
8	=	longitudinal axis

The equation of continuity is given by (6):

$$\frac{\partial A}{\partial t} = -\frac{\partial Q}{\partial x}$$

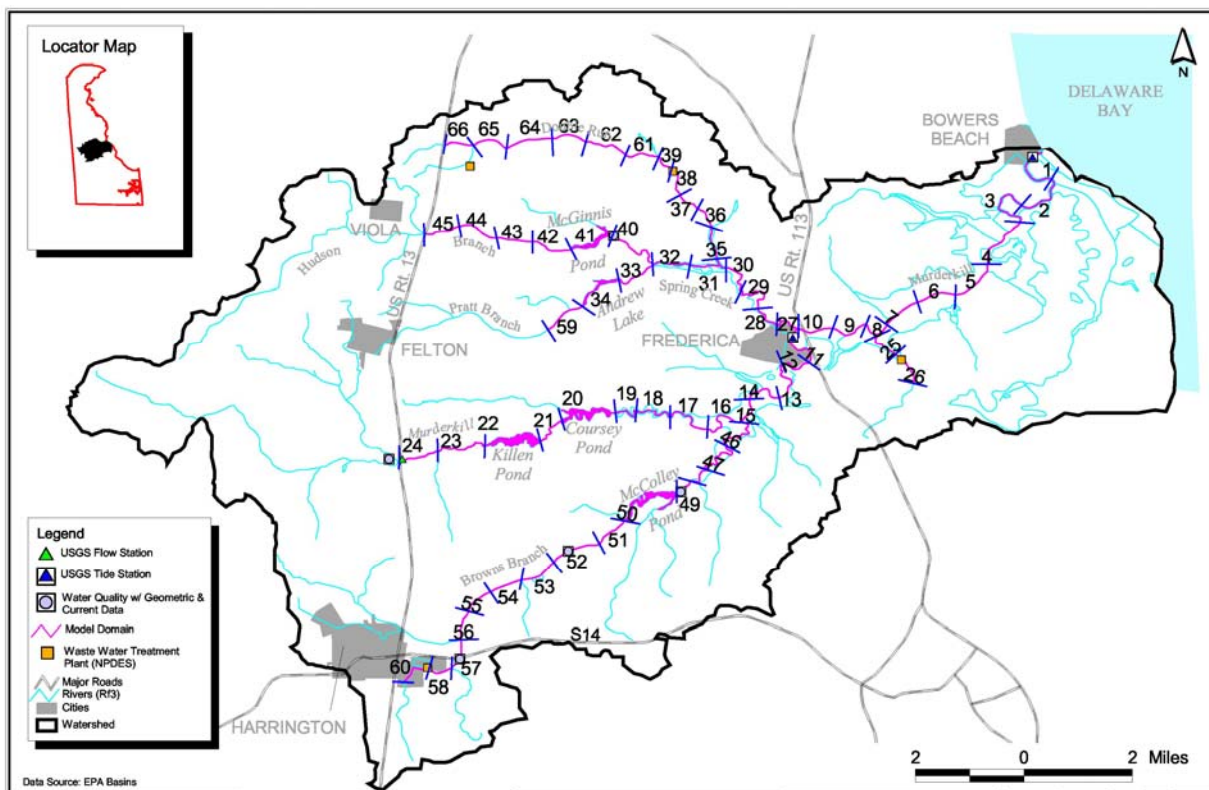
where:

A	=	cross-sectional area, m ²
Q	=	flow, m ³ /sec

Simultaneous solution of the equations of momentum and continuity provides time variable velocity and elevation information for various segments of the system. The velocity and elevation information are saved in a file and used as an input to the water quality model.

The DYNHYD5 model of the Murderkill River consists of 66 stream segments (Figure 2.1). The principal input data for the DYNHYD5 model includes: physical characteristics and dimensions of the stream; fresh water flows from headwater tributaries; and tidal elevations at the downstream boundary (at the confluence of the Murderkill River with the Delaware Bay).

Figure 2.1 Murderkill River DYNHYD Model Segmentation



2.3 WATER QUALITY MODEL

The WASP5 water quality submodel, EUTRO5, is applied to the Murderkill River and several of its tributaries and ponds. WASP5/EUTRO5 is a dynamic compartment model that can be used to analyze a variety of water quality problems in ponds, streams, lakes, reservoirs, rivers, estuaries, and coastal waters. The model applies principle of conservation of mass, which requires that the mass of each water quality constituent be accounted for in one way or another. WASP5 traces each water quality constituent from its point of entry into the system until its final point of departure, conserving mass in space and time.

The general one-dimensional mass balance equation solved by the EUTRO5 model is (6):

$$\frac{\partial C}{\partial t} = -\frac{\partial}{\partial t}(U_x C) + \frac{\partial}{\partial x}(E_x \frac{\partial C}{\partial x}) + S_L + S_B + S_k$$

where:

C=	concentration of the water quality constituent, mg/l
T=	time, day
U _x =	longitudinal advective velocity, m/day
E _x =	longitudinal diffusion coefficient, m ² /d
S _L =	direct (point and nonpoint source) loading rate, g/m ³ -day
S _B =	boundary loading (including upstream, downstream, benthic, and atmospheric) rate, g/m ³ -day
S _K =	total kinetic transformation rate; positive is source, negative is sink, g/m ³ -day

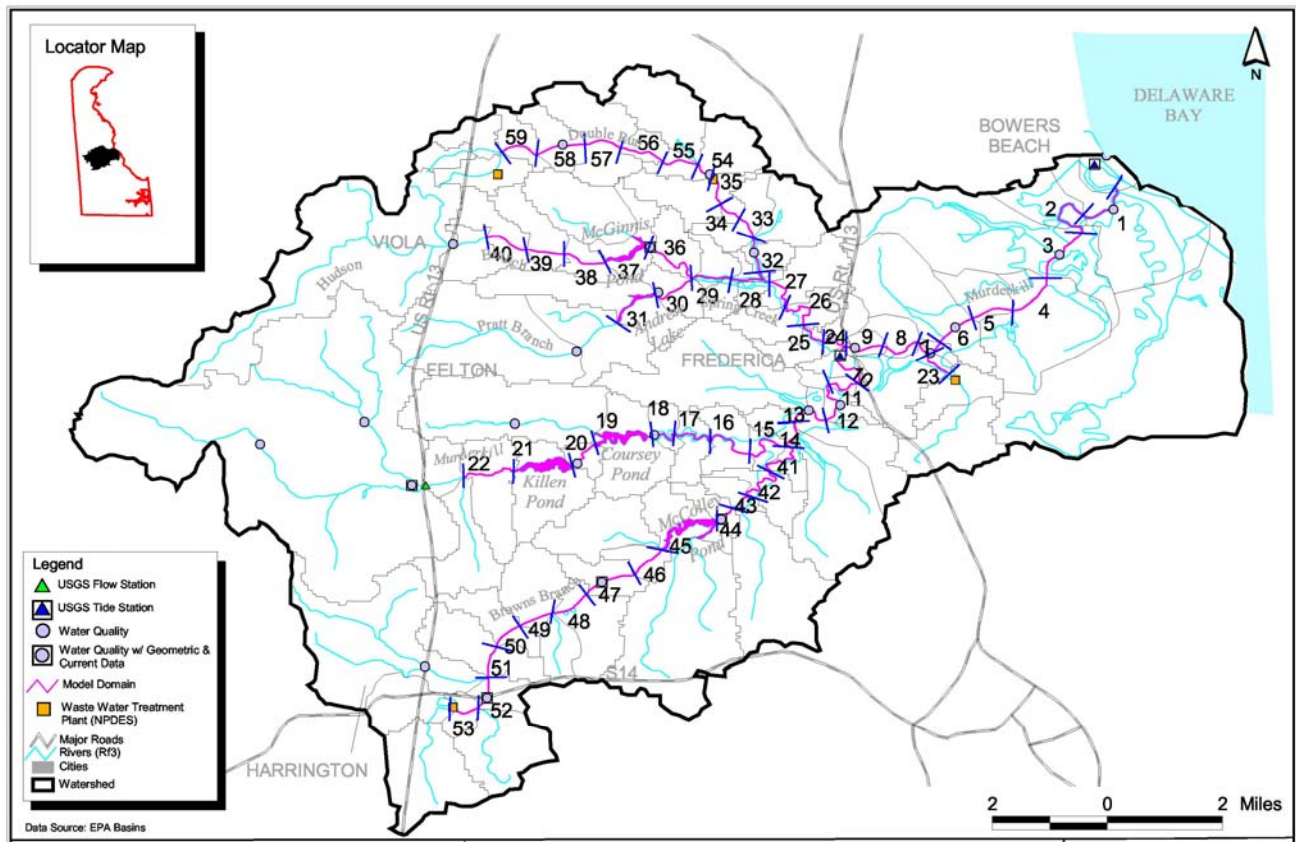
The version of EUTRO5 submodel applied to the Murderkill River simulates the following eight constituents:

- (1) ammonia-nitrogen
- (2) nitrite+nitrate-nitrogen
- (3) inorganic phosphorous
- (4) single functional group of algae (as chlorophyll-a)
- (5) total organic carbon (as ultimate CBOD)
- (6) dissolved oxygen
- (7) total organic nitrogen
- (8) total organic phosphorous

The required input data for the model include: initial conditions; boundary concentrations; pollutant loads (from point and nonpoint sources); kinetic parameters affecting the rate of physical, chemical, and biological processes within the water; advective and dispersive transport; and the hydrodynamic model output file.

The water quality model of the Murderkill River consists of 59 segments and covers tidal segments as well as several tributaries and ponds of the river (see Figure 2.3).

Figure 2.2 Segmentation of the Water Quality Model of the Murderkill River



CHAPTER 3

3.1 THE SEPTEMBER 2002 STREAM BATHYMETRY AND TIDAL CURRENT SURVEY

As it was mentioned earlier in this report, the Delaware Department of Natural Resources and Environmental Control and Kent County Levy Court agreed to work cooperatively and collect additional field data, and if necessary, modify the Murderkill River WASP Model so that model's predications are in agreement with field observations.

Pursuant to this agreement, Delaware DNREC collected additional field data with respect to physical dimensions (width, depth) and tidal velocity and discharge in lower Murderkill River. The field survey was carried out on two days: September 21, 2002, and September 29, 2002. An Acoustic Doppler Current Profiler (ADCP) instrument, Model No. BB CS-1200 KHz, manufactured by RD Instruments, was used for the survey. The September 21, 2002 survey was performed during a full moon, which produces spring tides and high discharge flows. On the other hand, the September 29, 2002 survey was performed during a half moon, which results in neap tides with discharge flows below normal. Conducting two surveys, one during spring tide and one during neap tide, provided an opportunity to observe and measure a wide range of tidal discharges and currents in the river

3.2 SURVEY SITES

During each survey, the ADCP instrument, which was mounted on a 23-foot Carolina Skiff through a specially constructed bracket, was used to survey stream cross section, tidal current, and discharge flow at two sites. Site 1 was at Bowers Beach near the mouth of the river and site 2 was upstream near Frederica by the Route 113 Bridge. Location of the survey sites are shown in Figures 3.1 and 3.2.

Figure 3.1- Location of Bowers Beach ADCP Transect Survey

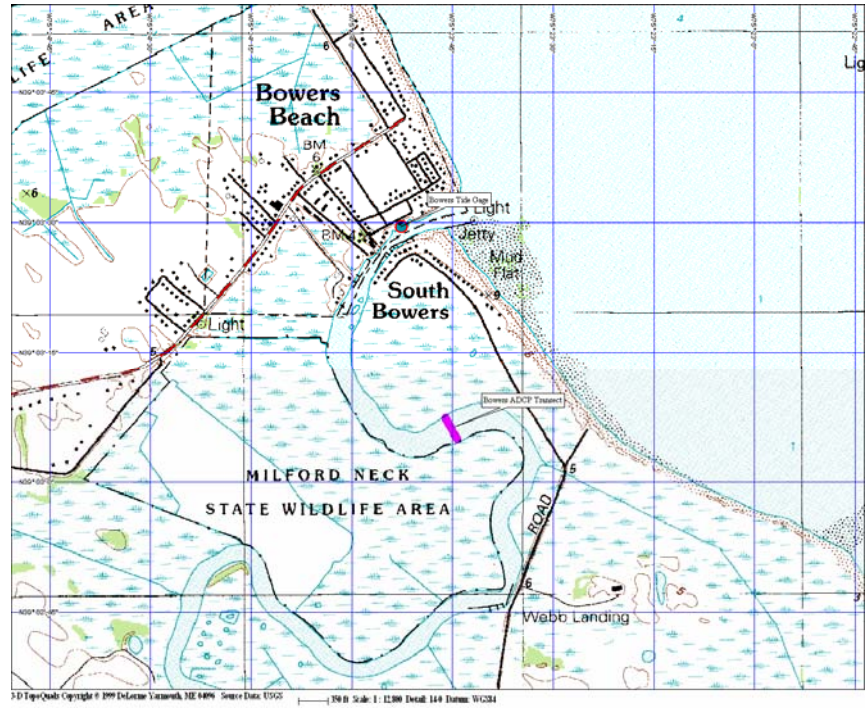
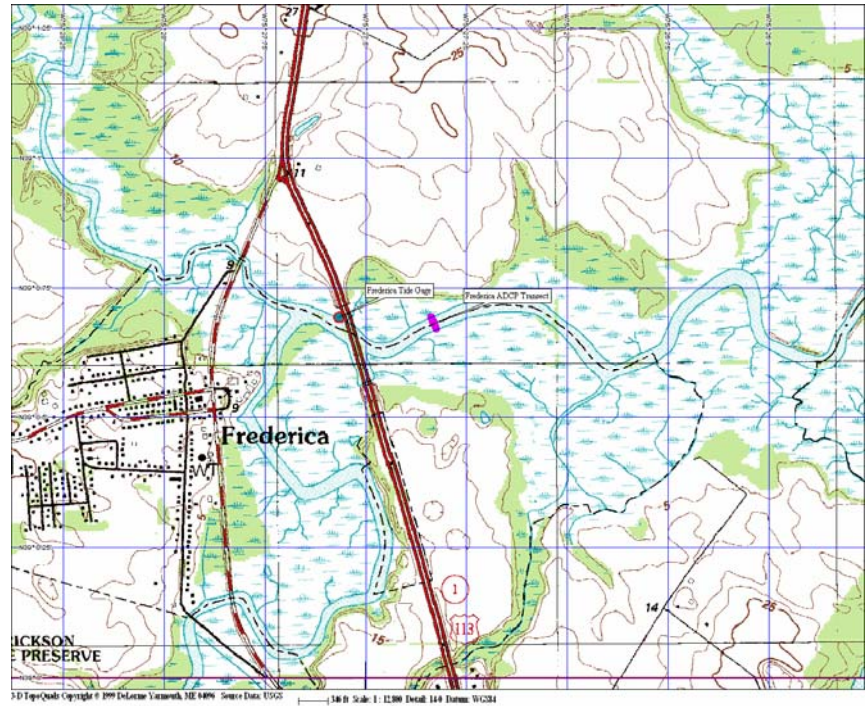


Figure 3.2 - Location of Frederica ADCP Transect Survey



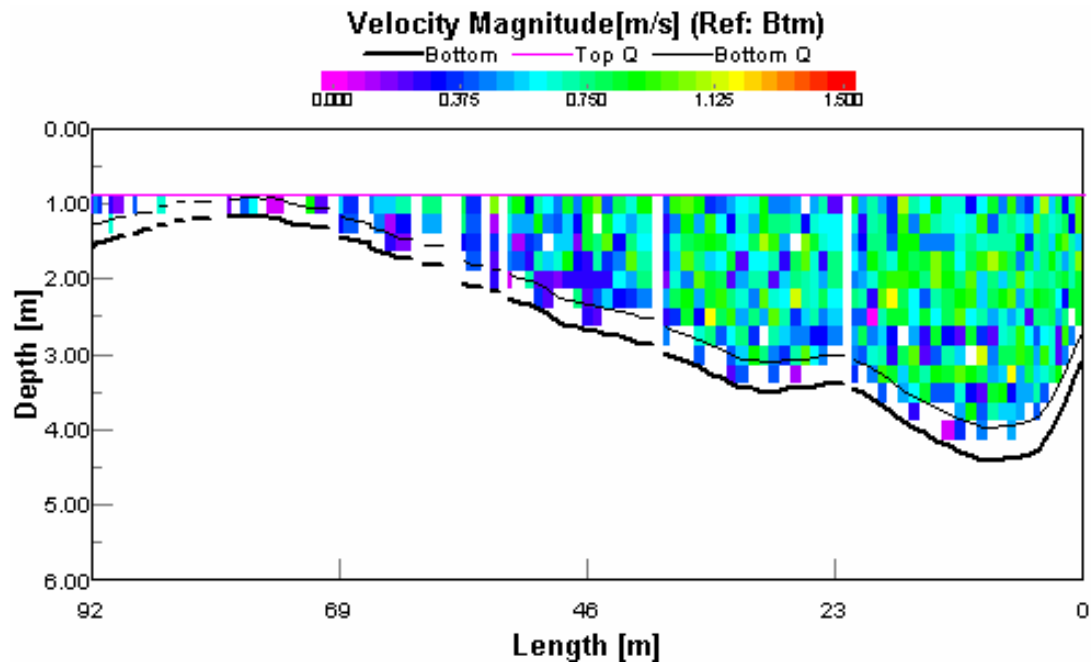
Some of the results of the September 21, 2002 ADCP survey are shown in Figures 3.3 through 3.6. These figures show profiles of stream cross-section and tidal velocity at various points (cells) within a transect. The magnitude of tidal velocity is represented by the color of the pixel covering the cell which ranges from 0.0 meters per second (purple color) to 1.5 meters per second (red color). Figure 3.3 presents survey results at Bowers Beach at 15:19 hour. During that time, tidal velocity and discharge flow were near their maximums. Figure 3.4 shows similar information at Bowers Beach site at 18:23 hour, when tidal velocity and discharge flow was low. Similar figures for the Frederica site are shown in Figures 3.5 and 3.6. A detailed report of the 2002 Murderkill River ADCP survey methodology and findings can be found in Reference (7).

The results of the 2002 ADCP survey revealed that the Murderkill River WASP Model, in fact, underestimated stream cross-sectional areas, tidal currents, and discharge flows for the lower Murderkill River. To correct this error, HydroQual, Inc. was contracted to update and recalibrate the model using the information obtained during the above ADCP surveys.

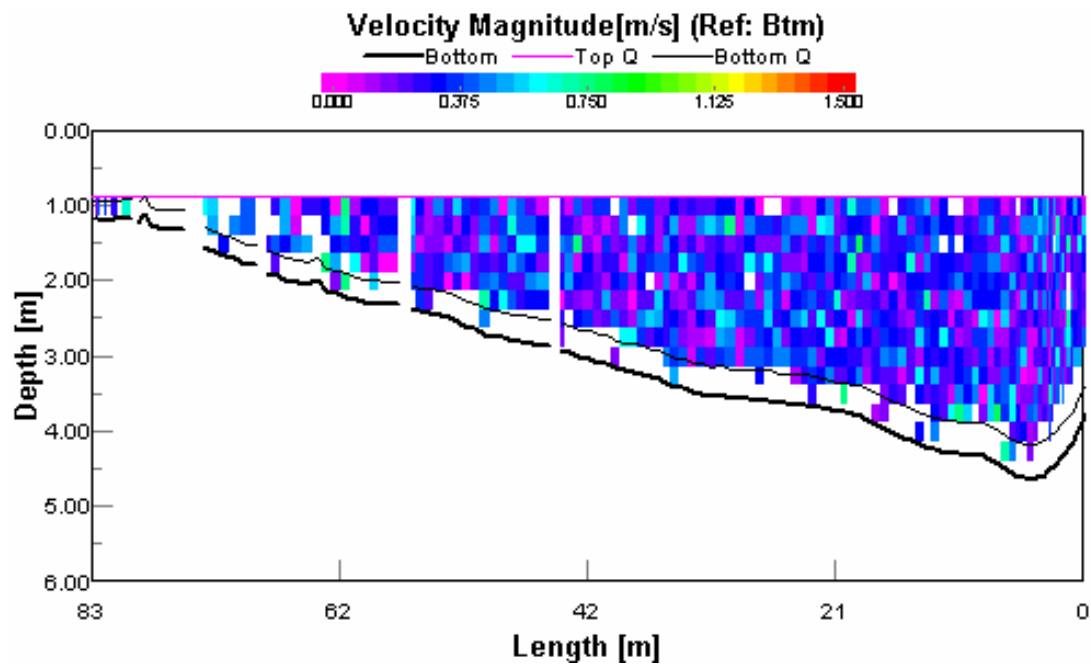
3.3 MODIFICATION OF THE MURDERKILL RIVER WASP MODEL

Details of HydroQual's model revisions/modifications are in Reference 8. Model modification was achieved by adjusting physical dimensions (width, depth) of the lower Murderkill River according to the 2002 ADCP survey results. In addition, some of the model parameters were adjusted in order to produce better calibration results. Figure 3.7 compares cross-sectional areas of the lower Murderkill River segments in the original WASP model and in the modified model. Segment (channel) numbers correspond to the Murderkill River WASP Model segmentation scheme as shown in Figure 3.8. Segment 1 of the model is at Bowers Beach, segment 7 is at the location where the gut receiving Kent County Facility's discharge confluent with the Murderkill River, and Segment 9 is at Frederica, Route 1 Bridge. As it can be seen from Figure 3.7, cross sectional areas of the lower Murderkill River segments in the modified model are increased in accordance with the 2002 ADCP survey results.

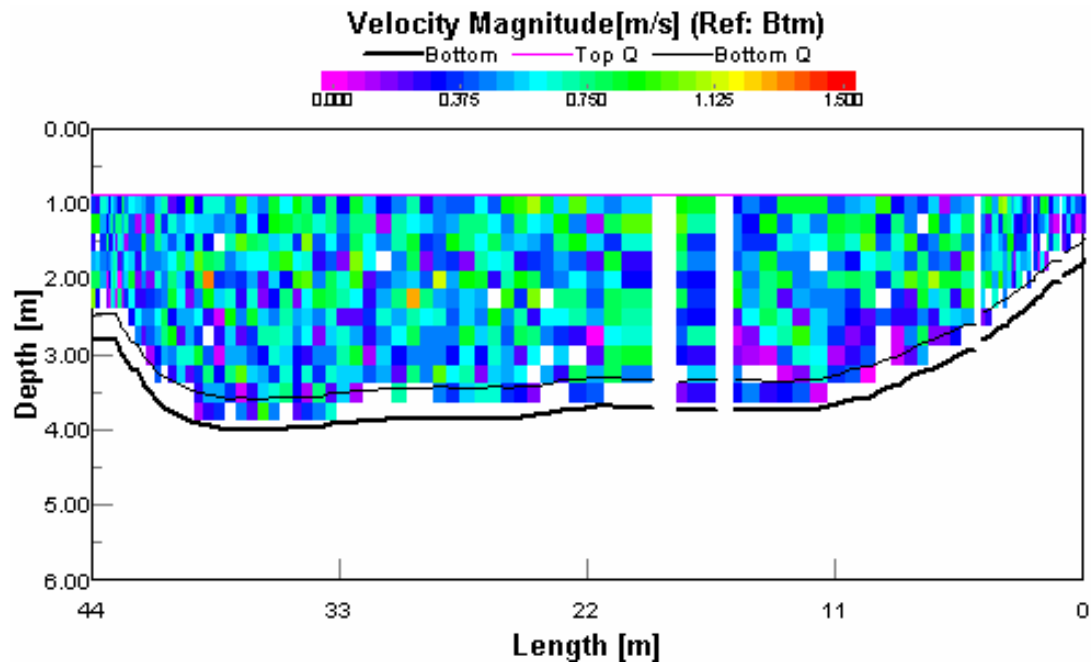
**Figure 3.3 - ADCP Survey - Murderkill River at Bowers Beach
Stream Transect Looking Downstream (9/21/2002 at 15:19)**



**Figure 3.4 - ADCP Survey - Murderkill River at Bowers Beach
Stream Transect Looking Downstream (9/21/2002 at 18:23)**



**Figure 3.5 - ADCP Survey - Murderkill River at Frederica
Stream Transect Looking Downstream (9/21/2002 at 15:55)**



**Figure 3.6 - ADCP Survey - Murderkill River at Frederica
Stream Transect Looking Downstream (9/21/2002 at 12:53)**

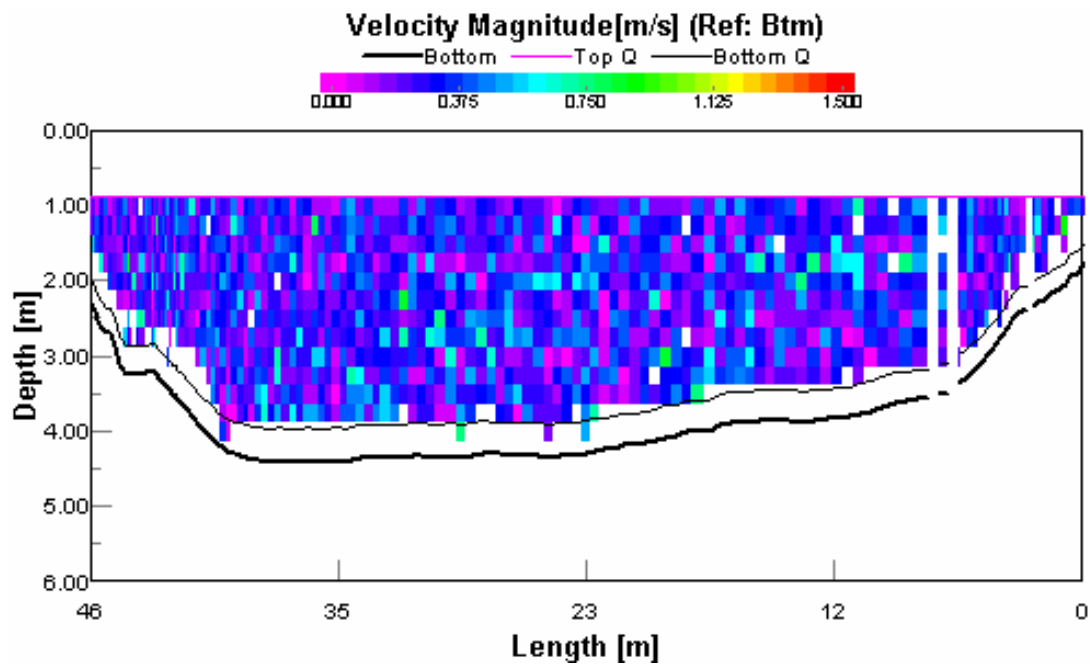


Figure 3.7 - Stream Cross-Sectional Area at Several Segments of the Lower Murderkill River (As Considered in the Original vs. Modified WASP Model)

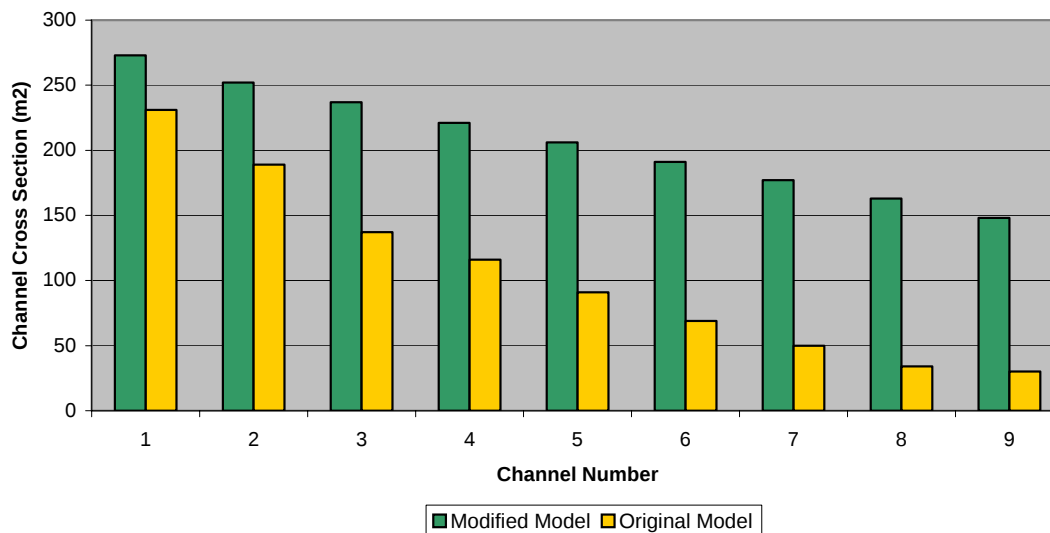
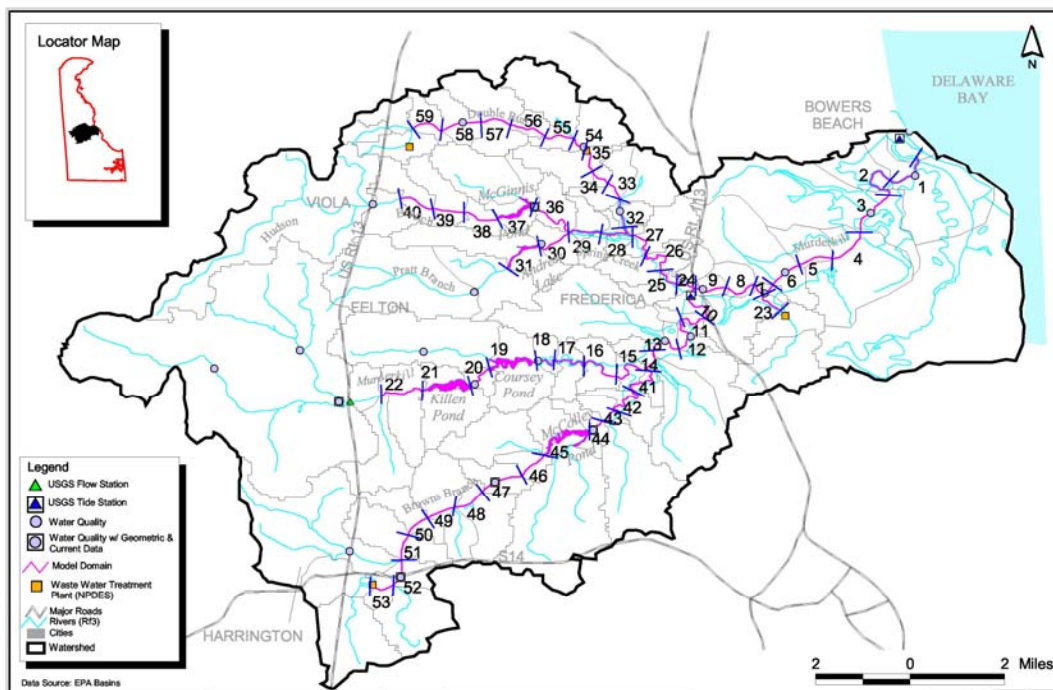


Figure 3.8 - Murderkill River WASP Model Segmentation Scheme

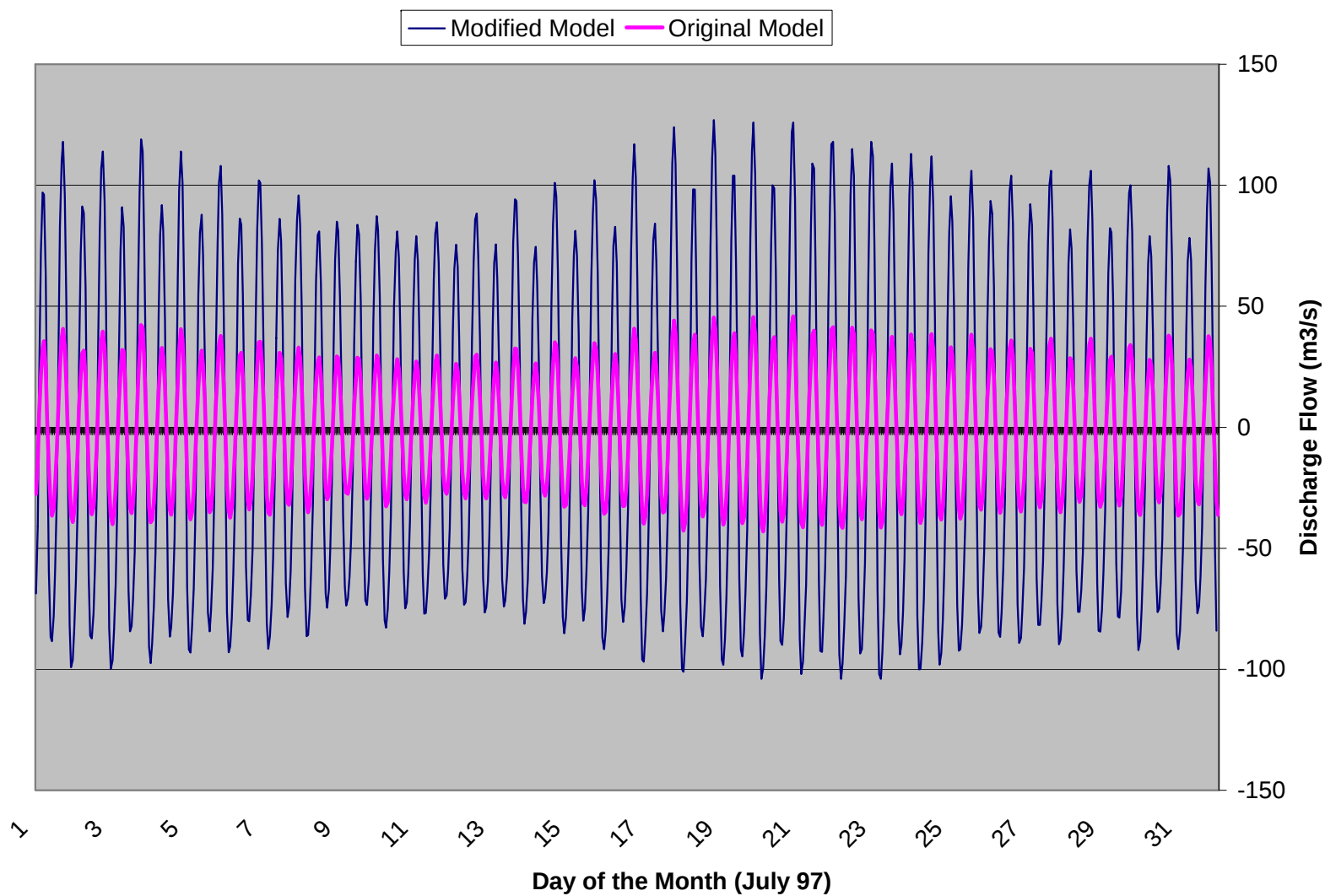


As the result of increasing cross-sectional areas of the lower Murderkill River segments, the modified WASP model estimates higher discharge flows. Figure 3.9 compares discharge flows at Bowers Beach (segment 1 of the model) as estimated by the original WASP model (the thick purple lines) and the modified model (the thin blue lines) for the month of July 1997. July '97 represents critical (design) condition for the Murderkill River Watershed (3). Days of the month are shown on the horizontal axis of the graph and stream discharge flows are shown on the vertical axis. As can be seen from this figure, the original model estimated maximum stream discharge flow during the month of July 97 to be about 45 cubic meters per second (cms), while the modified model estimates it to be more than 125 cms. The new estimates for the discharge flow at Bowers Beach are in better agreement with the results of the 2002 ADCP survey.

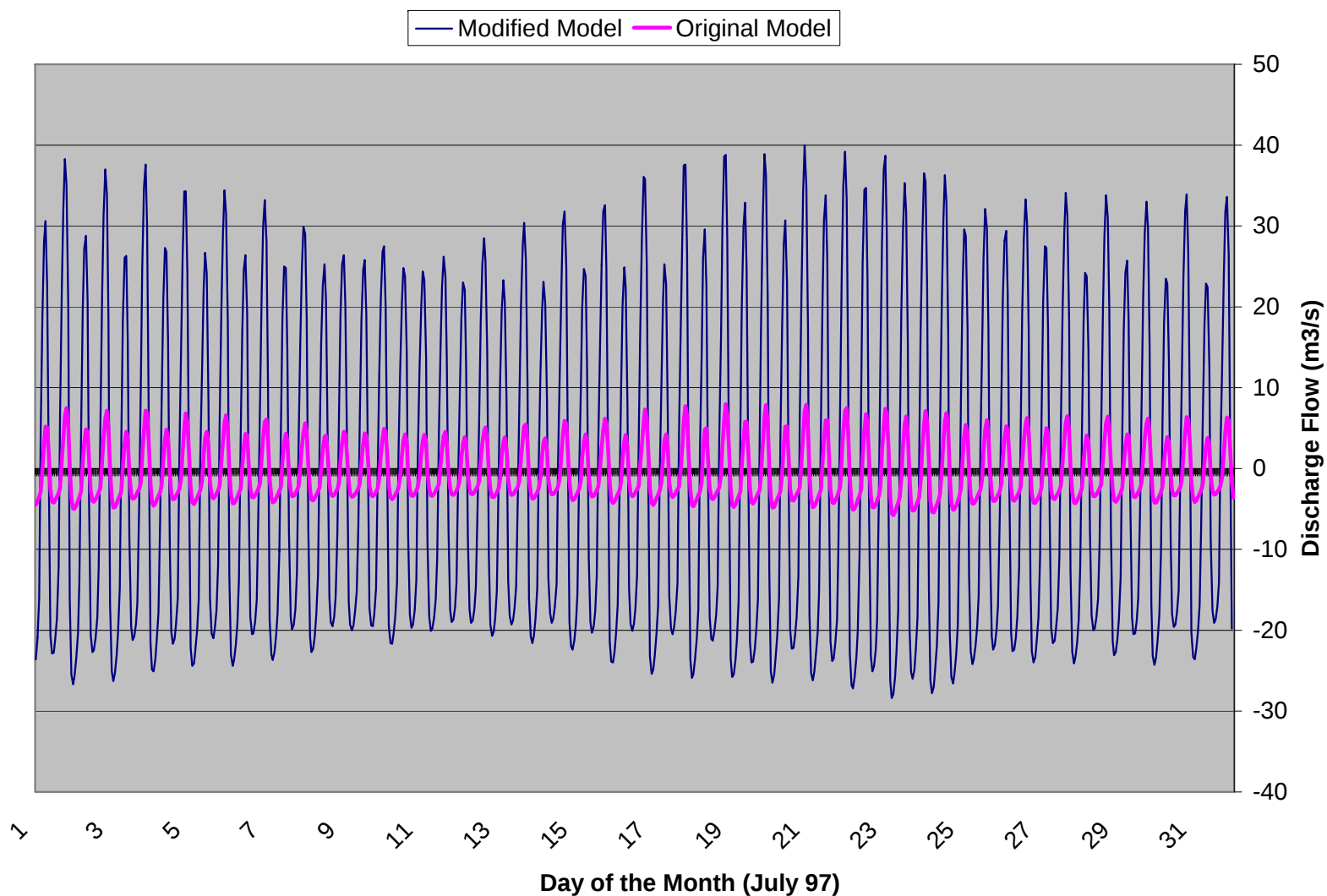
Similar conclusions can be reached by reviewing Figure 3.10 where stream discharge at the Route 113 Bridge at Frederica is compared using the results of the original WASP model versus the modified model. Here again, the results of the modified model are in better agreement with the 2002 ADCP survey.

Following a successful modification and recalibration of the Murderkill River WASP Model, the modified model was used by DNREC to reevaluate the Murderkill River TMDLs by considering several loading scenarios. The result of this reevaluation analysis is presented in Chapter 4 of this report.

**Figure 3.9 – Comparison of Stream Discharge Flow at Bowers Beach (Segment 1) During the Month of July 97
(Original vs. Modified WASP Model)**



**Figure 3.10 – Comparison of Stream Discharge Flow at Frederica, Rt. 1 Bridge (Segment 9) During the Month of July 97
(Original vs. Modified WASP Model)**



CHAPTER 4

4.1 THE PROPOSED AMENDED TMDL ANALYSIS

As part of the Murderkill River TMDL reevaluation analysis, and in order to see if updating the Murderkill River WASP Model and increasing river cross sections and discharge flows would necessitate amending the 2001 TMDL regulation, more than twenty loading scenarios were considered and analyzed. Table 4.1 is a partial list of scenarios considered for this analysis which included several loading conditions for the Kent County Facility, eliminating Harrington discharge, considering a seasonal discharge from Harrington Facility, and providing sewer service to an area in the northwestern part of the watershed, which is currently served by failing septic tank systems.

Following a full evaluation of loading scenarios considered during this analysis, the loading condition of Scenario 25 was selected as the basis for the amended TMDLs for the Murderkill River Watershed. This scenario considers that the Kent County Facility is discharging 15 million gallons per day (mgd) of wastewater treated to meet the following concentrations:

CBOD5 = 8.0 mg/l

D.O. = 7.0 mg/l

Total Nitrogen = 6.0 mg/l

Total Phosphorous = 0.5 mg/l

Furthermore, this scenario considers that:

- Harrington STP is discharging 0.75 mgd of treated wastewater into the headwaters of Browns Branch (only during winter season).
- Waste Load Allocations for Canterbury Crossing is the same as the 2001 TMDL Regulation.
- Load Allocations for nonpoint sources within the watershed are the same as the 2001 TMDL Regulation.

Table 4.1- Loading Scenarios Considered During TMDL Amendment Analysis

SCN. No.	SCENARIO NAME	DESCRIPTION	COMMENT
1	01_Baseline	Same as the revised calibrated model except discharge from the West Farm facility was turned off. Flow and load from this facility were set to zero and sediment flux rates at the site were changed accordingly	
2	02_Permitted	Based on Scenario 01_Baseline. For this scenario, it was assumed that the four point source facilities were discharging according to their permitted loads and flows. Nonpoint Source loads were kept the same as in the revised calibrated model	
3	03_TMDL	Based on Scenario 02_Permitted except it is considered that point and nonpoint source loads are the same as in the 2001 TMDL Regulation	
4	04_TMDL with changed BC at DE Bay	Based on 03_TMDL except the downstream Boundary Condition (BC) was adjusted in order to reduce the sharp gradient of N and P concentrations along the Lower Murderkill River segments.	Results showed a more reasonable gradient of DO, TN, and TP. The new BC will be used for future scenario runs.
7	07_WLA Relaxed4 for KC	Based on Scenario 04_TMDL. For this scenario, it was assumed that effluent concentrations for the Kent County Facility are: CBOD5= 8 mg/l, TN= 6 mg/l, and TP=0.45 mg/l.	The results showed that water quality standards and nutrient targets are met.
9	09_Turnoff Harrington on Relaxed4	This scenario was run to investigate the water quality benefits of the lower Murderkill River when the Harrington discharge is eliminated. Based on Scenario 07_WLA Relaxed4.	
10	10_Moving Harrington's loads to KC	This scenario examined the possibility of adding Harrington's load to KC. Based on Scenario 09_Turnoff Harrington, it added Harrington's loads to the Kent County Facility.	
12	12_Septic load addition to Canterbury	This scenario considered the effect of septic tank discharges from the Walnut Shade area. Based on Scenario 07_WLA Relaxed4, estimated septic loads from the Walnut Shade area were added to the loads from the Canterbury Crossing facility.	
22	22_Turnoff Harrington and Relaxing KC further on TP	This scenario considers removal of the Harrington discharge and relaxing KC's TP further by increasing TP limit from 0.45 mg/l (as in 07_WLA Relaxed4 scenario) to 0.5 mg/l. BC at the headwater of Browns Branch was adjusted to reflect elimination of the Harrington facility. It was assumed that the water quality condition at the headwaters of Browns Branch (after removal of the Harrington discharge) was similar to the water quality conditions of nearby stream headwaters. This scenario is based on 07_WLA Relaxed4.	
25		Same as Scenario 22 except Harrington Facility is discharging 0.75 mgd of treated wastewater during winter months.	This scenario forms the basis for the Proposed Amended TMDL.

The model result for dissolved oxygen concentration under this loading scenario is shown in Figure 4.1. The figure is a bar chart showing concentration of dissolved oxygen at various segments of the Murderkill River WASP Model along Browns Branch and the lower Murderkill River. Average dissolved oxygen concentration during the month of July 97 (design condition) for the existing condition (calibration period) and scenario 25 (proposed amended TMDLs) is shown in this figure. In addition, a line identifying the State of Delaware's dissolved oxygen standard is shown. The D.O. standard for freshwater segments of the Murderkill River (segments 10 through 53) is 5.5 mg/l and for marine segments (segments 1 through 9) is 5.0 mg/l. As it can be seen from this figure, dissolved oxygen under this loading scenario improves considerably when compared to the existing conditions and meets all applicable water quality standards for freshwater and marine segments.

Similarly, Figures 4.2 and 4.3 compare model results for total nitrogen and total phosphorous under loading scenario 25 versus the existing condition. The existing condition is considered to be the long-term average nutrient (total nitrogen and total phosphorous) concentration during the calibration period (June 6, 1997 through January 12, 1998). In each figure, the concentration at various segments of Browns Branch and the lower Murderkill River is shown as bar charts. In addition, lines representing upper target levels for total nitrogen (3.0 mg/l) and total phosphorous (0.2 mg/l) are shown in the figures. The above two figures show that under the loading condition of Scenario 25, total nitrogen at all segments is below the upper target level of 3.0 mg/l. With regard to total phosphorous, the concentration at all segments, except segment 47, is below the upper target level of 0.2 mg/l. For segment 47, the concentration of total phosphorous is 0.235 mg/l, which is above the target level. However, since this exceedance is limited to a single segment with no apparent adverse downstream impact, the exceedance of the target value at this segment is considered acceptable.

Figure 4.1- Dissolved Oxygen Concentration in Browns Branch and Lower Murderkill River

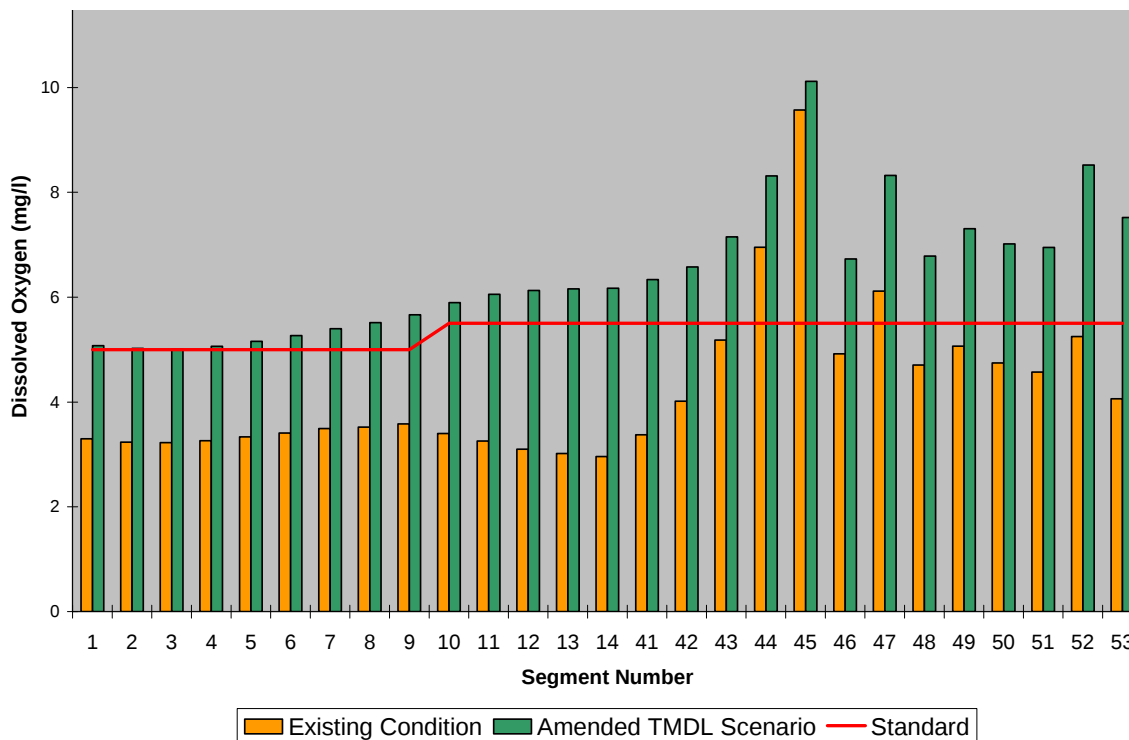


Figure 4.2 - Total Nitrogen Concentration in Browns Branch and Lower Murderkill River

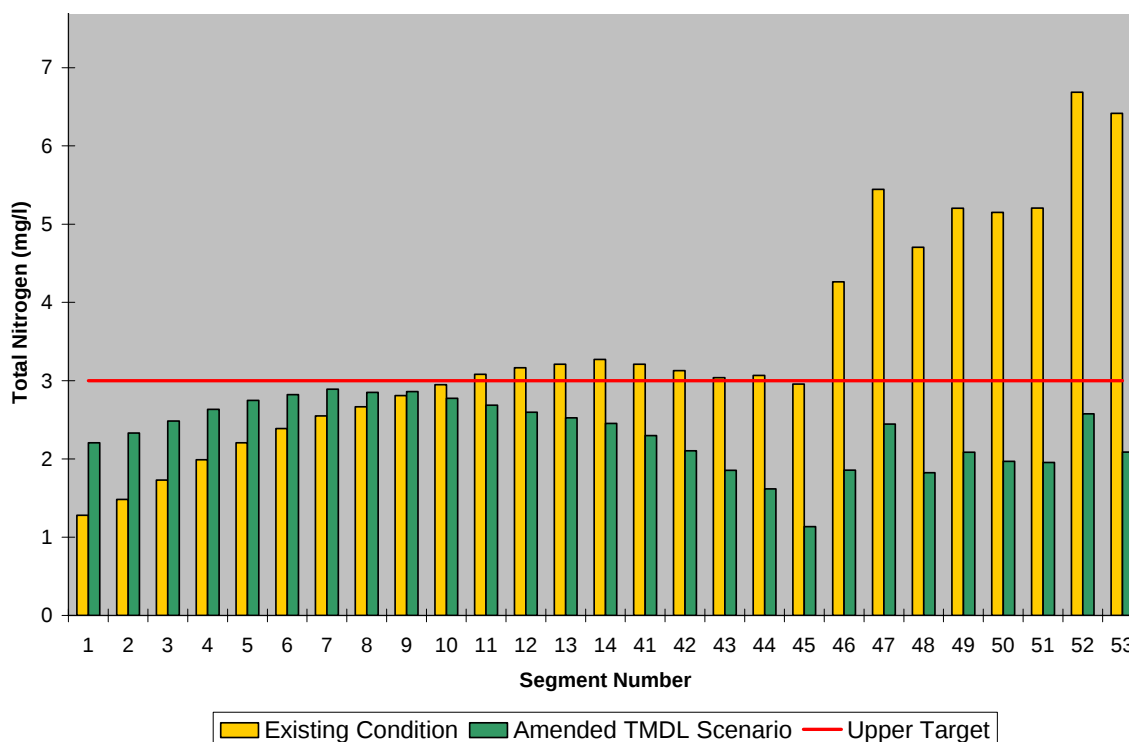
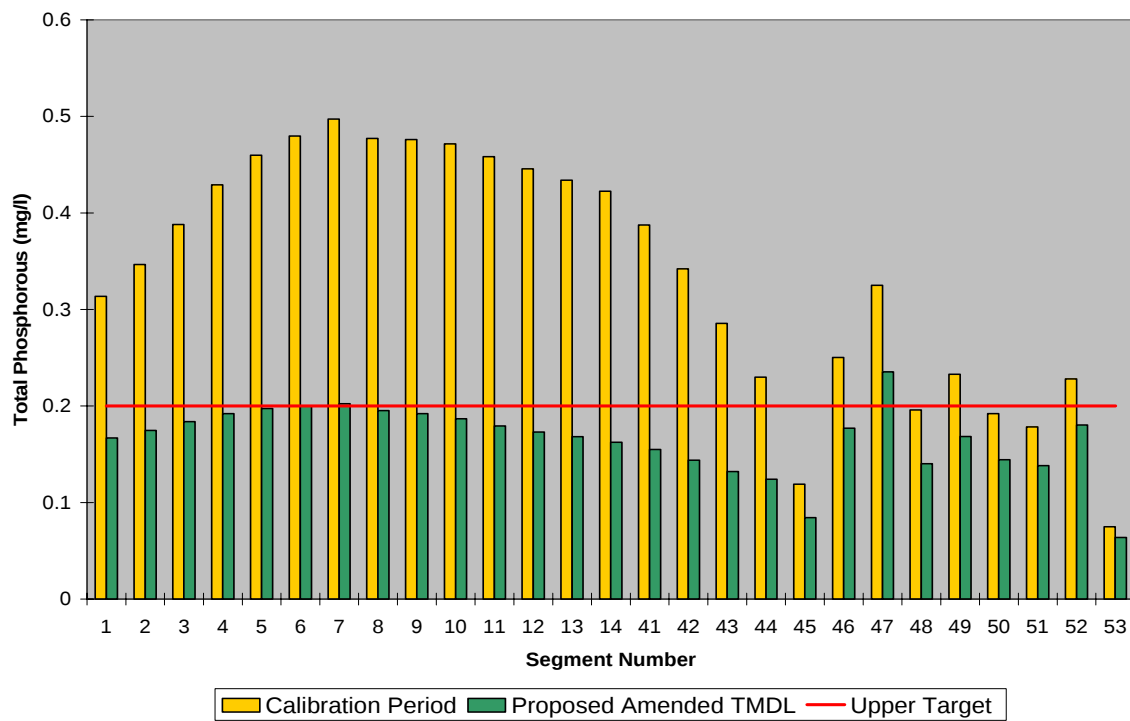


Figure 4.3 - Total Phosphorous Concentration in Browns Branch and Lower Murderkill River



Considering the above analysis, Scenario 25 will be used as the basis for amended TMDLs for the Murderkill River Watershed. The proposed amended TMDLs for the watershed including Load Allocation for nonpoint sources and Waste Load Allocations for various point sources are shown in Table 4.2.

Table 4.2 - Proposed Amended TMDLs for the Murderkill River Watershed

Source			Flow (mgd)	Total Nitrogen (lbs/d)	Total Phosphorous (lbs/d)	CBOD5 (lbs/d)
Load Allocation (LA) for Nonpoint Sources			-	560	96	-
Waste Load Allocation (WLA) for Point Sources	City of Harrington	During no discharge	0	0	0	0
		During seasonal discharge	0.750	140	0.75	37.5
	Kent County Facility		15	751	62.5	1001
	Canterbury Crossing Mobile Home Park		0.05	4.3	0.2	9.6
TMDL (When Harrington is not discharging)			-	1315.3	158.7	1010.6
TMDL (When Harrington is discharging)			-	1455.0	159.45	1048.1

Note - Although Table 4.2 lists both flows and loads for each point source facility in the Murderkill River Watershed, the pollutant loads are the important parameter effecting the water quality of the receiving streams, and should therefore be capped at the specified levels. As a result, if a facility, with the approval of the NPDES permitting authority, increases its permitted discharge flow, it may also have to treat its wastewater to higher degrees so that nutrients and CBOD5 loads discharged from the facility are capped at the levels specified in Table 4.2.

