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EFFECT OF DIVERTING MISSISSIPPI RIVER WATER TO TEXAS ON SEDIMENTATION IN THE RIVER

BY

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for

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Summary

The proposed diversion of water from the lower Mississippi River to Texas and eastern New Mexico will affect the discharge and sedimentation characteristics of the River. An empirical relationship between discharge, depth, and flow velocity was determined by regression analysis in the form of a non-linear mathematical model. By use of this model the daily flow velocity and water depth at Coochie, Tarbert's Landing, Red River above Old River, and Simmesport were obtained and tabulated.

An attempt has been made to estimate the parameters of a non-linear system relating the sediment concentration to the velocity, depth, energy slope, and settling velocity at these four stations. Although there was a mathematical relationship, it is impractical. However, it seems certain that a decline in flow discharge results in a decline of sediment concentration.

While it is possible to forecast with some certainty the total discharge in the River, it is impossible to predict any other changes that would occur should the discharges of water, sediment sizes, flow velocities, bed, channel and bank resistance be changed.

Background

In northern Minnesota lies Lake Itasca, where the 10-ft wide Mississippi River begins. It flows northward toward Bemidji over rapids and through water grass and reeds, and then streams eastward. The Mesabi Range rainwater joins the Mississippi River and commits it to southward trenching (Fig. 1). It meanders through a winding course of 500 miles before it becomes navigable. The river is a quarter-mile in width and augmented by many small tributaries; it cascades 65 feet over rocks and boulders for three-quarters of a mile, creating St. Anthony's Falls, which is 1,970 miles from the mouth of the Mississippi.

At St. Paul, the Minnesota River pours its water from the west into the Mississippi and, farther down, the St. Croix does the same from the east. The Missouri River emerges above St. Louis after traveling twice as far as the Mississippi and with its burly, muddy water it changes the characteristics of the Mississippi. The two different streams bicker along together for miles before uniting. Thirty miles below St. Louis, the river arrives at what was once its end, for here begins one of the greatest alluvial valleys of the world.

A continent once ended where the lower Mississippi begins. Fifty thousand years ago a great inland sea covered what are now the prairies of Illinois, Indiana, Missouri and Iowa--a sea that was level with and linked to Lake Michigan (Carter, 1942, p. 3).

The segment between the Missouri and Ohio Rivers is sometimes called the Middle River. This segment is far different from the upper part of the Mississippi River because of its turbulence (Carter, 1962, p. 5). The Ohio River emerges, joins and contributes more water than does the Missouri.

The course which the Mississippi takes from Cairo to its ever-extending mouth is called the lower Mississippi. The river continues between its banks through the Delta as a well-defined channel, until it reaches what is known as the Passes. There, it divides into three distinct channels, known respectively as the South, Southeast, and Southwest; the middle or South Pass is the navigable channel, which has been deepened and kept open by the construction of jetties at its mouth and by dikes throughout its length and at its entrance.

While there are many dams on the Mississippi River, they do not interrupt the flow of sediment as do those of many other large rivers. Deposits of sediment have pushed the delta farther and farther south, laid down a mud plain 20-80 miles wide and lengthened the river by some thousand miles (Price, 1970, p. 16). The sediment carried by the rivers became in time the banks of a doomed estuary and the uncertain earth of an encroaching valley, the estuary retreating as the lengthening river pushed and built southward for more than 1,200 miles.