4.2 - DISCUSSION OF REGULATORY REQUIREMENTS FOR TMDLs

Federal regulations at 40 CFR Section 130 require that TMDLs meet the following eight minimum regulatory requirements:

1. The TMDLs must be designed to achieve applicable water quality standards.
2. The TMDLs must include the total allowable load as well as individual waste load allocations for point sources and load allocations for nonpoint sources.
3. The TMDLs must consider the impact of background pollutants.
4. The TMDLs must consider critical environmental conditions.
5. The TMDLs must consider seasonal variations.
6. The TMDLs must include a margin of safety.
7. The TMDLs must have been subject to public participation.
8. There should be a reasonable assurance that the TMDLs can be met.

As will be discussed in the following, the proposed amended TMDLs for the Murderkill River Watershed meet the above eight minimum regulatory requirements.

a. The proposed amended Murderkill River TMDLs are designed to achieve applicable water quality standards and nutrient targets.

As was stated in Chapter 1, the applicable water quality standard for dissolved oxygen is 5.5 mg/l for fresh waters and 5.0 mg/l for marine waters. The results of model analyses and scenario runs, as presented earlier, show that under the loading condition of Scenario 25, the D.O. standard is met in the entire Murderkill River system including its tributaries and ponds.

With regard to nutrients, the DNREC considers upper target levels of 3.0 mg/l for total nitrogen and 0.2 mg/l for total phosphorous. The results of model analysis and scenario runs for Scenario 25 indicate that these target levels are met in all segments of the Murderkill River system except a single headwater segment with little or no downstream detrimental impacts. Therefore, it can be concluded that the proposed amended TMDLs meet applicable water quality standards and nutrient target values.

b. The proposed amended TMDLs include the total allowable load as well as individual waste load allocations for point sources and load allocations for nonpoint sources.

As shown in Table 4.1, the proposed amended TMDL includes the total as well as individual waste load allocations for point source facilities within the watershed. In addition, the proposed amended TMDL includes load allocation for nonpoint sources.

c. The proposed amended TMDLs consider the impact of background pollutants.

The proposed amended Murderkill River TMDLs are established using a modified, calibrated and verified hydrodynamic and water quality model of the Murderkill River. The model was developed using extensive water quality and hydrologic data that included headwater streams representing background conditions for nutrients and other pollutants. Therefore, it can be concluded that the impact of background pollutants are considered in the proposed amended Murderkill River TMDLs.

d. The proposed amended Murderkill River TMDLs consider critical environmental conditions.

The proposed amended Murderkill River TMDLs were established based on the evaluation of water quality conditions of the river, its tributaries and ponds during the month of July, 1997. July 1997 was considered to represent the critical (design) condition for assessing the impact of nutrients and CBOD on the river's water quality. July 97 was a relatively dry month with stream flows well below their long-term annual average flows. In fact, the average flow during the month of July 97 at the USGS gauging station 01484000 on the Murderkill River at Felton was 3.37 cubic feet per second (cfs) with the minimum flow of 2.4 cfs. These flow rates are very close to the 7Q10 flow (the lowest 7-day average flow that occurs once in every ten years) of 1.8 cfs at this site. Also, the ambient air and water temperatures during this month were relatively high, contributing to the critical environmental conditions. The results of the water quality modeling analysis have shown that considering simultaneous occurrences of the above critical conditions, State water quality standards and targets are still being met in the entire Murderkill River system under loading Scenario 25. Therefore, it is

concluded that consideration of critical environmental conditions was incorporated in the proposed amended TMDL analysis.

e. The Murderkill River TMDLs consider seasonal variations.

As stated in previous chapters of this report, an updated hydrodynamic and water quality model of the Murderkill River, its tributaries and ponds was used to establish the proposed amended TMDLs. The model was calibrated for the period of 6/6/97 through 1/12/98 and was validated for the period of 3/6/98 through 9/30/98. The above calibration and validation periods cover several seasons with varying hydrological and environmental conditions. Therefore, it can be concluded that seasonal variations were considered in establishing the proposed amended TMDLs.

f. The Murderkill River TMDLs consider a margin of safety.

EPA's technical guidance allows consideration of a margin of safety as implicit or as explicit. Implicit margin of safety is when conservative assumptions are considered for model development and TMDL establishment. Explicit margin of safety is when a specified percentage of assimilative capacity is kept unassigned to account for uncertainties, lack of sufficient data, or future growth.

An implicit margin of safety has been considered for establishing the proposed amended TMDLs. The updated Murderkill River WASP Model is calibrated using conservative assumptions regarding reaction rates, pollutant loads, and other environmental conditions. Consideration of these conservative assumptions contributes to the implicit margin of safety. In addition, the proposed amended TMDLs consider that several critical conditions such as low stream flows, high temperatures, and maximum point source discharges occur simultaneously. Since the possibility of occurrence of these critical conditions at the same time is low, the above consideration contributes to the implicit margin of safety. Therefore, it can be concluded that an implicit margin of safety has been considered for the proposed amended TMDL analysis.

g. The proposed amended Murderkill River TMDLs have been subject to public participation.

The proposed amended Murderkill River TMDLs were presented to the Murderkill River Tributary Action Team on July 8, 2004. The Murderkill River Tributary Action Team was formed in April 2001 and is assisting DNREC with development of a Pollution Control Strategy for implementing the requirements of the TMDL Regulation for the watershed.

In addition, the proposed amended TMDL was presented to the general public during a workshop on August 12, 2004. Finally, a Public Hearing is scheduled for April 7, 2005 to solicit public input before adopting the proposed amendments as a new Regulation.

h. There should be a reasonable assurance that the Murderkill River TMDLs can be met.

The proposed amended Murderkill River TMDLs consider a reduction of nutrients and oxygen consuming pollutants (CBOD) from point and nonpoint sources. The magnitude of load reductions suggested by the proposed amended TMDLs is technically feasible and financially affordable.

Following the adoption of the proposed amended TMDLs, the Murderkill River Tributary Action Team (TAT) will assist the Department in developing a Pollution Control Strategy to implement the requirements of the Murderkill River TMDL Regulation. The DNREC is planning to finalize and adopt the Murderkill River Pollution Control Strategy within one year after formal adoption of the proposed amended TMDL Regulation.

REFERENCES

1. Secretary's Order No. 2001-A-0044 approving the Proposed Total Maximum Daily Loads (TMDLs) for the Murderkill River Watershed, November 15, 2001.
2. Total Maximum Daily Loads (TMDLs) for the Murderkill River Watershed, Delaware, Register of Regulations, Volume 5, Issue 6, Pages 1305-1307, December 1, 2001.
3. Technical Analysis for the Murderkill River TMDLs, Watershed Assessment Section, Division of Water Resources, Delaware Department of Natural Resources and Environmental Control, December 1, 2001.
4. A Model for the Murderkill River Watershed, HydroQual, Inc., February 2001.
5. State of Delaware Surface Water Quality Standards, as amended, July 11, 2004, Department of Natural Resources and Environmental Control.
6. The Water Quality Analysis Simulation Program, WASP5, Ambrose, R.B., T.A. Wool, and J.L. Martin, The Environmental Protection Agency, Office of Research and Development, Athens, Georgia, September 20, 1993.
7. Acoustic Doppler Current Profile Survey of the Tidal Murderkill River, Kent County, Delaware, conducted September 21 and 29, 2002, Rick Greene, Delaware Department of Natural Resources and Environmental Control, December 20, 2002.
8. Murderkill River WASP5 Model Modification Report from Andrew J. Thuman, HydroQual, Inc. to Hassan Mirsajadi, Delaware Department of Natural Resources and Environmental Control, April 16, 2003.

APPENDIX A

DYNHYD MODEL INPUT FILE FOR SCENARIO 25

DYNHY Murderkil River 1D Hydrodynamic Model

2002 ADCP geometry update

A: Program Control Data

66 60 0 10. 5 1. 0630 220. 0630

B: Output Control Data

1.0000	1.0000	66														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	
65	66															

C: Summary Control Data

1 1 0630 24 10 10

D: Junction Data

1	5.10	121489.58	1.70	1	0	0	0	0	0
2	5.10	116566.24	1.75	1	2	0	0	0	0
3	5.10	118892.53	1.80	2	3	0	0	0	0
4	5.10	108518.86	1.85	3	4	0	0	0	0
5	5.10	84149.08	1.90	4	5	0	0	0	0
6	5.10	65239.86	1.95	5	6	0	0	0	0
7	5.10	54407.33	2.00	6	7	0	0	0	0
8	5.10	52144.72	2.05	7	8	22	0	0	0
9	5.10	47081.37	2.10	8	9	0	0	0	0
10	5.10	65573.63	2.20	9	10	24	0	0	0
11	5.10	54323.27	2.50	10	11	0	0	0	0
12	5.10	47829.45	2.90	11	12	0	0	0	0
13	5.10	45092.80	3.35	12	13	0	0	0	0
14	5.10	38387.75	3.60	13	14	0	0	0	0
15	5.10	54458.86	3.60	14	15	41	0	0	0
16	5.10	43575.22	3.60	15	16	0	0	0	0
17	5.10	45102.89	3.60	16	17	0	0	0	0
18	5.10	37454.39	3.60	17	18	0	0	0	0
19	5.10	32818.64	3.60	18	0	0	0	0	0
20	7.56	235260.93	6.95	19	0	0	0	0	0
21	7.56	3506.46	7.06	19	0	0	0	0	0
22	10.30	303949.28	9.30	20	0	0	0	0	0
23	10.30	3506.46	9.80	20	21	0	0	0	0
24	10.31	3506.46	9.81	21	0	0	0	0	0
25	5.10	6143.87	3.23	22	23	0	0	0	0
26	5.10	2878.06	3.35	23	0	0	0	0	0
27	5.10	22830.11	3.10	24	25	0	0	0	0
28	5.10	26151.64	3.23	25	26	0	0	0	0
29	5.10	32756.47	3.48	26	27	0	0	0	0
30	5.21	40423.90	3.76	27	28	31	0	0	0
31	5.21	26447.41	3.86	28	29	0	0	0	0
32	5.22	41927.38	3.97	29	30	36	0	0	0
33	5.22	28962.98	4.02	30	0	0	0	0	0
34	8.92	70683.43	7.67	53	0	0	0	0	0
35	5.21	14976.03	3.91	31	32	0	0	0	0
36	5.22	8750.87	4.07	32	33	0	0	0	0
37	5.23	6433.19	4.18	33	34	0	0	0	0
38	5.28	5314.09	4.38	34	35	0	0	0	0
39	5.33	3488.94	4.63	35	55	0	0	0	0
40	5.22	28868.26	4.02	36	0	0	0	0	0
41	9.03	126845.89	7.69	37	0	0	0	0	0
42	9.03	4211.98	8.23	37	38	0	0	0	0
43	9.03	3524.37	8.38	38	39	0	0	0	0
44	9.05	2884.82	8.55	39	40	0	0	0	0
45	9.19	2932.89	8.69	40	0	0	0	0	0
46	5.10	45156.69	3.60	41	42	0	0	0	0
47	5.10	46167.89	3.60	42	43	0	0	0	0
48	5.10	31753.28	3.60	43	44	0	0	0	0
49	5.10	23092.53	3.60	44	0	0	0	0	0

50	8.69	198165.75	7.81	45	0	0	0	0	0
51	8.69	3306.77	8.19	45	46	0	0	0	0
52	8.69	3334.72	8.19	46	47	0	0	0	0
53	8.70	3035.89	8.20	47	48	0	0	0	0
54	8.72	2586.24	8.22	48	49	0	0	0	0
55	9.23	2508.05	8.73	49	50	0	0	0	0
56	9.76	2649.65	9.26	50	51	0	0	0	0
57	10.22	2539.82	9.72	51	52	0	0	0	0
58	10.71	2278.51	10.21	52	54	0	0	0	0
59	8.92	2932.89	8.42	53	0	0	0	0	0
60	10.91	2223.96	10.41	54	0	0	0	0	0
61	5.58	2457.19	5.03	55	56	0	0	0	0
62	6.08	2930.27	5.58	56	57	0	0	0	0
63	6.47	2977.93	5.97	57	58	0	0	0	0
64	6.69	3073.68	6.19	58	59	0	0	0	0
65	6.98	2794.07	6.48	59	60	0	0	0	0
66	7.22	2458.12	6.72	60	0	0	0	0	0

E: Channel Data

1	1425.81	80.77	3.40	315.00	0.050	-0.25	1	2
2	1554.49	75.89	3.30	90.00	0.050	-0.25	2	3
3	1658.67	72.23	3.30	0.00	0.050	-0.25	3	4
4	1417.76	68.58	3.20	45.00	0.050	-0.25	4	5
5	1094.79	64.92	3.20	90.00	0.050	-0.25	5	6
6	969.72	61.26	3.10	45.00	0.050	-0.25	6	7
7	857.71	57.60	3.10	45.00	0.050	-0.25	7	8
8	842.90	53.95	3.00	135.00	0.050	-0.25	8	9
9	968.21	50.29	3.00	135.00	0.050	-0.25	9	10
10	1225.38	47.24	2.80	45.00	0.050	-0.25	10	11
11	1148.52	44.19	2.40	0.00	0.050	-0.25	11	12
12	1091.27	41.15	2.00	45.00	0.050	-0.25	12	13
13	1188.62	38.10	1.50	90.00	0.050	-0.25	13	14
14	898.46	35.05	1.50	45.00	0.050	-0.25	14	15
15	1113.68	35.05	1.50	90.00	0.050	-0.25	15	16
16	1372.76	35.05	1.50	90.00	0.050	-0.25	16	17
17	1200.85	35.05	1.50	135.00	0.050	-0.25	17	18
18	936.33	35.05	1.50	90.00	0.050	-0.25	18	19
19	1164.24	202.07	0.61	45.00	0.050	-0.25	20	21
20	1385.08	219.45	1.00	90.00	0.050	-0.25	22	23
21	1150.47	3.05	0.50	90.00	0.050	-0.25	23	24
22	882.09	10.67	2.00	315.00	0.050	-0.25	8	25
23	944.29	3.05	1.75	315.00	0.050	-0.25	25	26
24	848.48	28.95	2.00	135.00	0.050	-0.25	10	27
25	728.48	28.95	2.00	135.00	0.050	-0.25	27	28
26	1077.91	28.95	1.75	180.00	0.050	-0.25	28	29
27	1184.70	28.95	1.50	135.00	0.050	-0.25	29	30
28	928.05	28.95	1.40	90.00	0.050	-0.25	30	31
29	898.77	28.95	1.30	90.00	0.050	-0.25	31	32
30	1000.29	28.95	1.20	45.00	0.050	-0.25	32	33
31	1075.84	18.29	1.40	135.00	0.050	-0.25	30	35
32	936.73	10.97	1.20	180.00	0.050	-0.25	35	36
33	658.36	10.97	1.10	135.00	0.050	-0.25	36	37
34	771.40	7.31	1.00	135.00	0.050	-0.25	37	38
35	681.56	7.31	0.80	135.00	0.050	-0.25	38	39
36	1262.89	22.86	1.20	135.00	0.050	-0.25	32	40
37	1089.48	116.43	1.34	90.00	0.050	-0.25	41	42
38	921.30	4.57	0.80	90.00	0.050	-0.25	42	43
39	930.74	3.05	0.50	135.00	0.050	-0.25	43	44
40	962.28	3.05	0.50	90.00	0.050	-0.25	44	45
41	1095.33	35.05	1.50	45.00	0.050	-0.25	15	46
42	1481.35	35.05	1.50	45.00	0.050	-0.25	46	47
43	1153.03	35.05	1.50	45.00	0.050	-0.25	47	48
44	658.84	35.05	1.50	45.00	0.050	-0.25	48	49
45	1395.24	142.03	0.88	45.00	0.050	-0.25	50	51

46	1084.95	3.05	0.50	45.00	0.050	-0.25	51	52
47	1103.29	3.05	0.50	45.00	0.050	-0.25	52	53
48	888.86	3.05	0.50	45.00	0.050	-0.25	53	54
49	808.23	3.05	0.50	45.00	0.050	-0.25	54	55
50	837.55	3.05	0.50	0.00	0.050	-0.25	55	56
51	901.15	3.05	0.50	0.00	0.050	-0.25	56	57
52	765.48	3.05	0.50	45.00	0.050	-0.25	57	58
53	1177.22	60.04	1.25	45.00	0.050	-0.25	34	59
54	729.68	3.05	0.50	0.00	0.050	-0.25	58	60
55	653.70	3.05	0.60	90.00	0.050	-0.25	39	61
56	958.71	3.05	0.50	135.00	0.050	-0.25	61	62
57	964.13	3.05	0.50	90.00	0.050	-0.25	62	63
58	989.99	3.05	0.50	45.00	0.050	-0.25	63	64
59	1026.96	3.05	0.50	90.00	0.050	-0.25	64	65
60	806.51	3.05	0.50	90.00	0.050	-0.25	65	66

CONSTANT INFLOW DATA

0

VARIABLE INFLOW DATA

66

	1	221									
1	0 0	-.007	2	0 0	-.007	3	0 0	-.006	4	0 0	-.006
5	0 0	-.005	6	0 0	-.005	7	0 0	-.005	8	0 0	-.005
9	0 0	-.005	10	0 0	-.005	11	0 0	-.004	12	0 0	-.004
13	0 0	-.005	14	0 0	-.012	15	0 0	-.005	16	0 0	-.004
17	0 0	-.004	18	0 0	-.003	19	0 0	-.003	20	0 0	-.003
21	0 0	-.003	22	0 0	-.003	23	0 0	-.003	24	0 0	-.002
25	0 0	-.002	26	0 0	-.002	27	0 0	-.003	28	0 0	-.003
29	0 0	-.002	30	0 0	-.002	31	0 0	-.002	32	0 0	-.002
33	0 0	-.002	34	0 0	-.002	35	0 0	-.002	36	0 0	-.002
37	0 0	-.002	38	0 0	-.002	39	0 0	-.002	40	0 0	-.002
41	0 0	-.002	42	0 0	-.002	43	0 0	-.001	44	0 0	-.002
45	0 0	-.002	46	0 0	-.002	47	0 0	-.002	48	0 0	-.002
49	0 0	-.005	50	0 0	-.003	51	0 0	-.002	52	0 0	-.002
53	0 0	-.002	54	0 0	-.002	55	0 0	-.001	56	0 0	-.001
57	0 0	-.001	58	0 0	-.001	59	0 0	-.001	60	0 0	-.001
61	0 0	-.002	62	0 0	-.002	63	0 0	-.001	64	0 0	-.001
65	0 0	-.002	66	0 0	-.002	67	0 0	-.002	68	0 0	-.002
69	0 0	-.002	70	0 0	-.002	71	0 0	-.001	72	0 0	-.002
73	0 0	-.002	74	0 0	-.002	75	0 0	-.002	76	0 0	-.027
77	0 0	-.177	78	0 0	-.050	79	0 0	-.014	80	0 0	-.008
81	0 0	-.006	82	0 0	-.005	83	0 0	-.005	84	0 0	-.005
85	0 0	-.005	86	0 0	-.005	87	0 0	-.004	88	0 0	-.005
89	0 0	-.004	90	0 0	-.004	91	0 0	-.004	92	0 0	-.004
93	0 0	-.004	94	0 0	-.004	95	0 0	-.003	96	0 0	-.004
97	0 0	-.005	98	0 0	-.005	99	0 0	-.004	100	0 0	-.004
101	0 0	-.004	102	0 0	-.003	103	0 0	-.003	104	0 0	-.003
105	0 0	-.003	106	0 0	-.003	107	0 0	-.003	108	0 0	-.002
109	0 0	-.002	110	0 0	-.002	111	0 0	-.002	112	0 0	-.002
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117	0 0	-.002	118	0 0	-.002	119	0 0	-.002	120	0 0	-.002
121	0 0	-.002	122	0 0	-.002	123	0 0	-.002	124	0 0	-.002
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141	0 0	-.001	142	0 0	-.004	143	0 0	-.004	144	0 0	-.007
145	0 0	-.002	146	0 0	-.002	147	0 0	-.002	148	0 0	-.001
149	0 0	-.005	150	0 0	-.005	151	0 0	-.003	152	0 0	-.002
153	0 0	-.002	154	0 0	-.002	155	0 0	-.005	156	0 0	-.033
157	0 0	-.057	158	0 0	-.036	159	0 0	-.017	160	0 0	-.012
161	0 0	-.010	162	0 0	-.022	163	0 0	-.028	164	0 0	-.019
165	0 0	-.014	166	0 0	-.012	167	0 0	-.010	168	0 0	-.010
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173	0 0	-.014	174	0 0	-.012	175	0 0	-.011	176	0 0	-.010
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181	0 0	-.009	182	0 0	-.010	183	0 0	-.010	184	0 0	-.009
185	0 0	-.009	186	0 0	-.008	187	0 0	-.008	188	0 0	-.009
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193	0 0	-.007	194	0 0	-.007	195	0 0	-.007	196	0 0	-.007
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201	0 0	-.009	202	0 0	-.008	203	0 0	-.015	204	0 0	-.013
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217	0 0	-.011	218	0 0	-.011	219	0 0	-.010	220	0 0	-.009
221	0 0	-.008									
	2	221									
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9	0 0	-.040	10	0 0	-.039	11	0 0	-.034	12	0 0	-.033
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17	0 0	-.029	18	0 0	-.026	19	0 0	-.023	20	0 0	-.021
21	0 0	-.022	22	0 0	-.027	23	0 0	-.021	24	0 0	-.020
25	0 0	-.019	26	0 0	-.019	27	0 0	-.020	28	0 0	-.020
29	0 0	-.018	30	0 0	-.016	31	0 0	-.016	32	0 0	-.017
33	0 0	-.016	34	0 0	-.016	35	0 0	-.020	36	0 0	-.016
37	0 0	-.015	38	0 0	-.014	39	0 0	-.013	40	0 0	-.013
41	0 0	-.013	42	0 0	-.012	43	0 0	-.012	44	0 0	-.018
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73	0 0	-.014	74	0 0	-.014	75	0 0	-.014	76	0 0	-.212
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93	0 0	-.029	94	0 0	-.028	95	0 0	-.028	96	0 0	-.029
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153	0 0	-.014	154	0 0	-.015	155	0 0	-.037	156	0 0	-.262
157	0 0	-.454	158	0 0	-.291	159	0 0	-.138	160	0 0	-.099
161	0 0	-.084	162	0 0	-.178	163	0 0	-.227	164	0 0	-.148
165	0 0	-.109	166	0 0	-.094	167	0 0	-.084	168	0 0	-.079
169	0 0	-.079	170	0 0	-.217	171	0 0	-.222	172	0 0	-.143
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189	0 0	-.079	190	0 0	-.069	191	0 0	-.064	192	0 0	-.059
193	0 0	-.059	194	0 0	-.059	195	0 0	-.054	196	0 0	-.054

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	3	221									
1	0 0	-.017	2	0 0	-.016	3	0 0	-.014	4	0 0	-.013
5	0 0	-.012	6	0 0	-.012	7	0 0	-.011	8	0 0	-.011
9	0 0	-.012	10	0 0	-.011	11	0 0	-.010	12	0 0	-.009
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17	0 0	-.008	18	0 0	-.007	19	0 0	-.007	20	0 0	-.006
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153	0 0	-.004	154	0 0	-.004	155	0 0	-.011	156	0 0	-.075
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161	0 0	-.024	162	0 0	-.051	163	0 0	-.065	164	0 0	-.042
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169	0 0	-.023	170	0 0	-.062	171	0 0	-.064	172	0 0	-.041
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193	0 0	-.017	194	0 0	-.017	195	0 0	-.016	196	0 0	-.016
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221	0 0	-.018							
	4	221							
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	5	221							
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25	0 0	-.018	26	0 0	-.018	27	0 0	-.019	28	0 0	-.019
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37	0 0	-.015	38	0 0	-.014	39	0 0	-.013	40	0 0	-.012
41	0 0	-.012	42	0 0	-.012	43	0 0	-.011	44	0 0	-.017
45	0 0	-.013	46	0 0	-.012	47	0 0	-.013	48	0 0	-.017
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69	0 0	-.013	70	0 0	-.012	71	0 0	-.011	72	0 0	-.013
73	0 0	-.014	74	0 0	-.013	75	0 0	-.013	76	0 0	-.201
77	0 0	-1.338	78	0 0	-.379	79	0 0	-.108	80	0 0	-.061
81	0 0	-.046	82	0 0	-.042	83	0 0	-.039	84	0 0	-.039
85	0 0	-.041	86	0 0	-.037	87	0 0	-.034	88	0 0	-.034
89	0 0	-.034	90	0 0	-.031	91	0 0	-.029	92	0 0	-.028
93	0 0	-.028	94	0 0	-.027	95	0 0	-.026	96	0 0	-.027
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109	0 0	-.018	110	0 0	-.018	111	0 0	-.018	112	0 0	-.018
113	0 0	-.018	114	0 0	-.017	115	0 0	-.028	116	0 0	-.036
117	0 0	-.018	118	0 0	-.016	119	0 0	-.016	120	0 0	-.016
121	0 0	-.015	122	0 0	-.015	123	0 0	-.014	124	0 0	-.013
125	0 0	-.013	126	0 0	-.013	127	0 0	-.013	128	0 0	-.013
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153	0 0	-.014	154	0 0	-.014	155	0 0	-.035	156	0 0	-.248
157	0 0	-.431	158	0 0	-.276	159	0 0	-.131	160	0 0	-.094
161	0 0	-.080	162	0 0	-.168	163	0 0	-.215	164	0 0	-.140
165	0 0	-.103	166	0 0	-.089	167	0 0	-.080	168	0 0	-.075
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173	0 0	-.108	174	0 0	-.094	175	0 0	-.084	176	0 0	-.080
177	0 0	-.075	178	0 0	-.075	179	0 0	-.080	180	0 0	-.070
181	0 0	-.066	182	0 0	-.080	183	0 0	-.080	184	0 0	-.070
185	0 0	-.066	186	0 0	-.061	187	0 0	-.061	188	0 0	-.066
189	0 0	-.075	190	0 0	-.066	191	0 0	-.061	192	0 0	-.056
193	0 0	-.056	194	0 0	-.056	195	0 0	-.051	196	0 0	-.051
197	0 0	-.051	198	0 0	-.051	199	0 0	-.047	200	0 0	-.051
201	0 0	-.066	202	0 0	-.061	203	0 0	-.112	204	0 0	-.098
205	0 0	-.089	206	0 0	-.122	207	0 0	-.112	208	0 0	-.187
209	0 0	-.145	210	0 0	-.094	211	0 0	-.084	212	0 0	-.080
213	0 0	-.075	214	0 0	-.070	215	0 0	-.070	216	0 0	-.075
217	0 0	-.084	218	0 0	-.084	219	0 0	-.075	220	0 0	-.066
221	0 0	-.061									
	6	221									
1	0 0	-.014	2	0 0	-.013	3	0 0	-.012	4	0 0	-.011
5	0 0	-.011	6	0 0	-.010	7	0 0	-.010	8	0 0	-.010
9	0 0	-.010	10	0 0	-.009	11	0 0	-.008	12	0 0	-.008
13	0 0	-.010	14	0 0	-.023	15	0 0	-.011	16	0 0	-.008
17	0 0	-.007	18	0 0	-.006	19	0 0	-.005	20	0 0	-.005
21	0 0	-.005	22	0 0	-.007	23	0 0	-.005	24	0 0	-.005
25	0 0	-.005	26	0 0	-.005	27	0 0	-.005	28	0 0	-.005
29	0 0	-.004	30	0 0	-.004	31	0 0	-.004	32	0 0	-.004
33	0 0	-.004	34	0 0	-.004	35	0 0	-.005	36	0 0	-.004
37	0 0	-.004	38	0 0	-.003	39	0 0	-.003	40	0 0	-.003

41	0 0	-.003	42	0 0	-.003	43	0 0	-.003	44	0 0	-.004
45	0 0	-.003	46	0 0	-.003	47	0 0	-.003	48	0 0	-.004
49	0 0	-.010	50	0 0	-.006	51	0 0	-.004	52	0 0	-.004
53	0 0	-.003	54	0 0	-.003	55	0 0	-.003	56	0 0	-.003
57	0 0	-.003	58	0 0	-.003	59	0 0	-.003	60	0 0	-.003
61	0 0	-.003	62	0 0	-.003	63	0 0	-.003	64	0 0	-.003
65	0 0	-.003	66	0 0	-.003	67	0 0	-.003	68	0 0	-.003
69	0 0	-.003	70	0 0	-.003	71	0 0	-.003	72	0 0	-.003
73	0 0	-.003	74	0 0	-.003	75	0 0	-.003	76	0 0	-.051
77	0 0	-.342	78	0 0	-.097	79	0 0	-.027	80	0 0	-.016
81	0 0	-.012	82	0 0	-.011	83	0 0	-.010	84	0 0	-.010
85	0 0	-.010	86	0 0	-.009	87	0 0	-.009	88	0 0	-.009
89	0 0	-.009	90	0 0	-.008	91	0 0	-.007	92	0 0	-.007
93	0 0	-.007	94	0 0	-.007	95	0 0	-.007	96	0 0	-.007
97	0 0	-.009	98	0 0	-.010	99	0 0	-.008	100	0 0	-.008
101	0 0	-.007	102	0 0	-.006	103	0 0	-.006	104	0 0	-.005
105	0 0	-.005	106	0 0	-.005	107	0 0	-.005	108	0 0	-.005
109	0 0	-.005	110	0 0	-.005	111	0 0	-.005	112	0 0	-.005
113	0 0	-.005	114	0 0	-.004	115	0 0	-.007	116	0 0	-.009
117	0 0	-.005	118	0 0	-.004	119	0 0	-.004	120	0 0	-.004
121	0 0	-.004	122	0 0	-.004	123	0 0	-.004	124	0 0	-.003
125	0 0	-.003	126	0 0	-.003	127	0 0	-.003	128	0 0	-.003
129	0 0	-.003	130	0 0	-.003	131	0 0	-.003	132	0 0	-.005
133	0 0	-.005	134	0 0	-.004	135	0 0	-.004	136	0 0	-.007
137	0 0	-.005	138	0 0	-.003	139	0 0	-.003	140	0 0	-.003
141	0 0	-.003	142	0 0	-.008	143	0 0	-.008	144	0 0	-.013
145	0 0	-.004	146	0 0	-.003	147	0 0	-.003	148	0 0	-.003
149	0 0	-.010	150	0 0	-.010	151	0 0	-.005	152	0 0	-.004
153	0 0	-.003	154	0 0	-.004	155	0 0	-.009	156	0 0	-.063
157	0 0	-.110	158	0 0	-.070	159	0 0	-.033	160	0 0	-.024
161	0 0	-.020	162	0 0	-.043	163	0 0	-.055	164	0 0	-.036
165	0 0	-.026	166	0 0	-.023	167	0 0	-.020	168	0 0	-.019
169	0 0	-.019	170	0 0	-.053	171	0 0	-.054	172	0 0	-.035
173	0 0	-.027	174	0 0	-.024	175	0 0	-.022	176	0 0	-.020
177	0 0	-.019	178	0 0	-.019	179	0 0	-.020	180	0 0	-.018
181	0 0	-.017	182	0 0	-.020	183	0 0	-.020	184	0 0	-.018
185	0 0	-.017	186	0 0	-.016	187	0 0	-.016	188	0 0	-.017
189	0 0	-.019	190	0 0	-.017	191	0 0	-.016	192	0 0	-.014
193	0 0	-.014	194	0 0	-.014	195	0 0	-.013	196	0 0	-.013
197	0 0	-.013	198	0 0	-.013	199	0 0	-.012	200	0 0	-.013
201	0 0	-.017	202	0 0	-.016	203	0 0	-.029	204	0 0	-.025
205	0 0	-.023	206	0 0	-.031	207	0 0	-.029	208	0 0	-.048
209	0 0	-.037	210	0 0	-.024	211	0 0	-.022	212	0 0	-.020
213	0 0	-.019	214	0 0	-.018	215	0 0	-.018	216	0 0	-.019
217	0 0	-.022	218	0 0	-.022	219	0 0	-.019	220	0 0	-.017
221	0 0	-.016									
	7	221									
1	0 0	-.051	2	0 0	-.047	3	0 0	-.042	4	0 0	-.040
5	0 0	-.037	6	0 0	-.035	7	0 0	-.034	8	0 0	-.034
9	0 0	-.035	10	0 0	-.033	11	0 0	-.029	12	0 0	-.028
13	0 0	-.035	14	0 0	-.081	15	0 0	-.038	16	0 0	-.030
17	0 0	-.025	18	0 0	-.022	19	0 0	-.020	20	0 0	-.018
21	0 0	-.019	22	0 0	-.023	23	0 0	-.018	24	0 0	-.017
25	0 0	-.017	26	0 0	-.017	27	0 0	-.017	28	0 0	-.017
29	0 0	-.015	30	0 0	-.014	31	0 0	-.014	32	0 0	-.014
33	0 0	-.014	34	0 0	-.014	35	0 0	-.017	36	0 0	-.014
37	0 0	-.013	38	0 0	-.012	39	0 0	-.011	40	0 0	-.011
41	0 0	-.011	42	0 0	-.011	43	0 0	-.010	44	0 0	-.016
45	0 0	-.011	46	0 0	-.011	47	0 0	-.012	48	0 0	-.015
49	0 0	-.036	50	0 0	-.022	51	0 0	-.015	52	0 0	-.014
53	0 0	-.012	54	0 0	-.011	55	0 0	-.010	56	0 0	-.010
57	0 0	-.010	58	0 0	-.010	59	0 0	-.010	60	0 0	-.010
61	0 0	-.011	62	0 0	-.012	63	0 0	-.010	64	0 0	-.010

65	0 0	-.011	66	0 0	-.011	67	0 0	-.012	68	0 0	-.011
69	0 0	-.011	70	0 0	-.011	71	0 0	-.010	72	0 0	-.011
73	0 0	-.012	74	0 0	-.012	75	0 0	-.012	76	0 0	-.182
77	0 0	-1.213	78	0 0	-.344	79	0 0	-.098	80	0 0	-.055
81	0 0	-.042	82	0 0	-.038	83	0 0	-.035	84	0 0	-.035
85	0 0	-.037	86	0 0	-.033	87	0 0	-.031	88	0 0	-.031
89	0 0	-.031	90	0 0	-.028	91	0 0	-.026	92	0 0	-.025
93	0 0	-.025	94	0 0	-.024	95	0 0	-.024	96	0 0	-.025
97	0 0	-.034	98	0 0	-.036	99	0 0	-.027	100	0 0	-.028
101	0 0	-.024	102	0 0	-.023	103	0 0	-.020	104	0 0	-.020
105	0 0	-.020	106	0 0	-.020	107	0 0	-.019	108	0 0	-.017
109	0 0	-.016	110	0 0	-.017	111	0 0	-.017	112	0 0	-.017
113	0 0	-.016	114	0 0	-.015	115	0 0	-.025	116	0 0	-.032
117	0 0	-.017	118	0 0	-.015	119	0 0	-.014	120	0 0	-.014
121	0 0	-.014	122	0 0	-.013	123	0 0	-.013	124	0 0	-.011
125	0 0	-.011	126	0 0	-.011	127	0 0	-.012	128	0 0	-.011
129	0 0	-.011	130	0 0	-.012	131	0 0	-.012	132	0 0	-.016
133	0 0	-.016	134	0 0	-.013	135	0 0	-.015	136	0 0	-.025
137	0 0	-.018	138	0 0	-.011	139	0 0	-.010	140	0 0	-.010
141	0 0	-.009	142	0 0	-.029	143	0 0	-.029	144	0 0	-.047
145	0 0	-.016	146	0 0	-.012	147	0 0	-.011	148	0 0	-.010
149	0 0	-.035	150	0 0	-.036	151	0 0	-.020	152	0 0	-.014
153	0 0	-.012	154	0 0	-.013	155	0 0	-.032	156	0 0	-.225
157	0 0	-.390	158	0 0	-.250	159	0 0	-.119	160	0 0	-.085
161	0 0	-.072	162	0 0	-.153	163	0 0	-.195	164	0 0	-.127
165	0 0	-.093	166	0 0	-.081	167	0 0	-.072	168	0 0	-.068
169	0 0	-.068	170	0 0	-.187	171	0 0	-.191	172	0 0	-.123
173	0 0	-.098	174	0 0	-.085	175	0 0	-.076	176	0 0	-.072
177	0 0	-.068	178	0 0	-.068	179	0 0	-.072	180	0 0	-.064
181	0 0	-.059	182	0 0	-.072	183	0 0	-.072	184	0 0	-.064
185	0 0	-.059	186	0 0	-.055	187	0 0	-.055	188	0 0	-.059
189	0 0	-.068	190	0 0	-.059	191	0 0	-.055	192	0 0	-.051
193	0 0	-.051	194	0 0	-.051	195	0 0	-.047	196	0 0	-.047
197	0 0	-.047	198	0 0	-.047	199	0 0	-.042	200	0 0	-.047
201	0 0	-.059	202	0 0	-.055	203	0 0	-.102	204	0 0	-.089
205	0 0	-.081	206	0 0	-.110	207	0 0	-.102	208	0 0	-.170
209	0 0	-.131	210	0 0	-.085	211	0 0	-.076	212	0 0	-.072
213	0 0	-.068	214	0 0	-.064	215	0 0	-.064	216	0 0	-.068
217	0 0	-.076	218	0 0	-.076	219	0 0	-.068	220	0 0	-.059
221	0 0	-.055									
	8	221									
1	0 0	-.002	2	0 0	-.002	3	0 0	-.002	4	0 0	-.002
5	0 0	-.002	6	0 0	-.002	7	0 0	-.002	8	0 0	-.002
9	0 0	-.002	10	0 0	-.002	11	0 0	-.001	12	0 0	-.001
13	0 0	-.002	14	0 0	-.004	15	0 0	-.002	16	0 0	-.001
17	0 0	-.001	18	0 0	-.001	19	0 0	-.001	20	0 0	-.001
21	0 0	-.001	22	0 0	-.001	23	0 0	-.001	24	0 0	-.001
25	0 0	-.001	26	0 0	-.001	27	0 0	-.001	28	0 0	-.001
29	0 0	-.001	30	0 0	-.001	31	0 0	-.001	32	0 0	-.001
33	0 0	-.001	34	0 0	-.001	35	0 0	-.001	36	0 0	-.001
37	0 0	-.001	38	0 0	-.001	39	0 0	-.001	40	0 0	-.001
41	0 0	-.001	42	0 0	.000	43	0 0	.000	44	0 0	-.001
45	0 0	-.001	46	0 0	-.001	47	0 0	-.001	48	0 0	-.001
49	0 0	-.002	50	0 0	-.001	51	0 0	-.001	52	0 0	-.001
53	0 0	-.001	54	0 0	-.001	55	0 0	.000	56	0 0	.000
57	0 0	.000	58	0 0	.000	59	0 0	.000	60	0 0	.000
61	0 0	-.001	62	0 0	-.001	63	0 0	.000	64	0 0	.000
65	0 0	.000	66	0 0	-.001	67	0 0	-.001	68	0 0	-.001
69	0 0	-.001	70	0 0	.000	71	0 0	.000	72	0 0	-.001
73	0 0	-.001	74	0 0	-.001	75	0 0	-.001	76	0 0	-.009
77	0 0	-.057	78	0 0	-.016	79	0 0	-.005	80	0 0	-.003
81	0 0	-.002	82	0 0	-.002	83	0 0	-.002	84	0 0	-.002
85	0 0	-.002	86	0 0	-.002	87	0 0	-.001	88	0 0	-.001

89	0 0	-.001	90	0 0	-.001	91	0 0	-.001	92	0 0	-.001
93	0 0	-.001	94	0 0	-.001	95	0 0	-.001	96	0 0	-.001
97	0 0	-.002	98	0 0	-.002	99	0 0	-.001	100	0 0	-.001
101	0 0	-.001	102	0 0	-.001	103	0 0	-.001	104	0 0	-.001
105	0 0	-.001	106	0 0	-.001	107	0 0	-.001	108	0 0	-.001
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113	0 0	-.001	114	0 0	-.001	115	0 0	-.001	116	0 0	-.002
117	0 0	-.001	118	0 0	-.001	119	0 0	-.001	120	0 0	-.001
121	0 0	-.001	122	0 0	-.001	123	0 0	-.001	124	0 0	-.001
125	0 0	-.001	126	0 0	-.001	127	0 0	-.001	128	0 0	-.001
129	0 0	-.001	130	0 0	-.001	131	0 0	-.001	132	0 0	-.001
133	0 0	-.001	134	0 0	-.001	135	0 0	-.001	136	0 0	-.001
137	0 0	-.001	138	0 0	-.001	139	0 0	.000	140	0 0	.000
141	0 0	.000	142	0 0	-.001	143	0 0	-.001	144	0 0	-.002
145	0 0	-.001	146	0 0	-.001	147	0 0	.000	148	0 0	.000
149	0 0	-.002	150	0 0	-.002	151	0 0	-.001	152	0 0	-.001
153	0 0	-.001	154	0 0	-.001	155	0 0	-.001	156	0 0	-.011
157	0 0	-.018	158	0 0	-.012	159	0 0	-.006	160	0 0	-.004
161	0 0	-.003	162	0 0	-.007	163	0 0	-.009	164	0 0	-.006
165	0 0	-.004	166	0 0	-.004	167	0 0	-.003	168	0 0	-.003
169	0 0	-.003	170	0 0	-.009	171	0 0	-.009	172	0 0	-.006
173	0 0	-.005	174	0 0	-.004	175	0 0	-.004	176	0 0	-.003
177	0 0	-.003	178	0 0	-.003	179	0 0	-.003	180	0 0	-.003
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185	0 0	-.003	186	0 0	-.003	187	0 0	-.003	188	0 0	-.003
189	0 0	-.003	190	0 0	-.003	191	0 0	-.003	192	0 0	-.002
193	0 0	-.002	194	0 0	-.002	195	0 0	-.002	196	0 0	-.002
197	0 0	-.002	198	0 0	-.002	199	0 0	-.002	200	0 0	-.002
201	0 0	-.003	202	0 0	-.003	203	0 0	-.005	204	0 0	-.004
205	0 0	-.004	206	0 0	-.005	207	0 0	-.005	208	0 0	-.008
209	0 0	-.006	210	0 0	-.004	211	0 0	-.004	212	0 0	-.003
213	0 0	-.003	214	0 0	-.003	215	0 0	-.003	216	0 0	-.003
217	0 0	-.004	218	0 0	-.004	219	0 0	-.003	220	0 0	-.003
221	0 0	-.003									
	9		221								
1	0 0	-.009	2	0 0	-.008	3	0 0	-.008	4	0 0	-.007
5	0 0	-.007	6	0 0	-.006	7	0 0	-.006	8	0 0	-.006
9	0 0	-.006	10	0 0	-.006	11	0 0	-.005	12	0 0	-.005
13	0 0	-.006	14	0 0	-.014	15	0 0	-.007	16	0 0	-.005
17	0 0	-.004	18	0 0	-.004	19	0 0	-.003	20	0 0	-.003
21	0 0	-.003	22	0 0	-.004	23	0 0	-.003	24	0 0	-.003
25	0 0	-.003	26	0 0	-.003	27	0 0	-.003	28	0 0	-.003
29	0 0	-.003	30	0 0	-.002	31	0 0	-.002	32	0 0	-.003
33	0 0	-.002	34	0 0	-.002	35	0 0	-.003	36	0 0	-.002
37	0 0	-.002	38	0 0	-.002	39	0 0	-.002	40	0 0	-.002
41	0 0	-.002	42	0 0	-.002	43	0 0	-.002	44	0 0	-.003
45	0 0	-.002	46	0 0	-.002	47	0 0	-.002	48	0 0	-.003
49	0 0	-.006	50	0 0	-.004	51	0 0	-.003	52	0 0	-.002
53	0 0	-.002	54	0 0	-.002	55	0 0	-.002	56	0 0	-.002
57	0 0	-.002	58	0 0	-.002	59	0 0	-.002	60	0 0	-.002
61	0 0	-.002	62	0 0	-.002	63	0 0	-.002	64	0 0	-.002
65	0 0	-.002	66	0 0	-.002	67	0 0	-.002	68	0 0	-.002
69	0 0	-.002	70	0 0	-.002	71	0 0	-.002	72	0 0	-.002
73	0 0	-.002	74	0 0	-.002	75	0 0	-.002	76	0 0	-.033
77	0 0	-.216	78	0 0	-.061	79	0 0	-.017	80	0 0	-.010
81	0 0	-.007	82	0 0	-.007	83	0 0	-.006	84	0 0	-.006
85	0 0	-.007	86	0 0	-.006	87	0 0	-.005	88	0 0	-.006
89	0 0	-.005	90	0 0	-.005	91	0 0	-.005	92	0 0	-.005
93	0 0	-.004	94	0 0	-.004	95	0 0	-.004	96	0 0	-.004
97	0 0	-.006	98	0 0	-.006	99	0 0	-.005	100	0 0	-.005
101	0 0	-.004	102	0 0	-.004	103	0 0	-.004	104	0 0	-.003
105	0 0	-.003	106	0 0	-.003	107	0 0	-.003	108	0 0	-.003
109	0 0	-.003	110	0 0	-.003	111	0 0	-.003	112	0 0	-.003

113	0 0	-.003	114	0 0	-.003	115	0 0	-.004	116	0 0	-.006
117	0 0	-.003	118	0 0	-.003	119	0 0	-.003	120	0 0	-.003
121	0 0	-.002	122	0 0	-.002	123	0 0	-.002	124	0 0	-.002
125	0 0	-.002	126	0 0	-.002	127	0 0	-.002	128	0 0	-.002
129	0 0	-.002	130	0 0	-.002	131	0 0	-.002	132	0 0	-.003
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137	0 0	-.003	138	0 0	-.002	139	0 0	-.002	140	0 0	-.002
141	0 0	-.002	142	0 0	-.005	143	0 0	-.005	144	0 0	-.008
145	0 0	-.003	146	0 0	-.002	147	0 0	-.002	148	0 0	-.002
149	0 0	-.006	150	0 0	-.006	151	0 0	-.003	152	0 0	-.002
153	0 0	-.002	154	0 0	-.002	155	0 0	-.006	156	0 0	-.040
157	0 0	-.070	158	0 0	-.045	159	0 0	-.021	160	0 0	-.015
161	0 0	-.013	162	0 0	-.027	163	0 0	-.035	164	0 0	-.023
165	0 0	-.017	166	0 0	-.014	167	0 0	-.013	168	0 0	-.012
169	0 0	-.012	170	0 0	-.033	171	0 0	-.034	172	0 0	-.022
173	0 0	-.017	174	0 0	-.015	175	0 0	-.014	176	0 0	-.013
177	0 0	-.012	178	0 0	-.012	179	0 0	-.013	180	0 0	-.011
181	0 0	-.011	182	0 0	-.013	183	0 0	-.013	184	0 0	-.011
185	0 0	-.011	186	0 0	-.010	187	0 0	-.010	188	0 0	-.011
189	0 0	-.012	190	0 0	-.011	191	0 0	-.010	192	0 0	-.009
193	0 0	-.009	194	0 0	-.009	195	0 0	-.008	196	0 0	-.008
197	0 0	-.008	198	0 0	-.008	199	0 0	-.008	200	0 0	-.008
201	0 0	-.011	202	0 0	-.010	203	0 0	-.018	204	0 0	-.016
205	0 0	-.014	206	0 0	-.020	207	0 0	-.018	208	0 0	-.030
209	0 0	-.023	210	0 0	-.015	211	0 0	-.014	212	0 0	-.013
213	0 0	-.012	214	0 0	-.011	215	0 0	-.011	216	0 0	-.012
217	0 0	-.014	218	0 0	-.014	219	0 0	-.012	220	0 0	-.011
221	0 0	-.010									
	10	221									
1	0 0	-.005	2	0 0	-.004	3	0 0	-.004	4	0 0	-.004
5	0 0	-.004	6	0 0	-.003	7	0 0	-.003	8	0 0	-.003
9	0 0	-.003	10	0 0	-.003	11	0 0	-.003	12	0 0	-.003
13	0 0	-.003	14	0 0	-.008	15	0 0	-.004	16	0 0	-.003
17	0 0	-.002	18	0 0	-.002	19	0 0	-.002	20	0 0	-.002
21	0 0	-.002	22	0 0	-.002	23	0 0	-.002	24	0 0	-.002
25	0 0	-.002	26	0 0	-.002	27	0 0	-.002	28	0 0	-.002
29	0 0	-.001	30	0 0	-.001	31	0 0	-.001	32	0 0	-.001
33	0 0	-.001	34	0 0	-.001	35	0 0	-.002	36	0 0	-.001
37	0 0	-.001	38	0 0	-.001	39	0 0	-.001	40	0 0	-.001
41	0 0	-.001	42	0 0	-.001	43	0 0	-.001	44	0 0	-.001
45	0 0	-.001	46	0 0	-.001	47	0 0	-.001	48	0 0	-.001
49	0 0	-.003	50	0 0	-.002	51	0 0	-.001	52	0 0	-.001
53	0 0	-.001	54	0 0	-.001	55	0 0	-.001	56	0 0	-.001
57	0 0	-.001	58	0 0	-.001	59	0 0	-.001	60	0 0	-.001
61	0 0	-.001	62	0 0	-.001	63	0 0	-.001	64	0 0	-.001
65	0 0	-.001	66	0 0	-.001	67	0 0	-.001	68	0 0	-.001
69	0 0	-.001	70	0 0	-.001	71	0 0	-.001	72	0 0	-.001
73	0 0	-.001	74	0 0	-.001	75	0 0	-.001	76	0 0	-.017
77	0 0	-.114	78	0 0	-.032	79	0 0	-.009	80	0 0	-.005
81	0 0	-.004	82	0 0	-.004	83	0 0	-.003	84	0 0	-.003
85	0 0	-.003	86	0 0	-.003	87	0 0	-.003	88	0 0	-.003
89	0 0	-.003	90	0 0	-.003	91	0 0	-.002	92	0 0	-.002
93	0 0	-.002	94	0 0	-.002	95	0 0	-.002	96	0 0	-.002
97	0 0	-.003	98	0 0	-.003	99	0 0	-.003	100	0 0	-.003
101	0 0	-.002	102	0 0	-.002	103	0 0	-.002	104	0 0	-.002
105	0 0	-.002	106	0 0	-.002	107	0 0	-.002	108	0 0	-.002
109	0 0	-.002	110	0 0	-.002	111	0 0	-.002	112	0 0	-.002
113	0 0	-.002	114	0 0	-.001	115	0 0	-.002	116	0 0	-.003
117	0 0	-.002	118	0 0	-.001	119	0 0	-.001	120	0 0	-.001
121	0 0	-.001	122	0 0	-.001	123	0 0	-.001	124	0 0	-.001
125	0 0	-.001	126	0 0	-.001	127	0 0	-.001	128	0 0	-.001
129	0 0	-.001	130	0 0	-.001	131	0 0	-.001	132	0 0	-.002
133	0 0	-.002	134	0 0	-.001	135	0 0	-.001	136	0 0	-.002

137	0 0	-.002	138	0 0	-.001	139	0 0	-.001	140	0 0	-.001
141	0 0	-.001	142	0 0	-.003	143	0 0	-.003	144	0 0	-.004
145	0 0	-.001	146	0 0	-.001	147	0 0	-.001	148	0 0	-.001
149	0 0	-.003	150	0 0	-.003	151	0 0	-.002	152	0 0	-.001
153	0 0	-.001	154	0 0	-.001	155	0 0	-.003	156	0 0	-.021
157	0 0	-.037	158	0 0	-.023	159	0 0	-.011	160	0 0	-.008
161	0 0	-.007	162	0 0	-.014	163	0 0	-.018	164	0 0	-.012
165	0 0	-.009	166	0 0	-.008	167	0 0	-.007	168	0 0	-.006
169	0 0	-.006	170	0 0	-.018	171	0 0	-.018	172	0 0	-.012
173	0 0	-.009	174	0 0	-.008	175	0 0	-.007	176	0 0	-.007
177	0 0	-.006	178	0 0	-.006	179	0 0	-.007	180	0 0	-.006
181	0 0	-.006	182	0 0	-.007	183	0 0	-.007	184	0 0	-.006
185	0 0	-.006	186	0 0	-.005	187	0 0	-.005	188	0 0	-.006
189	0 0	-.006	190	0 0	-.006	191	0 0	-.005	192	0 0	-.005
193	0 0	-.005	194	0 0	-.005	195	0 0	-.004	196	0 0	-.004
197	0 0	-.004	198	0 0	-.004	199	0 0	-.004	200	0 0	-.004
201	0 0	-.006	202	0 0	-.005	203	0 0	-.010	204	0 0	-.008
205	0 0	-.008	206	0 0	-.010	207	0 0	-.010	208	0 0	-.016
209	0 0	-.012	210	0 0	-.008	211	0 0	-.007	212	0 0	-.007
213	0 0	-.006	214	0 0	-.006	215	0 0	-.006	216	0 0	-.006
217	0 0	-.007	218	0 0	-.007	219	0 0	-.006	220	0 0	-.006
221	0 0	-.005									
	11		221								
1	0 0	-.008	2	0 0	-.007	3	0 0	-.007	4	0 0	-.006
5	0 0	-.006	6	0 0	-.005	7	0 0	-.005	8	0 0	-.005
9	0 0	-.005	10	0 0	-.005	11	0 0	-.005	12	0 0	-.004
13	0 0	-.005	14	0 0	-.012	15	0 0	-.006	16	0 0	-.005
17	0 0	-.004	18	0 0	-.003	19	0 0	-.003	20	0 0	-.003
21	0 0	-.003	22	0 0	-.004	23	0 0	-.003	24	0 0	-.003
25	0 0	-.003	26	0 0	-.003	27	0 0	-.003	28	0 0	-.003
29	0 0	-.002	30	0 0	-.002	31	0 0	-.002	32	0 0	-.002
33	0 0	-.002	34	0 0	-.002	35	0 0	-.003	36	0 0	-.002
37	0 0	-.002	38	0 0	-.002	39	0 0	-.002	40	0 0	-.002
41	0 0	-.002	42	0 0	-.002	43	0 0	-.002	44	0 0	-.002
45	0 0	-.002	46	0 0	-.002	47	0 0	-.002	48	0 0	-.002
49	0 0	-.006	50	0 0	-.003	51	0 0	-.002	52	0 0	-.002
53	0 0	-.002	54	0 0	-.002	55	0 0	-.002	56	0 0	-.002
57	0 0	-.002	58	0 0	-.002	59	0 0	-.002	60	0 0	-.002
61	0 0	-.002	62	0 0	-.002	63	0 0	-.002	64	0 0	-.002
65	0 0	-.002	66	0 0	-.002	67	0 0	-.002	68	0 0	-.002
69	0 0	-.002	70	0 0	-.002	71	0 0	-.002	72	0 0	-.002
73	0 0	-.002	74	0 0	-.002	75	0 0	-.002	76	0 0	-.028
77	0 0	-.188	78	0 0	-.053	79	0 0	-.015	80	0 0	-.009
81	0 0	-.007	82	0 0	-.006	83	0 0	-.005	84	0 0	-.005
85	0 0	-.006	86	0 0	-.005	87	0 0	-.005	88	0 0	-.005
89	0 0	-.005	90	0 0	-.004	91	0 0	-.004	92	0 0	-.004
93	0 0	-.004	94	0 0	-.004	95	0 0	-.004	96	0 0	-.004
97	0 0	-.005	98	0 0	-.006	99	0 0	-.004	100	0 0	-.004
101	0 0	-.004	102	0 0	-.004	103	0 0	-.003	104	0 0	-.003
105	0 0	-.003	106	0 0	-.003	107	0 0	-.003	108	0 0	-.003
109	0 0	-.002	110	0 0	-.003	111	0 0	-.003	112	0 0	-.003
113	0 0	-.002	114	0 0	-.002	115	0 0	-.004	116	0 0	-.005
117	0 0	-.003	118	0 0	-.002	119	0 0	-.002	120	0 0	-.002
121	0 0	-.002	122	0 0	-.002	123	0 0	-.002	124	0 0	-.002
125	0 0	-.002	126	0 0	-.002	127	0 0	-.002	128	0 0	-.002
129	0 0	-.002	130	0 0	-.002	131	0 0	-.002	132	0 0	-.002
133	0 0	-.002	134	0 0	-.002	135	0 0	-.002	136	0 0	-.004
137	0 0	-.003	138	0 0	-.002	139	0 0	-.002	140	0 0	-.002
141	0 0	-.001	142	0 0	-.004	143	0 0	-.004	144	0 0	-.007
145	0 0	-.002	146	0 0	-.002	147	0 0	-.002	148	0 0	-.002
149	0 0	-.005	150	0 0	-.006	151	0 0	-.003	152	0 0	-.002
153	0 0	-.002	154	0 0	-.002	155	0 0	-.005	156	0 0	-.035
157	0 0	-.060	158	0 0	-.039	159	0 0	-.018	160	0 0	-.013

161	0 0	-.011	162	0 0	-.024	163	0 0	-.030	164	0 0	-.020
165	0 0	-.014	166	0 0	-.012	167	0 0	-.011	168	0 0	-.011
169	0 0	-.011	170	0 0	-.029	171	0 0	-.030	172	0 0	-.019
173	0 0	-.015	174	0 0	-.013	175	0 0	-.012	176	0 0	-.011
177	0 0	-.011	178	0 0	-.011	179	0 0	-.011	180	0 0	-.010
181	0 0	-.009	182	0 0	-.011	183	0 0	-.011	184	0 0	-.010
185	0 0	-.009	186	0 0	-.009	187	0 0	-.009	188	0 0	-.009
189	0 0	-.011	190	0 0	-.009	191	0 0	-.009	192	0 0	-.008
193	0 0	-.008	194	0 0	-.008	195	0 0	-.007	196	0 0	-.007
197	0 0	-.007	198	0 0	-.007	199	0 0	-.007	200	0 0	-.007
201	0 0	-.009	202	0 0	-.009	203	0 0	-.016	204	0 0	-.014
205	0 0	-.012	206	0 0	-.017	207	0 0	-.016	208	0 0	-.026
209	0 0	-.020	210	0 0	-.013	211	0 0	-.012	212	0 0	-.011
213	0 0	-.011	214	0 0	-.010	215	0 0	-.010	216	0 0	-.011
217	0 0	-.012	218	0 0	-.012	219	0 0	-.011	220	0 0	-.009
221	0 0	-.009									
	12		221								
1	0 0	-.002	2	0 0	-.002	3	0 0	-.002	4	0 0	-.002
5	0 0	-.002	6	0 0	-.001	7	0 0	-.001	8	0 0	-.001
9	0 0	-.001	10	0 0	-.001	11	0 0	-.001	12	0 0	-.001
13	0 0	-.001	14	0 0	-.003	15	0 0	-.002	16	0 0	-.001
17	0 0	-.001	18	0 0	-.001	19	0 0	-.001	20	0 0	-.001
21	0 0	-.001	22	0 0	-.001	23	0 0	-.001	24	0 0	-.001
25	0 0	-.001	26	0 0	-.001	27	0 0	-.001	28	0 0	-.001
29	0 0	-.001	30	0 0	-.001	31	0 0	-.001	32	0 0	-.001
33	0 0	-.001	34	0 0	-.001	35	0 0	-.001	36	0 0	-.001
37	0 0	-.001	38	0 0	-.001	39	0 0	.000	40	0 0	.000
41	0 0	.000	42	0 0	.000	43	0 0	.000	44	0 0	-.001
45	0 0	.000	46	0 0	.000	47	0 0	-.001	48	0 0	-.001
49	0 0	-.002	50	0 0	-.001	51	0 0	-.001	52	0 0	-.001
53	0 0	-.001	54	0 0	.000	55	0 0	.000	56	0 0	.000
57	0 0	.000	58	0 0	.000	59	0 0	.000	60	0 0	.000
61	0 0	.000	62	0 0	-.001	63	0 0	.000	64	0 0	.000
65	0 0	.000	66	0 0	.000	67	0 0	-.001	68	0 0	.000
69	0 0	.000	70	0 0	.000	71	0 0	.000	72	0 0	.000
73	0 0	-.001	74	0 0	-.001	75	0 0	-.001	76	0 0	-.008
77	0 0	-.051	78	0 0	-.015	79	0 0	-.004	80	0 0	-.002
81	0 0	-.002	82	0 0	-.002	83	0 0	-.001	84	0 0	-.001
85	0 0	-.002	86	0 0	-.001	87	0 0	-.001	88	0 0	-.001
89	0 0	-.001	90	0 0	-.001	91	0 0	-.001	92	0 0	-.001
93	0 0	-.001	94	0 0	-.001	95	0 0	-.001	96	0 0	-.001
97	0 0	-.001	98	0 0	-.002	99	0 0	-.001	100	0 0	-.001
101	0 0	-.001	102	0 0	-.001	103	0 0	-.001	104	0 0	-.001
105	0 0	-.001	106	0 0	-.001	107	0 0	-.001	108	0 0	-.001
109	0 0	-.001	110	0 0	-.001	111	0 0	-.001	112	0 0	-.001
113	0 0	-.001	114	0 0	-.001	115	0 0	-.001	116	0 0	-.001
117	0 0	-.001	118	0 0	-.001	119	0 0	-.001	120	0 0	-.001
121	0 0	-.001	122	0 0	-.001	123	0 0	-.001	124	0 0	.000
125	0 0	.000	126	0 0	.000	127	0 0	-.001	128	0 0	.000
129	0 0	.000	130	0 0	-.001	131	0 0	-.001	132	0 0	-.001
133	0 0	-.001	134	0 0	-.001	135	0 0	-.001	136	0 0	-.001
137	0 0	-.001	138	0 0	.000	139	0 0	.000	140	0 0	.000
141	0 0	.000	142	0 0	-.001	143	0 0	-.001	144	0 0	-.002
145	0 0	-.001	146	0 0	-.001	147	0 0	.000	148	0 0	.000
149	0 0	-.001	150	0 0	-.002	151	0 0	-.001	152	0 0	-.001
153	0 0	-.001	154	0 0	-.001	155	0 0	-.001	156	0 0	-.009
157	0 0	-.016	158	0 0	-.011	159	0 0	-.005	160	0 0	-.004
161	0 0	-.003	162	0 0	-.006	163	0 0	-.008	164	0 0	-.005
165	0 0	-.004	166	0 0	-.003	167	0 0	-.003	168	0 0	-.003
169	0 0	-.003	170	0 0	-.008	171	0 0	-.008	172	0 0	-.005
173	0 0	-.004	174	0 0	-.004	175	0 0	-.003	176	0 0	-.003
177	0 0	-.003	178	0 0	-.003	179	0 0	-.003	180	0 0	-.003
181	0 0	-.003	182	0 0	-.003	183	0 0	-.003	184	0 0	-.003

185	0 0	-.003	186	0 0	-.002	187	0 0	-.002	188	0 0	-.003
189	0 0	-.003	190	0 0	-.003	191	0 0	-.002	192	0 0	-.002
193	0 0	-.002	194	0 0	-.002	195	0 0	-.002	196	0 0	-.002
197	0 0	-.002	198	0 0	-.002	199	0 0	-.002	200	0 0	-.002
201	0 0	-.003	202	0 0	-.002	203	0 0	-.004	204	0 0	-.004
205	0 0	-.003	206	0 0	-.005	207	0 0	-.004	208	0 0	-.007
209	0 0	-.006	210	0 0	-.004	211	0 0	-.003	212	0 0	-.003
213	0 0	-.003	214	0 0	-.003	215	0 0	-.003	216	0 0	-.003
217	0 0	-.003	218	0 0	-.003	219	0 0	-.003	220	0 0	-.003
221	0 0	-.002									
	13	221									
1	0 0	-.009	2	0 0	-.008	3	0 0	-.008	4	0 0	-.007
5	0 0	-.007	6	0 0	-.006	7	0 0	-.006	8	0 0	-.006
9	0 0	-.006	10	0 0	-.006	11	0 0	-.005	12	0 0	-.005
13	0 0	-.006	14	0 0	-.014	15	0 0	-.007	16	0 0	-.005
17	0 0	-.004	18	0 0	-.004	19	0 0	-.003	20	0 0	-.003
21	0 0	-.003	22	0 0	-.004	23	0 0	-.003	24	0 0	-.003
25	0 0	-.003	26	0 0	-.003	27	0 0	-.003	28	0 0	-.003
29	0 0	-.003	30	0 0	-.002	31	0 0	-.002	32	0 0	-.003
33	0 0	-.002	34	0 0	-.002	35	0 0	-.003	36	0 0	-.002
37	0 0	-.002	38	0 0	-.002	39	0 0	-.002	40	0 0	-.002
41	0 0	-.002	42	0 0	-.002	43	0 0	-.002	44	0 0	-.003
45	0 0	-.002	46	0 0	-.002	47	0 0	-.002	48	0 0	-.003
49	0 0	-.006	50	0 0	-.004	51	0 0	-.003	52	0 0	-.002
53	0 0	-.002	54	0 0	-.002	55	0 0	-.002	56	0 0	-.002
57	0 0	-.002	58	0 0	-.002	59	0 0	-.002	60	0 0	-.002
61	0 0	-.002	62	0 0	-.002	63	0 0	-.002	64	0 0	-.002
65	0 0	-.002	66	0 0	-.002	67	0 0	-.002	68	0 0	-.002
69	0 0	-.002	70	0 0	-.002	71	0 0	-.002	72	0 0	-.002
73	0 0	-.002	74	0 0	-.002	75	0 0	-.002	76	0 0	-.033
77	0 0	-.216	78	0 0	-.061	79	0 0	-.017	80	0 0	-.010
81	0 0	-.007	82	0 0	-.007	83	0 0	-.006	84	0 0	-.006
85	0 0	-.007	86	0 0	-.006	87	0 0	-.005	88	0 0	-.006
89	0 0	-.005	90	0 0	-.005	91	0 0	-.005	92	0 0	-.005
93	0 0	-.004	94	0 0	-.004	95	0 0	-.004	96	0 0	-.004
97	0 0	-.006	98	0 0	-.006	99	0 0	-.005	100	0 0	-.005
101	0 0	-.004	102	0 0	-.004	103	0 0	-.004	104	0 0	-.003
105	0 0	-.003	106	0 0	-.003	107	0 0	-.003	108	0 0	-.003
109	0 0	-.003	110	0 0	-.003	111	0 0	-.003	112	0 0	-.003
113	0 0	-.003	114	0 0	-.003	115	0 0	-.004	116	0 0	-.006
117	0 0	-.003	118	0 0	-.003	119	0 0	-.003	120	0 0	-.003
121	0 0	-.002	122	0 0	-.002	123	0 0	-.002	124	0 0	-.002
125	0 0	-.002	126	0 0	-.002	127	0 0	-.002	128	0 0	-.002
129	0 0	-.002	130	0 0	-.002	131	0 0	-.002	132	0 0	-.003
133	0 0	-.003	134	0 0	-.002	135	0 0	-.003	136	0 0	-.004
137	0 0	-.003	138	0 0	-.002	139	0 0	-.002	140	0 0	-.002
141	0 0	-.002	142	0 0	-.005	143	0 0	-.005	144	0 0	-.008
145	0 0	-.003	146	0 0	-.002	147	0 0	-.002	148	0 0	-.002
149	0 0	-.006	150	0 0	-.006	151	0 0	-.003	152	0 0	-.002
153	0 0	-.002	154	0 0	-.002	155	0 0	-.006	156	0 0	-.040
157	0 0	-.070	158	0 0	-.045	159	0 0	-.021	160	0 0	-.015
161	0 0	-.013	162	0 0	-.027	163	0 0	-.035	164	0 0	-.023
165	0 0	-.017	166	0 0	-.014	167	0 0	-.013	168	0 0	-.012
169	0 0	-.012	170	0 0	-.033	171	0 0	-.034	172	0 0	-.022
173	0 0	-.017	174	0 0	-.015	175	0 0	-.014	176	0 0	-.013
177	0 0	-.012	178	0 0	-.012	179	0 0	-.013	180	0 0	-.011
181	0 0	-.011	182	0 0	-.013	183	0 0	-.013	184	0 0	-.011
185	0 0	-.011	186	0 0	-.010	187	0 0	-.010	188	0 0	-.011
189	0 0	-.012	190	0 0	-.011	191	0 0	-.010	192	0 0	-.009
193	0 0	-.009	194	0 0	-.009	195	0 0	-.008	196	0 0	-.008
197	0 0	-.008	198	0 0	-.008	199	0 0	-.008	200	0 0	-.008
201	0 0	-.011	202	0 0	-.010	203	0 0	-.018	204	0 0	-.016
205	0 0	-.014	206	0 0	-.020	207	0 0	-.018	208	0 0	-.030

209	0 0	-.023	210	0 0	-.015	211	0 0	-.014	212	0 0	-.013
213	0 0	-.012	214	0 0	-.011	215	0 0	-.011	216	0 0	-.012
217	0 0	-.014	218	0 0	-.014	219	0 0	-.012	220	0 0	-.011
221	0 0	-.010									
	14	221									
1	0 0	-.092	2	0 0	-.084	3	0 0	-.077	4	0 0	-.073
5	0 0	-.067	6	0 0	-.064	7	0 0	-.061	8	0 0	-.061
9	0 0	-.063	10	0 0	-.060	11	0 0	-.053	12	0 0	-.051
13	0 0	-.063	14	0 0	-.146	15	0 0	-.068	16	0 0	-.054
17	0 0	-.045	18	0 0	-.040	19	0 0	-.035	20	0 0	-.033
21	0 0	-.034	22	0 0	-.042	23	0 0	-.033	24	0 0	-.031
25	0 0	-.030	26	0 0	-.030	27	0 0	-.031	28	0 0	-.031
29	0 0	-.028	30	0 0	-.025	31	0 0	-.025	32	0 0	-.026
33	0 0	-.025	34	0 0	-.025	35	0 0	-.031	36	0 0	-.025
37	0 0	-.024	38	0 0	-.022	39	0 0	-.021	40	0 0	-.020
41	0 0	-.020	42	0 0	-.019	43	0 0	-.018	44	0 0	-.028
45	0 0	-.021	46	0 0	-.020	47	0 0	-.021	48	0 0	-.028
49	0 0	-.064	50	0 0	-.040	51	0 0	-.028	52	0 0	-.025
53	0 0	-.022	54	0 0	-.021	55	0 0	-.018	56	0 0	-.018
57	0 0	-.018	58	0 0	-.018	59	0 0	-.018	60	0 0	-.018
61	0 0	-.021	62	0 0	-.022	63	0 0	-.018	64	0 0	-.018
65	0 0	-.019	66	0 0	-.021	67	0 0	-.021	68	0 0	-.021
69	0 0	-.021	70	0 0	-.019	71	0 0	-.018	72	0 0	-.021
73	0 0	-.022	74	0 0	-.021	75	0 0	-.021	76	0 0	-.330
77	0 0	-2.193	78	0 0	-.621	79	0 0	-.176	80	0 0	-.100
81	0 0	-.076	82	0 0	-.068	83	0 0	-.064	84	0 0	-.064
85	0 0	-.067	86	0 0	-.060	87	0 0	-.055	88	0 0	-.056
89	0 0	-.055	90	0 0	-.051	91	0 0	-.048	92	0 0	-.046
93	0 0	-.045	94	0 0	-.044	95	0 0	-.043	96	0 0	-.044
97	0 0	-.061	98	0 0	-.064	99	0 0	-.049	100	0 0	-.051
101	0 0	-.044	102	0 0	-.041	103	0 0	-.037	104	0 0	-.035
105	0 0	-.035	106	0 0	-.035	107	0 0	-.034	108	0 0	-.031
109	0 0	-.029	110	0 0	-.030	111	0 0	-.030	112	0 0	-.030
113	0 0	-.029	114	0 0	-.028	115	0 0	-.045	116	0 0	-.058
117	0 0	-.030	118	0 0	-.027	119	0 0	-.026	120	0 0	-.026
121	0 0	-.025	122	0 0	-.024	123	0 0	-.023	124	0 0	-.021
125	0 0	-.021	126	0 0	-.021	127	0 0	-.021	128	0 0	-.021
129	0 0	-.021	130	0 0	-.021	131	0 0	-.021	132	0 0	-.029
133	0 0	-.029	134	0 0	-.023	135	0 0	-.028	136	0 0	-.044
137	0 0	-.033	138	0 0	-.021	139	0 0	-.018	140	0 0	-.018
141	0 0	-.017	142	0 0	-.052	143	0 0	-.052	144	0 0	-.084
145	0 0	-.028	146	0 0	-.022	147	0 0	-.019	148	0 0	-.018
149	0 0	-.063	150	0 0	-.064	151	0 0	-.035	152	0 0	-.025
153	0 0	-.022	154	0 0	-.023	155	0 0	-.057	156	0 0	-.406
157	0 0	-.705	158	0 0	-.452	159	0 0	-.215	160	0 0	-.153
161	0 0	-.130	162	0 0	-.276	163	0 0	-.353	164	0 0	-.230
165	0 0	-.169	166	0 0	-.146	167	0 0	-.130	168	0 0	-.123
169	0 0	-.123	170	0 0	-.337	171	0 0	-.345	172	0 0	-.222
173	0 0	-.176	174	0 0	-.153	175	0 0	-.138	176	0 0	-.130
177	0 0	-.123	178	0 0	-.123	179	0 0	-.130	180	0 0	-.115
181	0 0	-.107	182	0 0	-.130	183	0 0	-.130	184	0 0	-.115
185	0 0	-.107	186	0 0	-.100	187	0 0	-.100	188	0 0	-.107
189	0 0	-.123	190	0 0	-.107	191	0 0	-.100	192	0 0	-.092
193	0 0	-.092	194	0 0	-.092	195	0 0	-.084	196	0 0	-.084
197	0 0	-.084	198	0 0	-.084	199	0 0	-.077	200	0 0	-.084
201	0 0	-.107	202	0 0	-.100	203	0 0	-.184	204	0 0	-.161
205	0 0	-.146	206	0 0	-.199	207	0 0	-.184	208	0 0	-.307
209	0 0	-.238	210	0 0	-.153	211	0 0	-.138	212	0 0	-.130
213	0 0	-.123	214	0 0	-.115	215	0 0	-.115	216	0 0	-.123
217	0 0	-.138	218	0 0	-.138	219	0 0	-.123	220	0 0	-.107
221	0 0	-.100									
	15	221									
1	0 0	-.060	2	0 0	-.055	3	0 0	-.050	4	0 0	-.047

5	0 0	-.044	6	0 0	-.041	7	0 0	-.040	8	0 0	-.040
9	0 0	-.041	10	0 0	-.039	11	0 0	-.034	12	0 0	-.033
13	0 0	-.041	14	0 0	-.094	15	0 0	-.044	16	0 0	-.035
17	0 0	-.029	18	0 0	-.026	19	0 0	-.023	20	0 0	-.021
21	0 0	-.022	22	0 0	-.027	23	0 0	-.021	24	0 0	-.020
25	0 0	-.019	26	0 0	-.019	27	0 0	-.020	28	0 0	-.020
29	0 0	-.018	30	0 0	-.016	31	0 0	-.016	32	0 0	-.017
33	0 0	-.016	34	0 0	-.016	35	0 0	-.020	36	0 0	-.016
37	0 0	-.015	38	0 0	-.014	39	0 0	-.013	40	0 0	-.013
41	0 0	-.013	42	0 0	-.012	43	0 0	-.012	44	0 0	-.018
45	0 0	-.013	46	0 0	-.013	47	0 0	-.014	48	0 0	-.018
49	0 0	-.042	50	0 0	-.026	51	0 0	-.018	52	0 0	-.016
53	0 0	-.014	54	0 0	-.013	55	0 0	-.012	56	0 0	-.012
57	0 0	-.011	58	0 0	-.011	59	0 0	-.012	60	0 0	-.012
61	0 0	-.013	62	0 0	-.014	63	0 0	-.012	64	0 0	-.012
65	0 0	-.012	66	0 0	-.013	67	0 0	-.014	68	0 0	-.013
69	0 0	-.013	70	0 0	-.012	71	0 0	-.012	72	0 0	-.013
73	0 0	-.014	74	0 0	-.014	75	0 0	-.014	76	0 0	-.213
77	0 0	-1.418	78	0 0	-.402	79	0 0	-.114	80	0 0	-.064
81	0 0	-.049	82	0 0	-.044	83	0 0	-.041	84	0 0	-.041
85	0 0	-.043	86	0 0	-.039	87	0 0	-.036	88	0 0	-.036
89	0 0	-.036	90	0 0	-.033	91	0 0	-.031	92	0 0	-.030
93	0 0	-.029	94	0 0	-.028	95	0 0	-.028	96	0 0	-.029
97	0 0	-.039	98	0 0	-.042	99	0 0	-.032	100	0 0	-.033
101	0 0	-.028	102	0 0	-.027	103	0 0	-.024	104	0 0	-.023
105	0 0	-.023	106	0 0	-.023	107	0 0	-.022	108	0 0	-.020
109	0 0	-.019	110	0 0	-.019	111	0 0	-.019	112	0 0	-.019
113	0 0	-.019	114	0 0	-.018	115	0 0	-.029	116	0 0	-.038
117	0 0	-.019	118	0 0	-.017	119	0 0	-.017	120	0 0	-.017
121	0 0	-.016	122	0 0	-.015	123	0 0	-.015	124	0 0	-.013
125	0 0	-.013	126	0 0	-.013	127	0 0	-.014	128	0 0	-.013
129	0 0	-.013	130	0 0	-.014	131	0 0	-.014	132	0 0	-.019
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141	0 0	-.011	142	0 0	-.034	143	0 0	-.034	144	0 0	-.055
145	0 0	-.018	146	0 0	-.014	147	0 0	-.012	148	0 0	-.012
149	0 0	-.041	150	0 0	-.042	151	0 0	-.023	152	0 0	-.016
153	0 0	-.014	154	0 0	-.015	155	0 0	-.037	156	0 0	-.263
157	0 0	-.456	158	0 0	-.293	159	0 0	-.139	160	0 0	-.099
161	0 0	-.084	162	0 0	-.179	163	0 0	-.228	164	0 0	-.149
165	0 0	-.109	166	0 0	-.094	167	0 0	-.084	168	0 0	-.079
169	0 0	-.079	170	0 0	-.218	171	0 0	-.223	172	0 0	-.144
173	0 0	-.114	174	0 0	-.099	175	0 0	-.089	176	0 0	-.084
177	0 0	-.079	178	0 0	-.079	179	0 0	-.084	180	0 0	-.074
181	0 0	-.069	182	0 0	-.084	183	0 0	-.084	184	0 0	-.074
185	0 0	-.069	186	0 0	-.064	187	0 0	-.064	188	0 0	-.069
189	0 0	-.079	190	0 0	-.069	191	0 0	-.064	192	0 0	-.060
193	0 0	-.060	194	0 0	-.060	195	0 0	-.055	196	0 0	-.055
197	0 0	-.055	198	0 0	-.055	199	0 0	-.050	200	0 0	-.055
201	0 0	-.069	202	0 0	-.064	203	0 0	-.119	204	0 0	-.104
205	0 0	-.094	206	0 0	-.129	207	0 0	-.119	208	0 0	-.198
209	0 0	-.154	210	0 0	-.099	211	0 0	-.089	212	0 0	-.084
213	0 0	-.079	214	0 0	-.074	215	0 0	-.074	216	0 0	-.079
217	0 0	-.089	218	0 0	-.089	219	0 0	-.079	220	0 0	-.069
221	0 0	-.064									
	16	221									
	1	0 0		2	0 0		3	0 0		4	0 0
	5	0 0		6	0 0		7	0 0		8	0 0
	9	0 0		10	0 0		11	0 0		12	0 0
	13	0 0		14	0 0		15	0 0		16	0 0
	17	0 0		18	0 0		19	0 0		20	0 0
	21	0 0		22	0 0		23	0 0		24	0 0
	25	0 0		26	0 0		27	0 0		28	0 0

29	0 0	-.002	30	0 0	-.002	31	0 0	-.002	32	0 0	-.002
33	0 0	-.002	34	0 0	-.002	35	0 0	-.002	36	0 0	-.002
37	0 0	-.002	38	0 0	-.002	39	0 0	-.001	40	0 0	-.001
41	0 0	-.001	42	0 0	-.001	43	0 0	-.001	44	0 0	-.002
45	0 0	-.001	46	0 0	-.001	47	0 0	-.001	48	0 0	-.002
49	0 0	-.004	50	0 0	-.003	51	0 0	-.002	52	0 0	-.002
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69	0 0	-.001	70	0 0	-.001	71	0 0	-.001	72	0 0	-.001
73	0 0	-.002	74	0 0	-.001	75	0 0	-.001	76	0 0	-.022
77	0 0	-.148	78	0 0	-.042	79	0 0	-.012	80	0 0	-.007
81	0 0	-.005	82	0 0	-.005	83	0 0	-.004	84	0 0	-.004
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89	0 0	-.004	90	0 0	-.003	91	0 0	-.003	92	0 0	-.003
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145	0 0	-.002	146	0 0	-.002	147	0 0	-.001	148	0 0	-.001
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153	0 0	-.002	154	0 0	-.002	155	0 0	-.004	156	0 0	-.027
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161	0 0	-.009	162	0 0	-.019	163	0 0	-.024	164	0 0	-.016
165	0 0	-.011	166	0 0	-.010	167	0 0	-.009	168	0 0	-.008
169	0 0	-.008	170	0 0	-.023	171	0 0	-.023	172	0 0	-.015
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221	0 0	-.007									
	17	221									
1	0 0	-.016	2	0 0	-.014	3	0 0	-.013	4	0 0	-.012
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9	0 0	-.011	10	0 0	-.010	11	0 0	-.009	12	0 0	-.009
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77	0 0	-.370	78	0 0	-.105	79	0 0	-.030	80	0 0	-.017
81	0 0	-.013	82	0 0	-.012	83	0 0	-.011	84	0 0	-.011
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133	0 0	-.005	134	0 0	-.004	135	0 0	-.005	136	0 0	-.008
137	0 0	-.006	138	0 0	-.003	139	0 0	-.003	140	0 0	-.003
141	0 0	-.003	142	0 0	-.009	143	0 0	-.009	144	0 0	-.014
145	0 0	-.005	146	0 0	-.004	147	0 0	-.003	148	0 0	-.003
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153	0 0	-.004	154	0 0	-.004	155	0 0	-.010	156	0 0	-.069
157	0 0	-.119	158	0 0	-.076	159	0 0	-.036	160	0 0	-.026
161	0 0	-.022	162	0 0	-.047	163	0 0	-.060	164	0 0	-.039
165	0 0	-.028	166	0 0	-.025	167	0 0	-.022	168	0 0	-.021
169	0 0	-.021	170	0 0	-.057	171	0 0	-.058	172	0 0	-.038
173	0 0	-.030	174	0 0	-.026	175	0 0	-.023	176	0 0	-.022
177	0 0	-.021	178	0 0	-.021	179	0 0	-.022	180	0 0	-.019
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185	0 0	-.018	186	0 0	-.017	187	0 0	-.017	188	0 0	-.018
189	0 0	-.021	190	0 0	-.018	191	0 0	-.017	192	0 0	-.016
193	0 0	-.016	194	0 0	-.016	195	0 0	-.014	196	0 0	-.014
197	0 0	-.014	198	0 0	-.014	199	0 0	-.013	200	0 0	-.014
201	0 0	-.018	202	0 0	-.017	203	0 0	-.031	204	0 0	-.027
205	0 0	-.025	206	0 0	-.034	207	0 0	-.031	208	0 0	-.052
209	0 0	-.040	210	0 0	-.026	211	0 0	-.023	212	0 0	-.022
213	0 0	-.021	214	0 0	-.019	215	0 0	-.019	216	0 0	-.021
217	0 0	-.023	218	0 0	-.023	219	0 0	-.021	220	0 0	-.018
221	0 0	-.017									
	18	221									
1	0 0	-.012	2	0 0	-.011	3	0 0	-.010	4	0 0	-.009
5	0 0	-.009	6	0 0	-.008	7	0 0	-.008	8	0 0	-.008
9	0 0	-.008	10	0 0	-.008	11	0 0	-.007	12	0 0	-.007
13	0 0	-.008	14	0 0	-.019	15	0 0	-.009	16	0 0	-.007
17	0 0	-.006	18	0 0	-.005	19	0 0	-.005	20	0 0	-.004
21	0 0	-.004	22	0 0	-.005	23	0 0	-.004	24	0 0	-.004
25	0 0	-.004	26	0 0	-.004	27	0 0	-.004	28	0 0	-.004
29	0 0	-.004	30	0 0	-.003	31	0 0	-.003	32	0 0	-.003
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77	0 0	-.285	78	0 0	-.081	79	0 0	-.023	80	0 0	-.013
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85	0 0	-.009	86	0 0	-.008	87	0 0	-.007	88	0 0	-.007
89	0 0	-.007	90	0 0	-.007	91	0 0	-.006	92	0 0	-.006
93	0 0	-.006	94	0 0	-.006	95	0 0	-.006	96	0 0	-.006
97	0 0	-.008	98	0 0	-.008	99	0 0	-.006	100	0 0	-.007
101	0 0	-.006	102	0 0	-.005	103	0 0	-.005	104	0 0	-.005
105	0 0	-.005	106	0 0	-.005	107	0 0	-.004	108	0 0	-.004
109	0 0	-.004	110	0 0	-.004	111	0 0	-.004	112	0 0	-.004
113	0 0	-.004	114	0 0	-.004	115	0 0	-.006	116	0 0	-.008
117	0 0	-.004	118	0 0	-.003	119	0 0	-.003	120	0 0	-.003
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125	0 0	-.003	126	0 0	-.003	127	0 0	-.003	128	0 0	-.003
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137	0 0	-.004	138	0 0	-.003	139	0 0	-.002	140	0 0	-.002
141	0 0	-.002	142	0 0	-.007	143	0 0	-.007	144	0 0	-.011
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153	0 0	-.003	154	0 0	-.003	155	0 0	-.007	156	0 0	-.053
157	0 0	-.092	158	0 0	-.059	159	0 0	-.028	160	0 0	-.020
161	0 0	-.017	162	0 0	-.036	163	0 0	-.046	164	0 0	-.030
165	0 0	-.022	166	0 0	-.019	167	0 0	-.017	168	0 0	-.016
169	0 0	-.016	170	0 0	-.044	171	0 0	-.045	172	0 0	-.029
173	0 0	-.023	174	0 0	-.020	175	0 0	-.018	176	0 0	-.017
177	0 0	-.016	178	0 0	-.016	179	0 0	-.017	180	0 0	-.015
181	0 0	-.014	182	0 0	-.017	183	0 0	-.017	184	0 0	-.015
185	0 0	-.014	186	0 0	-.013	187	0 0	-.013	188	0 0	-.014
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193	0 0	-.012	194	0 0	-.012	195	0 0	-.011	196	0 0	-.011
197	0 0	-.011	198	0 0	-.011	199	0 0	-.010	200	0 0	-.011
201	0 0	-.014	202	0 0	-.013	203	0 0	-.024	204	0 0	-.021
205	0 0	-.019	206	0 0	-.026	207	0 0	-.024	208	0 0	-.040
209	0 0	-.031	210	0 0	-.020	211	0 0	-.018	212	0 0	-.017
213	0 0	-.016	214	0 0	-.015	215	0 0	-.015	216	0 0	-.016
217	0 0	-.018	218	0 0	-.018	219	0 0	-.016	220	0 0	-.014
221	0 0	-.013									
	19	221									
1	0 0	-.549	2	0 0	-.503	3	0 0	-.458	4	0 0	-.435
5	0 0	-.403	6	0 0	-.380	7	0 0	-.366	8	0 0	-.366
9	0 0	-.375	10	0 0	-.357	11	0 0	-.316	12	0 0	-.307
13	0 0	-.375	14	0 0	-.869	15	0 0	-.407	16	0 0	-.320
17	0 0	-.270	18	0 0	-.238	19	0 0	-.211	20	0 0	-.197
21	0 0	-.201	22	0 0	-.252	23	0 0	-.197	24	0 0	-.183
25	0 0	-.178	26	0 0	-.178	27	0 0	-.188	28	0 0	-.188
29	0 0	-.165	30	0 0	-.151	31	0 0	-.151	32	0 0	-.156
33	0 0	-.146	34	0 0	-.146	35	0 0	-.183	36	0 0	-.151
37	0 0	-.142	38	0 0	-.133	39	0 0	-.157	40	0 0	-.155
41	0 0	-.155	42	0 0	-.153	43	0 0	-.152	44	0 0	-.169
45	0 0	-.157	46	0 0	-.155	47	0 0	-.158	48	0 0	-.165
49	0 0	-.384	50	0 0	-.238	51	0 0	-.165	52	0 0	-.146
53	0 0	-.133	54	0 0	-.157	55	0 0	-.152	56	0 0	-.152
57	0 0	-.150	58	0 0	-.150	59	0 0	-.152	60	0 0	-.152
61	0 0	-.157	62	0 0	-.133	63	0 0	-.152	64	0 0	-.152
65	0 0	-.153	66	0 0	-.157	67	0 0	-.158	68	0 0	-.157
69	0 0	-.157	70	0 0	-.153	71	0 0	-.152	72	0 0	-.157
73	0 0	-.133	74	0 0	-.158	75	0 0	-.158	76	0 0	-1.968
77	0 0	-13.088	78	0 0	-3.707	79	0 0	-1.053	80	0 0	-.595
81	0 0	-.453	82	0 0	-.407	83	0 0	-.380	84	0 0	-.380
85	0 0	-.398	86	0 0	-.357	87	0 0	-.329	88	0 0	-.334
89	0 0	-.329	90	0 0	-.307	91	0 0	-.284	92	0 0	-.275
93	0 0	-.270	94	0 0	-.261	95	0 0	-.256	96	0 0	-.265
97	0 0	-.362	98	0 0	-.384	99	0 0	-.293	100	0 0	-.307

101	0 0	-.261	102	0 0	-.247	103	0 0	-.220	104	0 0	-.211
105	0 0	-.211	106	0 0	-.211	107	0 0	-.201	108	0 0	-.183
109	0 0	-.174	110	0 0	-.178	111	0 0	-.178	112	0 0	-.178
113	0 0	-.174	114	0 0	-.165	115	0 0	-.270	116	0 0	-.348
117	0 0	-.178	118	0 0	-.160	119	0 0	-.156	120	0 0	-.156
121	0 0	-.146	122	0 0	-.142	123	0 0	-.137	124	0 0	-.157
125	0 0	-.157	126	0 0	-.157	127	0 0	-.158	128	0 0	-.157
129	0 0	-.157	130	0 0	-.158	131	0 0	-.158	132	0 0	-.174
133	0 0	-.174	134	0 0	-.137	135	0 0	-.165	136	0 0	-.265
137	0 0	-.197	138	0 0	-.157	139	0 0	-.152	140	0 0	-.150
141	0 0	-.148	142	0 0	-.311	143	0 0	-.311	144	0 0	-.503
145	0 0	-.169	146	0 0	-.133	147	0 0	-.153	148	0 0	-.152
149	0 0	-.375	150	0 0	-.384	151	0 0	-.211	152	0 0	-.151
153	0 0	-.133	154	0 0	-.137	155	0 0	-.343	156	0 0	-2.425
157	0 0	-4.210	158	0 0	-2.700	159	0 0	-1.281	160	0 0	-.915
161	0 0	-.778	162	0 0	-1.647	163	0 0	-2.105	164	0 0	-1.373
165	0 0	-1.007	166	0 0	-.869	167	0 0	-.778	168	0 0	-.732
169	0 0	-.732	170	0 0	-2.013	171	0 0	-2.059	172	0 0	-1.327
173	0 0	-1.053	174	0 0	-.915	175	0 0	-.824	176	0 0	-.778
177	0 0	-.732	178	0 0	-.732	179	0 0	-.778	180	0 0	-.686
181	0 0	-.641	182	0 0	-.778	183	0 0	-.778	184	0 0	-.686
185	0 0	-.641	186	0 0	-.595	187	0 0	-.595	188	0 0	-.641
189	0 0	-.732	190	0 0	-.641	191	0 0	-.595	192	0 0	-.549
193	0 0	-.549	194	0 0	-.549	195	0 0	-.503	196	0 0	-.503
197	0 0	-.503	198	0 0	-.503	199	0 0	-.458	200	0 0	-.503
201	0 0	-.641	202	0 0	-.595	203	0 0	-1.098	204	0 0	-.961
205	0 0	-.869	206	0 0	-1.190	207	0 0	-1.098	208	0 0	-1.830
209	0 0	-1.419	210	0 0	-.915	211	0 0	-.824	212	0 0	-.778
213	0 0	-.732	214	0 0	-.686	215	0 0	-.686	216	0 0	-.732
217	0 0	-.824	218	0 0	-.824	219	0 0	-.732	220	0 0	-.641
221	0 0	-.595									
	20	221									
1	0 0	.542	2	0 0	.497	3	0 0	.452	4	0 0	.429
5	0 0	.398	6	0 0	.375	7	0 0	.362	8	0 0	.362
9	0 0	.371	10	0 0	.353	11	0 0	.312	12	0 0	.303
13	0 0	.371	14	0 0	.859	15	0 0	.402	16	0 0	.316
17	0 0	.267	18	0 0	.235	19	0 0	.208	20	0 0	.194
21	0 0	.199	22	0 0	.249	23	0 0	.194	24	0 0	.181
25	0 0	.176	26	0 0	.176	27	0 0	.185	28	0 0	.185
29	0 0	.163	30	0 0	.149	31	0 0	.149	32	0 0	.154
33	0 0	.145	34	0 0	.145	35	0 0	.181	36	0 0	.149
37	0 0	.140	38	0 0	.131	39	0 0	.155	40	0 0	.154
41	0 0	.154	42	0 0	.152	43	0 0	.150	44	0 0	.167
45	0 0	.155	46	0 0	.154	47	0 0	.157	48	0 0	.163
49	0 0	.380	50	0 0	.235	51	0 0	.163	52	0 0	.145
53	0 0	.131	54	0 0	.155	55	0 0	.150	56	0 0	.150
57	0 0	.149	58	0 0	.149	59	0 0	.150	60	0 0	.150
61	0 0	.155	62	0 0	.131	63	0 0	.150	64	0 0	.150
65	0 0	.152	66	0 0	.155	67	0 0	.157	68	0 0	.155
69	0 0	.155	70	0 0	.152	71	0 0	.150	72	0 0	.155
73	0 0	.131	74	0 0	.157	75	0 0	.157	76	0 0	1.944
77	0 0	12.928	78	0 0	3.661	79	0 0	1.040	80	0 0	.588
81	0 0	.448	82	0 0	.402	83	0 0	.375	84	0 0	.375
85	0 0	.393	86	0 0	.353	87	0 0	.325	88	0 0	.330
89	0 0	.325	90	0 0	.303	91	0 0	.280	92	0 0	.271
93	0 0	.267	94	0 0	.258	95	0 0	.253	96	0 0	.262
97	0 0	.357	98	0 0	.380	99	0 0	.289	100	0 0	.303
101	0 0	.258	102	0 0	.244	103	0 0	.217	104	0 0	.208
105	0 0	.208	106	0 0	.208	107	0 0	.199	108	0 0	.181
109	0 0	.172	110	0 0	.176	111	0 0	.176	112	0 0	.176
113	0 0	.172	114	0 0	.163	115	0 0	.267	116	0 0	.344
117	0 0	.176	118	0 0	.158	119	0 0	.154	120	0 0	.154
121	0 0	.145	122	0 0	.140	123	0 0	.136	124	0 0	.155

125	0 0	.155	126	0 0	.155	127	0 0	.157	128	0 0	.155
129	0 0	.155	130	0 0	.157	131	0 0	.157	132	0 0	.172
133	0 0	.172	134	0 0	.136	135	0 0	.163	136	0 0	.262
137	0 0	.194	138	0 0	.155	139	0 0	.150	140	0 0	.149
141	0 0	.147	142	0 0	.307	143	0 0	.307	144	0 0	.497
145	0 0	.167	146	0 0	.131	147	0 0	.152	148	0 0	.150
149	0 0	.371	150	0 0	.380	151	0 0	.208	152	0 0	.149
153	0 0	.131	154	0 0	.136	155	0 0	.339	156	0 0	2.396
157	0 0	4.159	158	0 0	2.667	159	0 0	1.266	160	0 0	.904
161	0 0	.768	162	0 0	1.627	163	0 0	2.079	164	0 0	1.356
165	0 0	.994	166	0 0	.859	167	0 0	.768	168	0 0	.723
169	0 0	.723	170	0 0	1.989	171	0 0	2.034	172	0 0	1.311
173	0 0	1.040	174	0 0	.904	175	0 0	.814	176	0 0	.768
177	0 0	.723	178	0 0	.723	179	0 0	.768	180	0 0	.678
181	0 0	.633	182	0 0	.768	183	0 0	.768	184	0 0	.678
185	0 0	.633	186	0 0	.588	187	0 0	.588	188	0 0	.633
189	0 0	.723	190	0 0	.633	191	0 0	.588	192	0 0	.542
193	0 0	.542	194	0 0	.542	195	0 0	.497	196	0 0	.497
197	0 0	.497	198	0 0	.497	199	0 0	.452	200	0 0	.497
201	0 0	.633	202	0 0	.588	203	0 0	1.085	204	0 0	.949
205	0 0	.859	206	0 0	1.175	207	0 0	1.085	208	0 0	1.808
209	0 0	1.401	210	0 0	.904	211	0 0	.814	212	0 0	.768
213	0 0	.723	214	0 0	.678	215	0 0	.678	216	0 0	.723
217	0 0	.814	218	0 0	.814	219	0 0	.723	220	0 0	.633
221	0 0	.588									
	21	221									
1	0 0	-.542	2	0 0	-.497	3	0 0	-.452	4	0 0	-.429
5	0 0	-.398	6	0 0	-.375	7	0 0	-.362	8	0 0	-.362
9	0 0	-.371	10	0 0	-.353	11	0 0	-.312	12	0 0	-.303
13	0 0	-.371	14	0 0	-.859	15	0 0	-.402	16	0 0	-.316
17	0 0	-.267	18	0 0	-.235	19	0 0	-.208	20	0 0	-.194
21	0 0	-.199	22	0 0	-.249	23	0 0	-.194	24	0 0	-.181
25	0 0	-.176	26	0 0	-.176	27	0 0	-.185	28	0 0	-.185
29	0 0	-.163	30	0 0	-.149	31	0 0	-.149	32	0 0	-.154
33	0 0	-.145	34	0 0	-.145	35	0 0	-.181	36	0 0	-.149
37	0 0	-.140	38	0 0	-.131	39	0 0	-.155	40	0 0	-.154
41	0 0	-.154	42	0 0	-.152	43	0 0	-.150	44	0 0	-.167
45	0 0	-.155	46	0 0	-.154	47	0 0	-.157	48	0 0	-.163
49	0 0	-.380	50	0 0	-.235	51	0 0	-.163	52	0 0	-.145
53	0 0	-.131	54	0 0	-.155	55	0 0	-.150	56	0 0	-.150
57	0 0	-.149	58	0 0	-.149	59	0 0	-.150	60	0 0	-.150
61	0 0	-.155	62	0 0	-.131	63	0 0	-.150	64	0 0	-.150
65	0 0	-.152	66	0 0	-.155	67	0 0	-.157	68	0 0	-.155
69	0 0	-.155	70	0 0	-.152	71	0 0	-.150	72	0 0	-.155
73	0 0	-.131	74	0 0	-.157	75	0 0	-.157	76	0 0	-1.944
77	0 0	-12.928	78	0 0	-3.661	79	0 0	-1.040	80	0 0	-.588
81	0 0	-.448	82	0 0	-.402	83	0 0	-.375	84	0 0	-.375
85	0 0	-.393	86	0 0	-.353	87	0 0	-.325	88	0 0	-.330
89	0 0	-.325	90	0 0	-.303	91	0 0	-.280	92	0 0	-.271
93	0 0	-.267	94	0 0	-.258	95	0 0	-.253	96	0 0	-.262
97	0 0	-.357	98	0 0	-.380	99	0 0	-.289	100	0 0	-.303
101	0 0	-.258	102	0 0	-.244	103	0 0	-.217	104	0 0	-.208
105	0 0	-.208	106	0 0	-.208	107	0 0	-.199	108	0 0	-.181
109	0 0	-.172	110	0 0	-.176	111	0 0	-.176	112	0 0	-.176
113	0 0	-.172	114	0 0	-.163	115	0 0	-.267	116	0 0	-.344
117	0 0	-.176	118	0 0	-.158	119	0 0	-.154	120	0 0	-.154
121	0 0	-.145	122	0 0	-.140	123	0 0	-.136	124	0 0	-.155
125	0 0	-.155	126	0 0	-.155	127	0 0	-.157	128	0 0	-.155
129	0 0	-.155	130	0 0	-.157	131	0 0	-.157	132	0 0	-.172
133	0 0	-.172	134	0 0	-.136	135	0 0	-.163	136	0 0	-.262
137	0 0	-.194	138	0 0	-.155	139	0 0	-.150	140	0 0	-.149
141	0 0	-.147	142	0 0	-.307	143	0 0	-.307	144	0 0	-.497
145	0 0	-.167	146	0 0	-.131	147	0 0	-.152	148	0 0	-.150

149	0 0	-.371	150	0 0	-.380	151	0 0	-.208	152	0 0	-.149
153	0 0	-.131	154	0 0	-.136	155	0 0	-.339	156	0 0	-2.396
157	0 0	-4.159	158	0 0	-2.667	159	0 0	-1.266	160	0 0	-.904
161	0 0	-.768	162	0 0	-1.627	163	0 0	-2.079	164	0 0	-1.356
165	0 0	-.994	166	0 0	-.859	167	0 0	-.768	168	0 0	-.723
169	0 0	-.723	170	0 0	-1.989	171	0 0	-2.034	172	0 0	-1.311
173	0 0	-1.040	174	0 0	-.904	175	0 0	-.814	176	0 0	-.768
177	0 0	-.723	178	0 0	-.723	179	0 0	-.768	180	0 0	-.678
181	0 0	-.633	182	0 0	-.768	183	0 0	-.768	184	0 0	-.678
185	0 0	-.633	186	0 0	-.588	187	0 0	-.588	188	0 0	-.633
189	0 0	-.723	190	0 0	-.633	191	0 0	-.588	192	0 0	-.542
193	0 0	-.542	194	0 0	-.542	195	0 0	-.497	196	0 0	-.497
197	0 0	-.497	198	0 0	-.497	199	0 0	-.452	200	0 0	-.497
201	0 0	-.633	202	0 0	-.588	203	0 0	-1.085	204	0 0	-.949
205	0 0	-.859	206	0 0	-1.175	207	0 0	-1.085	208	0 0	-1.808
209	0 0	-1.401	210	0 0	-.904	211	0 0	-.814	212	0 0	-.768
213	0 0	-.723	214	0 0	-.678	215	0 0	-.678	216	0 0	-.723
217	0 0	-.814	218	0 0	-.814	219	0 0	-.723	220	0 0	-.633
221	0 0	-.588									
22		221									
1	0 0	.438	2	0 0	.402	3	0 0	.365	4	0 0	.347
5	0 0	.322	6	0 0	.303	7	0 0	.292	8	0 0	.292
9	0 0	.300	10	0 0	.285	11	0 0	.252	12	0 0	.245
13	0 0	.300	14	0 0	.694	15	0 0	.325	16	0 0	.256
17	0 0	.216	18	0 0	.190	19	0 0	.168	20	0 0	.157
21	0 0	.161	22	0 0	.201	23	0 0	.157	24	0 0	.146
25	0 0	.143	26	0 0	.143	27	0 0	.150	28	0 0	.150
29	0 0	.132	30	0 0	.121	31	0 0	.121	32	0 0	.124
33	0 0	.117	34	0 0	.117	35	0 0	.146	36	0 0	.121
37	0 0	.113	38	0 0	.106	39	0 0	.132	40	0 0	.131
41	0 0	.131	42	0 0	.130	43	0 0	.130	44	0 0	.135
45	0 0	.132	46	0 0	.131	47	0 0	.133	48	0 0	.132
49	0 0	.307	50	0 0	.190	51	0 0	.132	52	0 0	.117
53	0 0	.106	54	0 0	.132	55	0 0	.130	56	0 0	.130
57	0 0	.129	58	0 0	.129	59	0 0	.130	60	0 0	.130
61	0 0	.132	62	0 0	.106	63	0 0	.130	64	0 0	.130
65	0 0	.130	66	0 0	.132	67	0 0	.133	68	0 0	.132
69	0 0	.132	70	0 0	.130	71	0 0	.130	72	0 0	.132
73	0 0	.106	74	0 0	.133	75	0 0	.133	76	0 0	1.571
77	0 0	10.451	78	0 0	2.960	79	0 0	.840	80	0 0	.475
81	0 0	.362	82	0 0	.325	83	0 0	.303	84	0 0	.303
85	0 0	.318	86	0 0	.285	87	0 0	.263	88	0 0	.267
89	0 0	.263	90	0 0	.245	91	0 0	.227	92	0 0	.219
93	0 0	.216	94	0 0	.208	95	0 0	.205	96	0 0	.212
97	0 0	.289	98	0 0	.307	99	0 0	.234	100	0 0	.245
101	0 0	.208	102	0 0	.197	103	0 0	.175	104	0 0	.168
105	0 0	.168	106	0 0	.168	107	0 0	.161	108	0 0	.146
109	0 0	.139	110	0 0	.143	111	0 0	.143	112	0 0	.143
113	0 0	.139	114	0 0	.132	115	0 0	.216	116	0 0	.278
117	0 0	.143	118	0 0	.128	119	0 0	.124	120	0 0	.124
121	0 0	.117	122	0 0	.113	123	0 0	.110	124	0 0	.132
125	0 0	.132	126	0 0	.132	127	0 0	.133	128	0 0	.132
129	0 0	.132	130	0 0	.133	131	0 0	.133	132	0 0	.139
133	0 0	.139	134	0 0	.110	135	0 0	.132	136	0 0	.212
137	0 0	.157	138	0 0	.132	139	0 0	.130	140	0 0	.129
141	0 0	.128	142	0 0	.248	143	0 0	.248	144	0 0	.402
145	0 0	.135	146	0 0	.106	147	0 0	.130	148	0 0	.130
149	0 0	.300	150	0 0	.307	151	0 0	.168	152	0 0	.121
153	0 0	.106	154	0 0	.110	155	0 0	.274	156	0 0	1.937
157	0 0	3.362	158	0 0	2.156	159	0 0	1.023	160	0 0	.731
161	0 0	.621	162	0 0	1.315	163	0 0	1.681	164	0 0	1.096
165	0 0	.804	166	0 0	.694	167	0 0	.621	168	0 0	.585
169	0 0	.585	170	0 0	1.608	171	0 0	1.644	172	0 0	1.060

173	0 0	.840	174	0 0	.731	175	0 0	.658	176	0 0	.621
177	0 0	.585	178	0 0	.585	179	0 0	.621	180	0 0	.548
181	0 0	.512	182	0 0	.621	183	0 0	.621	184	0 0	.548
185	0 0	.512	186	0 0	.475	187	0 0	.475	188	0 0	.512
189	0 0	.585	190	0 0	.512	191	0 0	.475	192	0 0	.438
193	0 0	.438	194	0 0	.438	195	0 0	.402	196	0 0	.402
197	0 0	.402	198	0 0	.402	199	0 0	.365	200	0 0	.402
201	0 0	.512	202	0 0	.475	203	0 0	.877	204	0 0	.767
205	0 0	.694	206	0 0	.950	207	0 0	.877	208	0 0	1.462
209	0 0	1.133	210	0 0	.731	211	0 0	.658	212	0 0	.621
213	0 0	.585	214	0 0	.548	215	0 0	.548	216	0 0	.585
217	0 0	.658	218	0 0	.658	219	0 0	.585	220	0 0	.512
221	0 0	.475									
	23	221									
1	0 0	-.088	2	0 0	-.081	3	0 0	-.073	4	0 0	-.070
5	0 0	-.064	6	0 0	-.061	7	0 0	-.059	8	0 0	-.059
9	0 0	-.060	10	0 0	-.057	11	0 0	-.051	12	0 0	-.049
13	0 0	-.060	14	0 0	-.139	15	0 0	-.065	16	0 0	-.051
17	0 0	-.043	18	0 0	-.038	19	0 0	-.034	20	0 0	-.032
21	0 0	-.032	22	0 0	-.040	23	0 0	-.032	24	0 0	-.029
25	0 0	-.029	26	0 0	-.029	27	0 0	-.030	28	0 0	-.030
29	0 0	-.026	30	0 0	-.024	31	0 0	-.024	32	0 0	-.025
33	0 0	-.023	34	0 0	-.023	35	0 0	-.029	36	0 0	-.024
37	0 0	-.023	38	0 0	-.021	39	0 0	-.020	40	0 0	-.019
41	0 0	-.019	42	0 0	-.018	43	0 0	-.018	44	0 0	-.027
45	0 0	-.020	46	0 0	-.019	47	0 0	-.021	48	0 0	-.026
49	0 0	-.062	50	0 0	-.038	51	0 0	-.026	52	0 0	-.023
53	0 0	-.021	54	0 0	-.020	55	0 0	-.018	56	0 0	-.018
57	0 0	-.017	58	0 0	-.017	59	0 0	-.018	60	0 0	-.018
61	0 0	-.020	62	0 0	-.021	63	0 0	-.018	64	0 0	-.018
65	0 0	-.018	66	0 0	-.020	67	0 0	-.021	68	0 0	-.020
69	0 0	-.020	70	0 0	-.018	71	0 0	-.018	72	0 0	-.020
73	0 0	-.021	74	0 0	-.021	75	0 0	-.021	76	0 0	-.315
77	0 0	-2.096	78	0 0	-.594	79	0 0	-.169	80	0 0	-.095
81	0 0	-.073	82	0 0	-.065	83	0 0	-.061	84	0 0	-.061
85	0 0	-.064	86	0 0	-.057	87	0 0	-.053	88	0 0	-.053
89	0 0	-.053	90	0 0	-.049	91	0 0	-.045	92	0 0	-.044
93	0 0	-.043	94	0 0	-.042	95	0 0	-.041	96	0 0	-.043
97	0 0	-.058	98	0 0	-.062	99	0 0	-.047	100	0 0	-.049
101	0 0	-.042	102	0 0	-.040	103	0 0	-.035	104	0 0	-.034
105	0 0	-.034	106	0 0	-.034	107	0 0	-.032	108	0 0	-.029
109	0 0	-.028	110	0 0	-.029	111	0 0	-.029	112	0 0	-.029
113	0 0	-.028	114	0 0	-.026	115	0 0	-.043	116	0 0	-.056
117	0 0	-.029	118	0 0	-.026	119	0 0	-.025	120	0 0	-.025
121	0 0	-.023	122	0 0	-.023	123	0 0	-.022	124	0 0	-.020
125	0 0	-.020	126	0 0	-.020	127	0 0	-.021	128	0 0	-.020
129	0 0	-.020	130	0 0	-.021	131	0 0	-.021	132	0 0	-.028
133	0 0	-.028	134	0 0	-.022	135	0 0	-.026	136	0 0	-.043
137	0 0	-.032	138	0 0	-.020	139	0 0	-.018	140	0 0	-.017
141	0 0	-.016	142	0 0	-.050	143	0 0	-.050	144	0 0	-.081
145	0 0	-.027	146	0 0	-.021	147	0 0	-.018	148	0 0	-.018
149	0 0	-.060	150	0 0	-.062	151	0 0	-.034	152	0 0	-.024
153	0 0	-.021	154	0 0	-.022	155	0 0	-.055	156	0 0	-.388
157	0 0	-.674	158	0 0	-.432	159	0 0	-.205	160	0 0	-.147
161	0 0	-.125	162	0 0	-.264	163	0 0	-.337	164	0 0	-.220
165	0 0	-.161	166	0 0	-.139	167	0 0	-.125	168	0 0	-.117
169	0 0	-.117	170	0 0	-.322	171	0 0	-.330	172	0 0	-.213
173	0 0	-.169	174	0 0	-.147	175	0 0	-.132	176	0 0	-.125
177	0 0	-.117	178	0 0	-.117	179	0 0	-.125	180	0 0	-.110
181	0 0	-.103	182	0 0	-.125	183	0 0	-.125	184	0 0	-.110
185	0 0	-.103	186	0 0	-.095	187	0 0	-.095	188	0 0	-.103
189	0 0	-.117	190	0 0	-.103	191	0 0	-.095	192	0 0	-.088
193	0 0	-.088	194	0 0	-.088	195	0 0	-.081	196	0 0	-.081

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201	0 0	-.103	202	0 0	-.095	203	0 0	-.176	204	0 0	-.154
205	0 0	-.139	206	0 0	-.191	207	0 0	-.176	208	0 0	-.293
209	0 0	-.227	210	0 0	-.147	211	0 0	-.132	212	0 0	-.125
213	0 0	-.117	214	0 0	-.110	215	0 0	-.110	216	0 0	-.117
217	0 0	-.132	218	0 0	-.132	219	0 0	-.117	220	0 0	-.103
221	0 0	-.095									
	24	221									
1	0 0	-.351	2	0 0	-.321	3	0 0	-.292	4	0 0	-.278
5	0 0	-.257	6	0 0	-.242	7	0 0	-.234	8	0 0	-.234
9	0 0	-.240	10	0 0	-.228	11	0 0	-.202	12	0 0	-.196
13	0 0	-.240	14	0 0	-.555	15	0 0	-.260	16	0 0	-.204
17	0 0	-.172	18	0 0	-.152	19	0 0	-.134	20	0 0	-.126
21	0 0	-.129	22	0 0	-.161	23	0 0	-.126	24	0 0	-.117
25	0 0	-.114	26	0 0	-.114	27	0 0	-.120	28	0 0	-.120
29	0 0	-.105	30	0 0	-.096	31	0 0	-.096	32	0 0	-.099
33	0 0	-.093	34	0 0	-.093	35	0 0	-.117	36	0 0	-.096
37	0 0	-.091	38	0 0	-.085	39	0 0	-.112	40	0 0	-.112
41	0 0	-.112	42	0 0	-.112	43	0 0	-.112	44	0 0	-.108
45	0 0	-.112	46	0 0	-.112	47	0 0	-.112	48	0 0	-.105
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69	0 0	-.112	70	0 0	-.112	71	0 0	-.112	72	0 0	-.112
73	0 0	-.085	74	0 0	-.112	75	0 0	-.112	76	0 0	-1.256
77	0 0	-8.355	78	0 0	-2.366	79	0 0	-.672	80	0 0	-.380
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85	0 0	-.254	86	0 0	-.228	87	0 0	-.210	88	0 0	-.213
89	0 0	-.210	90	0 0	-.196	91	0 0	-.181	92	0 0	-.175
93	0 0	-.172	94	0 0	-.167	95	0 0	-.164	96	0 0	-.169
97	0 0	-.231	98	0 0	-.245	99	0 0	-.187	100	0 0	-.196
101	0 0	-.167	102	0 0	-.158	103	0 0	-.140	104	0 0	-.134
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109	0 0	-.111	110	0 0	-.114	111	0 0	-.114	112	0 0	-.114
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125	0 0	-.112	126	0 0	-.112	127	0 0	-.112	128	0 0	-.112
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133	0 0	-.111	134	0 0	-.088	135	0 0	-.105	136	0 0	-.169
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145	0 0	-.108	146	0 0	-.085	147	0 0	-.112	148	0 0	-.112
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153	0 0	-.085	154	0 0	-.088	155	0 0	-.219	156	0 0	-1.548
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161	0 0	-.497	162	0 0	-1.052	163	0 0	-1.344	164	0 0	-.876
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169	0 0	-.467	170	0 0	-1.285	171	0 0	-1.315	172	0 0	-.847
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177	0 0	-.467	178	0 0	-.467	179	0 0	-.497	180	0 0	-.438
181	0 0	-.409	182	0 0	-.497	183	0 0	-.497	184	0 0	-.438
185	0 0	-.409	186	0 0	-.380	187	0 0	-.380	188	0 0	-.409
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193	0 0	-.351	194	0 0	-.351	195	0 0	-.321	196	0 0	-.321
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201	0 0	-.409	202	0 0	-.380	203	0 0	-.701	204	0 0	-.613
205	0 0	-.555	206	0 0	-.760	207	0 0	-.701	208	0 0	-1.169
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157	0 0	-.783	158 0 0	-.738	159 0 0	-.695	160 0 0	-.684	
161	0 0	-.680	162 0 0	-.706	163 0 0	-.720	164 0 0	-.698	
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209	0 0	-.700	210 0 0	-.684	211 0 0	-.682	212 0 0	-.680	
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73	0 0	-.112	74	0 0	-.112	75	0 0	-.112	76	0 0	-.211
77	0 0	-1.407	78	0 0	-.398	79	0 0	-.113	80	0 0	-.112
81	0 0	-.112	82	0 0	-.112	83	0 0	-.112	84	0 0	-.112
85	0 0	-.112	86	0 0	-.112	87	0 0	-.112	88	0 0	-.112
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153	0 0	-.112	154	0 0	-.112	155	0 0	-.112	156	0 0	-.261
157	0 0	-.453	158	0 0	-.290	159	0 0	-.138	160	0 0	-.098
161	0 0	-.112	162	0 0	-.177	163	0 0	-.226	164	0 0	-.148
165	0 0	-.108	166	0 0	-.093	167	0 0	-.112	168	0 0	-.112
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173	0 0	-.113	174	0 0	-.098	175	0 0	-.089	176	0 0	-.112
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205	0 0	-.093	206	0 0	-.128	207	0 0	-.118	208	0 0	-.197
209	0 0	-.152	210	0 0	-.098	211	0 0	-.089	212	0 0	-.112
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13	0 0	-.005	14	0 0	-.012	15	0 0	-.006	16	0 0	-.005
17	0 0	-.004	18	0 0	-.003	19	0 0	-.003	20	0 0	-.003
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49	0 0	-.006	50	0 0	-.003	51	0 0	-.002	52	0 0	-.002
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57	0 0	-.002	58	0 0	-.002	59	0 0	-.002	60	0 0	-.002
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73	0 0	-.002	74	0 0	-.002	75	0 0	-.002	76	0 0	-.028
77	0 0	-.188	78	0 0	-.053	79	0 0	-.015	80	0 0	-.009
81	0 0	-.007	82	0 0	-.006	83	0 0	-.005	84	0 0	-.005
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121	0 0	-.002	122	0 0	-.002	123	0 0	-.002	124	0 0	-.002
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145	0 0	-.002	146	0 0	-.002	147	0 0	-.002	148	0 0	-.002
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157	0 0	-.060	158	0 0	-.039	159	0 0	-.018	160	0 0	-.013
161	0 0	-.011	162	0 0	-.024	163	0 0	-.030	164	0 0	-.020
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193	0 0	-.008	194	0 0	-.008	195	0 0	-.007	196	0 0	-.007
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201	0 0	-.009	202	0 0	-.009	203	0 0	-.016	204	0 0	-.014
205	0 0	-.012	206	0 0	-.017	207	0 0	-.016	208	0 0	-.026
209	0 0	-.020	210	0 0	-.013	211	0 0	-.012	212	0 0	-.011
213	0 0	-.011	214	0 0	-.010	215	0 0	-.010	216	0 0	-.011
217	0 0	-.012	218	0 0	-.012	219	0 0	-.011	220	0 0	-.009
221	0 0	-.009									
28		221									
1	0 0	-.009	2	0 0	-.009	3	0 0	-.008	4	0 0	-.007
5	0 0	-.007	6	0 0	-.006	7	0 0	-.006	8	0 0	-.006
9	0 0	-.006	10	0 0	-.006	11	0 0	-.005	12	0 0	-.005
13	0 0	-.006	14	0 0	-.015	15	0 0	-.007	16	0 0	-.005
17	0 0	-.005	18	0 0	-.004	19	0 0	-.004	20	0 0	-.003
21	0 0	-.003	22	0 0	-.004	23	0 0	-.003	24	0 0	-.003
25	0 0	-.003	26	0 0	-.003	27	0 0	-.003	28	0 0	-.003
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41	0 0	-.002	42	0 0	-.002	43	0 0	-.002	44	0 0	-.003
45	0 0	-.002	46	0 0	-.002	47	0 0	-.002	48	0 0	-.003
49	0 0	-.007	50	0 0	-.004	51	0 0	-.003	52	0 0	-.002
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65	0 0	-.002	66	0 0	-.002	67	0 0	-.002	68	0 0	-.002
69	0 0	-.002	70	0 0	-.002	71	0 0	-.002	72	0 0	-.002
73	0 0	-.002	74	0 0	-.002	75	0 0	-.002	76	0 0	-.033
77	0 0	-.222	78	0 0	-.063	79	0 0	-.018	80	0 0	-.010
81	0 0	-.008	82	0 0	-.007	83	0 0	-.006	84	0 0	-.006
85	0 0	-.007	86	0 0	-.006	87	0 0	-.006	88	0 0	-.006
89	0 0	-.006	90	0 0	-.005	91	0 0	-.005	92	0 0	-.005
93	0 0	-.005	94	0 0	-.004	95	0 0	-.004	96	0 0	-.005
97	0 0	-.006	98	0 0	-.007	99	0 0	-.005	100	0 0	-.005
101	0 0	-.004	102	0 0	-.004	103	0 0	-.004	104	0 0	-.004
105	0 0	-.004	106	0 0	-.004	107	0 0	-.003	108	0 0	-.003
109	0 0	-.003	110	0 0	-.003	111	0 0	-.003	112	0 0	-.003
113	0 0	-.003	114	0 0	-.003	115	0 0	-.005	116	0 0	-.006
117	0 0	-.003	118	0 0	-.003	119	0 0	-.003	120	0 0	-.003
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153	0 0	-.002	154	0 0	-.002	155	0 0	-.006	156	0 0	-.041
157	0 0	-.071	158	0 0	-.046	159	0 0	-.022	160	0 0	-.016
161	0 0	-.013	162	0 0	-.028	163	0 0	-.036	164	0 0	-.023
165	0 0	-.017	166	0 0	-.015	167	0 0	-.013	168	0 0	-.012
169	0 0	-.012	170	0 0	-.034	171	0 0	-.035	172	0 0	-.023
173	0 0	-.018	174	0 0	-.016	175	0 0	-.014	176	0 0	-.013
177	0 0	-.012	178	0 0	-.012	179	0 0	-.013	180	0 0	-.012
181	0 0	-.011	182	0 0	-.013	183	0 0	-.013	184	0 0	-.012
185	0 0	-.011	186	0 0	-.010	187	0 0	-.010	188	0 0	-.011
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193	0 0	-.009	194	0 0	-.009	195	0 0	-.009	196	0 0	-.009
197	0 0	-.009	198	0 0	-.009	199	0 0	-.008	200	0 0	-.009
201	0 0	-.011	202	0 0	-.010	203	0 0	-.019	204	0 0	-.016
205	0 0	-.015	206	0 0	-.020	207	0 0	-.019	208	0 0	-.031
209	0 0	-.024	210	0 0	-.016	211	0 0	-.014	212	0 0	-.013
213	0 0	-.012	214	0 0	-.012	215	0 0	-.012	216	0 0	-.012
217	0 0	-.014	218	0 0	-.014	219	0 0	-.012	220	0 0	-.011
221	0 0	-.010									
29		221									
1	0 0	-.022	2	0 0	-.020	3	0 0	-.018	4	0 0	-.017
5	0 0	-.016	6	0 0	-.015	7	0 0	-.015	8	0 0	-.015
9	0 0	-.015	10	0 0	-.014	11	0 0	-.013	12	0 0	-.012
13	0 0	-.015	14	0 0	-.035	15	0 0	-.016	16	0 0	-.013
17	0 0	-.011	18	0 0	-.010	19	0 0	-.008	20	0 0	-.008
21	0 0	-.008	22	0 0	-.010	23	0 0	-.008	24	0 0	-.007
25	0 0	-.007	26	0 0	-.007	27	0 0	-.008	28	0 0	-.008
29	0 0	-.007	30	0 0	-.006	31	0 0	-.006	32	0 0	-.006
33	0 0	-.006	34	0 0	-.006	35	0 0	-.007	36	0 0	-.006
37	0 0	-.006	38	0 0	-.005	39	0 0	-.005	40	0 0	-.005
41	0 0	-.005	42	0 0	-.005	43	0 0	-.004	44	0 0	-.007
45	0 0	-.005	46	0 0	-.005	47	0 0	-.005	48	0 0	-.007
49	0 0	-.015	50	0 0	-.010	51	0 0	-.007	52	0 0	-.006
53	0 0	-.005	54	0 0	-.005	55	0 0	-.004	56	0 0	-.004
57	0 0	-.004	58	0 0	-.004	59	0 0	-.004	60	0 0	-.004
61	0 0	-.005	62	0 0	-.005	63	0 0	-.004	64	0 0	-.004
65	0 0	-.005	66	0 0	-.005	67	0 0	-.005	68	0 0	-.005
69	0 0	-.005	70	0 0	-.005	71	0 0	-.004	72	0 0	-.005
73	0 0	-.005	74	0 0	-.005	75	0 0	-.005	76	0 0	-.079
77	0 0	-.524	78	0 0	-.148	79	0 0	-.042	80	0 0	-.024
81	0 0	-.018	82	0 0	-.016	83	0 0	-.015	84	0 0	-.015
85	0 0	-.016	86	0 0	-.014	87	0 0	-.013	88	0 0	-.013

89	0 0	-.013	90	0 0	-.012	91	0 0	-.011	92	0 0	-.011
93	0 0	-.011	94	0 0	-.010	95	0 0	-.010	96	0 0	-.011
97	0 0	-.014	98	0 0	-.015	99	0 0	-.012	100	0 0	-.012
101	0 0	-.010	102	0 0	-.010	103	0 0	-.009	104	0 0	-.008
105	0 0	-.008	106	0 0	-.008	107	0 0	-.008	108	0 0	-.007
109	0 0	-.007	110	0 0	-.007	111	0 0	-.007	112	0 0	-.007
113	0 0	-.007	114	0 0	-.007	115	0 0	-.011	116	0 0	-.014
117	0 0	-.007	118	0 0	-.006	119	0 0	-.006	120	0 0	-.006
121	0 0	-.006	122	0 0	-.006	123	0 0	-.005	124	0 0	-.005
125	0 0	-.005	126	0 0	-.005	127	0 0	-.005	128	0 0	-.005
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133	0 0	-.007	134	0 0	-.005	135	0 0	-.007	136	0 0	-.011
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141	0 0	-.004	142	0 0	-.012	143	0 0	-.012	144	0 0	-.020
145	0 0	-.007	146	0 0	-.005	147	0 0	-.005	148	0 0	-.004
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153	0 0	-.005	154	0 0	-.005	155	0 0	-.014	156	0 0	-.097
157	0 0	-.169	158	0 0	-.108	159	0 0	-.051	160	0 0	-.037
161	0 0	-.031	162	0 0	-.066	163	0 0	-.084	164	0 0	-.055
165	0 0	-.040	166	0 0	-.035	167	0 0	-.031	168	0 0	-.029
169	0 0	-.029	170	0 0	-.081	171	0 0	-.082	172	0 0	-.053
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177	0 0	-.029	178	0 0	-.029	179	0 0	-.031	180	0 0	-.027
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185	0 0	-.026	186	0 0	-.024	187	0 0	-.024	188	0 0	-.026
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193	0 0	-.022	194	0 0	-.022	195	0 0	-.020	196	0 0	-.020
197	0 0	-.020	198	0 0	-.020	199	0 0	-.018	200	0 0	-.020
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213	0 0	-.029	214	0 0	-.027	215	0 0	-.027	216	0 0	-.029
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221	0 0	-.024									
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1	0 0	-.021	2	0 0	-.019	3	0 0	-.017	4	0 0	-.016
5	0 0	-.015	6	0 0	-.014	7	0 0	-.014	8	0 0	-.014
9	0 0	-.014	10	0 0	-.013	11	0 0	-.012	12	0 0	-.011
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17	0 0	-.010	18	0 0	-.009	19	0 0	-.008	20	0 0	-.007
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25	0 0	-.007	26	0 0	-.007	27	0 0	-.007	28	0 0	-.007
29	0 0	-.006	30	0 0	-.006	31	0 0	-.006	32	0 0	-.006
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41	0 0	-.004	42	0 0	-.004	43	0 0	-.004	44	0 0	-.006
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57	0 0	-.004	58	0 0	-.004	59	0 0	-.004	60	0 0	-.004
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73	0 0	-.005	74	0 0	-.005	75	0 0	-.005	76	0 0	-.074
77	0 0	-.490	78	0 0	-.139	79	0 0	-.039	80	0 0	-.022
81	0 0	-.017	82	0 0	-.015	83	0 0	-.014	84	0 0	-.014
85	0 0	-.015	86	0 0	-.013	87	0 0	-.012	88	0 0	-.013
89	0 0	-.012	90	0 0	-.011	91	0 0	-.011	92	0 0	-.010
93	0 0	-.010	94	0 0	-.010	95	0 0	-.010	96	0 0	-.010
97	0 0	-.014	98	0 0	-.014	99	0 0	-.011	100	0 0	-.011
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105	0 0	-.008	106	0 0	-.008	107	0 0	-.008	108	0 0	-.007
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121	0 0	-.005	122	0 0	-.005	123	0 0	-.005	124	0 0	-.005
125	0 0	-.005	126	0 0	-.005	127	0 0	-.005	128	0 0	-.005
129	0 0	-.005	130	0 0	-.005	131	0 0	-.005	132	0 0	-.007
133	0 0	-.007	134	0 0	-.005	135	0 0	-.006	136	0 0	-.010
137	0 0	-.007	138	0 0	-.005	139	0 0	-.004	140	0 0	-.004
141	0 0	-.004	142	0 0	-.012	143	0 0	-.012	144	0 0	-.019
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153	0 0	-.005	154	0 0	-.005	155	0 0	-.013	156	0 0	-.091
157	0 0	-.158	158	0 0	-.101	159	0 0	-.048	160	0 0	-.034
161	0 0	-.029	162	0 0	-.062	163	0 0	-.079	164	0 0	-.051
165	0 0	-.038	166	0 0	-.033	167	0 0	-.029	168	0 0	-.027
169	0 0	-.027	170	0 0	-.075	171	0 0	-.077	172	0 0	-.050
173	0 0	-.039	174	0 0	-.034	175	0 0	-.031	176	0 0	-.029
177	0 0	-.027	178	0 0	-.027	179	0 0	-.029	180	0 0	-.026
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185	0 0	-.024	186	0 0	-.022	187	0 0	-.022	188	0 0	-.024
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193	0 0	-.021	194	0 0	-.021	195	0 0	-.019	196	0 0	-.019
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201	0 0	-.024	202	0 0	-.022	203	0 0	-.041	204	0 0	-.036
205	0 0	-.033	206	0 0	-.045	207	0 0	-.041	208	0 0	-.069
209	0 0	-.053	210	0 0	-.034	211	0 0	-.031	212	0 0	-.029
213	0 0	-.027	214	0 0	-.026	215	0 0	-.026	216	0 0	-.027
217	0 0	-.031	218	0 0	-.031	219	0 0	-.027	220	0 0	-.024
221	0 0	-.022									
	31		221								
1	0 0	-.013	2	0 0	-.012	3	0 0	-.011	4	0 0	-.010
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9	0 0	-.009	10	0 0	-.008	11	0 0	-.007	12	0 0	-.007
13	0 0	-.009	14	0 0	-.020	15	0 0	-.010	16	0 0	-.008
17	0 0	-.006	18	0 0	-.006	19	0 0	-.005	20	0 0	-.005
21	0 0	-.005	22	0 0	-.006	23	0 0	-.005	24	0 0	-.004
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29	0 0	-.004	30	0 0	-.004	31	0 0	-.004	32	0 0	-.004
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37	0 0	-.003	38	0 0	-.003	39	0 0	-.003	40	0 0	-.003
41	0 0	-.003	42	0 0	-.003	43	0 0	-.003	44	0 0	-.004
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57	0 0	-.002	58	0 0	-.002	59	0 0	-.003	60	0 0	-.003
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77	0 0	-.308	78	0 0	-.087	79	0 0	-.025	80	0 0	-.014
81	0 0	-.011	82	0 0	-.010	83	0 0	-.009	84	0 0	-.009
85	0 0	-.009	86	0 0	-.008	87	0 0	-.008	88	0 0	-.008
89	0 0	-.008	90	0 0	-.007	91	0 0	-.007	92	0 0	-.006
93	0 0	-.006	94	0 0	-.006	95	0 0	-.006	96	0 0	-.006
97	0 0	-.008	98	0 0	-.009	99	0 0	-.007	100	0 0	-.007
101	0 0	-.006	102	0 0	-.006	103	0 0	-.005	104	0 0	-.005
105	0 0	-.005	106	0 0	-.005	107	0 0	-.005	108	0 0	-.004
109	0 0	-.004	110	0 0	-.004	111	0 0	-.004	112	0 0	-.004
113	0 0	-.004	114	0 0	-.004	115	0 0	-.006	116	0 0	-.008
117	0 0	-.004	118	0 0	-.004	119	0 0	-.004	120	0 0	-.004
121	0 0	-.003	122	0 0	-.003	123	0 0	-.003	124	0 0	-.003
125	0 0	-.003	126	0 0	-.003	127	0 0	-.003	128	0 0	-.003
129	0 0	-.003	130	0 0	-.003	131	0 0	-.003	132	0 0	-.004
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145	0 0	-.004	146	0 0	-.003	147	0 0	-.003	148	0 0	-.003
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153	0 0	-.003	154	0 0	-.003	155	0 0	-.008	156	0 0	-.057
157	0 0	-.099	158	0 0	-.063	159	0 0	-.030	160	0 0	-.022
161	0 0	-.018	162	0 0	-.039	163	0 0	-.049	164	0 0	-.032
165	0 0	-.024	166	0 0	-.020	167	0 0	-.018	168	0 0	-.017
169	0 0	-.017	170	0 0	-.047	171	0 0	-.048	172	0 0	-.031
173	0 0	-.025	174	0 0	-.022	175	0 0	-.019	176	0 0	-.018
177	0 0	-.017	178	0 0	-.017	179	0 0	-.018	180	0 0	-.016
181	0 0	-.015	182	0 0	-.018	183	0 0	-.018	184	0 0	-.016
185	0 0	-.015	186	0 0	-.014	187	0 0	-.014	188	0 0	-.015
189	0 0	-.017	190	0 0	-.015	191	0 0	-.014	192	0 0	-.013
193	0 0	-.013	194	0 0	-.013	195	0 0	-.012	196	0 0	-.012
197	0 0	-.012	198	0 0	-.012	199	0 0	-.011	200	0 0	-.012
201	0 0	-.015	202	0 0	-.014	203	0 0	-.026	204	0 0	-.023
205	0 0	-.020	206	0 0	-.028	207	0 0	-.026	208	0 0	-.043
209	0 0	-.033	210	0 0	-.022	211	0 0	-.019	212	0 0	-.018
213	0 0	-.017	214	0 0	-.016	215	0 0	-.016	216	0 0	-.017
217	0 0	-.019	218	0 0	-.019	219	0 0	-.017	220	0 0	-.015
221	0 0	-.014									
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	221										
1	0 0	-.009	2	0 0	-.008	3	0 0	-.007	4	0 0	-.007
5	0 0	-.006	6	0 0	-.006	7	0 0	-.006	8	0 0	-.006
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17	0 0	-.004	18	0 0	-.004	19	0 0	-.003	20	0 0	-.003
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25	0 0	-.003	26	0 0	-.003	27	0 0	-.003	28	0 0	-.003
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41	0 0	-.002	42	0 0	-.002	43	0 0	-.002	44	0 0	-.003
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65	0 0	-.002	66	0 0	-.002	67	0 0	-.002	68	0 0	-.002
69	0 0	-.002	70	0 0	-.002	71	0 0	-.002	72	0 0	-.002
73	0 0	-.002	74	0 0	-.002	75	0 0	-.002	76	0 0	-.031
77	0 0	-.205	78	0 0	-.058	79	0 0	-.016	80	0 0	-.009
81	0 0	-.007	82	0 0	-.006	83	0 0	-.006	84	0 0	-.006
85	0 0	-.006	86	0 0	-.006	87	0 0	-.005	88	0 0	-.005
89	0 0	-.005	90	0 0	-.005	91	0 0	-.004	92	0 0	-.004
93	0 0	-.004	94	0 0	-.004	95	0 0	-.004	96	0 0	-.004
97	0 0	-.006	98	0 0	-.006	99	0 0	-.005	100	0 0	-.005
101	0 0	-.004	102	0 0	-.004	103	0 0	-.003	104	0 0	-.003
105	0 0	-.003	106	0 0	-.003	107	0 0	-.003	108	0 0	-.003
109	0 0	-.003	110	0 0	-.003	111	0 0	-.003	112	0 0	-.003
113	0 0	-.003	114	0 0	-.003	115	0 0	-.004	116	0 0	-.005
117	0 0	-.003	118	0 0	-.003	119	0 0	-.002	120	0 0	-.002
121	0 0	-.002	122	0 0	-.002	123	0 0	-.002	124	0 0	-.002
125	0 0	-.002	126	0 0	-.002	127	0 0	-.002	128	0 0	-.002
129	0 0	-.002	130	0 0	-.002	131	0 0	-.002	132	0 0	-.003
133	0 0	-.003	134	0 0	-.002	135	0 0	-.003	136	0 0	-.004
137	0 0	-.003	138	0 0	-.002	139	0 0	-.002	140	0 0	-.002
141	0 0	-.002	142	0 0	-.005	143	0 0	-.005	144	0 0	-.008
145	0 0	-.003	146	0 0	-.002	147	0 0	-.002	148	0 0	-.002
149	0 0	-.006	150	0 0	-.006	151	0 0	-.003	152	0 0	-.002
153	0 0	-.002	154	0 0	-.002	155	0 0	-.005	156	0 0	-.038
157	0 0	-.066	158	0 0	-.042	159	0 0	-.020	160	0 0	-.014

161	0 0	-.012	162	0 0	-.026	163	0 0	-.033	164	0 0	-.022
165	0 0	-.016	166	0 0	-.014	167	0 0	-.012	168	0 0	-.011
169	0 0	-.011	170	0 0	-.032	171	0 0	-.032	172	0 0	-.021
173	0 0	-.016	174	0 0	-.014	175	0 0	-.013	176	0 0	-.012
177	0 0	-.011	178	0 0	-.011	179	0 0	-.012	180	0 0	-.011
181	0 0	-.010	182	0 0	-.012	183	0 0	-.012	184	0 0	-.011
185	0 0	-.010	186	0 0	-.009	187	0 0	-.009	188	0 0	-.010
189	0 0	-.011	190	0 0	-.010	191	0 0	-.009	192	0 0	-.009
193	0 0	-.009	194	0 0	-.009	195	0 0	-.008	196	0 0	-.008
197	0 0	-.008	198	0 0	-.008	199	0 0	-.007	200	0 0	-.008
201	0 0	-.010	202	0 0	-.009	203	0 0	-.017	204	0 0	-.015
205	0 0	-.014	206	0 0	-.019	207	0 0	-.017	208	0 0	-.029
209	0 0	-.022	210	0 0	-.014	211	0 0	-.013	212	0 0	-.012
213	0 0	-.011	214	0 0	-.011	215	0 0	-.011	216	0 0	-.011
217	0 0	-.013	218	0 0	-.013	219	0 0	-.011	220	0 0	-.010
221	0 0	-.009									
	33		221								
1	0 0	-.155	2	0 0	-.142	3	0 0	-.129	4	0 0	-.122
5	0 0	-.147	6	0 0	-.145	7	0 0	-.144	8	0 0	-.144
9	0 0	-.145	10	0 0	-.143	11	0 0	-.140	12	0 0	-.139
13	0 0	-.145	14	0 0	-.245	15	0 0	-.148	16	0 0	-.140
17	0 0	-.136	18	0 0	-.133	19	0 0	-.130	20	0 0	-.129
21	0 0	-.130	22	0 0	-.134	23	0 0	-.129	24	0 0	-.128
25	0 0	-.128	26	0 0	-.128	27	0 0	-.128	28	0 0	-.128
29	0 0	-.126	30	0 0	-.125	31	0 0	-.125	32	0 0	-.126
33	0 0	-.125	34	0 0	-.125	35	0 0	-.128	36	0 0	-.125
37	0 0	-.124	38	0 0	-.124	39	0 0	-.123	40	0 0	-.122
41	0 0	-.122	42	0 0	-.122	43	0 0	-.122	44	0 0	-.127
45	0 0	-.123	46	0 0	-.122	47	0 0	-.123	48	0 0	-.126
49	0 0	-.146	50	0 0	-.133	51	0 0	-.126	52	0 0	-.125
53	0 0	-.124	54	0 0	-.123	55	0 0	-.122	56	0 0	-.122
57	0 0	-.121	58	0 0	-.121	59	0 0	-.122	60	0 0	-.122
61	0 0	-.123	62	0 0	-.124	63	0 0	-.122	64	0 0	-.122
65	0 0	-.122	66	0 0	-.123	67	0 0	-.123	68	0 0	-.123
69	0 0	-.123	70	0 0	-.122	71	0 0	-.122	72	0 0	-.123
73	0 0	-.124	74	0 0	-.123	75	0 0	-.123	76	0 0	-.554
77	0 0	-3.685	78	0 0	-1.044	79	0 0	-.296	80	0 0	-.167
81	0 0	-.128	82	0 0	-.148	83	0 0	-.145	84	0 0	-.145
85	0 0	-.147	86	0 0	-.143	87	0 0	-.141	88	0 0	-.141
89	0 0	-.141	90	0 0	-.139	91	0 0	-.137	92	0 0	-.136
93	0 0	-.136	94	0 0	-.135	95	0 0	-.134	96	0 0	-.135
97	0 0	-.144	98	0 0	-.146	99	0 0	-.138	100	0 0	-.139
101	0 0	-.135	102	0 0	-.134	103	0 0	-.131	104	0 0	-.130
105	0 0	-.130	106	0 0	-.130	107	0 0	-.130	108	0 0	-.128
109	0 0	-.127	110	0 0	-.128	111	0 0	-.128	112	0 0	-.128
113	0 0	-.127	114	0 0	-.126	115	0 0	-.136	116	0 0	-.142
117	0 0	-.128	118	0 0	-.126	119	0 0	-.126	120	0 0	-.126
121	0 0	-.125	122	0 0	-.124	123	0 0	-.124	124	0 0	-.123
125	0 0	-.123	126	0 0	-.123	127	0 0	-.123	128	0 0	-.123
129	0 0	-.123	130	0 0	-.123	131	0 0	-.123	132	0 0	-.127
133	0 0	-.127	134	0 0	-.124	135	0 0	-.126	136	0 0	-.135
137	0 0	-.129	138	0 0	-.123	139	0 0	-.122	140	0 0	-.121
141	0 0	-.121	142	0 0	-.139	143	0 0	-.139	144	0 0	-.142
145	0 0	-.127	146	0 0	-.124	147	0 0	-.122	148	0 0	-.122
149	0 0	-.145	150	0 0	-.146	151	0 0	-.130	152	0 0	-.125
153	0 0	-.124	154	0 0	-.124	155	0 0	-.142	156	0 0	-.683
157	0 0	-1.185	158	0 0	-.760	159	0 0	-.361	160	0 0	-.258
161	0 0	-.219	162	0 0	-.464	163	0 0	-.593	164	0 0	-.387
165	0 0	-.283	166	0 0	-.245	167	0 0	-.219	168	0 0	-.206
169	0 0	-.206	170	0 0	-.567	171	0 0	-.580	172	0 0	-.374
173	0 0	-.296	174	0 0	-.258	175	0 0	-.232	176	0 0	-.219
177	0 0	-.206	178	0 0	-.206	179	0 0	-.219	180	0 0	-.193
181	0 0	-.180	182	0 0	-.219	183	0 0	-.219	184	0 0	-.193

185	0 0	-.180	186	0 0	-.167	187	0 0	-.167	188	0 0	-.180
189	0 0	-.206	190	0 0	-.180	191	0 0	-.167	192	0 0	-.155
193	0 0	-.155	194	0 0	-.155	195	0 0	-.142	196	0 0	-.142
197	0 0	-.142	198	0 0	-.142	199	0 0	-.129	200	0 0	-.142
201	0 0	-.180	202	0 0	-.167	203	0 0	-.309	204	0 0	-.271
205	0 0	-.245	206	0 0	-.335	207	0 0	-.309	208	0 0	-.515
209	0 0	-.399	210	0 0	-.258	211	0 0	-.232	212	0 0	-.219
213	0 0	-.206	214	0 0	-.193	215	0 0	-.193	216	0 0	-.206
217	0 0	-.232	218	0 0	-.232	219	0 0	-.206	220	0 0	-.180
221	0 0	-.167									
	34	221									
1	0 0	.143	2	0 0	.131	3	0 0	.119	4	0 0	.114
5	0 0	.139	6	0 0	.137	7	0 0	.137	8	0 0	.137
9	0 0	.137	10	0 0	.136	11	0 0	.133	12	0 0	.133
13	0 0	.137	14	0 0	.227	15	0 0	.139	16	0 0	.133
17	0 0	.130	18	0 0	.128	19	0 0	.126	20	0 0	.125
21	0 0	.125	22	0 0	.129	23	0 0	.125	24	0 0	.124
25	0 0	.124	26	0 0	.124	27	0 0	.125	28	0 0	.125
29	0 0	.123	30	0 0	.122	31	0 0	.122	32	0 0	.122
33	0 0	.122	34	0 0	.122	35	0 0	.124	36	0 0	.122
37	0 0	.122	38	0 0	.121	39	0 0	.120	40	0 0	.120
41	0 0	.120	42	0 0	.120	43	0 0	.119	44	0 0	.123
45	0 0	.120	46	0 0	.120	47	0 0	.121	48	0 0	.123
49	0 0	.138	50	0 0	.128	51	0 0	.123	52	0 0	.122
53	0 0	.121	54	0 0	.120	55	0 0	.119	56	0 0	.119
57	0 0	.119	58	0 0	.119	59	0 0	.119	60	0 0	.119
61	0 0	.120	62	0 0	.121	63	0 0	.119	64	0 0	.119
65	0 0	.120	66	0 0	.120	67	0 0	.121	68	0 0	.120
69	0 0	.120	70	0 0	.120	71	0 0	.119	72	0 0	.120
73	0 0	.121	74	0 0	.121	75	0 0	.121	76	0 0	.514
77	0 0	3.417	78	0 0	.968	79	0 0	.275	80	0 0	.155
81	0 0	.118	82	0 0	.139	83	0 0	.137	84	0 0	.137
85	0 0	.139	86	0 0	.136	87	0 0	.134	88	0 0	.134
89	0 0	.134	90	0 0	.133	91	0 0	.131	92	0 0	.130
93	0 0	.130	94	0 0	.129	95	0 0	.129	96	0 0	.130
97	0 0	.136	98	0 0	.138	99	0 0	.132	100	0 0	.133
101	0 0	.129	102	0 0	.129	103	0 0	.127	104	0 0	.126
105	0 0	.126	106	0 0	.126	107	0 0	.125	108	0 0	.124
109	0 0	.124	110	0 0	.124	111	0 0	.124	112	0 0	.124
113	0 0	.124	114	0 0	.123	115	0 0	.130	116	0 0	.135
117	0 0	.124	118	0 0	.123	119	0 0	.122	120	0 0	.122
121	0 0	.122	122	0 0	.122	123	0 0	.121	124	0 0	.120
125	0 0	.120	126	0 0	.120	127	0 0	.121	128	0 0	.120
129	0 0	.120	130	0 0	.121	131	0 0	.121	132	0 0	.124
133	0 0	.124	134	0 0	.121	135	0 0	.123	136	0 0	.130
137	0 0	.125	138	0 0	.120	139	0 0	.119	140	0 0	.119
141	0 0	.119	142	0 0	.133	143	0 0	.133	144	0 0	.131
145	0 0	.123	146	0 0	.121	147	0 0	.120	148	0 0	.119
149	0 0	.137	150	0 0	.138	151	0 0	.126	152	0 0	.122
153	0 0	.121	154	0 0	.121	155	0 0	.135	156	0 0	.633
157	0 0	1.099	158	0 0	.705	159	0 0	.335	160	0 0	.239
161	0 0	.203	162	0 0	.430	163	0 0	.550	164	0 0	.358
165	0 0	.263	166	0 0	.227	167	0 0	.203	168	0 0	.191
169	0 0	.191	170	0 0	.526	171	0 0	.538	172	0 0	.346
173	0 0	.275	174	0 0	.239	175	0 0	.215	176	0 0	.203
177	0 0	.191	178	0 0	.191	179	0 0	.203	180	0 0	.179
181	0 0	.167	182	0 0	.203	183	0 0	.203	184	0 0	.179
185	0 0	.167	186	0 0	.155	187	0 0	.155	188	0 0	.167
189	0 0	.191	190	0 0	.167	191	0 0	.155	192	0 0	.143
193	0 0	.143	194	0 0	.143	195	0 0	.131	196	0 0	.131
197	0 0	.131	198	0 0	.131	199	0 0	.119	200	0 0	.131
201	0 0	.167	202	0 0	.155	203	0 0	.287	204	0 0	.251
205	0 0	.227	206	0 0	.311	207	0 0	.287	208	0 0	.478

209	0 0	.370	210	0 0	.239	211	0 0	.215	212	0 0	.203
213	0 0	.191	214	0 0	.179	215	0 0	.179	216	0 0	.191
217	0 0	.215	218	0 0	.215	219	0 0	.191	220	0 0	.167
221	0 0	.155									
	35	221									
1	0 0	-.028	2	0 0	-.026	3	0 0	-.023	4	0 0	-.022
5	0 0	-.021	6	0 0	-.020	7	0 0	-.019	8	0 0	-.019
9	0 0	-.019	10	0 0	-.018	11	0 0	-.016	12	0 0	-.016
13	0 0	-.019	14	0 0	-.045	15	0 0	-.021	16	0 0	-.016
17	0 0	-.014	18	0 0	-.012	19	0 0	-.011	20	0 0	-.010
21	0 0	-.010	22	0 0	-.013	23	0 0	-.010	24	0 0	-.009
25	0 0	-.009	26	0 0	-.009	27	0 0	-.010	28	0 0	-.010
29	0 0	-.008	30	0 0	-.008	31	0 0	-.008	32	0 0	-.008
33	0 0	-.008	34	0 0	-.008	35	0 0	-.009	36	0 0	-.008
37	0 0	-.007	38	0 0	-.007	39	0 0	-.006	40	0 0	-.006
41	0 0	-.006	42	0 0	-.006	43	0 0	-.006	44	0 0	-.009
45	0 0	-.006	46	0 0	-.006	47	0 0	-.007	48	0 0	-.008
49	0 0	-.020	50	0 0	-.012	51	0 0	-.008	52	0 0	-.008
53	0 0	-.007	54	0 0	-.006	55	0 0	-.006	56	0 0	-.006
57	0 0	-.005	58	0 0	-.005	59	0 0	-.006	60	0 0	-.006
61	0 0	-.006	62	0 0	-.007	63	0 0	-.006	64	0 0	-.006
65	0 0	-.006	66	0 0	-.006	67	0 0	-.007	68	0 0	-.006
69	0 0	-.006	70	0 0	-.006	71	0 0	-.006	72	0 0	-.006
73	0 0	-.007	74	0 0	-.007	75	0 0	-.007	76	0 0	-.101
77	0 0	-.672	78	0 0	-.190	79	0 0	-.054	80	0 0	-.031
81	0 0	-.023	82	0 0	-.021	83	0 0	-.020	84	0 0	-.020
85	0 0	-.020	86	0 0	-.018	87	0 0	-.017	88	0 0	-.017
89	0 0	-.017	90	0 0	-.016	91	0 0	-.015	92	0 0	-.014
93	0 0	-.014	94	0 0	-.013	95	0 0	-.013	96	0 0	-.014
97	0 0	-.019	98	0 0	-.020	99	0 0	-.015	100	0 0	-.016
101	0 0	-.013	102	0 0	-.013	103	0 0	-.011	104	0 0	-.011
105	0 0	-.011	106	0 0	-.011	107	0 0	-.010	108	0 0	-.009
109	0 0	-.009	110	0 0	-.009	111	0 0	-.009	112	0 0	-.009
113	0 0	-.009	114	0 0	-.008	115	0 0	-.014	116	0 0	-.018
117	0 0	-.009	118	0 0	-.008	119	0 0	-.008	120	0 0	-.008
121	0 0	-.008	122	0 0	-.007	123	0 0	-.007	124	0 0	-.006
125	0 0	-.006	126	0 0	-.006	127	0 0	-.007	128	0 0	-.006
129	0 0	-.006	130	0 0	-.007	131	0 0	-.007	132	0 0	-.009
133	0 0	-.009	134	0 0	-.007	135	0 0	-.008	136	0 0	-.014
137	0 0	-.010	138	0 0	-.006	139	0 0	-.006	140	0 0	-.005
141	0 0	-.005	142	0 0	-.016	143	0 0	-.016	144	0 0	-.026
145	0 0	-.009	146	0 0	-.007	147	0 0	-.006	148	0 0	-.006
149	0 0	-.019	150	0 0	-.020	151	0 0	-.011	152	0 0	-.008
153	0 0	-.007	154	0 0	-.007	155	0 0	-.018	156	0 0	-.125
157	0 0	-.216	158	0 0	-.139	159	0 0	-.066	160	0 0	-.047
161	0 0	-.040	162	0 0	-.085	163	0 0	-.108	164	0 0	-.070
165	0 0	-.052	166	0 0	-.045	167	0 0	-.040	168	0 0	-.038
169	0 0	-.038	170	0 0	-.103	171	0 0	-.106	172	0 0	-.068
173	0 0	-.054	174	0 0	-.047	175	0 0	-.042	176	0 0	-.040
177	0 0	-.038	178	0 0	-.038	179	0 0	-.040	180	0 0	-.035
181	0 0	-.033	182	0 0	-.040	183	0 0	-.040	184	0 0	-.035
185	0 0	-.033	186	0 0	-.031	187	0 0	-.031	188	0 0	-.033
189	0 0	-.038	190	0 0	-.033	191	0 0	-.031	192	0 0	-.028
193	0 0	-.028	194	0 0	-.028	195	0 0	-.026	196	0 0	-.026
197	0 0	-.026	198	0 0	-.026	199	0 0	-.023	200	0 0	-.026
201	0 0	-.033	202	0 0	-.031	203	0 0	-.056	204	0 0	-.049
205	0 0	-.045	206	0 0	-.061	207	0 0	-.056	208	0 0	-.094
209	0 0	-.073	210	0 0	-.047	211	0 0	-.042	212	0 0	-.040
213	0 0	-.038	214	0 0	-.035	215	0 0	-.035	216	0 0	-.038
217	0 0	-.042	218	0 0	-.042	219	0 0	-.038	220	0 0	-.033
221	0 0	-.031									
	36	221									
1	0 0	-.016	2	0 0	-.014	3	0 0	-.013	4	0 0	-.012

5	0 0	-.011	6	0 0	-.011	7	0 0	-.010	8	0 0	-.010
9	0 0	-.011	10	0 0	-.010	11	0 0	-.009	12	0 0	-.009
13	0 0	-.011	14	0 0	-.025	15	0 0	-.012	16	0 0	-.009
17	0 0	-.008	18	0 0	-.007	19	0 0	-.006	20	0 0	-.006
21	0 0	-.006	22	0 0	-.007	23	0 0	-.006	24	0 0	-.005
25	0 0	-.005	26	0 0	-.005	27	0 0	-.005	28	0 0	-.005
29	0 0	-.005	30	0 0	-.004	31	0 0	-.004	32	0 0	-.004
33	0 0	-.004	34	0 0	-.004	35	0 0	-.005	36	0 0	-.004
37	0 0	-.004	38	0 0	-.004	39	0 0	-.003	40	0 0	-.003
41	0 0	-.003	42	0 0	-.003	43	0 0	-.003	44	0 0	-.005
45	0 0	-.003	46	0 0	-.003	47	0 0	-.004	48	0 0	-.005
49	0 0	-.011	50	0 0	-.007	51	0 0	-.005	52	0 0	-.004
53	0 0	-.004	54	0 0	-.003	55	0 0	-.003	56	0 0	-.003
57	0 0	-.003	58	0 0	-.003	59	0 0	-.003	60	0 0	-.003
61	0 0	-.003	62	0 0	-.004	63	0 0	-.003	64	0 0	-.003
65	0 0	-.003	66	0 0	-.003	67	0 0	-.004	68	0 0	-.003
69	0 0	-.003	70	0 0	-.003	71	0 0	-.003	72	0 0	-.003
73	0 0	-.004	74	0 0	-.004	75	0 0	-.004	76	0 0	-.056
77	0 0	-.370	78	0 0	-.105	79	0 0	-.030	80	0 0	-.017
81	0 0	-.013	82	0 0	-.012	83	0 0	-.011	84	0 0	-.011
85	0 0	-.011	86	0 0	-.010	87	0 0	-.009	88	0 0	-.009
89	0 0	-.009	90	0 0	-.009	91	0 0	-.008	92	0 0	-.008
93	0 0	-.008	94	0 0	-.007	95	0 0	-.007	96	0 0	-.008
97	0 0	-.010	98	0 0	-.011	99	0 0	-.008	100	0 0	-.009
101	0 0	-.007	102	0 0	-.007	103	0 0	-.006	104	0 0	-.006
105	0 0	-.006	106	0 0	-.006	107	0 0	-.006	108	0 0	-.005
109	0 0	-.005	110	0 0	-.005	111	0 0	-.005	112	0 0	-.005
113	0 0	-.005	114	0 0	-.005	115	0 0	-.008	116	0 0	-.010
117	0 0	-.005	118	0 0	-.005	119	0 0	-.004	120	0 0	-.004
121	0 0	-.004	122	0 0	-.004	123	0 0	-.004	124	0 0	-.003
125	0 0	-.003	126	0 0	-.003	127	0 0	-.004	128	0 0	-.003
129	0 0	-.003	130	0 0	-.004	131	0 0	-.004	132	0 0	-.005
133	0 0	-.005	134	0 0	-.004	135	0 0	-.005	136	0 0	-.008
137	0 0	-.006	138	0 0	-.003	139	0 0	-.003	140	0 0	-.003
141	0 0	-.003	142	0 0	-.009	143	0 0	-.009	144	0 0	-.014
145	0 0	-.005	146	0 0	-.004	147	0 0	-.003	148	0 0	-.003
149	0 0	-.011	150	0 0	-.011	151	0 0	-.006	152	0 0	-.004
153	0 0	-.004	154	0 0	-.004	155	0 0	-.010	156	0 0	-.069
157	0 0	-.119	158	0 0	-.076	159	0 0	-.036	160	0 0	-.026
161	0 0	-.022	162	0 0	-.047	163	0 0	-.060	164	0 0	-.039
165	0 0	-.028	166	0 0	-.025	167	0 0	-.022	168	0 0	-.021
169	0 0	-.021	170	0 0	-.057	171	0 0	-.058	172	0 0	-.038
173	0 0	-.030	174	0 0	-.026	175	0 0	-.023	176	0 0	-.022
177	0 0	-.021	178	0 0	-.021	179	0 0	-.022	180	0 0	-.019
181	0 0	-.018	182	0 0	-.022	183	0 0	-.022	184	0 0	-.019
185	0 0	-.018	186	0 0	-.017	187	0 0	-.017	188	0 0	-.018
189	0 0	-.021	190	0 0	-.018	191	0 0	-.017	192	0 0	-.016
193	0 0	-.016	194	0 0	-.016	195	0 0	-.014	196	0 0	-.014
197	0 0	-.014	198	0 0	-.014	199	0 0	-.013	200	0 0	-.014
201	0 0	-.018	202	0 0	-.017	203	0 0	-.031	204	0 0	-.027
205	0 0	-.025	206	0 0	-.034	207	0 0	-.031	208	0 0	-.052
209	0 0	-.040	210	0 0	-.026	211	0 0	-.023	212	0 0	-.022
213	0 0	-.021	214	0 0	-.019	215	0 0	-.019	216	0 0	-.021
217	0 0	-.023	218	0 0	-.023	219	0 0	-.021	220	0 0	-.018
221	0 0	-.017									
	37	221									
1	0 0	-.003	2	0 0	-.003	3	0 0	-.002	4	0 0	-.002
5	0 0	-.002	6	0 0	-.002	7	0 0	-.002	8	0 0	-.002
9	0 0	-.002	10	0 0	-.002	11	0 0	-.002	12	0 0	-.002
13	0 0	-.002	14	0 0	-.005	15	0 0	-.002	16	0 0	-.002
17	0 0	-.001	18	0 0	-.001	19	0 0	-.001	20	0 0	-.001
21	0 0	-.001	22	0 0	-.001	23	0 0	-.001	24	0 0	-.001
25	0 0	-.001	26	0 0	-.001	27	0 0	-.001	28	0 0	-.001

29	0 0	-.001	30	0 0	-.001	31	0 0	-.001	32	0 0	-.001
33	0 0	-.001	34	0 0	-.001	35	0 0	-.001	36	0 0	-.001
37	0 0	-.001	38	0 0	-.001	39	0 0	-.001	40	0 0	-.001
41	0 0	-.001	42	0 0	-.001	43	0 0	-.001	44	0 0	-.001
45	0 0	-.001	46	0 0	-.001	47	0 0	-.001	48	0 0	-.001
49	0 0	-.002	50	0 0	-.001	51	0 0	-.001	52	0 0	-.001
53	0 0	-.001	54	0 0	-.001	55	0 0	-.001	56	0 0	-.001
57	0 0	-.001	58	0 0	-.001	59	0 0	-.001	60	0 0	-.001
61	0 0	-.001	62	0 0	-.001	63	0 0	-.001	64	0 0	-.001
65	0 0	-.001	66	0 0	-.001	67	0 0	-.001	68	0 0	-.001
69	0 0	-.001	70	0 0	-.001	71	0 0	-.001	72	0 0	-.001
73	0 0	-.001	74	0 0	-.001	75	0 0	-.001	76	0 0	-.010
77	0 0	-.068	78	0 0	-.019	79	0 0	-.005	80	0 0	-.003
81	0 0	-.002	82	0 0	-.002	83	0 0	-.002	84	0 0	-.002
85	0 0	-.002	86	0 0	-.002	87	0 0	-.002	88	0 0	-.002
89	0 0	-.002	90	0 0	-.002	91	0 0	-.001	92	0 0	-.001
93	0 0	-.001	94	0 0	-.001	95	0 0	-.001	96	0 0	-.001
97	0 0	-.002	98	0 0	-.002	99	0 0	-.002	100	0 0	-.002
101	0 0	-.001	102	0 0	-.001	103	0 0	-.001	104	0 0	-.001
105	0 0	-.001	106	0 0	-.001	107	0 0	-.001	108	0 0	-.001
109	0 0	-.001	110	0 0	-.001	111	0 0	-.001	112	0 0	-.001
113	0 0	-.001	114	0 0	-.001	115	0 0	-.001	116	0 0	-.002
117	0 0	-.001	118	0 0	-.001	119	0 0	-.001	120	0 0	-.001
121	0 0	-.001	122	0 0	-.001	123	0 0	-.001	124	0 0	-.001
125	0 0	-.001	126	0 0	-.001	127	0 0	-.001	128	0 0	-.001
129	0 0	-.001	130	0 0	-.001	131	0 0	-.001	132	0 0	-.001
133	0 0	-.001	134	0 0	-.001	135	0 0	-.001	136	0 0	-.001
137	0 0	-.001	138	0 0	-.001	139	0 0	-.001	140	0 0	-.001
141	0 0	-.001	142	0 0	-.002	143	0 0	-.002	144	0 0	-.003
145	0 0	-.001	146	0 0	-.001	147	0 0	-.001	148	0 0	-.001
149	0 0	-.002	150	0 0	-.002	151	0 0	-.001	152	0 0	-.001
153	0 0	-.001	154	0 0	-.001	155	0 0	-.002	156	0 0	-.013
157	0 0	-.022	158	0 0	-.014	159	0 0	-.007	160	0 0	-.005
161	0 0	-.004	162	0 0	-.009	163	0 0	-.011	164	0 0	-.007
165	0 0	-.005	166	0 0	-.005	167	0 0	-.004	168	0 0	-.004
169	0 0	-.004	170	0 0	-.011	171	0 0	-.011	172	0 0	-.007
173	0 0	-.005	174	0 0	-.005	175	0 0	-.004	176	0 0	-.004
177	0 0	-.004	178	0 0	-.004	179	0 0	-.004	180	0 0	-.004
181	0 0	-.003	182	0 0	-.004	183	0 0	-.004	184	0 0	-.004
185	0 0	-.003	186	0 0	-.003	187	0 0	-.003	188	0 0	-.003
189	0 0	-.004	190	0 0	-.003	191	0 0	-.003	192	0 0	-.003
193	0 0	-.003	194	0 0	-.003	195	0 0	-.003	196	0 0	-.003
197	0 0	-.003	198	0 0	-.003	199	0 0	-.002	200	0 0	-.003
201	0 0	-.003	202	0 0	-.003	203	0 0	-.006	204	0 0	-.005
205	0 0	-.005	206	0 0	-.006	207	0 0	-.006	208	0 0	-.010
209	0 0	-.007	210	0 0	-.005	211	0 0	-.004	212	0 0	-.004
213	0 0	-.004	214	0 0	-.004	215	0 0	-.004	216	0 0	-.004
217	0 0	-.004	218	0 0	-.004	219	0 0	-.004	220	0 0	-.003
221	0 0	-.003									
	38		221								
1	0 0	-.022	2	0 0	-.020	3	0 0	-.018	4	0 0	-.017
5	0 0	-.016	6	0 0	-.015	7	0 0	-.015	8	0 0	-.015
9	0 0	-.015	10	0 0	-.014	11	0 0	-.013	12	0 0	-.012
13	0 0	-.015	14	0 0	-.035	15	0 0	-.016	16	0 0	-.013
17	0 0	-.011	18	0 0	-.010	19	0 0	-.008	20	0 0	-.008
21	0 0	-.008	22	0 0	-.010	23	0 0	-.008	24	0 0	-.007
25	0 0	-.007	26	0 0	-.007	27	0 0	-.008	28	0 0	-.008
29	0 0	-.007	30	0 0	-.006	31	0 0	-.006	32	0 0	-.006
33	0 0	-.006	34	0 0	-.006	35	0 0	-.007	36	0 0	-.006
37	0 0	-.006	38	0 0	-.005	39	0 0	-.005	40	0 0	-.005
41	0 0	-.005	42	0 0	-.005	43	0 0	-.004	44	0 0	-.007
45	0 0	-.005	46	0 0	-.005	47	0 0	-.005	48	0 0	-.007
49	0 0	-.015	50	0 0	-.010	51	0 0	-.007	52	0 0	-.006

53	0 0	-.005	54	0 0	-.005	55	0 0	-.004	56	0 0	-.004
57	0 0	-.004	58	0 0	-.004	59	0 0	-.004	60	0 0	-.004
61	0 0	-.005	62	0 0	-.005	63	0 0	-.004	64	0 0	-.004
65	0 0	-.005	66	0 0	-.005	67	0 0	-.005	68	0 0	-.005
69	0 0	-.005	70	0 0	-.005	71	0 0	-.004	72	0 0	-.005
73	0 0	-.005	74	0 0	-.005	75	0 0	-.005	76	0 0	-.079
77	0 0	-.524	78	0 0	-.148	79	0 0	-.042	80	0 0	-.024
81	0 0	-.018	82	0 0	-.016	83	0 0	-.015	84	0 0	-.015
85	0 0	-.016	86	0 0	-.014	87	0 0	-.013	88	0 0	-.013
89	0 0	-.013	90	0 0	-.012	91	0 0	-.011	92	0 0	-.011
93	0 0	-.011	94	0 0	-.010	95	0 0	-.010	96	0 0	-.011
97	0 0	-.014	98	0 0	-.015	99	0 0	-.012	100	0 0	-.012
101	0 0	-.010	102	0 0	-.010	103	0 0	-.009	104	0 0	-.008
105	0 0	-.008	106	0 0	-.008	107	0 0	-.008	108	0 0	-.007
109	0 0	-.007	110	0 0	-.007	111	0 0	-.007	112	0 0	-.007
113	0 0	-.007	114	0 0	-.007	115	0 0	-.011	116	0 0	-.014
117	0 0	-.007	118	0 0	-.006	119	0 0	-.006	120	0 0	-.006
121	0 0	-.006	122	0 0	-.006	123	0 0	-.005	124	0 0	-.005
125	0 0	-.005	126	0 0	-.005	127	0 0	-.005	128	0 0	-.005
129	0 0	-.005	130	0 0	-.005	131	0 0	-.005	132	0 0	-.007
133	0 0	-.007	134	0 0	-.005	135	0 0	-.007	136	0 0	-.011
137	0 0	-.008	138	0 0	-.005	139	0 0	-.004	140	0 0	-.004
141	0 0	-.004	142	0 0	-.012	143	0 0	-.012	144	0 0	-.020
145	0 0	-.007	146	0 0	-.005	147	0 0	-.005	148	0 0	-.004
149	0 0	-.015	150	0 0	-.015	151	0 0	-.008	152	0 0	-.006
153	0 0	-.005	154	0 0	-.005	155	0 0	-.014	156	0 0	-.097
157	0 0	-.169	158	0 0	-.108	159	0 0	-.051	160	0 0	-.037
161	0 0	-.031	162	0 0	-.066	163	0 0	-.084	164	0 0	-.055
165	0 0	-.040	166	0 0	-.035	167	0 0	-.031	168	0 0	-.029
169	0 0	-.029	170	0 0	-.081	171	0 0	-.082	172	0 0	-.053
173	0 0	-.042	174	0 0	-.037	175	0 0	-.033	176	0 0	-.031
177	0 0	-.029	178	0 0	-.029	179	0 0	-.031	180	0 0	-.027
181	0 0	-.026	182	0 0	-.031	183	0 0	-.031	184	0 0	-.027
185	0 0	-.026	186	0 0	-.024	187	0 0	-.024	188	0 0	-.026
189	0 0	-.029	190	0 0	-.026	191	0 0	-.024	192	0 0	-.022
193	0 0	-.022	194	0 0	-.022	195	0 0	-.020	196	0 0	-.020
197	0 0	-.020	198	0 0	-.020	199	0 0	-.018	200	0 0	-.020
201	0 0	-.026	202	0 0	-.024	203	0 0	-.044	204	0 0	-.038
205	0 0	-.035	206	0 0	-.048	207	0 0	-.044	208	0 0	-.073
209	0 0	-.057	210	0 0	-.037	211	0 0	-.033	212	0 0	-.031
213	0 0	-.029	214	0 0	-.027	215	0 0	-.027	216	0 0	-.029
217	0 0	-.033	218	0 0	-.033	219	0 0	-.029	220	0 0	-.026
221	0 0	-.024									
	39	221									
1	0 0	-.048	2	0 0	-.044	3	0 0	-.040	4	0 0	-.038
5	0 0	-.035	6	0 0	-.033	7	0 0	-.032	8	0 0	-.032
9	0 0	-.033	10	0 0	-.031	11	0 0	-.028	12	0 0	-.027
13	0 0	-.033	14	0 0	-.076	15	0 0	-.036	16	0 0	-.028
17	0 0	-.024	18	0 0	-.021	19	0 0	-.019	20	0 0	-.017
21	0 0	-.018	22	0 0	-.022	23	0 0	-.017	24	0 0	-.016
25	0 0	-.016	26	0 0	-.016	27	0 0	-.016	28	0 0	-.016
29	0 0	-.014	30	0 0	-.013	31	0 0	-.013	32	0 0	-.014
33	0 0	-.013	34	0 0	-.013	35	0 0	-.016	36	0 0	-.013
37	0 0	-.012	38	0 0	-.012	39	0 0	-.011	40	0 0	-.010
41	0 0	-.010	42	0 0	-.010	43	0 0	-.010	44	0 0	-.015
45	0 0	-.011	46	0 0	-.010	47	0 0	-.011	48	0 0	-.014
49	0 0	-.034	50	0 0	-.021	51	0 0	-.014	52	0 0	-.013
53	0 0	-.012	54	0 0	-.011	55	0 0	-.010	56	0 0	-.010
57	0 0	-.009	58	0 0	-.009	59	0 0	-.010	60	0 0	-.010
61	0 0	-.011	62	0 0	-.012	63	0 0	-.010	64	0 0	-.010
65	0 0	-.010	66	0 0	-.011	67	0 0	-.011	68	0 0	-.011
69	0 0	-.011	70	0 0	-.010	71	0 0	-.010	72	0 0	-.011
73	0 0	-.012	74	0 0	-.011	75	0 0	-.011	76	0 0	-.173

77	0 0	-1.150	78	0 0	-.326	79	0 0	-.093	80	0 0	-.052
81	0 0	-.040	82	0 0	-.036	83	0 0	-.033	84	0 0	-.033
85	0 0	-.035	86	0 0	-.031	87	0 0	-.029	88	0 0	-.029
89	0 0	-.029	90	0 0	-.027	91	0 0	-.025	92	0 0	-.024
93	0 0	-.024	94	0 0	-.023	95	0 0	-.023	96	0 0	-.023
97	0 0	-.032	98	0 0	-.034	99	0 0	-.026	100	0 0	-.027
101	0 0	-.023	102	0 0	-.022	103	0 0	-.019	104	0 0	-.019
105	0 0	-.019	106	0 0	-.019	107	0 0	-.018	108	0 0	-.016
109	0 0	-.015	110	0 0	-.016	111	0 0	-.016	112	0 0	-.016
113	0 0	-.015	114	0 0	-.014	115	0 0	-.024	116	0 0	-.031
117	0 0	-.016	118	0 0	-.014	119	0 0	-.014	120	0 0	-.014
121	0 0	-.013	122	0 0	-.012	123	0 0	-.012	124	0 0	-.011
125	0 0	-.011	126	0 0	-.011	127	0 0	-.011	128	0 0	-.011
129	0 0	-.011	130	0 0	-.011	131	0 0	-.011	132	0 0	-.015
133	0 0	-.015	134	0 0	-.012	135	0 0	-.014	136	0 0	-.023
137	0 0	-.017	138	0 0	-.011	139	0 0	-.010	140	0 0	-.009
141	0 0	-.009	142	0 0	-.027	143	0 0	-.027	144	0 0	-.044
145	0 0	-.015	146	0 0	-.012	147	0 0	-.010	148	0 0	-.010
149	0 0	-.033	150	0 0	-.034	151	0 0	-.019	152	0 0	-.013
153	0 0	-.012	154	0 0	-.012	155	0 0	-.030	156	0 0	-.213
157	0 0	-.370	158	0 0	-.237	159	0 0	-.113	160	0 0	-.080
161	0 0	-.068	162	0 0	-.145	163	0 0	-.185	164	0 0	-.121
165	0 0	-.088	166	0 0	-.076	167	0 0	-.068	168	0 0	-.064
169	0 0	-.064	170	0 0	-.177	171	0 0	-.181	172	0 0	-.117
173	0 0	-.093	174	0 0	-.080	175	0 0	-.072	176	0 0	-.068
177	0 0	-.064	178	0 0	-.064	179	0 0	-.068	180	0 0	-.060
181	0 0	-.056	182	0 0	-.068	183	0 0	-.068	184	0 0	-.060
185	0 0	-.056	186	0 0	-.052	187	0 0	-.052	188	0 0	-.056
189	0 0	-.064	190	0 0	-.056	191	0 0	-.052	192	0 0	-.048
193	0 0	-.048	194	0 0	-.048	195	0 0	-.044	196	0 0	-.044
197	0 0	-.044	198	0 0	-.044	199	0 0	-.040	200	0 0	-.044
201	0 0	-.056	202	0 0	-.052	203	0 0	-.097	204	0 0	-.084
205	0 0	-.076	206	0 0	-.105	207	0 0	-.097	208	0 0	-.161
209	0 0	-.125	210	0 0	-.080	211	0 0	-.072	212	0 0	-.068
213	0 0	-.064	214	0 0	-.060	215	0 0	-.060	216	0 0	-.064
217	0 0	-.072	218	0 0	-.072	219	0 0	-.064	220	0 0	-.056
221	0 0	-.052									
	40	221									
1	0 0	-.248	2	0 0	-.227	3	0 0	-.207	4	0 0	-.196
5	0 0	-.182	6	0 0	-.171	7	0 0	-.165	8	0 0	-.165
9	0 0	-.169	10	0 0	-.161	11	0 0	-.172	12	0 0	-.170
13	0 0	-.169	14	0 0	-.392	15	0 0	-.184	16	0 0	-.173
17	0 0	-.163	18	0 0	-.157	19	0 0	-.152	20	0 0	-.149
21	0 0	-.150	22	0 0	-.160	23	0 0	-.149	24	0 0	-.147
25	0 0	-.146	26	0 0	-.146	27	0 0	-.148	28	0 0	-.148
29	0 0	-.143	30	0 0	-.141	31	0 0	-.141	32	0 0	-.141
33	0 0	-.140	34	0 0	-.140	35	0 0	-.147	36	0 0	-.141
37	0 0	-.139	38	0 0	-.137	39	0 0	-.135	40	0 0	-.135
41	0 0	-.135	42	0 0	-.134	43	0 0	-.133	44	0 0	-.144
45	0 0	-.135	46	0 0	-.135	47	0 0	-.136	48	0 0	-.143
49	0 0	-.173	50	0 0	-.157	51	0 0	-.143	52	0 0	-.140
53	0 0	-.137	54	0 0	-.135	55	0 0	-.133	56	0 0	-.133
57	0 0	-.132	58	0 0	-.132	59	0 0	-.133	60	0 0	-.133
61	0 0	-.135	62	0 0	-.137	63	0 0	-.133	64	0 0	-.133
65	0 0	-.134	66	0 0	-.135	67	0 0	-.136	68	0 0	-.135
69	0 0	-.135	70	0 0	-.134	71	0 0	-.133	72	0 0	-.135
73	0 0	-.137	74	0 0	-.136	75	0 0	-.136	76	0 0	-.888
77	0 0	-5.906	78	0 0	-1.673	79	0 0	-.475	80	0 0	-.268
81	0 0	-.204	82	0 0	-.184	83	0 0	-.171	84	0 0	-.171
85	0 0	-.180	86	0 0	-.161	87	0 0	-.149	88	0 0	-.151
89	0 0	-.149	90	0 0	-.170	91	0 0	-.166	92	0 0	-.164
93	0 0	-.163	94	0 0	-.161	95	0 0	-.161	96	0 0	-.162
97	0 0	-.163	98	0 0	-.173	99	0 0	-.167	100	0 0	-.170

101	0 0	-.161	102	0 0	-.159	103	0 0	-.154	104	0 0	-.152
105	0 0	-.152	106	0 0	-.152	107	0 0	-.150	108	0 0	-.147
109	0 0	-.145	110	0 0	-.146	111	0 0	-.146	112	0 0	-.146
113	0 0	-.145	114	0 0	-.143	115	0 0	-.163	116	0 0	-.157
117	0 0	-.146	118	0 0	-.142	119	0 0	-.141	120	0 0	-.141
121	0 0	-.140	122	0 0	-.139	123	0 0	-.138	124	0 0	-.135
125	0 0	-.135	126	0 0	-.135	127	0 0	-.136	128	0 0	-.135
129	0 0	-.135	130	0 0	-.136	131	0 0	-.136	132	0 0	-.145
133	0 0	-.145	134	0 0	-.138	135	0 0	-.143	136	0 0	-.162
137	0 0	-.149	138	0 0	-.135	139	0 0	-.133	140	0 0	-.132
141	0 0	-.131	142	0 0	-.171	143	0 0	-.171	144	0 0	-.227
145	0 0	-.144	146	0 0	-.137	147	0 0	-.134	148	0 0	-.133
149	0 0	-.169	150	0 0	-.173	151	0 0	-.152	152	0 0	-.141
153	0 0	-.137	154	0 0	-.138	155	0 0	-.155	156	0 0	-1.094
157	0 0	-1.900	158	0 0	-1.218	159	0 0	-.578	160	0 0	-.413
161	0 0	-.351	162	0 0	-.743	163	0 0	-.950	164	0 0	-.620
165	0 0	-.454	166	0 0	-.392	167	0 0	-.351	168	0 0	-.330
169	0 0	-.330	170	0 0	-.909	171	0 0	-.929	172	0 0	-.599
173	0 0	-.475	174	0 0	-.413	175	0 0	-.372	176	0 0	-.351
177	0 0	-.330	178	0 0	-.330	179	0 0	-.351	180	0 0	-.310
181	0 0	-.289	182	0 0	-.351	183	0 0	-.351	184	0 0	-.310
185	0 0	-.289	186	0 0	-.268	187	0 0	-.268	188	0 0	-.289
189	0 0	-.330	190	0 0	-.289	191	0 0	-.268	192	0 0	-.248
193	0 0	-.248	194	0 0	-.248	195	0 0	-.227	196	0 0	-.227
197	0 0	-.227	198	0 0	-.227	199	0 0	-.207	200	0 0	-.227
201	0 0	-.289	202	0 0	-.268	203	0 0	-.496	204	0 0	-.434
205	0 0	-.392	206	0 0	-.537	207	0 0	-.496	208	0 0	-.826
209	0 0	-.640	210	0 0	-.413	211	0 0	-.372	212	0 0	-.351
213	0 0	-.330	214	0 0	-.310	215	0 0	-.310	216	0 0	-.330
217	0 0	-.372	218	0 0	-.372	219	0 0	-.330	220	0 0	-.289
221	0 0	-.268									
	41	221									
1	0 0	.234	2	0 0	.214	3	0 0	.195	4	0 0	.185
5	0 0	.171	6	0 0	.162	7	0 0	.156	8	0 0	.156
9	0 0	.160	10	0 0	.152	11	0 0	.164	12	0 0	.162
13	0 0	.160	14	0 0	.370	15	0 0	.173	16	0 0	.164
17	0 0	.156	18	0 0	.151	19	0 0	.146	20	0 0	.144
21	0 0	.145	22	0 0	.153	23	0 0	.144	24	0 0	.142
25	0 0	.141	26	0 0	.141	27	0 0	.143	28	0 0	.143
29	0 0	.139	30	0 0	.137	31	0 0	.137	32	0 0	.137
33	0 0	.136	34	0 0	.136	35	0 0	.142	36	0 0	.137
37	0 0	.135	38	0 0	.134	39	0 0	.132	40	0 0	.131
41	0 0	.131	42	0 0	.131	43	0 0	.130	44	0 0	.140
45	0 0	.132	46	0 0	.131	47	0 0	.133	48	0 0	.139
49	0 0	.164	50	0 0	.151	51	0 0	.139	52	0 0	.136
53	0 0	.134	54	0 0	.132	55	0 0	.130	56	0 0	.130
57	0 0	.129	58	0 0	.129	59	0 0	.130	60	0 0	.130
61	0 0	.132	62	0 0	.134	63	0 0	.130	64	0 0	.130
65	0 0	.131	66	0 0	.132	67	0 0	.133	68	0 0	.132
69	0 0	.132	70	0 0	.131	71	0 0	.130	72	0 0	.132
73	0 0	.134	74	0 0	.133	75	0 0	.133	76	0 0	.837
77	0 0	5.570	78	0 0	1.577	79	0 0	.448	80	0 0	.253
81	0 0	.193	82	0 0	.173	83	0 0	.162	84	0 0	.162
85	0 0	.169	86	0 0	.152	87	0 0	.140	88	0 0	.142
89	0 0	.140	90	0 0	.162	91	0 0	.158	92	0 0	.157
93	0 0	.156	94	0 0	.155	95	0 0	.154	96	0 0	.155
97	0 0	.154	98	0 0	.164	99	0 0	.160	100	0 0	.162
101	0 0	.155	102	0 0	.152	103	0 0	.148	104	0 0	.146
105	0 0	.146	106	0 0	.146	107	0 0	.145	108	0 0	.142
109	0 0	.140	110	0 0	.141	111	0 0	.141	112	0 0	.141
113	0 0	.140	114	0 0	.139	115	0 0	.156	116	0 0	.148
117	0 0	.141	118	0 0	.138	119	0 0	.137	120	0 0	.137
121	0 0	.136	122	0 0	.135	123	0 0	.134	124	0 0	.132

125	0 0	.132	126	0 0	.132	127	0 0	.133	128	0 0	.132
129	0 0	.132	130	0 0	.133	131	0 0	.133	132	0 0	.140
133	0 0	.140	134	0 0	.134	135	0 0	.139	136	0 0	.155
137	0 0	.144	138	0 0	.132	139	0 0	.130	140	0 0	.129
141	0 0	.128	142	0 0	.163	143	0 0	.163	144	0 0	.214
145	0 0	.140	146	0 0	.134	147	0 0	.131	148	0 0	.130
149	0 0	.160	150	0 0	.164	151	0 0	.146	152	0 0	.137
153	0 0	.134	154	0 0	.134	155	0 0	.146	156	0 0	1.032
157	0 0	1.792	158	0 0	1.149	159	0 0	.545	160	0 0	.390
161	0 0	.331	162	0 0	.701	163	0 0	.896	164	0 0	.584
165	0 0	.428	166	0 0	.370	167	0 0	.331	168	0 0	.312
169	0 0	.312	170	0 0	.857	171	0 0	.876	172	0 0	.565
173	0 0	.448	174	0 0	.390	175	0 0	.351	176	0 0	.331
177	0 0	.312	178	0 0	.312	179	0 0	.331	180	0 0	.292
181	0 0	.273	182	0 0	.331	183	0 0	.331	184	0 0	.292
185	0 0	.273	186	0 0	.253	187	0 0	.253	188	0 0	.273
189	0 0	.312	190	0 0	.273	191	0 0	.253	192	0 0	.234
193	0 0	.234	194	0 0	.234	195	0 0	.214	196	0 0	.214
197	0 0	.214	198	0 0	.214	199	0 0	.195	200	0 0	.214
201	0 0	.273	202	0 0	.253	203	0 0	.467	204	0 0	.409
205	0 0	.370	206	0 0	.506	207	0 0	.467	208	0 0	.779
209	0 0	.604	210	0 0	.390	211	0 0	.351	212	0 0	.331
213	0 0	.312	214	0 0	.292	215	0 0	.292	216	0 0	.312
217	0 0	.351	218	0 0	.351	219	0 0	.312	220	0 0	.273
221	0 0	.253									
	42	221									
1	0 0	-.056	2	0 0	-.051	3	0 0	-.046	4	0 0	-.044
5	0 0	-.041	6	0 0	-.039	7	0 0	-.037	8	0 0	-.037
9	0 0	-.038	10	0 0	-.036	11	0 0	-.032	12	0 0	-.031
13	0 0	-.038	14	0 0	-.088	15	0 0	-.041	16	0 0	-.032
17	0 0	-.027	18	0 0	-.024	19	0 0	-.021	20	0 0	-.020
21	0 0	-.020	22	0 0	-.026	23	0 0	-.020	24	0 0	-.019
25	0 0	-.018	26	0 0	-.018	27	0 0	-.019	28	0 0	-.019
29	0 0	-.017	30	0 0	-.015	31	0 0	-.015	32	0 0	-.016
33	0 0	-.015	34	0 0	-.015	35	0 0	-.019	36	0 0	-.015
37	0 0	-.014	38	0 0	-.013	39	0 0	-.013	40	0 0	-.012
41	0 0	-.012	42	0 0	-.012	43	0 0	-.011	44	0 0	-.017
45	0 0	-.013	46	0 0	-.012	47	0 0	-.013	48	0 0	-.017
49	0 0	-.039	50	0 0	-.024	51	0 0	-.017	52	0 0	-.015
53	0 0	-.013	54	0 0	-.013	55	0 0	-.011	56	0 0	-.011
57	0 0	-.011	58	0 0	-.011	59	0 0	-.011	60	0 0	-.011
61	0 0	-.013	62	0 0	-.013	63	0 0	-.011	64	0 0	-.011
65	0 0	-.012	66	0 0	-.013	67	0 0	-.013	68	0 0	-.013
69	0 0	-.013	70	0 0	-.012	71	0 0	-.011	72	0 0	-.013
73	0 0	-.013	74	0 0	-.013	75	0 0	-.013	76	0 0	-.200
77	0 0	-1.327	78	0 0	-.376	79	0 0	-.107	80	0 0	-.060
81	0 0	-.046	82	0 0	-.041	83	0 0	-.039	84	0 0	-.039
85	0 0	-.040	86	0 0	-.036	87	0 0	-.033	88	0 0	-.034
89	0 0	-.033	90	0 0	-.031	91	0 0	-.029	92	0 0	-.028
93	0 0	-.027	94	0 0	-.026	95	0 0	-.026	96	0 0	-.027
97	0 0	-.037	98	0 0	-.039	99	0 0	-.030	100	0 0	-.031
101	0 0	-.026	102	0 0	-.025	103	0 0	-.022	104	0 0	-.021
105	0 0	-.021	106	0 0	-.021	107	0 0	-.020	108	0 0	-.019
109	0 0	-.018	110	0 0	-.018	111	0 0	-.018	112	0 0	-.018
113	0 0	-.018	114	0 0	-.017	115	0 0	-.027	116	0 0	-.035
117	0 0	-.018	118	0 0	-.016	119	0 0	-.016	120	0 0	-.016
121	0 0	-.015	122	0 0	-.014	123	0 0	-.014	124	0 0	-.013
125	0 0	-.013	126	0 0	-.013	127	0 0	-.013	128	0 0	-.013
129	0 0	-.013	130	0 0	-.013	131	0 0	-.013	132	0 0	-.018
133	0 0	-.018	134	0 0	-.014	135	0 0	-.017	136	0 0	-.027
137	0 0	-.020	138	0 0	-.013	139	0 0	-.011	140	0 0	-.011
141	0 0	-.010	142	0 0	-.032	143	0 0	-.032	144	0 0	-.051
145	0 0	-.017	146	0 0	-.013	147	0 0	-.012	148	0 0	-.011

149	0 0	-.038	150	0 0	-.039	151	0 0	-.021	152	0 0	-.015
153	0 0	-.013	154	0 0	-.014	155	0 0	-.035	156	0 0	-.246
157	0 0	-.427	158	0 0	-.274	159	0 0	-.130	160	0 0	-.093
161	0 0	-.079	162	0 0	-.167	163	0 0	-.213	164	0 0	-.139
165	0 0	-.102	166	0 0	-.088	167	0 0	-.079	168	0 0	-.074
169	0 0	-.074	170	0 0	-.204	171	0 0	-.209	172	0 0	-.135
173	0 0	-.107	174	0 0	-.093	175	0 0	-.084	176	0 0	-.079
177	0 0	-.074	178	0 0	-.074	179	0 0	-.079	180	0 0	-.070
181	0 0	-.065	182	0 0	-.079	183	0 0	-.079	184	0 0	-.070
185	0 0	-.065	186	0 0	-.060	187	0 0	-.060	188	0 0	-.065
189	0 0	-.074	190	0 0	-.065	191	0 0	-.060	192	0 0	-.056
193	0 0	-.056	194	0 0	-.056	195	0 0	-.051	196	0 0	-.051
197	0 0	-.051	198	0 0	-.051	199	0 0	-.046	200	0 0	-.051
201	0 0	-.065	202	0 0	-.060	203	0 0	-.111	204	0 0	-.097
205	0 0	-.088	206	0 0	-.121	207	0 0	-.111	208	0 0	-.186
209	0 0	-.144	210	0 0	-.093	211	0 0	-.084	212	0 0	-.079
213	0 0	-.074	214	0 0	-.070	215	0 0	-.070	216	0 0	-.074
217	0 0	-.084	218	0 0	-.084	219	0 0	-.074	220	0 0	-.065
221	0 0	-.060									
	43	221									
1	0 0	-.018	2	0 0	-.017	3	0 0	-.015	4	0 0	-.014
5	0 0	-.013	6	0 0	-.013	7	0 0	-.012	8	0 0	-.012
9	0 0	-.012	10	0 0	-.012	11	0 0	-.010	12	0 0	-.010
13	0 0	-.012	14	0 0	-.029	15	0 0	-.013	16	0 0	-.011
17	0 0	-.009	18	0 0	-.008	19	0 0	-.007	20	0 0	-.007
21	0 0	-.007	22	0 0	-.008	23	0 0	-.007	24	0 0	-.006
25	0 0	-.006	26	0 0	-.006	27	0 0	-.006	28	0 0	-.006
29	0 0	-.005	30	0 0	-.005	31	0 0	-.005	32	0 0	-.005
33	0 0	-.005	34	0 0	-.005	35	0 0	-.006	36	0 0	-.005
37	0 0	-.005	38	0 0	-.004	39	0 0	-.004	40	0 0	-.004
41	0 0	-.004	42	0 0	-.004	43	0 0	-.004	44	0 0	-.006
45	0 0	-.004	46	0 0	-.004	47	0 0	-.004	48	0 0	-.005
49	0 0	-.013	50	0 0	-.008	51	0 0	-.005	52	0 0	-.005
53	0 0	-.004	54	0 0	-.004	55	0 0	-.004	56	0 0	-.004
57	0 0	-.003	58	0 0	-.003	59	0 0	-.004	60	0 0	-.004
61	0 0	-.004	62	0 0	-.004	63	0 0	-.004	64	0 0	-.004
65	0 0	-.004	66	0 0	-.004	67	0 0	-.004	68	0 0	-.004
69	0 0	-.004	70	0 0	-.004	71	0 0	-.004	72	0 0	-.004
73	0 0	-.004	74	0 0	-.004	75	0 0	-.004	76	0 0	-.065
77	0 0	-.433	78	0 0	-.123	79	0 0	-.035	80	0 0	-.020
81	0 0	-.015	82	0 0	-.013	83	0 0	-.013	84	0 0	-.013
85	0 0	-.013	86	0 0	-.012	87	0 0	-.011	88	0 0	-.011
89	0 0	-.011	90	0 0	-.010	91	0 0	-.009	92	0 0	-.009
93	0 0	-.009	94	0 0	-.009	95	0 0	-.008	96	0 0	-.009
97	0 0	-.012	98	0 0	-.013	99	0 0	-.010	100	0 0	-.010
101	0 0	-.009	102	0 0	-.008	103	0 0	-.007	104	0 0	-.007
105	0 0	-.007	106	0 0	-.007	107	0 0	-.007	108	0 0	-.006
109	0 0	-.006	110	0 0	-.006	111	0 0	-.006	112	0 0	-.006
113	0 0	-.006	114	0 0	-.005	115	0 0	-.009	116	0 0	-.012
117	0 0	-.006	118	0 0	-.005	119	0 0	-.005	120	0 0	-.005
121	0 0	-.005	122	0 0	-.005	123	0 0	-.005	124	0 0	-.004
125	0 0	-.004	126	0 0	-.004	127	0 0	-.004	128	0 0	-.004
129	0 0	-.004	130	0 0	-.004	131	0 0	-.004	132	0 0	-.006
133	0 0	-.006	134	0 0	-.005	135	0 0	-.005	136	0 0	-.009
137	0 0	-.007	138	0 0	-.004	139	0 0	-.004	140	0 0	-.003
141	0 0	-.003	142	0 0	-.010	143	0 0	-.010	144	0 0	-.017
145	0 0	-.006	146	0 0	-.004	147	0 0	-.004	148	0 0	-.004
149	0 0	-.012	150	0 0	-.013	151	0 0	-.007	152	0 0	-.005
153	0 0	-.004	154	0 0	-.005	155	0 0	-.011	156	0 0	-.080
157	0 0	-.139	158	0 0	-.089	159	0 0	-.042	160	0 0	-.030
161	0 0	-.026	162	0 0	-.054	163	0 0	-.070	164	0 0	-.045
165	0 0	-.033	166	0 0	-.029	167	0 0	-.026	168	0 0	-.024
169	0 0	-.024	170	0 0	-.067	171	0 0	-.068	172	0 0	-.044

173	0 0	-.035	174	0 0	-.030	175	0 0	-.027	176	0 0	-.026
177	0 0	-.024	178	0 0	-.024	179	0 0	-.026	180	0 0	-.023
181	0 0	-.021	182	0 0	-.026	183	0 0	-.026	184	0 0	-.023
185	0 0	-.021	186	0 0	-.020	187	0 0	-.020	188	0 0	-.021
189	0 0	-.024	190	0 0	-.021	191	0 0	-.020	192	0 0	-.018
193	0 0	-.018	194	0 0	-.018	195	0 0	-.017	196	0 0	-.017
197	0 0	-.017	198	0 0	-.017	199	0 0	-.015	200	0 0	-.017
201	0 0	-.021	202	0 0	-.020	203	0 0	-.036	204	0 0	-.032
205	0 0	-.029	206	0 0	-.039	207	0 0	-.036	208	0 0	-.061
209	0 0	-.047	210	0 0	-.030	211	0 0	-.027	212	0 0	-.026
213	0 0	-.024	214	0 0	-.023	215	0 0	-.023	216	0 0	-.024
217	0 0	-.027	218	0 0	-.027	219	0 0	-.024	220	0 0	-.021
221	0 0	-.020									
	44		221								
1	0 0	-.016	2	0 0	-.015	3	0 0	-.013	4	0 0	-.013
5	0 0	-.012	6	0 0	-.011	7	0 0	-.011	8	0 0	-.011
9	0 0	-.011	10	0 0	-.010	11	0 0	-.009	12	0 0	-.009
13	0 0	-.011	14	0 0	-.025	15	0 0	-.012	16	0 0	-.009
17	0 0	-.008	18	0 0	-.007	19	0 0	-.006	20	0 0	-.006
21	0 0	-.006	22	0 0	-.007	23	0 0	-.006	24	0 0	-.005
25	0 0	-.005	26	0 0	-.005	27	0 0	-.005	28	0 0	-.005
29	0 0	-.005	30	0 0	-.004	31	0 0	-.004	32	0 0	-.005
33	0 0	-.004	34	0 0	-.004	35	0 0	-.005	36	0 0	-.004
37	0 0	-.004	38	0 0	-.004	39	0 0	-.004	40	0 0	-.003
41	0 0	-.003	42	0 0	-.003	43	0 0	-.003	44	0 0	-.005
45	0 0	-.004	46	0 0	-.003	47	0 0	-.004	48	0 0	-.005
49	0 0	-.011	50	0 0	-.007	51	0 0	-.005	52	0 0	-.004
53	0 0	-.004	54	0 0	-.004	55	0 0	-.003	56	0 0	-.003
57	0 0	-.003	58	0 0	-.003	59	0 0	-.003	60	0 0	-.003
61	0 0	-.004	62	0 0	-.004	63	0 0	-.003	64	0 0	-.003
65	0 0	-.003	66	0 0	-.004	67	0 0	-.004	68	0 0	-.004
69	0 0	-.004	70	0 0	-.003	71	0 0	-.003	72	0 0	-.004
73	0 0	-.004	74	0 0	-.004	75	0 0	-.004	76	0 0	-.057
77	0 0	-.382	78	0 0	-.108	79	0 0	-.031	80	0 0	-.017
81	0 0	-.013	82	0 0	-.012	83	0 0	-.011	84	0 0	-.011
85	0 0	-.012	86	0 0	-.010	87	0 0	-.010	88	0 0	-.010
89	0 0	-.010	90	0 0	-.009	91	0 0	-.008	92	0 0	-.008
93	0 0	-.008	94	0 0	-.008	95	0 0	-.007	96	0 0	-.008
97	0 0	-.011	98	0 0	-.011	99	0 0	-.009	100	0 0	-.009
101	0 0	-.008	102	0 0	-.007	103	0 0	-.006	104	0 0	-.006
105	0 0	-.006	106	0 0	-.006	107	0 0	-.006	108	0 0	-.005
109	0 0	-.005	110	0 0	-.005	111	0 0	-.005	112	0 0	-.005
113	0 0	-.005	114	0 0	-.005	115	0 0	-.008	116	0 0	-.010
117	0 0	-.005	118	0 0	-.005	119	0 0	-.005	120	0 0	-.005
121	0 0	-.004	122	0 0	-.004	123	0 0	-.004	124	0 0	-.004
125	0 0	-.004	126	0 0	-.004	127	0 0	-.004	128	0 0	-.004
129	0 0	-.004	130	0 0	-.004	131	0 0	-.004	132	0 0	-.005
133	0 0	-.005	134	0 0	-.004	135	0 0	-.005	136	0 0	-.008
137	0 0	-.006	138	0 0	-.004	139	0 0	-.003	140	0 0	-.003
141	0 0	-.003	142	0 0	-.009	143	0 0	-.009	144	0 0	-.015
145	0 0	-.005	146	0 0	-.004	147	0 0	-.003	148	0 0	-.003
149	0 0	-.011	150	0 0	-.011	151	0 0	-.006	152	0 0	-.004
153	0 0	-.004	154	0 0	-.004	155	0 0	-.010	156	0 0	-.071
157	0 0	-.123	158	0 0	-.079	159	0 0	-.037	160	0 0	-.027
161	0 0	-.023	162	0 0	-.048	163	0 0	-.061	164	0 0	-.040
165	0 0	-.029	166	0 0	-.025	167	0 0	-.023	168	0 0	-.021
169	0 0	-.021	170	0 0	-.059	171	0 0	-.060	172	0 0	-.039
173	0 0	-.031	174	0 0	-.027	175	0 0	-.024	176	0 0	-.023
177	0 0	-.021	178	0 0	-.021	179	0 0	-.023	180	0 0	-.020
181	0 0	-.019	182	0 0	-.023	183	0 0	-.023	184	0 0	-.020
185	0 0	-.019	186	0 0	-.017	187	0 0	-.017	188	0 0	-.019
189	0 0	-.021	190	0 0	-.019	191	0 0	-.017	192	0 0	-.016
193	0 0	-.016	194	0 0	-.016	195	0 0	-.015	196	0 0	-.015

197	0 0	-.015	198	0 0	-.015	199	0 0	-.013	200	0 0	-.015
201	0 0	-.019	202	0 0	-.017	203	0 0	-.032	204	0 0	-.028
205	0 0	-.025	206	0 0	-.035	207	0 0	-.032	208	0 0	-.053
209	0 0	-.041	210	0 0	-.027	211	0 0	-.024	212	0 0	-.023
213	0 0	-.021	214	0 0	-.020	215	0 0	-.020	216	0 0	-.021
217	0 0	-.024	218	0 0	-.024	219	0 0	-.021	220	0 0	-.019
221	0 0	-.017									
	45		221								
1	0 0	-.144	2	0 0	-.132	3	0 0	-.120	4	0 0	-.114
5	0 0	-.105	6	0 0	-.099	7	0 0	-.096	8	0 0	-.096
9	0 0	-.098	10	0 0	-.094	11	0 0	-.112	12	0 0	-.112
13	0 0	-.098	14	0 0	-.228	15	0 0	-.107	16	0 0	-.112
17	0 0	-.112	18	0 0	-.112	19	0 0	-.112	20	0 0	-.112
21	0 0	-.112	22	0 0	-.112	23	0 0	-.112	24	0 0	-.112
25	0 0	-.112	26	0 0	-.112	27	0 0	-.112	28	0 0	-.112
29	0 0	-.112	30	0 0	-.112	31	0 0	-.112	32	0 0	-.112
33	0 0	-.112	34	0 0	-.112	35	0 0	-.112	36	0 0	-.112
37	0 0	-.112	38	0 0	-.112	39	0 0	-.112	40	0 0	-.112
41	0 0	-.112	42	0 0	-.112	43	0 0	-.112	44	0 0	-.112
45	0 0	-.112	46	0 0	-.112	47	0 0	-.112	48	0 0	-.112
49	0 0	-.101	50	0 0	-.112	51	0 0	-.112	52	0 0	-.112
53	0 0	-.112	54	0 0	-.112	55	0 0	-.112	56	0 0	-.112
57	0 0	-.112	58	0 0	-.112	59	0 0	-.112	60	0 0	-.112
61	0 0	-.112	62	0 0	-.112	63	0 0	-.112	64	0 0	-.112
65	0 0	-.112	66	0 0	-.112	67	0 0	-.112	68	0 0	-.112
69	0 0	-.112	70	0 0	-.112	71	0 0	-.112	72	0 0	-.112
73	0 0	-.112	74	0 0	-.112	75	0 0	-.112	76	0 0	-.515
77	0 0	-3.429	78	0 0	-.971	79	0 0	-.276	80	0 0	-.156
81	0 0	-.119	82	0 0	-.107	83	0 0	-.099	84	0 0	-.099
85	0 0	-.104	86	0 0	-.094	87	0 0	-.086	88	0 0	-.088
89	0 0	-.086	90	0 0	-.112	91	0 0	-.112	92	0 0	-.112
93	0 0	-.112	94	0 0	-.112	95	0 0	-.112	96	0 0	-.112
97	0 0	-.095	98	0 0	-.101	99	0 0	-.112	100	0 0	-.112
101	0 0	-.112	102	0 0	-.112	103	0 0	-.112	104	0 0	-.112
105	0 0	-.112	106	0 0	-.112	107	0 0	-.112	108	0 0	-.112
109	0 0	-.112	110	0 0	-.112	111	0 0	-.112	112	0 0	-.112
113	0 0	-.112	114	0 0	-.112	115	0 0	-.112	116	0 0	-.091
117	0 0	-.112	118	0 0	-.112	119	0 0	-.112	120	0 0	-.112
121	0 0	-.112	122	0 0	-.112	123	0 0	-.112	124	0 0	-.112
125	0 0	-.112	126	0 0	-.112	127	0 0	-.112	128	0 0	-.112
129	0 0	-.112	130	0 0	-.112	131	0 0	-.112	132	0 0	-.112
133	0 0	-.112	134	0 0	-.112	135	0 0	-.112	136	0 0	-.112
137	0 0	-.112	138	0 0	-.112	139	0 0	-.112	140	0 0	-.112
141	0 0	-.112	142	0 0	-.112	143	0 0	-.112	144	0 0	-.132
145	0 0	-.112	146	0 0	-.112	147	0 0	-.112	148	0 0	-.112
149	0 0	-.098	150	0 0	-.101	151	0 0	-.112	152	0 0	-.112
153	0 0	-.112	154	0 0	-.112	155	0 0	-.090	156	0 0	-.635
157	0 0	-1.103	158	0 0	-.707	159	0 0	-.336	160	0 0	-.240
161	0 0	-.204	162	0 0	-.432	163	0 0	-.551	164	0 0	-.360
165	0 0	-.264	166	0 0	-.228	167	0 0	-.204	168	0 0	-.192
169	0 0	-.192	170	0 0	-.527	171	0 0	-.539	172	0 0	-.348
173	0 0	-.276	174	0 0	-.240	175	0 0	-.216	176	0 0	-.204
177	0 0	-.192	178	0 0	-.192	179	0 0	-.204	180	0 0	-.180
181	0 0	-.168	182	0 0	-.204	183	0 0	-.204	184	0 0	-.180
185	0 0	-.168	186	0 0	-.156	187	0 0	-.156	188	0 0	-.168
189	0 0	-.192	190	0 0	-.168	191	0 0	-.156	192	0 0	-.144
193	0 0	-.144	194	0 0	-.144	195	0 0	-.132	196	0 0	-.132
197	0 0	-.132	198	0 0	-.132	199	0 0	-.120	200	0 0	-.132
201	0 0	-.168	202	0 0	-.156	203	0 0	-.288	204	0 0	-.252
205	0 0	-.228	206	0 0	-.312	207	0 0	-.288	208	0 0	-.480
209	0 0	-.372	210	0 0	-.240	211	0 0	-.216	212	0 0	-.204
213	0 0	-.192	214	0 0	-.180	215	0 0	-.180	216	0 0	-.192
217	0 0	-.216	218	0 0	-.216	219	0 0	-.192	220	0 0	-.168

17	0 0	-.007	18	0 0	-.007	19	0 0	-.006	20	0 0	-.005
21	0 0	-.006	22	0 0	-.007	23	0 0	-.005	24	0 0	-.005
25	0 0	-.005	26	0 0	-.005	27	0 0	-.005	28	0 0	-.005
29	0 0	-.005	30	0 0	-.004	31	0 0	-.004	32	0 0	-.004
33	0 0	-.004	34	0 0	-.004	35	0 0	-.005	36	0 0	-.004
37	0 0	-.004	38	0 0	-.004	39	0 0	-.003	40	0 0	-.003
41	0 0	-.003	42	0 0	-.003	43	0 0	-.003	44	0 0	-.005
45	0 0	-.003	46	0 0	-.003	47	0 0	-.004	48	0 0	-.005
49	0 0	-.011	50	0 0	-.007	51	0 0	-.005	52	0 0	-.004
53	0 0	-.004	54	0 0	-.003	55	0 0	-.003	56	0 0	-.003
57	0 0	-.003	58	0 0	-.003	59	0 0	-.003	60	0 0	-.003
61	0 0	-.003	62	0 0	-.004	63	0 0	-.003	64	0 0	-.003
65	0 0	-.003	66	0 0	-.003	67	0 0	-.004	68	0 0	-.003
69	0 0	-.003	70	0 0	-.003	71	0 0	-.003	72	0 0	-.003
73	0 0	-.004	74	0 0	-.004	75	0 0	-.004	76	0 0	-.054
77	0 0	-.359	78	0 0	-.102	79	0 0	-.029	80	0 0	-.016
81	0 0	-.012	82	0 0	-.011	83	0 0	-.010	84	0 0	-.010
85	0 0	-.011	86	0 0	-.010	87	0 0	-.009	88	0 0	-.009
89	0 0	-.009	90	0 0	-.008	91	0 0	-.008	92	0 0	-.008
93	0 0	-.007	94	0 0	-.007	95	0 0	-.007	96	0 0	-.007
97	0 0	-.010	98	0 0	-.011	99	0 0	-.008	100	0 0	-.008
101	0 0	-.007	102	0 0	-.007	103	0 0	-.006	104	0 0	-.006
105	0 0	-.006	106	0 0	-.006	107	0 0	-.006	108	0 0	-.005
109	0 0	-.005	110	0 0	-.005	111	0 0	-.005	112	0 0	-.005
113	0 0	-.005	114	0 0	-.005	115	0 0	-.007	116	0 0	-.010
117	0 0	-.005	118	0 0	-.004	119	0 0	-.004	120	0 0	-.004
121	0 0	-.004	122	0 0	-.004	123	0 0	-.004	124	0 0	-.003
125	0 0	-.003	126	0 0	-.003	127	0 0	-.004	128	0 0	-.003
129	0 0	-.003	130	0 0	-.004	131	0 0	-.004	132	0 0	-.005
133	0 0	-.005	134	0 0	-.004	135	0 0	-.005	136	0 0	-.007
137	0 0	-.005	138	0 0	-.003	139	0 0	-.003	140	0 0	-.003
141	0 0	-.003	142	0 0	-.009	143	0 0	-.009	144	0 0	-.014
145	0 0	-.005	146	0 0	-.004	147	0 0	-.003	148	0 0	-.003
149	0 0	-.010	150	0 0	-.011	151	0 0	-.006	152	0 0	-.004
153	0 0	-.004	154	0 0	-.004	155	0 0	-.009	156	0 0	-.066
157	0 0	-.115	158	0 0	-.074	159	0 0	-.035	160	0 0	-.025
161	0 0	-.021	162	0 0	-.045	163	0 0	-.058	164	0 0	-.038
165	0 0	-.028	166	0 0	-.024	167	0 0	-.021	168	0 0	-.020
169	0 0	-.020	170	0 0	-.055	171	0 0	-.056	172	0 0	-.036
173	0 0	-.029	174	0 0	-.025	175	0 0	-.023	176	0 0	-.021
177	0 0	-.020	178	0 0	-.020	179	0 0	-.021	180	0 0	-.019
181	0 0	-.018	182	0 0	-.021	183	0 0	-.021	184	0 0	-.019
185	0 0	-.018	186	0 0	-.016	187	0 0	-.016	188	0 0	-.018
189	0 0	-.020	190	0 0	-.018	191	0 0	-.016	192	0 0	-.015
193	0 0	-.015	194	0 0	-.015	195	0 0	-.014	196	0 0	-.014
197	0 0	-.014	198	0 0	-.014	199	0 0	-.013	200	0 0	-.014
201	0 0	-.018	202	0 0	-.016	203	0 0	-.030	204	0 0	-.026
205	0 0	-.024	206	0 0	-.033	207	0 0	-.030	208	0 0	-.050
209	0 0	-.039	210	0 0	-.025	211	0 0	-.023	212	0 0	-.021
213	0 0	-.020	214	0 0	-.019	215	0 0	-.019	216	0 0	-.020
217	0 0	-.023	218	0 0	-.023	219	0 0	-.020	220	0 0	-.018
221	0 0	-.016									
	48		221								
1	0 0	-.060	2	0 0	-.055	3	0 0	-.050	4	0 0	-.048
5	0 0	-.044	6	0 0	-.042	7	0 0	-.040	8	0 0	-.040
9	0 0	-.041	10	0 0	-.039	11	0 0	-.035	12	0 0	-.034
13	0 0	-.041	14	0 0	-.096	15	0 0	-.045	16	0 0	-.035
17	0 0	-.030	18	0 0	-.026	19	0 0	-.023	20	0 0	-.022
21	0 0	-.022	22	0 0	-.028	23	0 0	-.022	24	0 0	-.020
25	0 0	-.020	26	0 0	-.020	27	0 0	-.021	28	0 0	-.021
29	0 0	-.018	30	0 0	-.017	31	0 0	-.017	32	0 0	-.017
33	0 0	-.016	34	0 0	-.016	35	0 0	-.020	36	0 0	-.017
37	0 0	-.016	38	0 0	-.015	39	0 0	-.014	40	0 0	-.013

41	0 0	-.013	42	0 0	-.013	43	0 0	-.012	44	0 0	-.019
45	0 0	-.014	46	0 0	-.013	47	0 0	-.014	48	0 0	-.018
49	0 0	-.042	50	0 0	-.026	51	0 0	-.018	52	0 0	-.016
53	0 0	-.015	54	0 0	-.014	55	0 0	-.012	56	0 0	-.012
57	0 0	-.012	58	0 0	-.012	59	0 0	-.012	60	0 0	-.012
61	0 0	-.014	62	0 0	-.015	63	0 0	-.012	64	0 0	-.012
65	0 0	-.013	66	0 0	-.014	67	0 0	-.014	68	0 0	-.014
69	0 0	-.014	70	0 0	-.013	71	0 0	-.012	72	0 0	-.014
73	0 0	-.015	74	0 0	-.014	75	0 0	-.014	76	0 0	-.217
77	0 0	-1.441	78	0 0	-.408	79	0 0	-.116	80	0 0	-.065
81	0 0	-.050	82	0 0	-.045	83	0 0	-.042	84	0 0	-.042
85	0 0	-.044	86	0 0	-.039	87	0 0	-.036	88	0 0	-.037
89	0 0	-.036	90	0 0	-.034	91	0 0	-.031	92	0 0	-.030
93	0 0	-.030	94	0 0	-.029	95	0 0	-.028	96	0 0	-.029
97	0 0	-.040	98	0 0	-.042	99	0 0	-.032	100	0 0	-.034
101	0 0	-.029	102	0 0	-.027	103	0 0	-.024	104	0 0	-.023
105	0 0	-.023	106	0 0	-.023	107	0 0	-.022	108	0 0	-.020
109	0 0	-.019	110	0 0	-.020	111	0 0	-.020	112	0 0	-.020
113	0 0	-.019	114	0 0	-.018	115	0 0	-.030	116	0 0	-.038
117	0 0	-.020	118	0 0	-.018	119	0 0	-.017	120	0 0	-.017
121	0 0	-.016	122	0 0	-.016	123	0 0	-.015	124	0 0	-.014
125	0 0	-.014	126	0 0	-.014	127	0 0	-.014	128	0 0	-.014
129	0 0	-.014	130	0 0	-.014	131	0 0	-.014	132	0 0	-.019
133	0 0	-.019	134	0 0	-.015	135	0 0	-.018	136	0 0	-.029
137	0 0	-.022	138	0 0	-.014	139	0 0	-.012	140	0 0	-.012
141	0 0	-.011	142	0 0	-.034	143	0 0	-.034	144	0 0	-.055
145	0 0	-.019	146	0 0	-.015	147	0 0	-.013	148	0 0	-.012
149	0 0	-.041	150	0 0	-.042	151	0 0	-.023	152	0 0	-.017
153	0 0	-.015	154	0 0	-.015	155	0 0	-.038	156	0 0	-.267
157	0 0	-.464	158	0 0	-.297	159	0 0	-.141	160	0 0	-.101
161	0 0	-.086	162	0 0	-.181	163	0 0	-.232	164	0 0	-.151
165	0 0	-.111	166	0 0	-.096	167	0 0	-.086	168	0 0	-.081
169	0 0	-.081	170	0 0	-.222	171	0 0	-.227	172	0 0	-.146
173	0 0	-.116	174	0 0	-.101	175	0 0	-.091	176	0 0	-.086
177	0 0	-.081	178	0 0	-.081	179	0 0	-.086	180	0 0	-.076
181	0 0	-.071	182	0 0	-.086	183	0 0	-.086	184	0 0	-.076
185	0 0	-.071	186	0 0	-.065	187	0 0	-.065	188	0 0	-.071
189	0 0	-.081	190	0 0	-.071	191	0 0	-.065	192	0 0	-.060
193	0 0	-.060	194	0 0	-.060	195	0 0	-.055	196	0 0	-.055
197	0 0	-.055	198	0 0	-.055	199	0 0	-.050	200	0 0	-.055
201	0 0	-.071	202	0 0	-.065	203	0 0	-.121	204	0 0	-.106
205	0 0	-.096	206	0 0	-.131	207	0 0	-.121	208	0 0	-.202
209	0 0	-.156	210	0 0	-.101	211	0 0	-.091	212	0 0	-.086
213	0 0	-.081	214	0 0	-.076	215	0 0	-.076	216	0 0	-.081
217	0 0	-.091	218	0 0	-.091	219	0 0	-.081	220	0 0	-.071
221	0 0	-.065									
49		221									
1	0 0	-.512	2	0 0	-.479	3	0 0	-.446	4	0 0	-.429
5	0 0	-.406	6	0 0	-.389	7	0 0	-.379	8	0 0	-.379
9	0 0	-.386	10	0 0	-.372	11	0 0	-.342	12	0 0	-.336
13	0 0	-.386	14	0 0	-.730	15	0 0	-.409	16	0 0	-.346
17	0 0	-.309	18	0 0	-.286	19	0 0	-.266	20	0 0	-.256
21	0 0	-.259	22	0 0	-.296	23	0 0	-.256	24	0 0	-.245
25	0 0	-.242	26	0 0	-.242	27	0 0	-.249	28	0 0	-.249
29	0 0	-.232	30	0 0	-.222	31	0 0	-.222	32	0 0	-.225
33	0 0	-.219	34	0 0	-.219	35	0 0	-.245	36	0 0	-.222
37	0 0	-.215	38	0 0	-.209	39	0 0	-.202	40	0 0	-.199
41	0 0	-.199	42	0 0	-.195	43	0 0	-.192	44	0 0	-.235
45	0 0	-.202	46	0 0	-.199	47	0 0	-.205	48	0 0	-.232
49	0 0	-.392	50	0 0	-.286	51	0 0	-.232	52	0 0	-.219
53	0 0	-.209	54	0 0	-.202	55	0 0	-.192	56	0 0	-.192
57	0 0	-.189	58	0 0	-.189	59	0 0	-.192	60	0 0	-.192
61	0 0	-.202	62	0 0	-.209	63	0 0	-.192	64	0 0	-.192

65	0 0	-.195	66	0 0	-.202	67	0 0	-.205	68	0 0	-.202
69	0 0	-.202	70	0 0	-.195	71	0 0	-.192	72	0 0	-.202
73	0 0	-.209	74	0 0	-.205	75	0 0	-.205	76	0 0	-1.653
77	0 0	-10.992	78	0 0	-3.113	79	0 0	-.884	80	0 0	-.546
81	0 0	-.442	82	0 0	-.409	83	0 0	-.389	84	0 0	-.389
85	0 0	-.402	86	0 0	-.372	87	0 0	-.352	88	0 0	-.356
89	0 0	-.352	90	0 0	-.336	91	0 0	-.319	92	0 0	-.312
93	0 0	-.309	94	0 0	-.302	95	0 0	-.299	96	0 0	-.306
97	0 0	-.376	98	0 0	-.392	99	0 0	-.326	100	0 0	-.336
101	0 0	-.302	102	0 0	-.292	103	0 0	-.272	104	0 0	-.266
105	0 0	-.266	106	0 0	-.266	107	0 0	-.259	108	0 0	-.245
109	0 0	-.239	110	0 0	-.242	111	0 0	-.242	112	0 0	-.242
113	0 0	-.239	114	0 0	-.232	115	0 0	-.309	116	0 0	-.366
117	0 0	-.242	118	0 0	-.229	119	0 0	-.225	120	0 0	-.225
121	0 0	-.219	122	0 0	-.215	123	0 0	-.212	124	0 0	-.202
125	0 0	-.202	126	0 0	-.202	127	0 0	-.205	128	0 0	-.202
129	0 0	-.202	130	0 0	-.205	131	0 0	-.205	132	0 0	-.239
133	0 0	-.239	134	0 0	-.212	135	0 0	-.232	136	0 0	-.306
137	0 0	-.256	138	0 0	-.202	139	0 0	-.192	140	0 0	-.189
141	0 0	-.185	142	0 0	-.339	143	0 0	-.339	144	0 0	-.479
145	0 0	-.235	146	0 0	-.209	147	0 0	-.195	148	0 0	-.192
149	0 0	-.419	150	0 0	-.425	151	0 0	-.298	152	0 0	-.255
153	0 0	-.242	154	0 0	-.245	155	0 0	-.395	156	0 0	-2.070
157	0 0	-3.569	158	0 0	-2.300	159	0 0	-1.109	160	0 0	-.802
161	0 0	-.686	162	0 0	-1.416	163	0 0	-1.801	164	0 0	-1.186
165	0 0	-.878	166	0 0	-.763	167	0 0	-.686	168	0 0	-.679
169	0 0	-.679	170	0 0	-1.724	171	0 0	-1.762	172	0 0	-1.147
173	0 0	-.917	174	0 0	-.802	175	0 0	-.725	176	0 0	-.686
177	0 0	-.679	178	0 0	-.679	179	0 0	-.686	180	0 0	-.646
181	0 0	-.612	182	0 0	-.686	183	0 0	-.686	184	0 0	-.646
185	0 0	-.612	186	0 0	-.579	187	0 0	-.579	188	0 0	-.612
189	0 0	-.679	190	0 0	-.612	191	0 0	-.579	192	0 0	-.545
193	0 0	-.545	194	0 0	-.545	195	0 0	-.512	196	0 0	-.512
197	0 0	-.512	198	0 0	-.512	199	0 0	-.479	200	0 0	-.512
201	0 0	-.612	202	0 0	-.579	203	0 0	-.955	204	0 0	-.840
205	0 0	-.763	206	0 0	-1.032	207	0 0	-.955	208	0 0	-1.570
209	0 0	-1.224	210	0 0	-.802	211	0 0	-.725	212	0 0	-.686
213	0 0	-.679	214	0 0	-.646	215	0 0	-.646	216	0 0	-.679
217	0 0	-.725	218	0 0	-.725	219	0 0	-.679	220	0 0	-.612
221	0 0	-.579									
50		221									
1	0 0	.504	2	0 0	.472	3	0 0	.439	4	0 0	.423
5	0 0	.400	6	0 0	.383	7	0 0	.374	8	0 0	.374
9	0 0	.380	10	0 0	.367	11	0 0	.338	12	0 0	.331
13	0 0	.380	14	0 0	.717	15	0 0	.403	16	0 0	.341
17	0 0	.305	18	0 0	.282	19	0 0	.262	20	0 0	.253
21	0 0	.256	22	0 0	.292	23	0 0	.253	24	0 0	.243
25	0 0	.240	26	0 0	.240	27	0 0	.246	28	0 0	.246
29	0 0	.230	30	0 0	.220	31	0 0	.220	32	0 0	.223
33	0 0	.217	34	0 0	.217	35	0 0	.243	36	0 0	.220
37	0 0	.213	38	0 0	.207	39	0 0	.200	40	0 0	.197
41	0 0	.197	42	0 0	.194	43	0 0	.190	44	0 0	.233
45	0 0	.200	46	0 0	.197	47	0 0	.204	48	0 0	.230
49	0 0	.387	50	0 0	.282	51	0 0	.230	52	0 0	.217
53	0 0	.207	54	0 0	.200	55	0 0	.190	56	0 0	.190
57	0 0	.187	58	0 0	.187	59	0 0	.190	60	0 0	.190
61	0 0	.200	62	0 0	.207	63	0 0	.190	64	0 0	.190
65	0 0	.194	66	0 0	.200	67	0 0	.204	68	0 0	.200
69	0 0	.200	70	0 0	.194	71	0 0	.190	72	0 0	.200
73	0 0	.207	74	0 0	.204	75	0 0	.204	76	0 0	1.623
77	0 0	10.798	78	0 0	3.058	79	0 0	.868	80	0 0	.537
81	0 0	.436	82	0 0	.403	83	0 0	.383	84	0 0	.383
85	0 0	.396	86	0 0	.367	87	0 0	.347	88	0 0	.351

89	0 0	.347	90	0 0	.331	91	0 0	.315	92	0 0	.308
93	0 0	.305	94	0 0	.298	95	0 0	.295	96	0 0	.302
97	0 0	.370	98	0 0	.387	99	0 0	.321	100	0 0	.331
101	0 0	.298	102	0 0	.289	103	0 0	.269	104	0 0	.262
105	0 0	.262	106	0 0	.262	107	0 0	.256	108	0 0	.243
109	0 0	.236	110	0 0	.240	111	0 0	.240	112	0 0	.240
113	0 0	.236	114	0 0	.230	115	0 0	.305	116	0 0	.361
117	0 0	.240	118	0 0	.226	119	0 0	.223	120	0 0	.223
121	0 0	.217	122	0 0	.213	123	0 0	.210	124	0 0	.200
125	0 0	.200	126	0 0	.200	127	0 0	.204	128	0 0	.200
129	0 0	.200	130	0 0	.204	131	0 0	.204	132	0 0	.236
133	0 0	.236	134	0 0	.210	135	0 0	.230	136	0 0	.302
137	0 0	.253	138	0 0	.200	139	0 0	.190	140	0 0	.187
141	0 0	.184	142	0 0	.334	143	0 0	.334	144	0 0	.472
145	0 0	.233	146	0 0	.207	147	0 0	.194	148	0 0	.190
149	0 0	.413	150	0 0	.420	151	0 0	.295	152	0 0	.253
153	0 0	.240	154	0 0	.243	155	0 0	.390	156	0 0	2.034
157	0 0	3.506	158	0 0	2.260	159	0 0	1.090	160	0 0	.788
161	0 0	.675	162	0 0	1.392	163	0 0	1.770	164	0 0	1.166
165	0 0	.864	166	0 0	.750	167	0 0	.675	168	0 0	.668
169	0 0	.668	170	0 0	1.694	171	0 0	1.732	172	0 0	1.128
173	0 0	.901	174	0 0	.788	175	0 0	.713	176	0 0	.675
177	0 0	.668	178	0 0	.668	179	0 0	.675	180	0 0	.635
181	0 0	.603	182	0 0	.675	183	0 0	.675	184	0 0	.635
185	0 0	.603	186	0 0	.570	187	0 0	.570	188	0 0	.603
189	0 0	.668	190	0 0	.603	191	0 0	.570	192	0 0	.537
193	0 0	.537	194	0 0	.537	195	0 0	.505	196	0 0	.505
197	0 0	.505	198	0 0	.505	199	0 0	.472	200	0 0	.505
201	0 0	.603	202	0 0	.570	203	0 0	.939	204	0 0	.826
205	0 0	.750	206	0 0	1.015	207	0 0	.939	208	0 0	1.543
209	0 0	1.203	210	0 0	.788	211	0 0	.713	212	0 0	.675
213	0 0	.668	214	0 0	.635	215	0 0	.635	216	0 0	.668
217	0 0	.713	218	0 0	.713	219	0 0	.668	220	0 0	.603
221	0 0	.570									
51		221									
1	0 0	-.145	2	0 0	-.133	3	0 0	-.120	4	0 0	-.114
5	0 0	-.106	6	0 0	-.100	7	0 0	-.096	8	0 0	-.096
9	0 0	-.099	10	0 0	-.094	11	0 0	-.083	12	0 0	-.081
13	0 0	-.099	14	0 0	-.229	15	0 0	-.107	16	0 0	-.084
17	0 0	-.071	18	0 0	-.063	19	0 0	-.055	20	0 0	-.052
21	0 0	-.053	22	0 0	-.066	23	0 0	-.052	24	0 0	-.048
25	0 0	-.047	26	0 0	-.047	27	0 0	-.049	28	0 0	-.049
29	0 0	-.043	30	0 0	-.040	31	0 0	-.040	32	0 0	-.041
33	0 0	-.039	34	0 0	-.039	35	0 0	-.048	36	0 0	-.040
37	0 0	-.037	38	0 0	-.035	39	0 0	-.033	40	0 0	-.031
41	0 0	-.031	42	0 0	-.030	43	0 0	-.029	44	0 0	-.045
45	0 0	-.033	46	0 0	-.031	47	0 0	-.034	48	0 0	-.043
49	0 0	-.101	50	0 0	-.063	51	0 0	-.043	52	0 0	-.039
53	0 0	-.035	54	0 0	-.033	55	0 0	-.029	56	0 0	-.029
57	0 0	-.028	58	0 0	-.028	59	0 0	-.029	60	0 0	-.029
61	0 0	-.033	62	0 0	-.035	63	0 0	-.029	64	0 0	-.029
65	0 0	-.030	66	0 0	-.033	67	0 0	-.034	68	0 0	-.033
69	0 0	-.033	70	0 0	-.030	71	0 0	-.029	72	0 0	-.033
73	0 0	-.035	74	0 0	-.034	75	0 0	-.034	76	0 0	-.518
77	0 0	-3.446	78	0 0	-.976	79	0 0	-.277	80	0 0	-.157
81	0 0	-.119	82	0 0	-.107	83	0 0	-.100	84	0 0	-.100
85	0 0	-.105	86	0 0	-.094	87	0 0	-.087	88	0 0	-.088
89	0 0	-.087	90	0 0	-.081	91	0 0	-.075	92	0 0	-.072
93	0 0	-.071	94	0 0	-.069	95	0 0	-.067	96	0 0	-.070
97	0 0	-.095	98	0 0	-.101	99	0 0	-.077	100	0 0	-.081
101	0 0	-.069	102	0 0	-.065	103	0 0	-.058	104	0 0	-.055
105	0 0	-.055	106	0 0	-.055	107	0 0	-.053	108	0 0	-.048
109	0 0	-.046	110	0 0	-.047	111	0 0	-.047	112	0 0	-.047

113	0 0	-.046	114	0 0	-.043	115	0 0	-.071	116	0 0	-.092
117	0 0	-.047	118	0 0	-.042	119	0 0	-.041	120	0 0	-.041
121	0 0	-.039	122	0 0	-.037	123	0 0	-.036	124	0 0	-.033
125	0 0	-.033	126	0 0	-.033	127	0 0	-.034	128	0 0	-.033
129	0 0	-.033	130	0 0	-.034	131	0 0	-.034	132	0 0	-.046
133	0 0	-.046	134	0 0	-.036	135	0 0	-.043	136	0 0	-.070
137	0 0	-.052	138	0 0	-.033	139	0 0	-.029	140	0 0	-.028
141	0 0	-.027	142	0 0	-.082	143	0 0	-.082	144	0 0	-.133
145	0 0	-.045	146	0 0	-.035	147	0 0	-.030	148	0 0	-.029
149	0 0	-.099	150	0 0	-.101	151	0 0	-.055	152	0 0	-.040
153	0 0	-.035	154	0 0	-.036	155	0 0	-.090	156	0 0	-.639
157	0 0	-1.108	158	0 0	-.711	159	0 0	-.337	160	0 0	-.241
161	0 0	-.205	162	0 0	-.434	163	0 0	-.554	164	0 0	-.361
165	0 0	-.265	166	0 0	-.229	167	0 0	-.205	168	0 0	-.193
169	0 0	-.193	170	0 0	-.530	171	0 0	-.542	172	0 0	-.349
173	0 0	-.277	174	0 0	-.241	175	0 0	-.217	176	0 0	-.205
177	0 0	-.193	178	0 0	-.193	179	0 0	-.205	180	0 0	-.181
181	0 0	-.169	182	0 0	-.205	183	0 0	-.205	184	0 0	-.181
185	0 0	-.169	186	0 0	-.157	187	0 0	-.157	188	0 0	-.169
189	0 0	-.193	190	0 0	-.169	191	0 0	-.157	192	0 0	-.145
193	0 0	-.145	194	0 0	-.145	195	0 0	-.133	196	0 0	-.133
197	0 0	-.133	198	0 0	-.133	199	0 0	-.120	200	0 0	-.133
201	0 0	-.169	202	0 0	-.157	203	0 0	-.289	204	0 0	-.253
205	0 0	-.229	206	0 0	-.313	207	0 0	-.289	208	0 0	-.482
209	0 0	-.373	210	0 0	-.241	211	0 0	-.217	212	0 0	-.205
213	0 0	-.193	214	0 0	-.181	215	0 0	-.181	216	0 0	-.193
217	0 0	-.217	218	0 0	-.217	219	0 0	-.193	220	0 0	-.169
221	0 0	-.157									
	52	221									
1	0 0	-.013	2	0 0	-.012	3	0 0	-.011	4	0 0	-.011
5	0 0	-.010	6	0 0	-.009	7	0 0	-.009	8	0 0	-.009
9	0 0	-.009	10	0 0	-.009	11	0 0	-.008	12	0 0	-.007
13	0 0	-.009	14	0 0	-.021	15	0 0	-.010	16	0 0	-.008
17	0 0	-.007	18	0 0	-.006	19	0 0	-.005	20	0 0	-.005
21	0 0	-.005	22	0 0	-.006	23	0 0	-.005	24	0 0	-.004
25	0 0	-.004	26	0 0	-.004	27	0 0	-.005	28	0 0	-.005
29	0 0	-.004	30	0 0	-.004	31	0 0	-.004	32	0 0	-.004
33	0 0	-.004	34	0 0	-.004	35	0 0	-.004	36	0 0	-.004
37	0 0	-.003	38	0 0	-.003	39	0 0	-.003	40	0 0	-.003
41	0 0	-.003	42	0 0	-.003	43	0 0	-.003	44	0 0	-.004
45	0 0	-.003	46	0 0	-.003	47	0 0	-.003	48	0 0	-.004
49	0 0	-.009	50	0 0	-.006	51	0 0	-.004	52	0 0	-.004
53	0 0	-.003	54	0 0	-.003	55	0 0	-.003	56	0 0	-.003
57	0 0	-.003	58	0 0	-.003	59	0 0	-.003	60	0 0	-.003
61	0 0	-.003	62	0 0	-.003	63	0 0	-.003	64	0 0	-.003
65	0 0	-.003	66	0 0	-.003	67	0 0	-.003	68	0 0	-.003
69	0 0	-.003	70	0 0	-.003	71	0 0	-.003	72	0 0	-.003
73	0 0	-.003	74	0 0	-.003	75	0 0	-.003	76	0 0	-.048
77	0 0	-.319	78	0 0	-.090	79	0 0	-.026	80	0 0	-.014
81	0 0	-.011	82	0 0	-.010	83	0 0	-.009	84	0 0	-.009
85	0 0	-.010	86	0 0	-.009	87	0 0	-.008	88	0 0	-.008
89	0 0	-.008	90	0 0	-.007	91	0 0	-.007	92	0 0	-.007
93	0 0	-.007	94	0 0	-.006	95	0 0	-.006	96	0 0	-.006
97	0 0	-.009	98	0 0	-.009	99	0 0	-.007	100	0 0	-.007
101	0 0	-.006	102	0 0	-.006	103	0 0	-.005	104	0 0	-.005
105	0 0	-.005	106	0 0	-.005	107	0 0	-.005	108	0 0	-.004
109	0 0	-.004	110	0 0	-.004	111	0 0	-.004	112	0 0	-.004
113	0 0	-.004	114	0 0	-.004	115	0 0	-.007	116	0 0	-.008
117	0 0	-.004	118	0 0	-.004	119	0 0	-.004	120	0 0	-.004
121	0 0	-.004	122	0 0	-.003	123	0 0	-.003	124	0 0	-.003
125	0 0	-.003	126	0 0	-.003	127	0 0	-.003	128	0 0	-.003
129	0 0	-.003	130	0 0	-.003	131	0 0	-.003	132	0 0	-.004
133	0 0	-.004	134	0 0	-.003	135	0 0	-.004	136	0 0	-.006

137	0 0	-.005	138	0 0	-.003	139	0 0	-.003	140	0 0	-.003
141	0 0	-.002	142	0 0	-.008	143	0 0	-.008	144	0 0	-.012
145	0 0	-.004	146	0 0	-.003	147	0 0	-.003	148	0 0	-.003
149	0 0	-.009	150	0 0	-.009	151	0 0	-.005	152	0 0	-.004
153	0 0	-.003	154	0 0	-.003	155	0 0	-.008	156	0 0	-.059
157	0 0	-.103	158	0 0	-.066	159	0 0	-.031	160	0 0	-.022
161	0 0	-.019	162	0 0	-.040	163	0 0	-.051	164	0 0	-.033
165	0 0	-.025	166	0 0	-.021	167	0 0	-.019	168	0 0	-.018
169	0 0	-.018	170	0 0	-.049	171	0 0	-.050	172	0 0	-.032
173	0 0	-.026	174	0 0	-.022	175	0 0	-.020	176	0 0	-.019
177	0 0	-.018	178	0 0	-.018	179	0 0	-.019	180	0 0	-.017
181	0 0	-.016	182	0 0	-.019	183	0 0	-.019	184	0 0	-.017
185	0 0	-.016	186	0 0	-.014	187	0 0	-.014	188	0 0	-.016
189	0 0	-.018	190	0 0	-.016	191	0 0	-.014	192	0 0	-.013
193	0 0	-.013	194	0 0	-.013	195	0 0	-.012	196	0 0	-.012
197	0 0	-.012	198	0 0	-.012	199	0 0	-.011	200	0 0	-.012
201	0 0	-.016	202	0 0	-.014	203	0 0	-.027	204	0 0	-.023
205	0 0	-.021	206	0 0	-.029	207	0 0	-.027	208	0 0	-.045
209	0 0	-.035	210	0 0	-.022	211	0 0	-.020	212	0 0	-.019
213	0 0	-.018	214	0 0	-.017	215	0 0	-.017	216	0 0	-.018
217	0 0	-.020	218	0 0	-.020	219	0 0	-.018	220	0 0	-.016
221	0 0	-.014									
	53		221								
1	0 0	-.037	2	0 0	-.034	3	0 0	-.031	4	0 0	-.030
5	0 0	-.027	6	0 0	-.026	7	0 0	-.025	8	0 0	-.025
9	0 0	-.025	10	0 0	-.024	11	0 0	-.021	12	0 0	-.021
13	0 0	-.025	14	0 0	-.059	15	0 0	-.028	16	0 0	-.022
17	0 0	-.018	18	0 0	-.016	19	0 0	-.014	20	0 0	-.013
21	0 0	-.014	22	0 0	-.017	23	0 0	-.013	24	0 0	-.012
25	0 0	-.012	26	0 0	-.012	27	0 0	-.013	28	0 0	-.013
29	0 0	-.011	30	0 0	-.010	31	0 0	-.010	32	0 0	-.011
33	0 0	-.010	34	0 0	-.010	35	0 0	-.012	36	0 0	-.010
37	0 0	-.010	38	0 0	-.009	39	0 0	-.008	40	0 0	-.008
41	0 0	-.008	42	0 0	-.008	43	0 0	-.007	44	0 0	-.011
45	0 0	-.008	46	0 0	-.008	47	0 0	-.009	48	0 0	-.011
49	0 0	-.026	50	0 0	-.016	51	0 0	-.011	52	0 0	-.010
53	0 0	-.009	54	0 0	-.008	55	0 0	-.007	56	0 0	-.007
57	0 0	-.007	58	0 0	-.007	59	0 0	-.007	60	0 0	-.007
61	0 0	-.008	62	0 0	-.009	63	0 0	-.007	64	0 0	-.007
65	0 0	-.008	66	0 0	-.008	67	0 0	-.009	68	0 0	-.008
69	0 0	-.008	70	0 0	-.008	71	0 0	-.007	72	0 0	-.008
73	0 0	-.009	74	0 0	-.009	75	0 0	-.009	76	0 0	-.134
77	0 0	-.888	78	0 0	-.252	79	0 0	-.071	80	0 0	-.040
81	0 0	-.031	82	0 0	-.028	83	0 0	-.026	84	0 0	-.026
85	0 0	-.027	86	0 0	-.024	87	0 0	-.022	88	0 0	-.023
89	0 0	-.022	90	0 0	-.021	91	0 0	-.019	92	0 0	-.019
93	0 0	-.018	94	0 0	-.018	95	0 0	-.017	96	0 0	-.018
97	0 0	-.025	98	0 0	-.026	99	0 0	-.020	100	0 0	-.021
101	0 0	-.018	102	0 0	-.017	103	0 0	-.015	104	0 0	-.014
105	0 0	-.014	106	0 0	-.014	107	0 0	-.014	108	0 0	-.012
109	0 0	-.012	110	0 0	-.012	111	0 0	-.012	112	0 0	-.012
113	0 0	-.012	114	0 0	-.011	115	0 0	-.018	116	0 0	-.024
117	0 0	-.012	118	0 0	-.011	119	0 0	-.011	120	0 0	-.011
121	0 0	-.010	122	0 0	-.010	123	0 0	-.009	124	0 0	-.008
125	0 0	-.008	126	0 0	-.008	127	0 0	-.009	128	0 0	-.008
129	0 0	-.008	130	0 0	-.009	131	0 0	-.009	132	0 0	-.012
133	0 0	-.012	134	0 0	-.009	135	0 0	-.011	136	0 0	-.018
137	0 0	-.013	138	0 0	-.008	139	0 0	-.007	140	0 0	-.007
141	0 0	-.007	142	0 0	-.021	143	0 0	-.021	144	0 0	-.034
145	0 0	-.011	146	0 0	-.009	147	0 0	-.008	148	0 0	-.007
149	0 0	-.025	150	0 0	-.026	151	0 0	-.014	152	0 0	-.010
153	0 0	-.009	154	0 0	-.009	155	0 0	-.023	156	0 0	-.165
157	0 0	-.286	158	0 0	-.183	159	0 0	-.087	160	0 0	-.062

161	0 0	-.053	162	0 0	-.112	163	0 0	-.143	164	0 0	-.093
165	0 0	-.068	166	0 0	-.059	167	0 0	-.053	168	0 0	-.050
169	0 0	-.050	170	0 0	-.137	171	0 0	-.140	172	0 0	-.090
173	0 0	-.071	174	0 0	-.062	175	0 0	-.056	176	0 0	-.053
177	0 0	-.050	178	0 0	-.050	179	0 0	-.053	180	0 0	-.047
181	0 0	-.043	182	0 0	-.053	183	0 0	-.053	184	0 0	-.047
185	0 0	-.043	186	0 0	-.040	187	0 0	-.040	188	0 0	-.043
189	0 0	-.050	190	0 0	-.043	191	0 0	-.040	192	0 0	-.037
193	0 0	-.037	194	0 0	-.037	195	0 0	-.034	196	0 0	-.034
197	0 0	-.034	198	0 0	-.034	199	0 0	-.031	200	0 0	-.034
201	0 0	-.043	202	0 0	-.040	203	0 0	-.075	204	0 0	-.065
205	0 0	-.059	206	0 0	-.081	207	0 0	-.075	208	0 0	-.124
209	0 0	-.096	210	0 0	-.062	211	0 0	-.056	212	0 0	-.053
213	0 0	-.050	214	0 0	-.047	215	0 0	-.047	216	0 0	-.050
217	0 0	-.056	218	0 0	-.056	219	0 0	-.050	220	0 0	-.043
221	0 0	-.040									
	54		221								
1	0 0	-.024	2	0 0	-.022	3	0 0	-.020	4	0 0	-.019
5	0 0	-.018	6	0 0	-.017	7	0 0	-.016	8	0 0	-.016
9	0 0	-.016	10	0 0	-.016	11	0 0	-.014	12	0 0	-.013
13	0 0	-.016	14	0 0	-.038	15	0 0	-.018	16	0 0	-.014
17	0 0	-.012	18	0 0	-.010	19	0 0	-.009	20	0 0	-.009
21	0 0	-.009	22	0 0	-.011	23	0 0	-.009	24	0 0	-.008
25	0 0	-.008	26	0 0	-.008	27	0 0	-.008	28	0 0	-.008
29	0 0	-.007	30	0 0	-.007	31	0 0	-.007	32	0 0	-.007
33	0 0	-.006	34	0 0	-.006	35	0 0	-.008	36	0 0	-.007
37	0 0	-.006	38	0 0	-.006	39	0 0	-.005	40	0 0	-.005
41	0 0	-.005	42	0 0	-.005	43	0 0	-.005	44	0 0	-.007
45	0 0	-.005	46	0 0	-.005	47	0 0	-.006	48	0 0	-.007
49	0 0	-.017	50	0 0	-.010	51	0 0	-.007	52	0 0	-.006
53	0 0	-.006	54	0 0	-.005	55	0 0	-.005	56	0 0	-.005
57	0 0	-.005	58	0 0	-.005	59	0 0	-.005	60	0 0	-.005
61	0 0	-.005	62	0 0	-.006	63	0 0	-.005	64	0 0	-.005
65	0 0	-.005	66	0 0	-.005	67	0 0	-.006	68	0 0	-.005
69	0 0	-.005	70	0 0	-.005	71	0 0	-.005	72	0 0	-.005
73	0 0	-.006	74	0 0	-.006	75	0 0	-.006	76	0 0	-.086
77	0 0	-.575	78	0 0	-.163	79	0 0	-.046	80	0 0	-.026
81	0 0	-.020	82	0 0	-.018	83	0 0	-.017	84	0 0	-.017
85	0 0	-.017	86	0 0	-.016	87	0 0	-.014	88	0 0	-.015
89	0 0	-.014	90	0 0	-.013	91	0 0	-.012	92	0 0	-.012
93	0 0	-.012	94	0 0	-.011	95	0 0	-.011	96	0 0	-.012
97	0 0	-.016	98	0 0	-.017	99	0 0	-.013	100	0 0	-.013
101	0 0	-.011	102	0 0	-.011	103	0 0	-.010	104	0 0	-.009
105	0 0	-.009	106	0 0	-.009	107	0 0	-.009	108	0 0	-.008
109	0 0	-.008	110	0 0	-.008	111	0 0	-.008	112	0 0	-.008
113	0 0	-.008	114	0 0	-.007	115	0 0	-.012	116	0 0	-.015
117	0 0	-.008	118	0 0	-.007	119	0 0	-.007	120	0 0	-.007
121	0 0	-.006	122	0 0	-.006	123	0 0	-.006	124	0 0	-.005
125	0 0	-.005	126	0 0	-.005	127	0 0	-.006	128	0 0	-.005
129	0 0	-.005	130	0 0	-.006	131	0 0	-.006	132	0 0	-.008
133	0 0	-.008	134	0 0	-.006	135	0 0	-.007	136	0 0	-.012
137	0 0	-.009	138	0 0	-.005	139	0 0	-.005	140	0 0	-.005
141	0 0	-.004	142	0 0	-.014	143	0 0	-.014	144	0 0	-.022
145	0 0	-.007	146	0 0	-.006	147	0 0	-.005	148	0 0	-.005
149	0 0	-.016	150	0 0	-.017	151	0 0	-.009	152	0 0	-.007
153	0 0	-.006	154	0 0	-.006	155	0 0	-.015	156	0 0	-.107
157	0 0	-.185	158	0 0	-.119	159	0 0	-.056	160	0 0	-.040
161	0 0	-.034	162	0 0	-.072	163	0 0	-.093	164	0 0	-.060
165	0 0	-.044	166	0 0	-.038	167	0 0	-.034	168	0 0	-.032
169	0 0	-.032	170	0 0	-.088	171	0 0	-.091	172	0 0	-.058
173	0 0	-.046	174	0 0	-.040	175	0 0	-.036	176	0 0	-.034
177	0 0	-.032	178	0 0	-.032	179	0 0	-.034	180	0 0	-.030
181	0 0	-.028	182	0 0	-.034	183	0 0	-.034	184	0 0	-.030

185	0 0	-.028	186	0 0	-.026	187	0 0	-.026	188	0 0	-.028
189	0 0	-.032	190	0 0	-.028	191	0 0	-.026	192	0 0	-.024
193	0 0	-.024	194	0 0	-.024	195	0 0	-.022	196	0 0	-.022
197	0 0	-.022	198	0 0	-.022	199	0 0	-.020	200	0 0	-.022
201	0 0	-.028	202	0 0	-.026	203	0 0	-.048	204	0 0	-.042
205	0 0	-.038	206	0 0	-.052	207	0 0	-.048	208	0 0	-.080
209	0 0	-.062	210	0 0	-.040	211	0 0	-.036	212	0 0	-.034
213	0 0	-.032	214	0 0	-.030	215	0 0	-.030	216	0 0	-.032
217	0 0	-.036	218	0 0	-.036	219	0 0	-.032	220	0 0	-.028
221	0 0	-.026									
	55	221									
1	0 0	-.016	2	0 0	-.014	3	0 0	-.013	4	0 0	-.012
5	0 0	-.012	6	0 0	-.011	7	0 0	-.011	8	0 0	-.011
9	0 0	-.011	10	0 0	-.010	11	0 0	-.009	12	0 0	-.009
13	0 0	-.011	14	0 0	-.025	15	0 0	-.012	16	0 0	-.009
17	0 0	-.008	18	0 0	-.007	19	0 0	-.006	20	0 0	-.006
21	0 0	-.006	22	0 0	-.007	23	0 0	-.006	24	0 0	-.005
25	0 0	-.005	26	0 0	-.005	27	0 0	-.005	28	0 0	-.005
29	0 0	-.005	30	0 0	-.004	31	0 0	-.004	32	0 0	-.004
33	0 0	-.004	34	0 0	-.004	35	0 0	-.005	36	0 0	-.004
37	0 0	-.004	38	0 0	-.004	39	0 0	-.004	40	0 0	-.003
41	0 0	-.003	42	0 0	-.003	43	0 0	-.003	44	0 0	-.005
45	0 0	-.004	46	0 0	-.003	47	0 0	-.004	48	0 0	-.005
49	0 0	-.011	50	0 0	-.007	51	0 0	-.005	52	0 0	-.004
53	0 0	-.004	54	0 0	-.004	55	0 0	-.003	56	0 0	-.003
57	0 0	-.003	58	0 0	-.003	59	0 0	-.003	60	0 0	-.003
61	0 0	-.004	62	0 0	-.004	63	0 0	-.003	64	0 0	-.003
65	0 0	-.003	66	0 0	-.004	67	0 0	-.004	68	0 0	-.004
69	0 0	-.004	70	0 0	-.003	71	0 0	-.003	72	0 0	-.004
73	0 0	-.004	74	0 0	-.004	75	0 0	-.004	76	0 0	-.057
77	0 0	-.376	78	0 0	-.106	79	0 0	-.030	80	0 0	-.017
81	0 0	-.013	82	0 0	-.012	83	0 0	-.011	84	0 0	-.011
85	0 0	-.011	86	0 0	-.010	87	0 0	-.009	88	0 0	-.010
89	0 0	-.009	90	0 0	-.009	91	0 0	-.008	92	0 0	-.008
93	0 0	-.008	94	0 0	-.007	95	0 0	-.007	96	0 0	-.008
97	0 0	-.010	98	0 0	-.011	99	0 0	-.008	100	0 0	-.009
101	0 0	-.007	102	0 0	-.007	103	0 0	-.006	104	0 0	-.006
105	0 0	-.006	106	0 0	-.006	107	0 0	-.006	108	0 0	-.005
109	0 0	-.005	110	0 0	-.005	111	0 0	-.005	112	0 0	-.005
113	0 0	-.005	114	0 0	-.005	115	0 0	-.008	116	0 0	-.010
117	0 0	-.005	118	0 0	-.005	119	0 0	-.004	120	0 0	-.004
121	0 0	-.004	122	0 0	-.004	123	0 0	-.004	124	0 0	-.004
125	0 0	-.004	126	0 0	-.004	127	0 0	-.004	128	0 0	-.004
129	0 0	-.004	130	0 0	-.004	131	0 0	-.004	132	0 0	-.005
133	0 0	-.005	134	0 0	-.004	135	0 0	-.005	136	0 0	-.008
137	0 0	-.006	138	0 0	-.004	139	0 0	-.003	140	0 0	-.003
141	0 0	-.003	142	0 0	-.009	143	0 0	-.009	144	0 0	-.014
145	0 0	-.005	146	0 0	-.004	147	0 0	-.003	148	0 0	-.003
149	0 0	-.011	150	0 0	-.011	151	0 0	-.006	152	0 0	-.004
153	0 0	-.004	154	0 0	-.004	155	0 0	-.010	156	0 0	-.070
157	0 0	-.121	158	0 0	-.078	159	0 0	-.037	160	0 0	-.026
161	0 0	-.022	162	0 0	-.047	163	0 0	-.060	164	0 0	-.039
165	0 0	-.029	166	0 0	-.025	167	0 0	-.022	168	0 0	-.021
169	0 0	-.021	170	0 0	-.058	171	0 0	-.059	172	0 0	-.038
173	0 0	-.030	174	0 0	-.026	175	0 0	-.024	176	0 0	-.022
177	0 0	-.021	178	0 0	-.021	179	0 0	-.022	180	0 0	-.020
181	0 0	-.018	182	0 0	-.022	183	0 0	-.022	184	0 0	-.020
185	0 0	-.018	186	0 0	-.017	187	0 0	-.017	188	0 0	-.018
189	0 0	-.021	190	0 0	-.018	191	0 0	-.017	192	0 0	-.016
193	0 0	-.016	194	0 0	-.016	195	0 0	-.014	196	0 0	-.014
197	0 0	-.014	198	0 0	-.014	199	0 0	-.013	200	0 0	-.014
201	0 0	-.018	202	0 0	-.017	203	0 0	-.032	204	0 0	-.028
205	0 0	-.025	206	0 0	-.034	207	0 0	-.032	208	0 0	-.053

209	0 0	-.041	210	0 0	-.026	211	0 0	-.024	212	0 0	-.022
213	0 0	-.021	214	0 0	-.020	215	0 0	-.020	216	0 0	-.021
217	0 0	-.024	218	0 0	-.024	219	0 0	-.021	220	0 0	-.018
221	0 0	-.017									
	56	221									
1	0 0	-.109	2	0 0	-.100	3	0 0	-.091	4	0 0	-.087
5	0 0	-.080	6	0 0	-.076	7	0 0	-.073	8	0 0	-.073
9	0 0	-.075	10	0 0	-.071	11	0 0	-.063	12	0 0	-.061
13	0 0	-.075	14	0 0	-.173	15	0 0	-.081	16	0 0	-.064
17	0 0	-.054	18	0 0	-.047	19	0 0	-.042	20	0 0	-.039
21	0 0	-.040	22	0 0	-.050	23	0 0	-.039	24	0 0	-.036
25	0 0	-.036	26	0 0	-.036	27	0 0	-.037	28	0 0	-.037
29	0 0	-.033	30	0 0	-.030	31	0 0	-.030	32	0 0	-.031
33	0 0	-.029	34	0 0	-.029	35	0 0	-.036	36	0 0	-.030
37	0 0	-.028	38	0 0	-.026	39	0 0	-.025	40	0 0	-.024
41	0 0	-.024	42	0 0	-.023	43	0 0	-.022	44	0 0	-.034
45	0 0	-.025	46	0 0	-.024	47	0 0	-.026	48	0 0	-.033
49	0 0	-.077	50	0 0	-.047	51	0 0	-.033	52	0 0	-.029
53	0 0	-.026	54	0 0	-.025	55	0 0	-.022	56	0 0	-.022
57	0 0	-.021	58	0 0	-.021	59	0 0	-.022	60	0 0	-.022
61	0 0	-.025	62	0 0	-.026	63	0 0	-.022	64	0 0	-.022
65	0 0	-.023	66	0 0	-.025	67	0 0	-.026	68	0 0	-.025
69	0 0	-.025	70	0 0	-.023	71	0 0	-.022	72	0 0	-.025
73	0 0	-.026	74	0 0	-.026	75	0 0	-.026	76	0 0	-.392
77	0 0	-2.608	78	0 0	-.739	79	0 0	-.210	80	0 0	-.119
81	0 0	-.090	82	0 0	-.081	83	0 0	-.076	84	0 0	-.076
85	0 0	-.079	86	0 0	-.071	87	0 0	-.066	88	0 0	-.067
89	0 0	-.066	90	0 0	-.061	91	0 0	-.057	92	0 0	-.055
93	0 0	-.054	94	0 0	-.052	95	0 0	-.051	96	0 0	-.053
97	0 0	-.072	98	0 0	-.077	99	0 0	-.058	100	0 0	-.061
101	0 0	-.052	102	0 0	-.049	103	0 0	-.044	104	0 0	-.042
105	0 0	-.042	106	0 0	-.042	107	0 0	-.040	108	0 0	-.036
109	0 0	-.035	110	0 0	-.036	111	0 0	-.036	112	0 0	-.036
113	0 0	-.035	114	0 0	-.033	115	0 0	-.054	116	0 0	-.069
117	0 0	-.036	118	0 0	-.032	119	0 0	-.031	120	0 0	-.031
121	0 0	-.029	122	0 0	-.028	123	0 0	-.027	124	0 0	-.025
125	0 0	-.025	126	0 0	-.025	127	0 0	-.026	128	0 0	-.025
129	0 0	-.025	130	0 0	-.026	131	0 0	-.026	132	0 0	-.035
133	0 0	-.035	134	0 0	-.027	135	0 0	-.033	136	0 0	-.053
137	0 0	-.039	138	0 0	-.025	139	0 0	-.022	140	0 0	-.021
141	0 0	-.020	142	0 0	-.062	143	0 0	-.062	144	0 0	-.100
145	0 0	-.034	146	0 0	-.026	147	0 0	-.023	148	0 0	-.022
149	0 0	-.075	150	0 0	-.077	151	0 0	-.042	152	0 0	-.030
153	0 0	-.026	154	0 0	-.027	155	0 0	-.068	156	0 0	-.483
157	0 0	-.839	158	0 0	-.538	159	0 0	-.255	160	0 0	-.182
161	0 0	-.155	162	0 0	-.328	163	0 0	-.420	164	0 0	-.274
165	0 0	-.201	166	0 0	-.173	167	0 0	-.155	168	0 0	-.146
169	0 0	-.146	170	0 0	-.401	171	0 0	-.410	172	0 0	-.264
173	0 0	-.210	174	0 0	-.182	175	0 0	-.164	176	0 0	-.155
177	0 0	-.146	178	0 0	-.146	179	0 0	-.155	180	0 0	-.137
181	0 0	-.128	182	0 0	-.155	183	0 0	-.155	184	0 0	-.137
185	0 0	-.128	186	0 0	-.119	187	0 0	-.119	188	0 0	-.128
189	0 0	-.146	190	0 0	-.128	191	0 0	-.119	192	0 0	-.109
193	0 0	-.109	194	0 0	-.109	195	0 0	-.100	196	0 0	-.100
197	0 0	-.100	198	0 0	-.100	199	0 0	-.091	200	0 0	-.100
201	0 0	-.128	202	0 0	-.119	203	0 0	-.219	204	0 0	-.192
205	0 0	-.173	206	0 0	-.237	207	0 0	-.219	208	0 0	-.365
209	0 0	-.283	210	0 0	-.182	211	0 0	-.164	212	0 0	-.155
213	0 0	-.146	214	0 0	-.137	215	0 0	-.137	216	0 0	-.146
217	0 0	-.164	218	0 0	-.164	219	0 0	-.146	220	0 0	-.128
221	0 0	-.119									
	57	221									
1	0 0	-.041	2	0 0	-.038	3	0 0	-.034	4	0 0	-.033

5	0 0	-.030	6	0 0	-.028	7	0 0	-.027	8	0 0	-.027
9	0 0	-.028	10	0 0	-.027	11	0 0	-.024	12	0 0	-.023
13	0 0	-.028	14	0 0	-.065	15	0 0	-.030	16	0 0	-.024
17	0 0	-.020	18	0 0	-.018	19	0 0	-.016	20	0 0	-.015
21	0 0	-.015	22	0 0	-.019	23	0 0	-.015	24	0 0	-.014
25	0 0	-.013	26	0 0	-.013	27	0 0	-.014	28	0 0	-.014
29	0 0	-.012	30	0 0	-.011	31	0 0	-.011	32	0 0	-.012
33	0 0	-.011	34	0 0	-.011	35	0 0	-.014	36	0 0	-.011
37	0 0	-.011	38	0 0	-.010	39	0 0	-.009	40	0 0	-.009
41	0 0	-.009	42	0 0	-.009	43	0 0	-.008	44	0 0	-.013
45	0 0	-.009	46	0 0	-.009	47	0 0	-.010	48	0 0	-.012
49	0 0	-.029	50	0 0	-.018	51	0 0	-.012	52	0 0	-.011
53	0 0	-.010	54	0 0	-.009	55	0 0	-.008	56	0 0	-.008
57	0 0	-.008	58	0 0	-.008	59	0 0	-.008	60	0 0	-.008
61	0 0	-.009	62	0 0	-.010	63	0 0	-.008	64	0 0	-.008
65	0 0	-.009	66	0 0	-.009	67	0 0	-.010	68	0 0	-.009
69	0 0	-.009	70	0 0	-.009	71	0 0	-.008	72	0 0	-.009
73	0 0	-.010	74	0 0	-.010	75	0 0	-.010	76	0 0	-.147
77	0 0	-.980	78	0 0	-.277	79	0 0	-.079	80	0 0	-.045
81	0 0	-.034	82	0 0	-.030	83	0 0	-.028	84	0 0	-.028
85	0 0	-.030	86	0 0	-.027	87	0 0	-.025	88	0 0	-.025
89	0 0	-.025	90	0 0	-.023	91	0 0	-.021	92	0 0	-.021
93	0 0	-.020	94	0 0	-.020	95	0 0	-.019	96	0 0	-.020
97	0 0	-.027	98	0 0	-.029	99	0 0	-.022	100	0 0	-.023
101	0 0	-.020	102	0 0	-.018	103	0 0	-.016	104	0 0	-.016
105	0 0	-.016	106	0 0	-.016	107	0 0	-.015	108	0 0	-.014
109	0 0	-.013	110	0 0	-.013	111	0 0	-.013	112	0 0	-.013
113	0 0	-.013	114	0 0	-.012	115	0 0	-.020	116	0 0	-.026
117	0 0	-.013	118	0 0	-.012	119	0 0	-.012	120	0 0	-.012
121	0 0	-.011	122	0 0	-.011	123	0 0	-.010	124	0 0	-.009
125	0 0	-.009	126	0 0	-.009	127	0 0	-.010	128	0 0	-.009
129	0 0	-.009	130	0 0	-.010	131	0 0	-.010	132	0 0	-.013
133	0 0	-.013	134	0 0	-.010	135	0 0	-.012	136	0 0	-.020
137	0 0	-.015	138	0 0	-.009	139	0 0	-.008	140	0 0	-.008
141	0 0	-.008	142	0 0	-.023	143	0 0	-.023	144	0 0	-.038
145	0 0	-.013	146	0 0	-.010	147	0 0	-.009	148	0 0	-.008
149	0 0	-.028	150	0 0	-.029	151	0 0	-.016	152	0 0	-.011
153	0 0	-.010	154	0 0	-.010	155	0 0	-.026	156	0 0	-.182
157	0 0	-.315	158	0 0	-.202	159	0 0	-.096	160	0 0	-.069
161	0 0	-.058	162	0 0	-.123	163	0 0	-.158	164	0 0	-.103
165	0 0	-.075	166	0 0	-.065	167	0 0	-.058	168	0 0	-.055
169	0 0	-.055	170	0 0	-.151	171	0 0	-.154	172	0 0	-.099
173	0 0	-.079	174	0 0	-.069	175	0 0	-.062	176	0 0	-.058
177	0 0	-.055	178	0 0	-.055	179	0 0	-.058	180	0 0	-.051
181	0 0	-.048	182	0 0	-.058	183	0 0	-.058	184	0 0	-.051
185	0 0	-.048	186	0 0	-.045	187	0 0	-.045	188	0 0	-.048
189	0 0	-.055	190	0 0	-.048	191	0 0	-.045	192	0 0	-.041
193	0 0	-.041	194	0 0	-.041	195	0 0	-.038	196	0 0	-.038
197	0 0	-.038	198	0 0	-.038	199	0 0	-.034	200	0 0	-.038
201	0 0	-.048	202	0 0	-.045	203	0 0	-.082	204	0 0	-.072
205	0 0	-.065	206	0 0	-.089	207	0 0	-.082	208	0 0	-.137
209	0 0	-.106	210	0 0	-.069	211	0 0	-.062	212	0 0	-.058
213	0 0	-.055	214	0 0	-.051	215	0 0	-.051	216	0 0	-.055
217	0 0	-.062	218	0 0	-.062	219	0 0	-.055	220	0 0	-.048
221	0 0	-.045									
	58	221									
1	0 0	-.007	2	0 0	-.006	3	0 0	-.006	4	0 0	-.005
5	0 0	-.005	6	0 0	-.005	7	0 0	-.004	8	0 0	-.004
9	0 0	-.005	10	0 0	-.004	11	0 0	-.004	12	0 0	-.004
13	0 0	-.005	14	0 0	-.011	15	0 0	-.005	16	0 0	-.004
17	0 0	-.003	18	0 0	-.003	19	0 0	-.003	20	0 0	-.002
21	0 0	-.002	22	0 0	-.003	23	0 0	-.002	24	0 0	-.002
25	0 0	-.002	26	0 0	-.002	27	0 0	-.002	28	0 0	-.002

29	0 0	-.002	30	0 0	-.002	31	0 0	-.002	32	0 0	-.002
33	0 0	-.002	34	0 0	-.002	35	0 0	-.002	36	0 0	-.002
37	0 0	-.002	38	0 0	-.002	39	0 0	-.002	40	0 0	-.001
41	0 0	-.001	42	0 0	-.001	43	0 0	-.001	44	0 0	-.002
45	0 0	-.002	46	0 0	-.001	47	0 0	-.002	48	0 0	-.002
49	0 0	-.005	50	0 0	-.003	51	0 0	-.002	52	0 0	-.002
53	0 0	-.002	54	0 0	-.002	55	0 0	-.001	56	0 0	-.001
57	0 0	-.001	58	0 0	-.001	59	0 0	-.001	60	0 0	-.001
61	0 0	-.002	62	0 0	-.002	63	0 0	-.001	64	0 0	-.001
65	0 0	-.001	66	0 0	-.002	67	0 0	-.002	68	0 0	-.002
69	0 0	-.002	70	0 0	-.001	71	0 0	-.001	72	0 0	-.002
73	0 0	-.002	74	0 0	-.002	75	0 0	-.002	76	0 0	-.024
77	0 0	-.159	78	0 0	-.045	79	0 0	-.013	80	0 0	-.007
81	0 0	-.006	82	0 0	-.005	83	0 0	-.005	84	0 0	-.005
85	0 0	-.005	86	0 0	-.004	87	0 0	-.004	88	0 0	-.004
89	0 0	-.004	90	0 0	-.004	91	0 0	-.003	92	0 0	-.003
93	0 0	-.003	94	0 0	-.003	95	0 0	-.003	96	0 0	-.003
97	0 0	-.004	98	0 0	-.005	99	0 0	-.004	100	0 0	-.004
101	0 0	-.003	102	0 0	-.003	103	0 0	-.003	104	0 0	-.003
105	0 0	-.003	106	0 0	-.003	107	0 0	-.002	108	0 0	-.002
109	0 0	-.002	110	0 0	-.002	111	0 0	-.002	112	0 0	-.002
113	0 0	-.002	114	0 0	-.002	115	0 0	-.003	116	0 0	-.004
117	0 0	-.002	118	0 0	-.002	119	0 0	-.002	120	0 0	-.002
121	0 0	-.002	122	0 0	-.002	123	0 0	-.002	124	0 0	-.002
125	0 0	-.002	126	0 0	-.002	127	0 0	-.002	128	0 0	-.002
129	0 0	-.002	130	0 0	-.002	131	0 0	-.002	132	0 0	-.002
133	0 0	-.002	134	0 0	-.002	135	0 0	-.002	136	0 0	-.003
137	0 0	-.002	138	0 0	-.002	139	0 0	-.001	140	0 0	-.001
141	0 0	-.001	142	0 0	-.004	143	0 0	-.004	144	0 0	-.006
145	0 0	-.002	146	0 0	-.002	147	0 0	-.001	148	0 0	-.001
149	0 0	-.037	150	0 0	-.038	151	0 0	-.035	152	0 0	-.035
153	0 0	-.035	154	0 0	-.035	155	0 0	-.037	156	0 0	-.062
157	0 0	-.084	158	0 0	-.066	159	0 0	-.049	160	0 0	-.044
161	0 0	-.042	162	0 0	-.053	163	0 0	-.059	164	0 0	-.050
165	0 0	-.045	166	0 0	-.043	167	0 0	-.042	168	0 0	-.042
169	0 0	-.042	170	0 0	-.057	171	0 0	-.058	172	0 0	-.049
173	0 0	-.046	174	0 0	-.044	175	0 0	-.043	176	0 0	-.042
177	0 0	-.042	178	0 0	-.042	179	0 0	-.042	180	0 0	-.041
181	0 0	-.041	182	0 0	-.042	183	0 0	-.042	184	0 0	-.041
185	0 0	-.041	186	0 0	-.040	187	0 0	-.040	188	0 0	-.041
189	0 0	-.042	190	0 0	-.041	191	0 0	-.040	192	0 0	-.040
193	0 0	-.040	194	0 0	-.040	195	0 0	-.039	196	0 0	-.039
197	0 0	-.039	198	0 0	-.039	199	0 0	-.038	200	0 0	-.039
201	0 0	-.041	202	0 0	-.040	203	0 0	-.046	204	0 0	-.045
205	0 0	-.043	206	0 0	-.047	207	0 0	-.046	208	0 0	-.055
209	0 0	-.050	210	0 0	-.044	211	0 0	-.043	212	0 0	-.042
213	0 0	-.042	214	0 0	-.041	215	0 0	-.041	216	0 0	-.042
217	0 0	-.043	218	0 0	-.043	219	0 0	-.042	220	0 0	-.041
221	0 0	-.040									
	59		221								
1	0 0	-.143	2	0 0	-.131	3	0 0	-.119	4	0 0	-.114
5	0 0	-.139	6	0 0	-.137	7	0 0	-.137	8	0 0	-.137
9	0 0	-.137	10	0 0	-.136	11	0 0	-.133	12	0 0	-.133
13	0 0	-.137	14	0 0	-.227	15	0 0	-.139	16	0 0	-.133
17	0 0	-.130	18	0 0	-.128	19	0 0	-.126	20	0 0	-.125
21	0 0	-.125	22	0 0	-.129	23	0 0	-.125	24	0 0	-.124
25	0 0	-.124	26	0 0	-.124	27	0 0	-.125	28	0 0	-.125
29	0 0	-.123	30	0 0	-.122	31	0 0	-.122	32	0 0	-.122
33	0 0	-.122	34	0 0	-.122	35	0 0	-.124	36	0 0	-.122
37	0 0	-.122	38	0 0	-.121	39	0 0	-.120	40	0 0	-.120
41	0 0	-.120	42	0 0	-.120	43	0 0	-.119	44	0 0	-.123
45	0 0	-.120	46	0 0	-.120	47	0 0	-.121	48	0 0	-.123
49	0 0	-.138	50	0 0	-.128	51	0 0	-.123	52	0 0	-.122

53	0 0	-.121	54	0 0	-.120	55	0 0	-.119	56	0 0	-.119
57	0 0	-.119	58	0 0	-.119	59	0 0	-.119	60	0 0	-.119
61	0 0	-.120	62	0 0	-.121	63	0 0	-.119	64	0 0	-.119
65	0 0	-.120	66	0 0	-.120	67	0 0	-.121	68	0 0	-.120
69	0 0	-.120	70	0 0	-.120	71	0 0	-.119	72	0 0	-.120
73	0 0	-.121	74	0 0	-.121	75	0 0	-.121	76	0 0	-.514
77	0 0	-3.417	78	0 0	-.968	79	0 0	-.275	80	0 0	-.155
81	0 0	-.118	82	0 0	-.139	83	0 0	-.137	84	0 0	-.137
85	0 0	-.139	86	0 0	-.136	87	0 0	-.134	88	0 0	-.134
89	0 0	-.134	90	0 0	-.133	91	0 0	-.131	92	0 0	-.130
93	0 0	-.130	94	0 0	-.129	95	0 0	-.129	96	0 0	-.130
97	0 0	-.136	98	0 0	-.138	99	0 0	-.132	100	0 0	-.133
101	0 0	-.129	102	0 0	-.129	103	0 0	-.127	104	0 0	-.126
105	0 0	-.126	106	0 0	-.126	107	0 0	-.125	108	0 0	-.124
109	0 0	-.124	110	0 0	-.124	111	0 0	-.124	112	0 0	-.124
113	0 0	-.124	114	0 0	-.123	115	0 0	-.130	116	0 0	-.135
117	0 0	-.124	118	0 0	-.123	119	0 0	-.122	120	0 0	-.122
121	0 0	-.122	122	0 0	-.122	123	0 0	-.121	124	0 0	-.120
125	0 0	-.120	126	0 0	-.120	127	0 0	-.121	128	0 0	-.120
129	0 0	-.120	130	0 0	-.121	131	0 0	-.121	132	0 0	-.124
133	0 0	-.124	134	0 0	-.121	135	0 0	-.123	136	0 0	-.130
137	0 0	-.125	138	0 0	-.120	139	0 0	-.119	140	0 0	-.119
141	0 0	-.119	142	0 0	-.133	143	0 0	-.133	144	0 0	-.131
145	0 0	-.123	146	0 0	-.121	147	0 0	-.120	148	0 0	-.119
149	0 0	-.137	150	0 0	-.138	151	0 0	-.126	152	0 0	-.122
153	0 0	-.121	154	0 0	-.121	155	0 0	-.135	156	0 0	-.633
157	0 0	-1.099	158	0 0	-.705	159	0 0	-.335	160	0 0	-.239
161	0 0	-.203	162	0 0	-.430	163	0 0	-.550	164	0 0	-.358
165	0 0	-.263	166	0 0	-.227	167	0 0	-.203	168	0 0	-.191
169	0 0	-.191	170	0 0	-.526	171	0 0	-.538	172	0 0	-.346
173	0 0	-.275	174	0 0	-.239	175	0 0	-.215	176	0 0	-.203
177	0 0	-.191	178	0 0	-.191	179	0 0	-.203	180	0 0	-.179
181	0 0	-.167	182	0 0	-.203	183	0 0	-.203	184	0 0	-.179
185	0 0	-.167	186	0 0	-.155	187	0 0	-.155	188	0 0	-.167
189	0 0	-.191	190	0 0	-.167	191	0 0	-.155	192	0 0	-.143
193	0 0	-.143	194	0 0	-.143	195	0 0	-.131	196	0 0	-.131
197	0 0	-.131	198	0 0	-.131	199	0 0	-.119	200	0 0	-.131
201	0 0	-.167	202	0 0	-.155	203	0 0	-.287	204	0 0	-.251
205	0 0	-.227	206	0 0	-.311	207	0 0	-.287	208	0 0	-.478
209	0 0	-.370	210	0 0	-.239	211	0 0	-.215	212	0 0	-.203
213	0 0	-.191	214	0 0	-.179	215	0 0	-.179	216	0 0	-.191
217	0 0	-.215	218	0 0	-.215	219	0 0	-.191	220	0 0	-.167
221	0 0	-.155									
	60	221									
1	0 0	-.112	2	0 0	-.112	3	0 0	-.112	4	0 0	-.112
5	0 0	-.112	6	0 0	-.112	7	0 0	-.112	8	0 0	-.112
9	0 0	-.112	10	0 0	-.112	11	0 0	-.112	12	0 0	-.112
13	0 0	-.112	14	0 0	-.096	15	0 0	-.112	16	0 0	-.112
17	0 0	-.112	18	0 0	-.112	19	0 0	-.112	20	0 0	-.112
21	0 0	-.112	22	0 0	-.112	23	0 0	-.112	24	0 0	-.112
25	0 0	-.112	26	0 0	-.112	27	0 0	-.112	28	0 0	-.112
29	0 0	-.112	30	0 0	-.112	31	0 0	-.112	32	0 0	-.112
33	0 0	-.112	34	0 0	-.112	35	0 0	-.112	36	0 0	-.112
37	0 0	-.112	38	0 0	-.112	39	0 0	-.112	40	0 0	-.112
41	0 0	-.112	42	0 0	-.112	43	0 0	-.112	44	0 0	-.112
45	0 0	-.112	46	0 0	-.112	47	0 0	-.112	48	0 0	-.112
49	0 0	-.112	50	0 0	-.112	51	0 0	-.112	52	0 0	-.112
53	0 0	-.112	54	0 0	-.112	55	0 0	-.112	56	0 0	-.112
57	0 0	-.112	58	0 0	-.112	59	0 0	-.112	60	0 0	-.112
61	0 0	-.112	62	0 0	-.112	63	0 0	-.112	64	0 0	-.112
65	0 0	-.112	66	0 0	-.112	67	0 0	-.112	68	0 0	-.112
69	0 0	-.112	70	0 0	-.112	71	0 0	-.112	72	0 0	-.112
73	0 0	-.112	74	0 0	-.112	75	0 0	-.112	76	0 0	-.217

77	0 0	-1.447	78	0 0	-.410	79	0 0	-.116	80	0 0	-.112
81	0 0	-.112	82	0 0	-.112	83	0 0	-.112	84	0 0	-.112
85	0 0	-.112	86	0 0	-.112	87	0 0	-.112	88	0 0	-.112
89	0 0	-.112	90	0 0	-.112	91	0 0	-.112	92	0 0	-.112
93	0 0	-.112	94	0 0	-.112	95	0 0	-.112	96	0 0	-.112
97	0 0	-.112	98	0 0	-.112	99	0 0	-.112	100	0 0	-.112
101	0 0	-.112	102	0 0	-.112	103	0 0	-.112	104	0 0	-.112
105	0 0	-.112	106	0 0	-.112	107	0 0	-.112	108	0 0	-.112
109	0 0	-.112	110	0 0	-.112	111	0 0	-.112	112	0 0	-.112
113	0 0	-.112	114	0 0	-.112	115	0 0	-.112	116	0 0	-.112
117	0 0	-.112	118	0 0	-.112	119	0 0	-.112	120	0 0	-.112
121	0 0	-.112	122	0 0	-.112	123	0 0	-.112	124	0 0	-.112
125	0 0	-.112	126	0 0	-.112	127	0 0	-.112	128	0 0	-.112
129	0 0	-.112	130	0 0	-.112	131	0 0	-.112	132	0 0	-.112
133	0 0	-.112	134	0 0	-.112	135	0 0	-.112	136	0 0	-.112
137	0 0	-.112	138	0 0	-.112	139	0 0	-.112	140	0 0	-.112
141	0 0	-.112	142	0 0	-.112	143	0 0	-.112	144	0 0	-.112
145	0 0	-.112	146	0 0	-.112	147	0 0	-.112	148	0 0	-.112
149	0 0	-.112	150	0 0	-.112	151	0 0	-.112	152	0 0	-.112
153	0 0	-.112	154	0 0	-.112	155	0 0	-.112	156	0 0	-.268
157	0 0	-.465	158	0 0	-.298	159	0 0	-.142	160	0 0	-.101
161	0 0	-.086	162	0 0	-.182	163	0 0	-.233	164	0 0	-.152
165	0 0	-.111	166	0 0	-.096	167	0 0	-.086	168	0 0	-.112
169	0 0	-.112	170	0 0	-.223	171	0 0	-.228	172	0 0	-.147
173	0 0	-.116	174	0 0	-.101	175	0 0	-.091	176	0 0	-.086
177	0 0	-.112	178	0 0	-.112	179	0 0	-.086	180	0 0	-.112
181	0 0	-.112	182	0 0	-.086	183	0 0	-.086	184	0 0	-.112
185	0 0	-.112	186	0 0	-.112	187	0 0	-.112	188	0 0	-.112
189	0 0	-.112	190	0 0	-.112	191	0 0	-.112	192	0 0	-.112
193	0 0	-.112	194	0 0	-.112	195	0 0	-.112	196	0 0	-.112
197	0 0	-.112	198	0 0	-.112	199	0 0	-.112	200	0 0	-.112
201	0 0	-.112	202	0 0	-.112	203	0 0	-.121	204	0 0	-.106
205	0 0	-.096	206	0 0	-.132	207	0 0	-.121	208	0 0	-.202
209	0 0	-.157	210	0 0	-.101	211	0 0	-.091	212	0 0	-.086
213	0 0	-.112	214	0 0	-.112	215	0 0	-.112	216	0 0	-.112
217	0 0	-.091	218	0 0	-.091	219	0 0	-.112	220	0 0	-.112
221	0 0	-.112									
	61		221								
1	0 0	-.005	2	0 0	-.005	3	0 0	-.004	4	0 0	-.004
5	0 0	-.004	6	0 0	-.004	7	0 0	-.004	8	0 0	-.004
9	0 0	-.004	10	0 0	-.003	11	0 0	-.003	12	0 0	-.003
13	0 0	-.004	14	0 0	-.008	15	0 0	-.004	16	0 0	-.003
17	0 0	-.003	18	0 0	-.002	19	0 0	-.002	20	0 0	-.002
21	0 0	-.002	22	0 0	-.002	23	0 0	-.002	24	0 0	-.002
25	0 0	-.002	26	0 0	-.002	27	0 0	-.002	28	0 0	-.002
29	0 0	-.002	30	0 0	-.001	31	0 0	-.001	32	0 0	-.001
33	0 0	-.001	34	0 0	-.001	35	0 0	-.002	36	0 0	-.001
37	0 0	-.001	38	0 0	-.001	39	0 0	-.001	40	0 0	-.001
41	0 0	-.001	42	0 0	-.001	43	0 0	-.001	44	0 0	-.002
45	0 0	-.001	46	0 0	-.001	47	0 0	-.001	48	0 0	-.002
49	0 0	-.004	50	0 0	-.002	51	0 0	-.002	52	0 0	-.001
53	0 0	-.001	54	0 0	-.001	55	0 0	-.001	56	0 0	-.001
57	0 0	-.001	58	0 0	-.001	59	0 0	-.001	60	0 0	-.001
61	0 0	-.001	62	0 0	-.001	63	0 0	-.001	64	0 0	-.001
65	0 0	-.001	66	0 0	-.001	67	0 0	-.001	68	0 0	-.001
69	0 0	-.001	70	0 0	-.001	71	0 0	-.001	72	0 0	-.001
73	0 0	-.001	74	0 0	-.001	75	0 0	-.001	76	0 0	-.019
77	0 0	-.125	78	0 0	-.035	79	0 0	-.010	80	0 0	-.006
81	0 0	-.004	82	0 0	-.004	83	0 0	-.004	84	0 0	-.004
85	0 0	-.004	86	0 0	-.003	87	0 0	-.003	88	0 0	-.003
89	0 0	-.003	90	0 0	-.003	91	0 0	-.003	92	0 0	-.003
93	0 0	-.003	94	0 0	-.002	95	0 0	-.002	96	0 0	-.003
97	0 0	-.003	98	0 0	-.004	99	0 0	-.003	100	0 0	-.003

101	0 0	-.002	102	0 0	-.002	103	0 0	-.002	104	0 0	-.002
105	0 0	-.002	106	0 0	-.002	107	0 0	-.002	108	0 0	-.002
109	0 0	-.002	110	0 0	-.002	111	0 0	-.002	112	0 0	-.002
113	0 0	-.002	114	0 0	-.002	115	0 0	-.003	116	0 0	-.003
117	0 0	-.002	118	0 0	-.002	119	0 0	-.001	120	0 0	-.001
121	0 0	-.001	122	0 0	-.001	123	0 0	-.001	124	0 0	-.001
125	0 0	-.001	126	0 0	-.001	127	0 0	-.001	128	0 0	-.001
129	0 0	-.001	130	0 0	-.001	131	0 0	-.001	132	0 0	-.002
133	0 0	-.002	134	0 0	-.001	135	0 0	-.002	136	0 0	-.003
137	0 0	-.002	138	0 0	-.001	139	0 0	-.001	140	0 0	-.001
141	0 0	-.001	142	0 0	-.003	143	0 0	-.003	144	0 0	-.005
145	0 0	-.002	146	0 0	-.001	147	0 0	-.001	148	0 0	-.001
149	0 0	-.004	150	0 0	-.004	151	0 0	-.002	152	0 0	-.001
153	0 0	-.001	154	0 0	-.001	155	0 0	-.003	156	0 0	-.023
157	0 0	-.040	158	0 0	-.026	159	0 0	-.012	160	0 0	-.009
161	0 0	-.007	162	0 0	-.016	163	0 0	-.020	164	0 0	-.013
165	0 0	-.010	166	0 0	-.008	167	0 0	-.007	168	0 0	-.007
169	0 0	-.007	170	0 0	-.019	171	0 0	-.020	172	0 0	-.013
173	0 0	-.010	174	0 0	-.009	175	0 0	-.008	176	0 0	-.007
177	0 0	-.007	178	0 0	-.007	179	0 0	-.007	180	0 0	-.007
181	0 0	-.006	182	0 0	-.007	183	0 0	-.007	184	0 0	-.007
185	0 0	-.006	186	0 0	-.006	187	0 0	-.006	188	0 0	-.006
189	0 0	-.007	190	0 0	-.006	191	0 0	-.006	192	0 0	-.005
193	0 0	-.005	194	0 0	-.005	195	0 0	-.005	196	0 0	-.005
197	0 0	-.005	198	0 0	-.005	199	0 0	-.004	200	0 0	-.005
201	0 0	-.006	202	0 0	-.006	203	0 0	-.011	204	0 0	-.009
205	0 0	-.008	206	0 0	-.011	207	0 0	-.011	208	0 0	-.018
209	0 0	-.014	210	0 0	-.009	211	0 0	-.008	212	0 0	-.007
213	0 0	-.007	214	0 0	-.007	215	0 0	-.007	216	0 0	-.007
217	0 0	-.008	218	0 0	-.008	219	0 0	-.007	220	0 0	-.006
221	0 0	-.006									
	62		221								
1	0 0	-.006	2	0 0	-.006	3	0 0	-.005	4	0 0	-.005
5	0 0	-.005	6	0 0	-.004	7	0 0	-.004	8	0 0	-.004
9	0 0	-.004	10	0 0	-.004	11	0 0	-.004	12	0 0	-.004
13	0 0	-.004	14	0 0	-.010	15	0 0	-.005	16	0 0	-.004
17	0 0	-.003	18	0 0	-.003	19	0 0	-.002	20	0 0	-.002
21	0 0	-.002	22	0 0	-.003	23	0 0	-.002	24	0 0	-.002
25	0 0	-.002	26	0 0	-.002	27	0 0	-.002	28	0 0	-.002
29	0 0	-.002	30	0 0	-.002	31	0 0	-.002	32	0 0	-.002
33	0 0	-.002	34	0 0	-.002	35	0 0	-.002	36	0 0	-.002
37	0 0	-.002	38	0 0	-.002	39	0 0	-.001	40	0 0	-.001
41	0 0	-.001	42	0 0	-.001	43	0 0	-.001	44	0 0	-.002
45	0 0	-.001	46	0 0	-.001	47	0 0	-.002	48	0 0	-.002
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53	0 0	-.002	54	0 0	-.001	55	0 0	-.001	56	0 0	-.001
57	0 0	-.001	58	0 0	-.001	59	0 0	-.001	60	0 0	-.001
61	0 0	-.001	62	0 0	-.002	63	0 0	-.001	64	0 0	-.001
65	0 0	-.001	66	0 0	-.001	67	0 0	-.002	68	0 0	-.001
69	0 0	-.001	70	0 0	-.001	71	0 0	-.001	72	0 0	-.001
73	0 0	-.002	74	0 0	-.002	75	0 0	-.002	76	0 0	-.023
77	0 0	-.154	78	0 0	-.044	79	0 0	-.012	80	0 0	-.007
81	0 0	-.005	82	0 0	-.005	83	0 0	-.004	84	0 0	-.004
85	0 0	-.005	86	0 0	-.004	87	0 0	-.004	88	0 0	-.004
89	0 0	-.004	90	0 0	-.004	91	0 0	-.003	92	0 0	-.003
93	0 0	-.003	94	0 0	-.003	95	0 0	-.003	96	0 0	-.003
97	0 0	-.004	98	0 0	-.005	99	0 0	-.003	100	0 0	-.004
101	0 0	-.003	102	0 0	-.003	103	0 0	-.003	104	0 0	-.002
105	0 0	-.002	106	0 0	-.002	107	0 0	-.002	108	0 0	-.002
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117	0 0	-.002	118	0 0	-.002	119	0 0	-.002	120	0 0	-.002
121	0 0	-.002	122	0 0	-.002	123	0 0	-.002	124	0 0	-.001

125	0 0	-.001	126	0 0	-.001	127	0 0	-.002	128	0 0	-.001
129	0 0	-.001	130	0 0	-.002	131	0 0	-.002	132	0 0	-.002
133	0 0	-.002	134	0 0	-.002	135	0 0	-.002	136	0 0	-.003
137	0 0	-.002	138	0 0	-.001	139	0 0	-.001	140	0 0	-.001
141	0 0	-.001	142	0 0	-.004	143	0 0	-.004	144	0 0	-.006
145	0 0	-.002	146	0 0	-.002	147	0 0	-.001	148	0 0	-.001
149	0 0	-.004	150	0 0	-.005	151	0 0	-.002	152	0 0	-.002
153	0 0	-.002	154	0 0	-.002	155	0 0	-.004	156	0 0	-.028
157	0 0	-.049	158	0 0	-.032	159	0 0	-.015	160	0 0	-.011
161	0 0	-.009	162	0 0	-.019	163	0 0	-.025	164	0 0	-.016
165	0 0	-.012	166	0 0	-.010	167	0 0	-.009	168	0 0	-.009
169	0 0	-.009	170	0 0	-.024	171	0 0	-.024	172	0 0	-.016
173	0 0	-.012	174	0 0	-.011	175	0 0	-.010	176	0 0	-.009
177	0 0	-.009	178	0 0	-.009	179	0 0	-.009	180	0 0	-.008
181	0 0	-.008	182	0 0	-.009	183	0 0	-.009	184	0 0	-.008
185	0 0	-.008	186	0 0	-.007	187	0 0	-.007	188	0 0	-.008
189	0 0	-.009	190	0 0	-.008	191	0 0	-.007	192	0 0	-.006
193	0 0	-.006	194	0 0	-.006	195	0 0	-.006	196	0 0	-.006
197	0 0	-.006	198	0 0	-.006	199	0 0	-.005	200	0 0	-.006
201	0 0	-.008	202	0 0	-.007	203	0 0	-.013	204	0 0	-.011
205	0 0	-.010	206	0 0	-.014	207	0 0	-.013	208	0 0	-.022
209	0 0	-.017	210	0 0	-.011	211	0 0	-.010	212	0 0	-.009
213	0 0	-.009	214	0 0	-.008	215	0 0	-.008	216	0 0	-.009
217	0 0	-.010	218	0 0	-.010	219	0 0	-.009	220	0 0	-.008
221	0 0	-.007									
	63		221								
1	0 0	-.033	2	0 0	-.030	3	0 0	-.027	4	0 0	-.026
5	0 0	-.024	6	0 0	-.023	7	0 0	-.022	8	0 0	-.022
9	0 0	-.022	10	0 0	-.021	11	0 0	-.019	12	0 0	-.018
13	0 0	-.022	14	0 0	-.052	15	0 0	-.024	16	0 0	-.019
17	0 0	-.016	18	0 0	-.014	19	0 0	-.013	20	0 0	-.012
21	0 0	-.012	22	0 0	-.015	23	0 0	-.012	24	0 0	-.011
25	0 0	-.011	26	0 0	-.011	27	0 0	-.011	28	0 0	-.011
29	0 0	-.010	30	0 0	-.009	31	0 0	-.009	32	0 0	-.009
33	0 0	-.009	34	0 0	-.009	35	0 0	-.011	36	0 0	-.009
37	0 0	-.008	38	0 0	-.008	39	0 0	-.007	40	0 0	-.007
41	0 0	-.007	42	0 0	-.007	43	0 0	-.007	44	0 0	-.010
45	0 0	-.007	46	0 0	-.007	47	0 0	-.008	48	0 0	-.010
49	0 0	-.023	50	0 0	-.014	51	0 0	-.010	52	0 0	-.009
53	0 0	-.008	54	0 0	-.007	55	0 0	-.007	56	0 0	-.007
57	0 0	-.006	58	0 0	-.006	59	0 0	-.007	60	0 0	-.007
61	0 0	-.007	62	0 0	-.008	63	0 0	-.007	64	0 0	-.007
65	0 0	-.007	66	0 0	-.007	67	0 0	-.008	68	0 0	-.007
69	0 0	-.007	70	0 0	-.007	71	0 0	-.007	72	0 0	-.007
73	0 0	-.008	74	0 0	-.008	75	0 0	-.008	76	0 0	-.117
77	0 0	-.780	78	0 0	-.221	79	0 0	-.063	80	0 0	-.035
81	0 0	-.027	82	0 0	-.024	83	0 0	-.023	84	0 0	-.023
85	0 0	-.024	86	0 0	-.021	87	0 0	-.020	88	0 0	-.020
89	0 0	-.020	90	0 0	-.018	91	0 0	-.017	92	0 0	-.016
93	0 0	-.016	94	0 0	-.016	95	0 0	-.015	96	0 0	-.016
97	0 0	-.022	98	0 0	-.023	99	0 0	-.017	100	0 0	-.018
101	0 0	-.016	102	0 0	-.015	103	0 0	-.013	104	0 0	-.013
105	0 0	-.013	106	0 0	-.013	107	0 0	-.012	108	0 0	-.011
109	0 0	-.010	110	0 0	-.011	111	0 0	-.011	112	0 0	-.011
113	0 0	-.010	114	0 0	-.010	115	0 0	-.016	116	0 0	-.021
117	0 0	-.011	118	0 0	-.010	119	0 0	-.009	120	0 0	-.009
121	0 0	-.009	122	0 0	-.008	123	0 0	-.008	124	0 0	-.007
125	0 0	-.007	126	0 0	-.007	127	0 0	-.008	128	0 0	-.007
129	0 0	-.007	130	0 0	-.008	131	0 0	-.008	132	0 0	-.010
133	0 0	-.010	134	0 0	-.008	135	0 0	-.010	136	0 0	-.016
137	0 0	-.012	138	0 0	-.007	139	0 0	-.007	140	0 0	-.006
141	0 0	-.006	142	0 0	-.019	143	0 0	-.019	144	0 0	-.030
145	0 0	-.010	146	0 0	-.008	147	0 0	-.007	148	0 0	-.007

149	0 0	-.022	150	0 0	-.023	151	0 0	-.013	152	0 0	-.009
153	0 0	-.008	154	0 0	-.008	155	0 0	-.020	156	0 0	-.145
157	0 0	-.251	158	0 0	-.161	159	0 0	-.076	160	0 0	-.055
161	0 0	-.046	162	0 0	-.098	163	0 0	-.125	164	0 0	-.082
165	0 0	-.060	166	0 0	-.052	167	0 0	-.046	168	0 0	-.044
169	0 0	-.044	170	0 0	-.120	171	0 0	-.123	172	0 0	-.079
173	0 0	-.063	174	0 0	-.055	175	0 0	-.049	176	0 0	-.046
177	0 0	-.044	178	0 0	-.044	179	0 0	-.046	180	0 0	-.041
181	0 0	-.038	182	0 0	-.046	183	0 0	-.046	184	0 0	-.041
185	0 0	-.038	186	0 0	-.035	187	0 0	-.035	188	0 0	-.038
189	0 0	-.044	190	0 0	-.038	191	0 0	-.035	192	0 0	-.033
193	0 0	-.033	194	0 0	-.033	195	0 0	-.030	196	0 0	-.030
197	0 0	-.030	198	0 0	-.030	199	0 0	-.027	200	0 0	-.030
201	0 0	-.038	202	0 0	-.035	203	0 0	-.065	204	0 0	-.057
205	0 0	-.052	206	0 0	-.071	207	0 0	-.065	208	0 0	-.109
209	0 0	-.085	210	0 0	-.055	211	0 0	-.049	212	0 0	-.046
213	0 0	-.044	214	0 0	-.041	215	0 0	-.041	216	0 0	-.044
217	0 0	-.049	218	0 0	-.049	219	0 0	-.044	220	0 0	-.038
221	0 0	-.035									
	64		221								
1	0 0	-.015	2	0 0	-.013	3	0 0	-.012	4	0 0	-.012
5	0 0	-.011	6	0 0	-.010	7	0 0	-.010	8	0 0	-.010
9	0 0	-.010	10	0 0	-.009	11	0 0	-.008	12	0 0	-.008
13	0 0	-.010	14	0 0	-.023	15	0 0	-.011	16	0 0	-.009
17	0 0	-.007	18	0 0	-.006	19	0 0	-.006	20	0 0	-.005
21	0 0	-.005	22	0 0	-.007	23	0 0	-.005	24	0 0	-.005
25	0 0	-.005	26	0 0	-.005	27	0 0	-.005	28	0 0	-.005
29	0 0	-.004	30	0 0	-.004	31	0 0	-.004	32	0 0	-.004
33	0 0	-.004	34	0 0	-.004	35	0 0	-.005	36	0 0	-.004
37	0 0	-.004	38	0 0	-.004	39	0 0	-.003	40	0 0	-.003
41	0 0	-.003	42	0 0	-.003	43	0 0	-.003	44	0 0	-.004
45	0 0	-.003	46	0 0	-.003	47	0 0	-.003	48	0 0	-.004
49	0 0	-.010	50	0 0	-.006	51	0 0	-.004	52	0 0	-.004
53	0 0	-.004	54	0 0	-.003	55	0 0	-.003	56	0 0	-.003
57	0 0	-.003	58	0 0	-.003	59	0 0	-.003	60	0 0	-.003
61	0 0	-.003	62	0 0	-.004	63	0 0	-.003	64	0 0	-.003
65	0 0	-.003	66	0 0	-.003	67	0 0	-.003	68	0 0	-.003
69	0 0	-.003	70	0 0	-.003	71	0 0	-.003	72	0 0	-.003
73	0 0	-.004	74	0 0	-.003	75	0 0	-.003	76	0 0	-.052
77	0 0	-.347	78	0 0	-.098	79	0 0	-.028	80	0 0	-.016
81	0 0	-.012	82	0 0	-.011	83	0 0	-.010	84	0 0	-.010
85	0 0	-.011	86	0 0	-.009	87	0 0	-.009	88	0 0	-.009
89	0 0	-.009	90	0 0	-.008	91	0 0	-.008	92	0 0	-.007
93	0 0	-.007	94	0 0	-.007	95	0 0	-.007	96	0 0	-.007
97	0 0	-.010	98	0 0	-.010	99	0 0	-.008	100	0 0	-.008
101	0 0	-.007	102	0 0	-.007	103	0 0	-.006	104	0 0	-.006
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117	0 0	-.005	118	0 0	-.004	119	0 0	-.004	120	0 0	-.004
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161	0 0	-.021	162	0 0	-.044	163	0 0	-.056	164	0 0	-.036
165	0 0	-.027	166	0 0	-.023	167	0 0	-.021	168	0 0	-.019
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193	0 0	-.015	194	0 0	-.015	195	0 0	-.013	196	0 0	-.013
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25	0 0	-.010	26	0 0	-.010	27	0 0	-.010	28	0 0	-.010
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93	0 0	-.014	94	0 0	-.013	95	0 0	-.013	96	0 0	-.014
97	0 0	-.018	98	0 0	-.019	99	0 0	-.015	100	0 0	-.015
101	0 0	-.013	102	0 0	-.013	103	0 0	-.012	104	0 0	-.011
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109	0 0	-.010	110	0 0	-.010	111	0 0	-.010	112	0 0	-.010
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117	0 0	-.010	118	0 0	-.009	119	0 0	-.009	120	0 0	-.009
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125	0 0	-.007	126	0 0	-.007	127	0 0	-.008	128	0 0	-.007
129	0 0	-.007	130	0 0	-.008	131	0 0	-.008	132	0 0	-.010
133	0 0	-.010	134	0 0	-.008	135	0 0	-.009	136	0 0	-.014
137	0 0	-.011	138	0 0	-.007	139	0 0	-.007	140	0 0	-.007
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145	0 0	-.009	146	0 0	-.008	147	0 0	-.007	148	0 0	-.007
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153	0 0	-.008	154	0 0	-.008	155	0 0	-.017	156	0 0	-.108
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221	0 0	-.028									
	66	221									
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65	0 0	-.112	66	0 0	-.112	67	0 0	-.112	68	0 0	-.112
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97	0 0	-.112	98	0 0	-.112	99	0 0	-.112	100	0 0	-.112
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221 0 0 -.112

SEAWARD BOUNDARY DATA

1									
3	1	854	50	5.	0.	0.	1.		
1	0415	4.41	1	1030	5.97	1	1615	4.51	1 2230 6.21
2	0515	4.59	2	1115	6.01	2	1730	4.7	2 2315 6.15
3	0600	4.41	3	1145	5.85	3	1745	4.53	3 2330 6.05
4	0630	4.38	4	1215	5.74	4	1830	4.47	5 0015 5.94
5	0700	4.34	5	1300	5.67	5	1915	4.43	6 0115 5.79
6	0800	4.3	6	1400	5.61	6	2000	4.43	7 0200 5.8
7	0845	4.44	7	1445	5.75	7	2100	4.58	8 0245 5.76
8	0930	4.45	8	1545	5.77	8	2145	4.62	9 0345 5.79
9	1000	4.54	9	1630	5.82	9	2245	4.63	10 0445 5.76
10	1045	4.63	10	1700	5.92	10	2330	4.6	11 0545 5.75
11	1145	4.48	11	1800	5.99	12	0030	4.56	12 0630 5.81
12	1230	4.53	12	1845	6.06	13	0130	4.51	13 0700 5.8
13	1315	4.36	13	1945	6.13	14	0230	4.37	14 0745 5.77
14	1415	4.23	14	2030	6.12	15	0315	4.25	15 0845 5.78
15	1500	4.22	15	2100	6.17	16	0400	4.23	16 0930 5.82
16	1545	4.18	16	2200	6.14	17	0500	4.13	17 1030 5.76
17	1630	4.09	17	2245	6.12	18	0545	4.13	18 1115 5.79
18	1730	4.12	18	2330	6.11	19	0630	4.17	19 1215 5.88
19	1815	4.25	20	0030	6.09	20	0715	4.16	20 1300 5.89
20	1915	4.26	21	0130	6.05	21	0800	4.21	21 1400 5.94
21	2100	4.32	22	0215	6.1	22	0900	4.3	22 1500 5.96
22	2130	4.41	23	0315	5.95	23	1000	4.28	23 1600 5.99
23	2245	4.43	24	0430	5.88	24	1045	4.3	24 1700 6.01
24	2345	4.35	25	0530	5.76	25	1145	4.23	25 1800 6.02
26	0045	4.28	26	0630	5.76	26	1245	4.27	26 1900 6.11
27	0145	4.36	27	0715	5.87	27	1330	4.32	27 1945 6.15
28	0230	4.4	28	0815	5.83	28	1430	4.31	28 2045 6.1
29	0330	4.27	29	0900	5.72	29	1515	4.18	29 2115 6.08
30	0400	4.24	30	1000	5.75	30	1600	4.23	30 2200 6.01
31	0445	4.26	31	1045	5.7	31	1630	4.27	31 2245 5.99
32	0530	4.28	32	1115	5.69	32	1715	4.29	32 2330 5.94
33	0615	4.26	33	1200	5.65	33	1745	4.36	33 2400 5.85
34	0630	4.3	34	1230	5.64	34	1830	4.44	35 0015 5.71
35	0730	4.41	35	1315	5.67	35	1915	4.49	36 0115 5.78
36	0745	4.35	36	1400	5.65	36	2000	4.45	37 0200 5.64
37	0830	4.27	37	1445	5.66	37	2115	4.48	38 0300 5.58
38	0915	4.34	38	1545	5.77	38	2215	4.51	39 0345 5.59
39	1015	4.32	39	1630	5.83	39	2300	4.46	40 0445 5.58
40	1115	4.35	40	1715	5.89	40	2400	4.38	41 0600 5.65
41	1145	4.35	41	1815	5.96	42	0100	4.31	42 0645 5.63
42	1245	4.24	42	1900	6.07	43	0145	4.22	43 0745 5.64
43	1345	4.11	43	2000	6.11	44	0245	4.09	44 0815 5.77
44	1445	4.09	44	2100	6.15	45	0345	4.3	45 0915 5.94
45	1545	4.14	45	2145	6.14	46	0430	4.12	46 1015 5.83
46	1630	4.11	46	2230	6.15	47	0530	4.15	47 1115 5.95
47	1715	4.26	47	2330	6.17	48	0615	4.24	48 1200 6.05
48	1815	4.47	49	0015	6.22	49	0645	4.46	49 1245 6.1
49	1915	4.61	50	0100	6.18	50	0745	4.45	50 1345 6.12
50	2015	4.49	51	0200	5.9	51	0845	4.17	51 1445 5.89
51	2115	4.4	52	0315	5.84	52	0930	4.34	52 1545 5.97
52	2230	4.41	53	0400	5.78	53	1030	4.33	53 1645 5.99
53	2330	4.41	54	0500	5.65	54	1130	4.3	54 1745 5.96
55	0045	4.45	55	0615	5.69	55	1215	4.37	55 1845 5.96
56	0115	4.36	56	0700	5.61	56	1315	4.29	56 1915 5.96
57	0200	4.25	57	0800	5.56	57	1400	4.22	57 2015 5.94
58	0300	4.24	58	0845	5.59	58	1445	4.2	58 2100 5.92
59	0345	4.22	59	0930	5.67	59	1530	4.3	59 2130 5.99
60	0415	4.38	60	1000	5.83	60	1600	4.44	60 2200 6.1
61	0445	4.51	61	1045	5.92	61	1645	4.54	61 2245 6.07

62 0515	4.55	62 1115	5.87	62 1730	4.48	62 2330	5.9
63 0600	4.4	63 1200	5.78	63 1800	4.44	63 2400	5.82
64 0645	4.33	64 1230	5.7	64 1830	4.43	65 0045	5.72
65 0715	4.31	65 1330	5.7	65 1945	4.49	66 0130	5.6
66 0800	4.37	66 1415	5.72	66 2030	4.43	67 0215	5.47
67 0830	4.28	67 1500	5.74	67 2115	4.48	68 0300	5.57
68 0915	4.38	68 1600	5.85	68 2215	4.59	69 0415	5.66
69 1015	4.51	69 1645	5.92	69 2315	4.46	70 0515	5.65
70 1115	4.4	70 1745	6.05	71 0030	4.43	71 0615	5.73
71 1230	4.3	71 1845	6.12	72 0130	4.33	72 0700	5.7
72 1315	4.14	72 1945	6.06	73 0215	4.13	73 0815	5.76
73 1415	4.04	73 2030	6.1	74 0315	4.07	74 0900	5.87
74 1515	4.18	74 2130	6.25	75 0415	4.19	75 0945	5.99
75 1615	4.13	75 2215	6.15	76 0445	4.2	76 1045	6.04
76 1645	4.44	76 2245	6.31	77 0600	4.32	77 1145	6.06
77 1800	4.43	77 2345	6.21	78 0630	4.35	78 1215	6.1
78 1900	4.3	79 0030	5.92	79 0730	4.2	79 1315	5.93
79 2015	4.24	80 0145	5.74	80 0800	4.19	80 1415	5.9
80 2100	4.29	81 0245	5.67	81 0900	4.26	81 1515	5.89
81 2145	4.42	82 0345	5.68	82 1000	4.39	82 1615	5.93
82 2245	4.48	83 0500	5.64	83 1045	4.41	83 1730	5.95
83 2400	4.48	84 0600	5.7	84 1200	4.45	84 1815	5.98
85 0100	4.52	85 0645	5.76	85 1245	4.43	85 1915	6.03
86 0145	4.47	86 0730	5.77	86 1345	4.45	86 2000	6.03
87 0230	4.44	87 0815	5.75	87 1430	4.39	87 2030	5.99
88 0315	4.37	88 0900	5.77	88 1515	4.35	88 2115	5.9
89 0345	4.33	89 0930	5.75	89 1545	4.33	89 2145	5.87
90 0415	4.26	90 0945	5.72	90 1600	4.22	90 2215	5.83
91 0430	4.37	91 1030	5.89	91 1700	4.42	91 2245	5.79
92 0515	4.44	92 1115	5.8	92 1730	4.34	92 2330	5.73
93 0600	4.29	93 1200	5.69	93 1815	4.31	94 0015	5.65
94 0630	4.32	94 1245	5.77	94 1845	4.48	95 0045	5.65
95 0715	4.47	95 1330	5.88	95 2000	4.66	96 0145	5.76
96 0800	4.67	96 1400	6.02	96 2030	4.86	97 0215	5.79
97 0915	4.81	97 1515	5.99	97 2200	4.69	98 0330	5.73
98 1000	4.61	98 1630	5.94	98 2300	4.48	99 0500	5.63
99 1100	4.43	99 1715	5.96	100 0015	4.32	100 0600	5.69
100 1200	4.27	100 1830	5.99	101 0100	4.24	101 0645	5.77
101 1315	4.17	101 1915	6.07	102 0200	4.2	102 0745	5.88
102 1415	4.15	102 2015	6.12	103 0300	4.12	103 0845	5.95
103 1515	4.07	103 2100	6.11	104 0345	4.12	104 0945	6.08
104 1600	4.22	104 2145	6.16	105 0430	4.2	105 1015	6.11
105 1700	4.16	105 2245	6.05	106 0515	4.17	106 1100	6.11
106 1745	4.24	106 2330	5.96	107 0600	4.18	107 1200	6.03
107 1845	4.19	107 2400	5.62	108 0645	4.27	108 1245	5.97
108 1930	4.23	109 0130	5.72	109 0745	4.36	109 1345	5.86
109 2045	4.34	110 0215	5.58	110 0845	4.23	110 1445	5.64
110 2130	4.18	111 0330	5.42	111 0945	4.47	111 1545	5.79
111 2245	4.45	112 0430	5.61	112 1030	4.56	112 1700	5.89
112 2345	4.46	113 0545	5.58	113 1130	4.42	113 1800	5.82
113 2400	4.48	114 0615	5.67	114 1230	4.48	114 1845	5.89
115 0115	4.6	115 0715	5.85	115 1330	4.81	115 1900	6.11
116 0215	4.59	116 0730	5.74	116 1430	4.16	116 2015	5.84
117 0245	4.22	117 0815	5.53	117 1500	4.	117 2045	5.72
118 0315	4.18	118 0915	5.68	118 1515	4.28	118 2115	5.79
119 0400	4.43	119 0930	5.86	119 1600	4.26	119 2200	5.73
120 0400	4.31	120 1015	5.76	120 1630	4.27	120 2230	5.67
121 0445	4.3	121 1100	5.87	121 1715	4.4	121 2300	5.68
122 0515	4.37	122 1130	5.84	122 1800	4.34	122 2345	5.63
123 0600	4.33	123 1215	5.79	123 1845	4.31	124 0045	5.55
124 0645	4.36	124 1300	5.8	124 1930	4.4	125 0115	5.58
125 0730	4.41	125 1345	5.83	125 2030	4.45	126 0215	5.59
126 0830	4.43	126 1445	5.94	126 2145	4.43	127 0330	5.61

127 0930	4.41	127 1545	5.87	127 2245	4.3	128 0430	5.64
128 1030	4.48	128 1700	5.98	128 2330	4.41	129 0530	5.81
129 1145	4.36	129 1800	5.99	130 0045	4.31	130 0615	5.89
130 1300	4.27	130 1900	6.07	131 0130	4.3	131 0715	6.04
131 1345	4.29	131 1945	6.12	132 0245	4.25	132 0815	6.1
132 1500	4.26	132 2100	6.11	133 0315	4.37	133 0915	6.24
133 1545	4.36	133 2145	6.15	134 0400	4.41	134 1000	6.29
134 1645	4.38	134 2230	6.06	135 0445	4.42	135 1045	6.23
135 1730	4.44	135 2330	6.06	136 0530	4.66	136 1145	6.36
136 1815	4.73	137 0015	6.05	137 0630	4.68	137 1245	6.19
137 1915	4.64	138 0115	5.85	138 0715	4.69	138 1315	6.12
138 2015	4.49	139 0200	5.67	139 0815	4.38	139 1415	5.77
139 2130	4.34	140 0315	5.48	140 0900	4.48	140 1515	5.71
140 2200	4.37	141 0345	5.51	141 1015	4.41	141 1615	5.55
141 2230	4.41	142 0515	5.71	142 1100	4.43	142 1745	5.71
142 2315	4.65	143 0545	5.88	143 1200	4.71	143 1830	5.97
144 0015	4.83	144 0630	5.99	144 1315	4.64	144 1830	5.8
145 0130	4.26	145 0730	5.37	145 1345	4.15	145 1945	5.59
146 0200	4.12	146 0815	5.62	146 1430	4.21	146 2000	5.58
147 0230	4.15	147 0845	5.72	147 1500	4.22	147 2045	5.71
148 0300	4.36	148 0915	5.93	148 1545	4.34	148 2130	5.82
149 0330	4.5	149 0945	6.22	149 1630	4.69	149 2145	5.93
150 0415	4.57	150 1030	6.2	150 1715	4.45	150 2315	5.7
151 0500	4.45	151 1045	6.03	151 1745	4.34	151 2345	5.62
152 0530	4.41	152 1145	5.98	152 1830	4.23	153 0015	5.48
153 0615	4.29	153 1230	5.81	153 1915	4.24	154 0115	5.54
154 0700	4.47	154 1330	5.97	154 2315	4.33	155 0545	5.65
155 0845	5.05	155 1500	6.43	155 2115	5.47	156 0400	6.28
156 0945	5.21	156 1500	6.29	156 2230	4.93	157 0400	5.97
157 1045	4.82	157 1615	6.02	157 2315	4.42	158 0445	5.85
158 1130	4.36	158 1730	5.93	159 0015	4.2	159 0600	5.9
159 1230	4.27	159 1830	5.9	160 0100	4.14	160 0700	5.97
160 1345	4.17	160 1930	5.79	161 0200	4.08	161 0830	6.18
161 1445	4.27	161 2045	6.13	162 0230	4.73	162 0915	6.55
162 1545	4.73	162 2130	6.14	163 0345	4.48	163 0930	6.22
163 1630	4.31	163 2215	5.98	164 0500	4.21	164 1030	5.87
164 1730	4.01	164 2300	5.5	165 0515	3.96	165 1115	5.77
165 1800	4.02	165 2400	5.53	166 0545	4.16	166 1145	5.91
166 1845	4.27	167 0045	5.62	167 0645	4.33	167 1245	5.94
167 1930	4.41	168 0130	5.59	168 0745	4.37	168 1330	5.71
168 2030	4.32	169 0215	5.53	169 0815	4.45	169 1415	5.72
169 2100	4.43	170 0315	5.73	170 0900	4.55	170 1530	5.67
170 2200	4.49	171 0430	5.74	171 1015	4.69	171 1630	5.85
171 2315	4.67	172 0445	5.7	172 1145	4.19	172 1730	5.24
172 2330	4.13	173 0600	5.45	173 1215	4.31	173 1815	5.59
174 0030	4.14	174 0645	5.44	174 1315	4.12	174 1915	5.41
175 0200	3.87	175 0745	5.17	175 1345	3.91	175 2000	5.38
176 0200	4.04	176 0830	5.82	176 1445	4.36	176 2030	5.68
177 0245	4.3	177 0845	6.01	177 1530	4.36	177 2115	5.72
178 0315	4.32	178 0930	6.09	178 1600	4.41	178 2145	5.83
179 0400	4.42	179 0945	5.87	179 1715	4.24	179 2230	5.51
180 0430	4.1	180 1045	5.68	180 1730	4.	180 2315	5.28
181 0530	3.88	181 1145	5.65	181 1815	4.	182 0015	5.45
182 0615	4.11	182 1230	5.92	182 1900	4.36	183 0100	5.76
183 0715	4.4	183 1315	5.86	183 2030	4.09	184 0215	5.48
184 0800	4.23	184 1400	5.69	184 2130	3.99	185 0245	5.29
185 0930	3.97	185 1515	5.35	185 2200	3.95	186 0400	5.43
186 1030	4.02	186 1645	5.58	186 2245	4.13	187 0500	5.84
187 1115	4.41	187 1730	5.83	187 2345	4.31	188 0545	5.99
188 1245	4.41	188 1815	6.	189 0030	4.4	189 0645	6.18
189 1330	4.52	189 1915	5.98	190 0145	4.41	190 0800	6.14
190 1445	4.34	190 2030	5.82	191 0230	4.2	191 0845	6.05
191 1530	4.18	191 2045	5.7	192 0330	4.05	192 0930	5.9

192	1630	3.99	192	2145	5.5	193	0400	3.95	193	1015	5.99
193	1645	4.1	193	2230	5.52	194	0500	4.	194	1115	5.83
194	1730	4.12	194	2330	5.64	195	0515	4.34	195	1130	6.01
195	1815	4.35	196	0015	5.66	196	0600	4.42	196	1215	5.96
196	1915	4.43	197	0100	5.61	197	0700	4.35	197	1300	5.69
197	2000	4.23	198	0145	5.42	198	0745	4.3	198	1345	5.64
198	2015	4.37	199	0245	5.55	199	0845	4.55	199	1445	5.63
199	2115	4.44	200	0330	5.63	200	0930	4.59	200	1530	5.67
200	2200	4.61	201	0400	5.78	201	1000	4.59	201	1700	5.7
201	2245	4.59	202	0515	5.82	202	1130	4.61	202	1730	5.72
202	2315	4.78	203	0600	6.15	203	1230	4.59	203	1830	5.71
204	0015	4.46	204	0630	5.84	204	1330	4.3	204	1930	5.59
205	0100	4.33	205	0730	5.88	205	1400	4.48	205	1945	5.73
206	0200	4.52	206	0845	6.	206	1500	4.5	206	2045	5.84
207	0245	4.39	207	0915	6.17	207	1600	4.67	207	2145	6.1
208	0345	4.48	208	0930	5.9	208	1730	3.84	208	2245	5.23
209	0515	3.73	209	1030	5.46	209	1800	3.73	209	2315	5.04
210	0515	3.74	210	1130	5.71	210	1800	3.91	210	2330	5.31
211	0645	3.75	211	1230	5.48	211	1900	3.84	212	0045	5.39
212	0700	3.9	212	1300	5.67	212	1945	3.99	213	0130	5.55
213	0800	4.	213	1345	5.67	213	2030	4.1	214	0230	5.66
214	0845	4.26	214	1445	5.8	214	2130	4.3	215	0330	5.8
215	1000	4.32	215	1600	5.62	215	2230	4.21	216	0445	5.83
216	1100	4.4	216	1715	5.69	216	2315	4.35	217	0545	6.05
217	1230	4.6	217	1745	5.81	218	0015	4.31	218	0700	6.07
218	1315	4.33	218	1915	5.72	219	0115	4.2	219	0730	6.06
219	1415	4.33	219	1945	5.81	220	0215	4.29	220	0815	6.08
220	1500	4.34	220	2030	5.74	221	0300	4.18	221	0915	6.05
221	1600	4.35	221	2130	5.76						

WIND DATA

0

PRECIP/EVAP DATA

0

JUNCTION GEOM DATA

0

CHANNEL GEOM DATA

0

DYNHYD JUNCTION TO WASP SEGMENT MAP

0	66
1	0
2	1
3	2
4	3
5	4
6	5
7	6
8	7
9	8
10	9
11	10
12	11
13	12
14	13
15	14
16	15
17	16
18	17
19	18
20	19
21	20
22	21
23	22
24	0

25	23
26	0
27	24
28	25
29	26
30	27
31	28
32	29
33	30
34	31
35	32
36	33
37	34
38	35
39	54
40	36
41	37
42	38
43	39
44	40
45	0
46	41
47	42
48	43
49	44
50	45
51	46
52	47
53	48
54	49
55	50
56	51
57	52
58	53
59	0
60	0
61	55
62	56
63	57
64	58
65	59
66	0

APPENDIX B

EUTRO MODEL INPUT FILE FOR SCENARIO 25

EUTRO Murderkil River Eutrophication Model
 2005 Harrington request winter discharge at 0.75mgd and other, detail see scnr25
 A:Run Information

60 8 0 3 0 0 0.2 0 0000 0
 7 13 24 37 45 47

1
 0.001389 219
 3

1 219
 0 0 0 0 0 0
 1 B: Water Column Exchanges
 1 1.00 1.00

54
 271.16 1482.78 1 0
 253.47 1548.37 2 1
 236.66 1572.4 3 2
 221.25 1397.25 4 3
 206.21 1144.27 5 4
 191.53 972.99 6 5
 177.22 882.01 7 6
 163.28 877.93 8 7
 148.96 1001.18 9 8
 130.37 1141.87 10 9
 106.67 1153.42 11 10
 81.95 1129.92 12 11
 62.29 1091.74 13 12
 53.72 1024.81 14 13
 52.58 1124.65 15 14
 52.58 1265.01 16 15
 52.58 1177.7 17 16
 52.58 1002.46 18 17
 62.39 1157.36 20 19
 110.48 1267.78 22 21
 91.77 881.75 23 7
 99.74 942.64 24 9
 56.1 845.84 25 24
 50.67 1017.25 26 25
 44.52 1093.84 27 26
 40.54 984.89 28 27
 37.64 931.47 29 28
 35.47 974.91 30 29
 30.68 1031.33 32 27
 16. 901.92 33 32
 11.16 756.21 34 33
 8.14 720.68 35 34
 31.81 1106.21 36 29
 79.84 1005.39 38 37
 3.12 923.66 39 38
 2.06 936.27 40 39
 52.58 1147.21 41 14
 52.58 1302.77 42 41
 52.58 1111.56 43 42
 52.58 782.39 44 43
 63.26 1240.1 46 45
 1.52 1089.54 47 46
 1.52 1045.1 48 47
 1.52 922.31 49 48
 1.52 835.72 50 49
 1.52 846.12 51 50
 1.52 851.33 52 51
 1.52 790.45 53 52
 5.21 697.06 54 35
 2.76 736.92 55 54

1.6	883.81	56	55				
1.52	969.24	57	56				
1.52	992.77	58	57				
1.52	962.61	59	58				
2							
1.0	0.0	1.0	220.0				
0	0	0	0	0	0	0	0
1	0	5	C:Volumes				
1.0	1.0						
1	60	1	3.905E+5	1.00	0.40	1.00	0.60
2	60	1	3.923E+5	1.00	0.40	1.00	0.60
3	60	1	3.527E+5	1.00	0.40	1.00	0.60
4	60	1	2.693E+5	1.00	0.40	1.00	0.60
5	60	1	2.055E+5	1.00	0.40	1.00	0.60
6	60	1	1.687E+5	1.00	0.40	1.00	0.60
7	60	1	1.590E+5	1.00	0.40	1.00	0.60
8	60	1	1.412E+5	1.00	0.40	1.00	0.60
9	60	1	1.902E+5	1.00	0.40	1.00	0.60
10	60	1	1.412E+5	1.00	0.40	1.00	0.60
11	60	1	1.052E+5	1.00	0.40	1.00	0.60
12	60	1	7.891E+4	1.00	0.40	1.00	0.60
13	60	1	5.758E+4	1.00	0.40	1.00	0.60
14	60	1	8.169E+4	1.00	0.40	1.00	0.60
15	60	1	6.536E+4	1.00	0.40	1.00	0.60
16	60	1	6.765E+4	1.00	0.40	1.00	0.60
17	60	1	5.618E+4	1.00	0.40	1.00	0.60
18	60	1	4.923E+4	1.00	0.40	1.00	0.60
19	60	1	1.435E+5	1.00	0.40	1.00	0.60
20	60	1	1.753E+3	1.00	0.40	1.00	0.60
21	60	1	3.039E+5	1.00	0.40	1.00	0.60
22	60	1	1.753E+3	1.00	0.40	1.00	0.60
23	60	1	1.152E+4	1.00	0.40	1.00	0.60
24	60	1	4.566E+4	1.00	0.40	1.00	0.60
25	60	1	4.903E+4	1.00	0.40	1.00	0.60
26	60	1	5.323E+4	1.00	0.40	1.00	0.60
27	60	1	5.861E+4	1.00	0.40	1.00	0.60
28	60	1	3.570E+4	1.00	0.40	1.00	0.60
29	60	1	5.241E+4	1.00	0.40	1.00	0.60
30	60	1	3.476E+4	1.00	0.40	1.00	0.60
31	60	1	8.835E+4	1.00	0.40	1.00	0.60
32	60	1	1.947E+4	1.00	0.40	1.00	0.60
33	60	1	1.006E+4	1.00	0.40	1.00	0.60
34	60	1	6.755E+3	1.00	0.40	1.00	0.60
35	60	1	4.783E+3	1.00	0.40	1.00	0.60
36	60	1	3.464E+4	1.00	0.40	1.00	0.60
37	60	1	1.700E+5	1.00	0.40	1.00	0.60
38	60	1	3.370E+3	1.00	0.40	1.00	0.60
39	60	1	2.291E+3	1.00	0.40	1.00	0.60
40	60	1	1.442E+3	1.00	0.40	1.00	0.60
41	60	1	6.774E+4	1.00	0.40	1.00	0.60
42	60	1	6.925E+4	1.00	0.40	1.00	0.60
43	60	1	4.763E+4	1.00	0.40	1.00	0.60
44	60	1	3.464E+4	1.00	0.40	1.00	0.60
45	60	1	1.744E+5	1.00	0.40	1.00	0.60
46	60	1	1.653E+3	1.00	0.40	1.00	0.60
47	60	1	1.667E+3	1.00	0.40	1.00	0.60
48	60	1	1.518E+3	1.00	0.40	1.00	0.60
49	60	1	1.293E+3	1.00	0.40	1.00	0.60
50	60	1	1.254E+3	1.00	0.40	1.00	0.60
51	60	1	1.325E+3	1.00	0.40	1.00	0.60
52	60	1	1.270E+3	1.00	0.40	1.00	0.60
53	60	1	1.139E+3	1.00	0.40	1.00	0.60
54	60	1	2.442E+3	1.00	0.40	1.00	0.60

55	60	1	1.351E+3	1.00	0.40	1.00	0.60				
56	60	1	1.465E+3	1.00	0.40	1.00	0.60				
57	60	1	1.489E+3	1.00	0.40	1.00	0.60				
58	60	1	1.537E+3	1.00	0.40	1.00	0.60				
59	60	1	1.397E+3	1.00	0.40	1.00	0.60				
60	0	3	1.000E+8	1.00	0.40	1.00	0.60				
3	5dynWinHr.hyd										
0	1.00	1.E0									
1	1.00	1.157E-5									
59											
116566.2	1	60	118892.5	2	60	108518.9	3	60	84149.1	4	60
65239.9	5	60	54407.3	6	60	52144.7	7	60	47081.4	8	60
65573.6	9	60	54323.3	10	60	47829.4	11	60	45092.8	12	60
38387.7	13	60	54458.9	14	60	43575.2	15	60	45102.9	16	60
37454.4	17	60	32818.6	18	60	235260.9	19	60	3506.5	20	60
303949.3	21	60	3506.5	22	60	6143.9	23	60	22830.1	24	60
26151.6	25	60	32756.5	26	60	40423.9	27	60	26447.4	28	60
41927.4	29	60	28963.0	30	60	70683.4	31	60	14976.0	32	60
8750.9	33	60	6433.2	34	60	5314.1	35	60	28868.3	36	60
126845.9	37	60	4212.0	38	60	3524.4	39	60	2884.8	40	60
45156.7	41	60	46167.9	42	60	31753.3	43	60	23092.5	44	60
198165.8	45	60	3306.8	46	60	3334.7	47	60	3035.9	48	60
2586.2	49	60	2508.0	50	60	2649.6	51	60	2539.8	52	60
2278.5	53	60	3488.9	54	60	2457.2	55	60	2930.3	56	60
2977.9	57	60	3073.7	58	60	2794.1	59	60			
2											
	0.3	0.0	0.3	220.0							
1	1.00	1.157E-5									
59											
116566.2	1	60	118892.5	2	60	108518.9	3	60	84149.1	4	60
65239.9	5	60	54407.3	6	60	52144.7	7	60	47081.4	8	60
65573.6	9	60	54323.3	10	60	47829.4	11	60	45092.8	12	60
38387.7	13	60	54458.9	14	60	43575.2	15	60	45102.9	16	60
37454.4	17	60	32818.6	18	60	235260.9	19	60	3506.5	20	60
303949.3	21	60	3506.5	22	60	6143.9	23	60	22830.1	24	60
26151.6	25	60	32756.5	26	60	40423.9	27	60	26447.4	28	60
41927.4	29	60	28963.0	30	60	70683.4	31	60	14976.0	32	60
8750.9	33	60	6433.2	34	60	5314.1	35	60	28868.3	36	60
126845.9	37	60	4212.0	38	60	3524.4	39	60	2884.8	40	60
45156.7	41	60	46167.9	42	60	31753.3	43	60	23092.5	44	60
198165.8	45	60	3306.8	46	60	3334.7	47	60	3035.9	48	60
2586.2	49	60	2508.0	50	60	2649.6	51	60	2539.8	52	60
2278.5	53	60	3488.9	54	60	2457.2	55	60	2930.3	56	60
2977.9	57	60	3073.7	58	60	2794.1	59	60			
2											
	0.3	0.0	0.3	220.0							
1	1.00	1.157E-5									
59											
116566.2	1	60	118892.5	2	60	108518.9	3	60	84149.1	4	60
65239.9	5	60	54407.3	6	60	52144.7	7	60	47081.4	8	60
65573.6	9	60	54323.3	10	60	47829.4	11	60	45092.8	12	60
38387.7	13	60	54458.9	14	60	43575.2	15	60	45102.9	16	60
37454.4	17	60	32818.6	18	60	235260.9	19	60	3506.5	20	60
303949.3	21	60	3506.5	22	60	6143.9	23	60	22830.1	24	60
26151.6	25	60	32756.5	26	60	40423.9	27	60	26447.4	28	60
41927.4	29	60	28963.0	30	60	70683.4	31	60	14976.0	32	60
8750.9	33	60	6433.2	34	60	5314.1	35	60	28868.3	36	60
126845.9	37	60	4212.0	38	60	3524.4	39	60	2884.8	40	60
45156.7	41	60	46167.9	42	60	31753.3	43	60	23092.5	44	60
198165.8	45	60	3306.8	46	60	3334.7	47	60	3035.9	48	60
2586.2	49	60	2508.0	50	60	2649.6	51	60	2539.8	52	60
2278.5	53	60	3488.9	54	60	2457.2	55	60	2930.3	56	60
2977.9	57	60	3073.7	58	60	2794.1	59	60			

2	0.3	0.0	0.3	220.0				
0	0	0	0	0	0	0	0	0
	7E: Boundary Conditions for NH3 (system 1)							
	1.00	1.00						
1	5							
	0.154	0.0	0.154	32.0	0.154	96.0	0.154	159.0
	0.154	220.0						
22	5							
	0.028	0.0	0.028	32.0	0.028	96.0	0.028	159.0
	0.028	220.0						
23	5							
	0.047	0.0	0.047	32.0	0.047	96.0	0.047	159.0
	0.047	220.0						
31	5							
	0.046	0.0	0.046	32.0	0.046	96.0	0.046	159.0
	0.046	220.0						
40	5							
	0.032	0.0	0.032	32.0	0.032	96.0	0.032	159.0
	0.032	220.0						
53	5							
	0.058	0.0	0.058	32.0	0.058	96.0	0.058	159.0
	0.058	220.0						
59	5							
	0.047	0.0	0.047	32.0	0.047	96.0	0.047	159.0
	0.047	220.0						
	7E: Boundary Conditions for NO3 (system 2)							
	1.00	1.00						
1	5							
	0.600	0.0	0.600	32.0	0.600	96.0	0.600	159.0
	0.600	220.0						
22	5							
	1.886	0.0	1.886	32.0	1.886	96.0	1.886	159.0
	1.886	220.0						
23	5							
	2.125	0.0	2.125	32.0	2.125	96.0	2.125	159.0
	2.125	220.0						
31	5							
	3.903	0.0	3.903	32.0	3.903	96.0	3.903	159.0
	3.903	220.0						
40	5							
	3.238	0.0	3.238	32.0	3.238	96.0	3.238	159.0
	3.238	220.0						
53	5							
	1.443	0.0	1.443	32.0	1.443	96.0	1.443	159.0
	1.443	220.0						
59	5							
	2.125	0.0	2.125	32.0	2.125	96.0	2.125	159.0
	2.125	220.0						
	7E: Boundary Conditions for P04 (system 3)							
	1.00	1.00						
1	5							
	0.060	0.0	0.060	32.0	0.060	96.0	0.060	159.0
	0.060	220.0						
22	5							
	0.043	0.0	0.043	32.0	0.043	96.0	0.043	159.0
	0.043	220.0						
23	5							
	0.018	0.0	0.018	32.0	0.018	96.0	0.018	159.0
	0.018	220.0						
31	5							
	0.016	0.0	0.016	32.0	0.016	96.0	0.016	159.0
	0.016	220.0						

40	5						
	0.010	0.0	0.010	32.0	0.010	96.0	159.0
	0.010	220.0					
53	5						
	0.007	0.0	0.007	32.0	0.007	96.0	159.0
	0.007	220.0					
59	5						
	0.018	0.0	0.018	32.0	0.018	96.0	159.0
	0.018	220.0					
7E: Boundary Conditions for PHYT (system 4); Chl a (ug/l)							
	1.00	1.00					
1	5						
	29.000	0.0	29.000	32.0	29.000	96.0	159.0
	29.000	220.0					
22	5						
	2.100	0.0	2.100	32.0	2.100	96.0	159.0
	2.100	220.0					
23	5						
	31.640	0.0	31.640	32.0	31.640	96.0	159.0
	31.640	220.0					
31	5						
	7.980	0.0	7.980	32.0	7.980	96.0	159.0
	7.980	220.0					
40	5						
	11.620	0.0	11.620	32.0	11.620	96.0	159.0
	11.620	220.0					
53	5						
	3.667	0.0	3.667	32.0	3.667	96.0	159.0
	3.667	220.0					
59	5						
	31.640	0.0	31.640	32.0	31.640	96.0	159.0
	31.640	220.0					
7E: Boundary Conditions for CBOD (system 5)							
	1.00	1.00					
1	5						
	2.500	0.0	2.500	32.0	2.500	96.0	159.0
	2.500	220.0					
22	5						
	3.668	0.0	3.668	32.0	3.668	96.0	159.0
	3.668	220.0					
23	5						
	3.990	0.0	3.990	32.0	3.990	96.0	159.0
	3.990	220.0					
31	5						
	3.668	0.0	3.668	32.0	3.668	96.0	159.0
	3.668	220.0					
40	5						
	3.920	0.0	3.920	32.0	3.920	96.0	159.0
	3.920	220.0					
53	5						
	2.083	0.0	2.083	32.0	2.083	96.0	159.0
	2.083	220.0					
59	5						
	3.990	0.0	3.990	32.0	3.990	96.0	159.0
	3.990	220.0					
7E: Boundary Conditions for DO (system 6)							
	1.00	1.00					
1	5						
	5.200	0.0	5.200	32.0	5.200	96.0	159.0
	5.200	220.0					
22	5						
	6.820	0.0	6.820	32.0	6.820	96.0	159.0
	6.820	220.0					

23	5						
	5.620	0.0	5.620	32.0	5.620	96.0	159.0
	5.620	220.0					
31	5						
	7.960	0.0	7.960	32.0	7.960	96.0	159.0
	7.960	220.0					
40	5						
	7.500	0.0	7.500	32.0	7.500	96.0	159.0
	7.500	220.0					
53	5						
	7.230	0.0	7.230	32.0	7.230	96.0	159.0
	7.230	220.0					
59	5						
	6.500	0.0	6.500	32.0	6.500	96.0	159.0
	6.500	220.0					
7E: Boundary Conditions for OrgN (system 7)							
	1.00	1.00					
1	5						
	1.300	0.0	1.300	32.0	1.300	96.0	159.0
	1.300	220.0					
22	5						
	0.775	0.0	0.775	32.0	0.775	96.0	159.0
	0.775	220.0					
23	5						
	0.446	0.0	0.446	32.0	0.446	96.0	159.0
	0.446	220.0					
31	5						
	0.450	0.0	0.450	32.0	0.450	96.0	159.0
	0.450	220.0					
40	5						
	0.497	0.0	0.497	32.0	0.497	96.0	159.0
	0.497	220.0					
53	5						
	0.461	0.0	0.461	32.0	0.461	96.0	159.0
	0.461	220.0					
59	5						
	0.446	0.0	0.446	32.0	0.446	96.0	159.0
	0.446	220.0					
7E: Boundary Conditions for OrgP (system 8)							
	1.00	1.00					
1	5						
	0.090	0.0	0.090	32.0	0.090	96.0	159.0
	0.090	220.0					
22	5						
	0.040	0.0	0.040	32.0	0.040	96.0	159.0
	0.040	220.0					
23	5						
	0.031	0.0	0.031	32.0	0.031	96.0	159.0
	0.031	220.0					
31	5						
	0.021	0.0	0.021	32.0	0.021	96.0	159.0
	0.021	220.0					
40	5						
	0.022	0.0	0.022	32.0	0.022	96.0	159.0
	0.022	220.0					
53	5						
	0.034	0.0	0.034	32.0	0.034	96.0	159.0
	0.034	220.0					
59	5						
	0.031	0.0	0.031	32.0	0.031	96.0	159.0
	0.031	220.0					
5F: Waste Loads for SYS 1-NH3							
	1.00	1.00					

23	9	0	0	0.0000	0.1667	3.00			
20.092		0.0		20.092	9.0	20.092	40.0	20.092	70.0
20.092		101.0		20.092	131.0	20.092	162.0	20.092	193.0
20.092		220.0							
35	9	0	0	0.0000	0.1667	3.00			
0.000		0.0		0.000	9.0	0.000	40.0	0.000	70.0
0.000		101.0		0.000	131.0	0.000	162.0	0.000	193.0
0.000		220.0							
14	9	0	0	0.0000	0.1667	3.00			
0.000		0.0		0.000	9.0	0.000	40.0	0.000	70.0
0.000		101.0		0.000	131.0	0.000	162.0	0.000	193.0
0.000		220.0							
53	9	0	0	0.0000	0.1667	3.00			
0.000		0.0		0.000	9.0	0.000	40.0	0.000	70.0
0.000		101.0		0.000	131.0	53.100	162.0	53.100	193.0
53.100		220.0							
59	9	0	0	0.0000	0.1667	3.00			
0.020		0.0		0.020	9.0	0.020	40.0	0.020	70.0
0.020		101.0		0.020	131.0	0.020	162.0	0.020	193.0
0.020		220.0							

5F: Waste Loads for SYS 2-N023

1.00		1.00							
23	9	0	0	0.0000	0.1667	3.00			
243.588		0.0		243.588	9.0	243.588	40.0	243.588	70.0
243.588		101.0		243.588	131.0	243.588	162.0	243.588	193.0
243.588		220.0							
35	9	0	0	0.0000	0.1667	3.00			
0.000		0.0		0.000	9.0	0.000	40.0	0.000	70.0
0.000		101.0		0.000	131.0	0.000	162.0	0.000	193.0
0.000		220.0							
14	9	0	0	0.0000	0.1667	3.00			
0.000		0.0		0.000	9.0	0.000	40.0	0.000	70.0
0.000		101.0		0.000	131.0	0.000	162.0	0.000	193.0
0.000		220.0							
53	9	0	0	0.0000	0.1667	3.00			
0.000		0.0		0.000	9.0	0.000	40.0	0.000	70.0
0.000		101.0		0.000	131.0	1.120	162.0	1.120	193.0
1.120		220.0							
59	9	0	0	0.0000	0.1667	3.00			
0.050		0.0		0.050	9.0	0.050	40.0	0.050	70.0
0.050		101.0		0.050	131.0	0.050	162.0	0.050	193.0
0.050		220.0							

5F: Waste Loads for SYS 3-P04

1.00		1.00							
23	9	0	0	0.0000	0.1667	3.00			
27.363		0.0		27.363	9.0	27.363	40.0	27.363	70.0
27.363		101.0		27.363	131.0	27.363	162.0	27.363	193.0
27.363		220.0							
35	9	0	0	0.0000	0.1667	3.00			
0.000		0.0		0.000	9.0	0.000	40.0	0.000	70.0
0.000		101.0		0.000	131.0	0.000	162.0	0.000	193.0
0.000		220.0							
14	9	0	0	0.0000	0.1667	3.00			
0.000		0.0		0.000	9.0	0.000	40.0	0.000	70.0
0.000		101.0		0.000	131.0	0.000	162.0	0.000	193.0
0.000		220.0							
53	9	0	0	0.0000	0.1667	3.00			
0.000		0.0		0.000	9.0	0.000	40.0	0.000	70.0
0.000		101.0		0.000	131.0	0.040	162.0	0.040	193.0
0.040		220.0							
59	9	0	0	0.0000	0.1667	3.00			
0.052		0.0		0.052	9.0	0.052	40.0	0.052	70.0
0.052		101.0		0.052	131.0	0.052	162.0	0.052	193.0

0.052	220.0							
0F: Waste Loads for SYS 4-PHYT								
5F: Waste Loads for SYS 5-CBOD								
1.00	1.00							
23 9	0 0	0.0000	0.1667	3.00				
681.333	0.0	681.333	9.0	681.333	40.0	681.333	70.0	
681.333	101.0	681.333	131.0	681.333	162.0	681.333	193.0	
681.333	220.0							
35 9	0 0	0.0000	0.1667	3.00				
0.000	0.0	0.000	9.0	0.000	40.0	0.000	70.0	
0.000	101.0	0.000	131.0	0.000	162.0	0.000	193.0	
0.000	220.0							
14 9	0 0	0.0000	0.1667	3.00				
0.000	0.0	0.000	9.0	0.000	40.0	0.000	70.0	
0.000	101.0	0.000	131.0	0.000	162.0	0.000	193.0	
0.000	220.0							
53 9	0 0	0.0000	0.1667	3.00				
0.000	0.0	0.000	9.0	0.000	40.0	0.000	70.0	
0.000	101.0	0.000	131.0	25.550	162.0	25.550	193.0	
25.550	220.0							
59 9	0 0	0.0000	0.1667	3.00				
6.500	0.0	6.500	9.0	6.500	40.0	6.500	70.0	
6.500	101.0	6.500	131.0	6.500	162.0	6.500	193.0	
6.500	220.0							
5F: Waste Loads for SYS 6-D0								
1.00	1.00							
23 9	0 0	0.0000	0.1667	3.00				
397.000	0.0	397.000	9.0	397.000	40.0	397.000	70.0	
397.000	101.0	397.000	131.0	397.000	162.0	397.000	193.0	
397.000	220.0							
35 9	0 0	0.0000	0.1667	3.00				
0.000	0.0	0.000	9.0	0.000	40.0	0.000	70.0	
0.000	101.0	0.000	131.0	0.000	162.0	0.000	193.0	
0.000	220.0							
14 9	0 0	0.0000	0.1667	3.00				
0.000	0.0	0.000	9.0	0.000	40.0	0.000	70.0	
0.000	101.0	0.000	131.0	0.000	162.0	0.000	193.0	
0.000	220.0							
53 9	0 0	0.0000	0.1667	3.00				
0.000	0.0	0.000	9.0	0.000	40.0	0.000	70.0	
0.000	101.0	0.000	131.0	19.870	162.0	19.870	193.0	
19.870	220.0							
59 9	0 0	0.0000	0.1667	3.00				
1.210	0.0	1.210	9.0	1.210	40.0	1.210	70.0	
1.210	101.0	1.210	131.0	1.210	162.0	1.210	193.0	
1.210	220.0							
5F: Waste Loads for SYS 7-Orgn								
1.00	1.00							
23 9	0 0	0.0000	0.1667	3.00				
76.987	0.0	76.987	9.0	76.987	40.0	76.987	70.0	
76.987	101.0	76.987	131.0	76.987	162.0	76.987	193.0	
76.987	220.0							
35 9	0 0	0.0000	0.1667	3.00				
0.000	0.0	0.000	9.0	0.000	40.0	0.000	70.0	
0.000	101.0	0.000	131.0	0.000	162.0	0.000	193.0	
0.000	220.0							
14 9	0 0	0.0000	0.1667	3.00				
0.000	0.0	0.000	9.0	0.000	40.0	0.000	70.0	
0.000	101.0	0.000	131.0	0.000	162.0	0.000	193.0	
0.000	220.0							
53 9	0 0	0.0000	0.1667	3.00				
0.000	0.0	0.000	9.0	0.000	40.0	0.000	70.0	
0.000	101.0	0.000	131.0	9.780	162.0	9.780	193.0	

9.780	220.0							
59	9	0	0	0.0000	0.1667	3.00		
1.880	0.0	1.880	9.0	1.880	40.0	1.880	70.0	
1.880	101.0	1.880	131.0	1.880	162.0	1.880	193.0	
1.880	220.0							

5F: Waste Loads for SYS 8-OrGP

1.00	1.00							
23	9	0	0	0.0000	0.1667	3.00		
1.026	0.0	1.026	9.0	1.026	40.0	1.026	70.0	
1.026	101.0	1.026	131.0	1.026	162.0	1.026	193.0	
1.026	220.0							
35	9	0	0	0.0000	0.1667	3.00		
0.000	0.0	0.000	9.0	0.000	40.0	0.000	70.0	
0.000	101.0	0.000	131.0	0.000	162.0	0.000	193.0	
0.000	220.0							
14	9	0	0	0.0000	0.1667	3.00		
0.000	0.0	0.000	9.0	0.000	40.0	0.000	70.0	
0.000	101.0	0.000	131.0	0.000	162.0	0.000	193.0	
0.000	220.0							
53	9	0	0	0.0000	0.1667	3.00		
0.000	0.0	0.000	9.0	0.000	40.0	0.000	70.0	
0.000	101.0	0.000	131.0	0.300	162.0	0.300	193.0	
0.300	220.0							
59	9	0	0	0.0000	0.1667	3.00		
0.035	0.0	0.035	9.0	0.035	40.0	0.035	70.0	
0.035	101.0	0.035	131.0	0.035	162.0	0.035	193.0	
0.035	220.0							

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12 G: PARAMETERS

VELFN	1	1.00	SAL	2	1.00TMPSPG	3	1.00TMPFN	4	1.00
KESG	5	1.00	KEFN	6	1.00 FNH4	7	1.00 FP04	8	1.00
SOD1D	9	1.00	SODTA	10	1.00TOTLI	11	1.00REARS	12	1.00
1									
VELFN	1	1.00	SAL	2	18.47TMPSPG	3	1.00TMPFN	4	1.00
KESG	5	1.00	KEFN	6	1.00 FNH4	7	189.04 FP04	8	8.49
SOD1D	9	2.17	SODTA	10	1.07TOTLI	11	1.00REARS	12	0.00
2									
VELFN	1	1.00	SAL	2	15.89TMPSPG	3	1.00TMPFN	4	1.00
KESG	5	1.00	KEFN	6	1.00 FNH4	7	189.04 FP04	8	8.49
SOD1D	9	2.17	SODTA	10	1.07TOTLI	11	1.00REARS	12	0.00
3									
VELFN	1	1.00	SAL	2	13.13TMPSPG	3	1.00TMPFN	4	1.00
KESG	5	1.00	KEFN	6	1.00 FNH4	7	189.04 FP04	8	8.49
SOD1D	9	2.17	SODTA	10	1.07TOTLI	11	1.00REARS	12	0.00
4									
VELFN	1	1.00	SAL	2	10.86TMPSPG	3	1.00TMPFN	4	1.00
KESG	5	1.00	KEFN	6	1.00 FNH4	7	189.04 FP04	8	8.49
SOD1D	9	2.17	SODTA	10	1.07TOTLI	11	1.00REARS	12	0.00
5									
VELFN	1	1.00	SAL	2	9.10TMPSPG	3	1.00TMPFN	4	1.00
KESG	5	1.00	KEFN	6	1.00 FNH4	7	189.04 FP04	8	8.49
SOD1D	9	2.17	SODTA	10	1.07TOTLI	11	1.00REARS	12	0.00
6									
VELFN	1	1.00	SAL	2	7.55TMPSPG	3	1.00TMPFN	4	1.00
KESG	5	1.00	KEFN	6	1.00 FNH4	7	189.04 FP04	8	8.49
SOD1D	9	2.17	SODTA	10	1.07TOTLI	11	1.00REARS	12	0.00
7									
VELFN	1	1.00	SAL	2	6.17TMPSPG	3	1.00TMPFN	4	1.00
KESG	5	1.00	KEFN	6	1.00 FNH4	7	189.04 FP04	8	8.49
SOD1D	9	2.17	SODTA	10	1.07TOTLI	11	1.00REARS	12	0.00
8									
VELFN	1	1.00	SAL	2	4.47TMPSPG	3	1.00TMPFN	4	1.00
KESG	5	1.00	KEFN	6	1.00 FNH4	7	189.04 FP04	8	8.49

SOD1D	9	2.17	SODTA	10	1.07	TOTLI	11	1.00	REARS	12	0.00
VELFN	1	1.00	SAL	2	2.52	TMPSG	3	1.00	TMPFN	4	1.00
KESG	5	1.00	KEFN	6	1.00	FNH4	7	189.04	FP04	8	8.49
SOD1D	9	2.17	SODTA	10	1.07	TOTLI	11	1.00	REARS	12	0.00
VELFN	1	1.00	SAL	2	2.01	TMPSG	3	1.00	TMPFN	4	1.00
KESG	5	1.00	KEFN	6	1.00	FNH4	7	63.44	FP04	8	2.85
SOD1D	9	0.73	SODTA	10	1.07	TOTLI	11	1.00	REARS	12	0.00
VELFN	1	1.00	SAL	2	1.54	TMPSG	3	1.00	TMPFN	4	1.00
KESG	5	1.00	KEFN	6	1.00	FNH4	7	63.44	FP04	8	2.85
SOD1D	9	0.73	SODTA	10	1.07	TOTLI	11	1.00	REARS	12	0.00
VELFN	1	1.00	SAL	2	1.09	TMPSG	3	1.00	TMPFN	4	1.00
KESG	5	1.00	KEFN	6	1.00	FNH4	7	63.44	FP04	8	2.85
SOD1D	9	0.73	SODTA	10	1.07	TOTLI	11	1.00	REARS	12	0.00
VELFN	1	1.00	SAL	2	0.60	TMPSG	3	1.00	TMPFN	4	1.00
KESG	5	1.00	KEFN	6	1.00	FNH4	7	63.44	FP04	8	2.85
SOD1D	9	0.73	SODTA	10	1.07	TOTLI	11	1.00	REARS	12	0.00
VELFN	1	1.00	SAL	2	0.52	TMPSG	3	1.00	TMPFN	4	1.00
KESG	5	1.00	KEFN	6	1.00	FNH4	7	63.44	FP04	8	2.85
SOD1D	9	0.73	SODTA	10	1.07	TOTLI	11	1.00	REARS	12	0.00
VELFN	1	1.00	SAL	2	0.42	TMPSG	3	1.00	TMPFN	4	2.00
KESG	5	1.00	KEFN	6	2.00	FNH4	7	50.91	FP04	8	5.63
SOD1D	9	0.72	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
VELFN	1	1.00	SAL	2	0.29	TMPSG	3	1.00	TMPFN	4	2.00
KESG	5	1.00	KEFN	6	2.00	FNH4	7	50.91	FP04	8	5.63
SOD1D	9	0.72	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
VELFN	1	1.00	SAL	2	0.18	TMPSG	3	1.00	TMPFN	4	2.00
KESG	5	1.00	KEFN	6	2.00	FNH4	7	50.91	FP04	8	5.63
SOD1D	9	0.72	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
VELFN	1	1.00	SAL	2	0.10	TMPSG	3	1.00	TMPFN	4	2.00
KESG	5	1.00	KEFN	6	2.00	FNH4	7	50.91	FP04	8	5.63
SOD1D	9	0.72	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
VELFN	1	1.00	SAL	2	0.00	TMPSG	3	1.00	TMPFN	4	2.00
KESG	5	1.00	KEFN	6	5.00	FNH4	7	25.20	FP04	8	2.79
SOD1D	9	0.35	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
VELFN	1	1.00	SAL	2	0.00	TMPSG	3	1.00	TMPFN	4	2.00
KESG	5	1.00	KEFN	6	4.00	FNH4	7	10.08	FP04	8	1.11
SOD1D	9	0.14	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
VELFN	1	1.00	SAL	2	0.00	TMPSG	3	1.00	TMPFN	4	2.00
KESG	5	1.00	KEFN	6	5.00	FNH4	7	25.20	FP04	8	2.79
SOD1D	9	0.35	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
VELFN	1	1.00	SAL	2	0.00	TMPSG	3	1.00	TMPFN	4	3.00
KESG	5	1.00	KEFN	6	4.00	FNH4	7	10.08	FP04	8	1.11
SOD1D	9	0.14	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
VELFN	1	1.00	SAL	2	6.17	TMPSG	3	1.00	TMPFN	4	1.00
KESG	5	1.00	KEFN	6	1.00	FNH4	7	189.04	FP04	8	8.49
SOD1D	9	2.17	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
VELFN	1	1.00	SAL	2	1.28	TMPSG	3	1.00	TMPFN	4	1.00

KESG	5	1.00	KEFN	6	1.00	FNH4	7	63.44	FP04	8	2.85
SOD1D	9	0.73	SODTA	10	1.07	TOTLI	11	1.00	REARS	12	0.00
25											
VELFN	1	1.00	SAL	2	1.15	TMPSG	3	1.00	TMPFN	4	1.00
KESG	5	1.00	KEFN	6	1.00	FNH4	7	63.44	FP04	8	2.85
SOD1D	9	0.73	SODTA	10	1.07	TOTLI	11	1.00	REARS	12	0.00
26											
VELFN	1	1.00	SAL	2	0.95	TMPSG	3	1.00	TMPFN	4	1.00
KESG	5	1.00	KEFN	6	1.00	FNH4	7	63.44	FP04	8	2.85
SOD1D	9	0.73	SODTA	10	1.07	TOTLI	11	1.00	REARS	12	0.00
27											
VELFN	1	1.00	SAL	2	0.73	TMPSG	3	1.00	TMPFN	4	2.00
KESG	5	1.00	KEFN	6	1.00	FNH4	7	63.44	FP04	8	2.85
SOD1D	9	0.73	SODTA	10	1.07	TOTLI	11	1.00	REARS	12	0.00
28											
VELFN	1	1.00	SAL	2	0.56	TMPSG	3	1.00	TMPFN	4	2.00
KESG	5	1.00	KEFN	6	3.00	FNH4	7	50.91	FP04	8	6.24
SOD1D	9	0.74	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
29											
VELFN	1	1.00	SAL	2	0.40	TMPSG	3	1.00	TMPFN	4	2.00
KESG	5	1.00	KEFN	6	3.00	FNH4	7	50.91	FP04	8	6.24
SOD1D	9	0.74	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
30											
VELFN	1	1.00	SAL	2	0.22	TMPSG	3	1.00	TMPFN	4	2.00
KESG	5	1.00	KEFN	6	3.00	FNH4	7	50.91	FP04	8	6.24
SOD1D	9	0.74	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
31											
VELFN	1	1.00	SAL	2	0.00	TMPSG	3	1.00	TMPFN	4	2.00
KESG	5	1.00	KEFN	6	3.00	FNH4	7	25.20	FP04	8	3.09
SOD1D	9	0.37	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
32											
VELFN	1	1.00	SAL	2	0.05	TMPSG	3	1.00	TMPFN	4	3.00
KESG	5	1.00	KEFN	6	3.00	FNH4	7	36.79	FP04	8	3.38
SOD1D	9	0.50	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
33											
VELFN	1	1.00	SAL	2	0.00	TMPSG	3	1.00	TMPFN	4	3.00
KESG	5	1.00	KEFN	6	3.00	FNH4	7	36.79	FP04	8	3.38
SOD1D	9	0.50	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
34											
VELFN	1	1.00	SAL	2	0.00	TMPSG	3	1.00	TMPFN	4	3.00
KESG	5	1.00	KEFN	6	4.00	FNH4	7	7.28	FP04	8	0.67
SOD1D	9	0.10	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
35											
VELFN	1	1.00	SAL	2	0.00	TMPSG	3	1.00	TMPFN	4	3.00
KESG	5	1.00	KEFN	6	4.00	FNH4	7	7.28	FP04	8	0.67
SOD1D	9	0.10	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
36											
VELFN	1	1.00	SAL	2	0.00	TMPSG	3	1.00	TMPFN	4	2.00
KESG	5	1.00	KEFN	6	3.00	FNH4	7	50.91	FP04	8	6.24
SOD1D	9	0.74	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
37											
VELFN	1	1.00	SAL	2	0.00	TMPSG	3	1.00	TMPFN	4	2.00
KESG	5	1.00	KEFN	6	3.00	FNH4	7	25.20	FP04	8	3.09
SOD1D	9	0.37	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
38											
VELFN	1	1.00	SAL	2	0.00	TMPSG	3	1.00	TMPFN	4	3.00
KESG	5	1.00	KEFN	6	4.00	FNH4	7	10.08	FP04	8	1.23
SOD1D	9	0.15	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
39											
VELFN	1	1.00	SAL	2	0.00	TMPSG	3	1.00	TMPFN	4	3.00
KESG	5	1.00	KEFN	6	4.00	FNH4	7	10.08	FP04	8	1.23
SOD1D	9	0.15	SODTA	10	1.07	TOTLI	11	0.80	REARS	12	0.00
40											

VELFN	1	1.00	SAL	2	0.00	TMP	SG	3	1.00	TMP	PFN	4	3.00
KESG	5	1.00	KEFN	6	4.00	FNH4		7	10.08	FP04		8	1.23
SOD1D	9	0.15	SODTA	10	1.07	TOTLI		11	0.80	REARS		12	0.00
	41												
VELFN	1	1.00	SAL	2	0.42	TMP	SG	3	1.00	TMP	PFN	4	1.00
KESG	5	1.00	KEFN	6	2.00	FNH4		7	63.44	FP04		8	2.85
SOD1D	9	0.73	SODTA	10	1.07	TOTLI		11	0.80	REARS		12	0.00
	42												
VELFN	1	1.00	SAL	2	0.28	TMP	SG	3	1.00	TMP	PFN	4	2.00
KESG	5	1.00	KEFN	6	2.00	FNH4		7	63.44	FP04		8	2.85
SOD1D	9	0.73	SODTA	10	1.07	TOTLI		11	0.80	REARS		12	0.00
	43												
VELFN	1	1.00	SAL	2	0.17	TMP	SG	3	1.00	TMP	PFN	4	2.00
KESG	5	1.00	KEFN	6	2.00	FNH4		7	63.44	FP04		8	2.85
SOD1D	9	0.73	SODTA	10	1.07	TOTLI		11	0.80	REARS		12	0.00
	44												
VELFN	1	1.00	SAL	2	0.11	TMP	SG	3	1.00	TMP	PFN	4	2.00
KESG	5	1.00	KEFN	6	2.00	FNH4		7	63.44	FP04		8	2.85
SOD1D	9	0.73	SODTA	10	1.07	TOTLI		11	0.80	REARS		12	0.00
	45												
VELFN	1	1.00	SAL	2	0.00	TMP	SG	3	1.00	TMP	PFN	4	2.00
KESG	5	1.00	KEFN	6	4.00	FNH4		7	43.07	FP04		8	3.08
SOD1D	9	0.45	SODTA	10	1.07	TOTLI		11	0.80	REARS		12	0.00
	46												
VELFN	1	1.00	SAL	2	0.00	TMP	SG	3	1.00	TMP	PFN	4	3.00
KESG	5	1.00	KEFN	6	4.00	FNH4		7	17.22	FP04		8	1.23
SOD1D	9	0.18	SODTA	10	1.07	TOTLI		11	0.80	REARS		12	0.00
	47												
VELFN	1	1.00	SAL	2	0.00	TMP	SG	3	1.00	TMP	PFN	4	3.00
KESG	5	1.00	KEFN	6	4.00	FNH4		7	17.22	FP04		8	1.23
SOD1D	9	0.18	SODTA	10	1.07	TOTLI		11	0.80	REARS		12	0.00
	48												
VELFN	1	1.00	SAL	2	0.00	TMP	SG	3	1.00	TMP	PFN	4	3.00
KESG	5	1.00	KEFN	6	4.00	FNH4		7	17.22	FP04		8	1.23
SOD1D	9	0.18	SODTA	10	1.07	TOTLI		11	0.80	REARS		12	0.00
	49												
VELFN	1	1.00	SAL	2	0.00	TMP	SG	3	1.00	TMP	PFN	4	3.00
KESG	5	1.00	KEFN	6	4.00	FNH4		7	17.22	FP04		8	1.23
SOD1D	9	0.18	SODTA	10	1.07	TOTLI		11	0.80	REARS		12	0.00
	50												
VELFN	1	1.00	SAL	2	0.00	TMP	SG	3	1.00	TMP	PFN	4	3.00
KESG	5	1.00	KEFN	6	4.00	FNH4		7	17.22	FP04		8	1.23
SOD1D	9	0.18	SODTA	10	1.07	TOTLI		11	0.80	REARS		12	0.00
	51												
VELFN	1	1.00	SAL	2	0.00	TMP	SG	3	1.00	TMP	PFN	4	3.00
KESG	5	1.00	KEFN	6	4.00	FNH4		7	17.22	FP04		8	1.23
SOD1D	9	0.18	SODTA	10	1.07	TOTLI		11	0.80	REARS		12	0.00
	52												
VELFN	1	1.00	SAL	2	0.00	TMP	SG	3	1.00	TMP	PFN	4	3.00
KESG	5	1.00	KEFN	6	4.00	FNH4		7	17.22	FP04		8	1.23
SOD1D	9	0.18	SODTA	10	1.07	TOTLI		11	0.80	REARS		12	0.00
	53												
VELFN	1	1.00	SAL	2	0.00	TMP	SG	3	1.00	TMP	PFN	4	3.00
KESG	5	1.00	KEFN	6	4.00	FNH4		7	17.22	FP04		8	1.23
SOD1D	9	0.18	SODTA	10	1.07	TOTLI		11	0.80	REARS		12	0.00
	54												
VELFN	1	1.00	SAL	2	0.00	TMP	SG	3	1.00	TMP	PFN	4	3.00
KESG	5	1.00	KEFN	6	4.00	FNH4		7	11.44	FP04		8	1.21
SOD1D	9	0.16	SODTA	10	1.07	TOTLI		11	0.80	REARS		12	0.00
	55												
VELFN	1	1.00	SAL	2	0.00	TMP	SG	3	1.00	TMP	PFN	4	3.00
KESG	5	1.00	KEFN	6	4.00	FNH4		7	11.44	FP04		8	1.21
SOD1D	9	0.16	SODTA	10	1.07	TOTLI		11	0.80	REARS		12	0.00

56								
VELFN	1	1.00	SAL	2	0.00	TMP	SG	3
KESG	5	1.00	KEFN	6	4.00	FNH4		7
SOD1D	9	0.16	SODTA	10	1.07	TOTLI		11
57								
VELFN	1	1.00	SAL	2	0.00	TMP	SG	3
KESG	5	1.00	KEFN	6	4.00	FNH4		7
SOD1D	9	0.16	SODTA	10	1.07	TOTLI		11
58								
VELFN	1	1.00	SAL	2	0.00	TMP	SG	3
KESG	5	1.00	KEFN	6	4.00	FNH4		7
SOD1D	9	0.16	SODTA	10	1.07	TOTLI		11
59								
VELFN	1	1.00	SAL	2	0.00	TMP	SG	3
KESG	5	1.00	KEFN	6	4.00	FNH4		7
SOD1D	9	0.16	SODTA	10	1.07	TOTLI		11
60								
VELFN	1	0.00	SAL	2	0.00	TMP	SG	3
KESG	5	0.00	KEFN	6	0.00	FNH4		7
SOD1D	9	0.00	SODTA	10	0.00	TOTLI		11

H: CONSTANTS

GLOBAL	0			
NH3	1			
CONSTANTS	3			
K12C	11	0.500	K12T	12
KNIT	13	1.000		
N023	1			
CONSTANTS	3			
K20C	21	0.045	K20T	22
KN03	23	0.100		
P04	0			
PHYT	2			
Grp 1	9			
K1C	41	1.700	K1T	42
LGHTS	43	1.000	PHIMX	44
XKC	45	0.017	CCHL1	46
IS1	47	350.000	KMNG1	48
KMG1	49	0.001		
Grp 2	10			
K1RC	50	0.150	K1RT	51
K1D	52	0.100	K1G	53
NUTLI	54	0.000	KPZDC	55
KPZDT	56	1.000	PCRB1	57
NCRB1	58	0.176	KMPHY	59
CBOD	1			
Grp 1	5			
KDC	71	0.150	KDT	72
KDSC	73	0.000	KDST	74
KBOD	75	0.500		
DO	1			
Grp 1	2			
OCRB	81	2.670	K2	82
OrgN	1			
Grp 1	5			
K71C	91	0.075	K71T	92
KONDC	93	0.000	KONDT	94
FON	95	0.500		
OrgP	1			
Grp 1	5			
K83C	100	0.075	K83T	101
KOPDC	102	0.000	KOPDT	103
FOP	104	0.500		

I: KINETIC TIME FUNCTIONS

TEMP1	16	1						
	15.74	0.00	16.95	15.00	18.24	30.00	19.17	45.00
	20.00	60.00	20.83	75.00	21.67	90.00	20.37	105.00
	17.66	120.00	14.94	135.00	12.23	150.00	10.12	165.00
	9.24	180.00	8.36	195.00	7.48	210.00	7.25	220.00
TEMP2	16	2						
	19.81	0.00	22.63	15.00	25.65	30.00	25.35	45.00
	24.21	60.00	23.08	75.00	21.95	90.00	19.99	105.00
	17.47	120.00	14.95	135.00	12.43	150.00	10.36	165.00
	9.18	180.00	8.00	195.00	6.81	210.00	6.50	220.00
TEMP3	16	3						
	17.61	0.00	18.88	15.00	20.23	30.00	20.31	45.00
	20.07	60.00	19.83	75.00	19.60	90.00	18.27	105.00
	16.22	120.00	14.17	135.00	12.12	150.00	10.44	165.00
	9.51	180.00	8.58	195.00	7.65	210.00	7.40	220.00
TEMP4	16	4						
	0.00	0.00	0.00	15.00	0.00	30.00	0.00	45.00
	0.00	60.00	0.00	75.00	0.00	90.00	0.00	105.00
	0.00	120.00	0.00	135.00	0.00	150.00	0.00	165.00
	0.00	180.00	0.00	195.00	0.00	210.00	0.00	220.00
ITOT	16	5						
	415.01	0.00	517.50	15.00	571.05	30.00	660.10	45.00
	573.45	60.00	450.71	75.00	456.75	90.00	365.49	105.00
	333.62	120.00	240.87	135.00	197.80	150.00	142.40	165.00
	158.37	180.00	128.64	195.00	144.38	210.00	138.23	220.00
F	16	6						
	0.61	0.00	0.62	15.00	0.61	30.00	0.60	45.00
	0.58	60.00	0.56	75.00	0.53	90.00	0.50	105.00
	0.47	120.00	0.44	135.00	0.42	150.00	0.40	165.00
	0.39	180.00	0.38	195.00	0.38	210.00	0.39	220.00
WIND	16	7						
	1.50	0.00	1.50	15.00	1.50	30.00	1.50	45.00
	1.50	60.00	1.50	75.00	1.50	90.00	1.50	105.00
	1.50	120.00	1.50	135.00	1.50	150.00	1.50	165.00
	1.50	180.00	1.50	195.00	1.50	210.00	1.50	220.00
KE1	16	8						
	4.31	0.00	4.36	15.00	4.41	30.00	4.66	45.00
	4.98	60.00	5.31	75.00	5.63	90.00	5.96	105.00
	6.29	120.00	6.62	135.00	6.95	150.00	7.07	165.00
	6.78	180.00	6.49	195.00	6.20	210.00	6.12	220.00
KE2	16	9						
	3.51	0.00	3.51	15.00	3.51	30.00	3.51	45.00
	3.51	60.00	3.51	75.00	3.51	90.00	3.51	105.00
	3.51	120.00	3.51	135.00	3.51	150.00	3.32	165.00
	2.74	180.00	2.16	195.00	1.59	210.00	1.43	220.00
KE3	16	10						
	3.73	0.00	3.73	15.00	3.73	30.00	3.73	45.00
	3.73	60.00	3.73	75.00	3.73	90.00	3.73	105.00
	3.73	120.00	3.73	135.00	3.73	150.00	3.52	165.00
	2.87	180.00	2.22	195.00	1.58	210.00	1.41	220.00
KE4	16	11						
	1.00	0.00	1.00	15.00	1.00	30.00	1.00	45.00
	1.00	60.00	1.00	75.00	1.00	90.00	1.00	105.00
	1.00	120.00	1.00	135.00	1.00	150.00	1.00	165.00
	1.00	180.00	1.00	195.00	1.00	210.00	1.00	220.00
KE5	16	12						
	2.00	0.00	2.00	15.00	2.00	30.00	2.00	45.00
	2.00	60.00	2.00	75.00	2.00	90.00	2.00	105.00
	2.00	120.00	2.00	135.00	2.00	150.00	2.00	165.00
	2.00	180.00	2.00	195.00	2.00	210.00	2.00	220.00
TFNH3	16	13						
	0.84	0.00	0.96	15.00	1.11	30.00	1.13	45.00
	1.12	60.00	1.10	75.00	1.09	90.00	0.97	105.00

TFP04	0.80	120.00	0.66	135.00	0.55	150.00	0.47	165.00	
	0.44	180.00	0.41	195.00	0.38	210.00	0.37	220.00	
	16	14							
	0.84	0.00	0.96	15.00	1.11	30.00	1.13	45.00	
	1.12	60.00	1.10	75.00	1.09	90.00	0.97	105.00	
VELN1	0.80	120.00	0.66	135.00	0.55	150.00	0.47	165.00	
	0.44	180.00	0.41	195.00	0.38	210.00	0.37	220.00	
	16	15							
	0.00	0.00	0.00	15.00	0.00	30.00	0.00	45.00	
	0.00	60.00	0.00	75.00	0.00	90.00	0.00	105.00	
VELN2	0.00	120.00	0.00	135.00	0.00	150.00	0.00	165.00	
	0.00	180.00	0.00	195.00	0.00	210.00	0.00	220.00	
	16	16							
	0.00	0.00	0.00	15.00	0.00	30.00	0.00	45.00	
	0.00	60.00	0.00	75.00	0.00	90.00	0.00	105.00	
VELN3	0.00	120.00	0.00	135.00	0.00	150.00	0.00	165.00	
	0.00	180.00	0.00	195.00	0.00	210.00	0.00	220.00	
	16	17							
	0.00	0.00	0.00	15.00	0.00	30.00	0.00	45.00	
	0.00	60.00	0.00	75.00	0.00	90.00	0.00	105.00	
VELN4	0.00	120.00	0.00	135.00	0.00	150.00	0.00	165.00	
	0.00	180.00	0.00	195.00	0.00	210.00	0.00	220.00	
	16	18							
	0.00	0.00	0.00	15.00	0.00	30.00	0.00	45.00	
	0.00	60.00	0.00	75.00	0.00	90.00	0.00	105.00	
Z00	0.00	120.00	0.00	135.00	0.00	150.00	0.00	165.00	
	0.00	180.00	0.00	195.00	0.00	210.00	0.00	220.00	
	16	19							
	0.00	0.00	0.00	15.00	0.00	30.00	0.00	45.00	
	0.00	60.00	0.00	75.00	0.00	90.00	0.00	105.00	
SALFN	0.00	120.00	0.00	135.00	0.00	150.00	0.00	165.00	
	0.00	180.00	0.00	195.00	0.00	210.00	0.00	220.00	
	16	20							
	1.17	0.00	1.18	15.00	1.18	30.00	1.14	45.00	
	1.08	60.00	1.02	75.00	0.96	90.00	0.97	105.00	
AIR	1.03	120.00	1.09	135.00	1.14	150.00	1.18	165.00	
	1.18	180.00	1.18	195.00	1.17	210.00	1.17	220.00	
	16	21							
	15.79	0.00	17.79	15.00	19.93	30.00	20.18	45.00	
	19.96	60.00	19.74	75.00	19.52	90.00	18.01	105.00	
ICE	15.64	120.00	13.27	135.00	10.90	150.00	9.14	165.00	
	8.60	180.00	8.07	195.00	7.53	210.00	7.38	220.00	
	16	22							
	1.00	0.00	1.00	15.00	1.00	30.00	1.00	45.00	
	1.00	60.00	1.00	75.00	1.00	90.00	1.00	105.00	
NH3	1.00	120.00	1.00	135.00	1.00	150.00	1.00	165.00	
	1.00	180.00	1.00	195.00	1.00	210.00	1.00	220.00	
	J: INITIAL CONDITION								
	1	0.41	1.00	2	0.33	1.00	3	0.25	1.00
	4	0.26	1.00	5	0.26	1.00	6	0.27	1.00
	7	0.28	1.00	8	0.27	1.00	9	0.25	1.00
	10	0.25	1.00	11	0.24	1.00	12	0.24	1.00
	13	0.24	1.00	14	0.21	1.00	15	0.18	1.00
	16	0.14	1.00	17	0.11	1.00	18	0.08	1.00
	19	0.05	1.00	20	0.05	1.00	21	0.05	1.00
	22	0.05	1.00	23	0.28	1.00	24	0.24	1.00
	25	0.23	1.00	26	0.22	1.00	27	0.21	1.00
	28	0.20	1.00	29	0.19	1.00	30	0.18	1.00
	31	0.16	1.00	32	0.05	1.00	33	0.05	1.00
	34	0.05	1.00	35	0.05	1.00	36	0.04	1.00
34	0.04	1.00	38	0.05	1.00	39	0.05	1.00	
40	0.05	1.00	41	0.18	1.00	42	0.13	1.00	
43	0.10	1.00	44	0.08	1.00	45	0.04	1.00	

46	0.08	1.00	47	0.08	1.00	48	0.62	1.00
49	1.05	1.00	50	1.85	1.00	51	1.85	1.00
52	2.28	1.00	53	2.65	1.00	54	0.05	1.00
55	0.05	1.00	56	0.05	1.00	57	0.05	1.00
58	0.05	1.00	59	0.05	1.00	60	0.00	1.00
N023			3 0 2000			J: INITIAL CONDITION		
1	0.20	1.00	2	0.21	1.00	3	0.22	1.00
4	0.31	1.00	5	0.38	1.00	6	0.44	1.00
7	0.50	1.00	8	0.54	1.00	9	0.58	1.00
10	0.71	1.00	11	0.83	1.00	12	0.95	1.00
13	1.07	1.00	14	1.16	1.00	15	1.26	1.00
16	1.40	1.00	17	1.51	1.00	18	1.60	1.00
19	1.71	1.00	20	1.91	1.00	21	2.11	1.00
22	2.35	1.00	23	0.50	1.00	24	1.02	1.00
25	1.40	1.00	26	1.96	1.00	27	2.57	1.00
28	3.05	1.00	29	3.52	1.00	30	4.04	1.00
31	4.65	1.00	32	2.41	1.00	33	2.41	1.00
34	2.41	1.00	35	2.41	1.00	36	3.64	1.00
34	3.64	1.00	38	2.35	1.00	39	2.35	1.00
40	2.35	1.00	41	1.43	1.00	42	1.80	1.00
43	2.09	1.00	44	2.26	1.00	45	2.56	1.00
46	3.83	1.00	47	3.83	1.00	48	3.42	1.00
49	3.09	1.00	50	2.48	1.00	51	2.48	1.00
52	2.15	1.00	53	1.87	1.00	54	2.41	1.00
55	2.41	1.00	56	2.41	1.00	57	2.41	1.00
58	2.41	1.00	59	2.41	1.00	60	0.00	1.00
P04			3 0 2000			J: INITIAL CONDITION		
1	0.01	1.00	2	0.01	1.00	3	0.01	1.00
4	0.02	1.00	5	0.02	1.00	6	0.02	1.00
7	0.02	1.00	8	0.02	1.00	9	0.02	1.00
10	0.02	1.00	11	0.02	1.00	12	0.02	1.00
13	0.03	1.00	14	0.02	1.00	15	0.02	1.00
16	0.02	1.00	17	0.02	1.00	18	0.01	1.00
19	0.01	1.00	20	0.02	1.00	21	0.04	1.00
22	0.05	1.00	23	0.02	1.00	24	0.02	1.00
25	0.02	1.00	26	0.02	1.00	27	0.02	1.00
28	0.02	1.00	29	0.02	1.00	30	0.02	1.00
31	0.02	1.00	32	0.03	1.00	33	0.03	1.00
34	0.03	1.00	35	0.03	1.00	36	0.02	1.00
34	0.02	1.00	38	0.05	1.00	39	0.05	1.00
40	0.05	1.00	41	0.02	1.00	42	0.02	1.00
43	0.02	1.00	44	0.02	1.00	45	0.01	1.00
46	0.03	1.00	47	0.03	1.00	48	0.03	1.00
49	0.03	1.00	50	0.03	1.00	51	0.03	1.00
52	0.03	1.00	53	0.03	1.00	54	0.03	1.00
55	0.03	1.00	56	0.03	1.00	57	0.03	1.00
58	0.03	1.00	59	0.03	1.00	60	0.00	1.00
PHYT			3 0 2000			J: INITIAL CONDITION		
1	35.00	0.00	2	29.68	0.00	3	24.00	0.00
4	21.39	0.00	5	19.37	0.00	6	17.58	0.00
7	16.00	0.00	8	14.60	0.00	9	13.00	0.00
10	18.00	0.00	11	22.69	0.00	12	27.15	0.00
13	32.00	0.00	14	35.26	0.00	15	39.30	0.00
16	44.29	0.00	17	48.65	0.00	18	52.04	0.00
19	56.00	0.00	20	39.48	0.00	21	22.66	0.00
22	3.00	0.00	23	16.00	0.00	24	13.00	0.00
25	13.00	0.00	26	13.00	0.00	27	13.00	0.00
28	13.00	0.00	29	13.00	0.00	30	13.00	0.00
31	13.00	0.00	32	109.00	0.00	33	109.00	0.00
34	109.00	0.00	35	109.00	0.00	36	43.00	0.00
34	43.00	0.00	38	3.00	0.00	39	3.00	0.00
40	3.00	0.00	41	43.43	0.00	42	54.48	0.00
43	63.08	0.00	44	67.99	0.00	45	77.00	0.00

46	3.00	0.00	47	3.00	0.00	48	3.00	0.00
49	3.00	0.00	50	3.00	0.00	51	3.00	0.00
52	3.00	0.00	53	3.00	0.00	54	15.00	0.00
55	15.00	0.00	56	15.00	0.00	57	15.00	0.00
58	15.00	0.00	59	15.00	0.00	60	0.00	0.00
CBOD20			3 0 2000			J: INITIAL CONDITION		
1	6.40	0.95	2	7.46	0.95	3	8.60	0.95
4	8.21	0.95	5	7.91	0.95	6	7.64	0.95
7	7.40	0.95	8	6.28	0.95	9	5.00	0.95
10	5.68	0.95	11	6.33	0.95	12	6.94	0.95
13	7.60	0.95	14	7.71	0.95	15	7.84	0.95
16	8.01	0.95	17	8.15	0.95	18	8.27	0.95
19	8.40	0.95	20	7.96	0.95	21	7.52	0.95
22	7.00	0.95	23	7.40	0.95	24	4.85	0.95
25	4.72	0.95	26	4.53	0.95	27	4.31	0.95
28	4.15	0.95	29	3.99	0.95	30	3.81	0.95
31	3.60	0.95	32	7.40	0.95	33	7.40	0.95
34	7.40	0.95	35	7.40	0.95	36	7.80	0.95
34	7.80	0.95	38	7.00	0.95	39	7.00	0.95
40	7.00	0.95	41	7.55	0.95	42	7.34	0.95
43	7.17	0.95	44	7.07	0.95	45	6.90	0.95
46	6.60	0.95	47	6.60	0.95	48	6.75	0.95
49	6.86	0.95	50	7.08	0.95	51	7.08	0.95
52	7.20	0.95	53	7.30	0.95	54	7.40	0.95
55	7.40	0.95	56	7.40	0.95	57	7.40	0.95
58	7.40	0.95	59	7.40	0.95	60	0.00	0.95
DO			3 0 2000			J: INITIAL CONDITION		
1	3.70	1.00	2	3.60	1.00	3	3.50	1.00
4	3.50	1.00	5	3.50	1.00	6	3.50	1.00
7	3.50	1.00	8	4.11	1.00	9	4.80	1.00
10	5.12	1.00	11	5.41	1.00	12	5.69	1.00
13	6.00	1.00	14	6.10	1.00	15	6.21	1.00
16	6.36	1.00	17	6.49	1.00	18	6.58	1.00
19	6.70	1.00	20	6.61	1.00	21	6.51	1.00
22	6.40	1.00	23	3.50	1.00	24	5.16	1.00
25	5.46	1.00	26	5.92	1.00	27	6.42	1.00
28	6.81	1.00	29	7.18	1.00	30	7.60	1.00
31	8.10	1.00	32	6.10	1.00	33	6.10	1.00
34	6.10	1.00	35	6.10	1.00	36	5.60	1.00
34	5.60	1.00	38	6.40	1.00	39	6.40	1.00
40	6.40	1.00	41	6.45	1.00	42	6.93	1.00
43	7.30	1.00	44	7.51	1.00	45	7.90	1.00
46	6.90	1.00	47	6.90	1.00	48	6.46	1.00
49	6.11	1.00	50	5.46	1.00	51	5.46	1.00
52	5.10	1.00	53	4.80	1.00	54	6.10	1.00
55	6.10	1.00	56	6.10	1.00	57	6.10	1.00
58	6.10	1.00	59	6.10	1.00	60	0.00	1.00
Org N			3 0 2000			J: INITIAL CONDITION		
1	0.12	0.75	2	0.21	0.75	3	0.31	0.75
4	0.34	0.75	5	0.37	0.75	6	0.39	0.75
7	0.41	0.75	8	0.49	0.75	9	0.58	0.75
10	0.49	0.75	11	0.40	0.75	12	0.32	0.75
13	0.23	0.75	14	0.29	0.75	15	0.37	0.75
16	0.47	0.75	17	0.55	0.75	18	0.61	0.75
19	0.69	0.75	20	0.68	0.75	21	0.68	0.75
22	0.67	0.75	23	0.41	0.75	24	0.56	0.75
25	0.55	0.75	26	0.52	0.75	27	0.49	0.75
28	0.47	0.75	29	0.45	0.75	30	0.43	0.75
31	0.40	0.75	32	0.40	0.75	33	0.40	0.75
34	0.40	0.75	35	0.40	0.75	36	0.71	0.75
34	0.71	0.75	38	0.67	0.75	39	0.67	0.75
40	0.67	0.75	41	0.32	0.75	42	0.36	0.75
43	0.39	0.75	44	0.40	0.75	45	0.43	0.75

46	0.55	0.75	47	0.55	0.75	48	0.44	0.75
49	0.35	0.75	50	0.17	0.75	51	0.17	0.75
52	0.08	0.75	53	0.00	0.75	54	0.40	0.75
55	0.40	0.75	56	0.40	0.75	57	0.40	0.75
58	0.40	0.75	59	0.40	0.75	60	0.00	0.75
Org P				3	0	2000	J: INITIAL	CONDITION
1	0.52	0.75	2	0.47	0.75	3	0.42	0.75
4	0.40	0.75	5	0.37	0.75	6	0.36	0.75
7	0.34	0.75	8	0.26	0.75	9	0.18	0.75
10	0.17	0.75	11	0.16	0.75	12	0.16	0.75
13	0.15	0.75	14	0.13	0.75	15	0.11	0.75
16	0.08	0.75	17	0.05	0.75	18	0.03	0.75
19	0.01	0.75	20	0.03	0.75	21	0.05	0.75
22	0.08	0.75	23	0.34	0.75	24	0.16	0.75
25	0.14	0.75	26	0.12	0.75	27	0.09	0.75
28	0.07	0.75	29	0.05	0.75	30	0.03	0.75
31	0.00	0.75	32	0.01	0.75	33	0.01	0.75
34	0.01	0.75	35	0.01	0.75	36	0.01	0.75
34	0.01	0.75	38	0.08	0.75	39	0.08	0.75
40	0.08	0.75	41	0.11	0.75	42	0.08	0.75
43	0.05	0.75	44	0.04	0.75	45	0.02	0.75
46	0.01	0.75	47	0.01	0.75	48	0.01	0.75
49	0.01	0.75	50	0.01	0.75	51	0.01	0.75
52	0.01	0.75	53	0.01	0.75	54	0.01	0.75
55	0.01	0.75	56	0.01	0.75	57	0.01	0.75
58	0.01	0.75	59	0.01	0.75	60	0.00	0.75