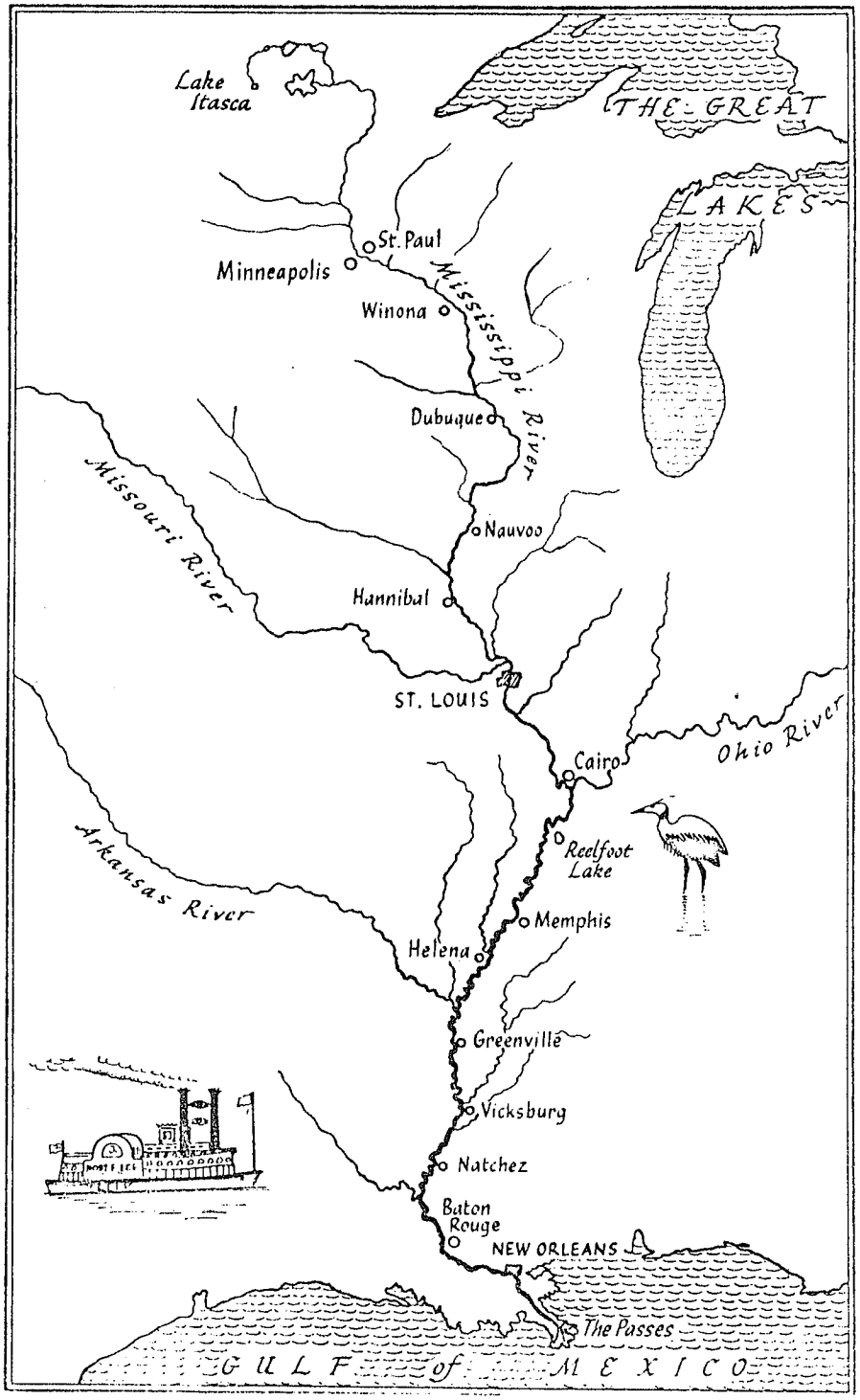

Figure 1. Mississippi River and Its Major Tributaries (from Price, Willard, 1962, The Amazing Mississippi)

Impact of the River

Discovered by DeSoto in 1541, America's greatest river made major contributions to the physical and economic growth of the nation. It is one of the nation's outstanding assets (Mississippi River Commission, 1967, p. 3).

The Mississippi River is of vast economic importance to the nation. It is the source of huge daily flow, averaging 600,000 cfs, suitable for irrigation, industrial and municipal uses. It is navigable by vessel up to Baton Rouge, and by barge for nearly the entire length of the river.

Eighty miles above Baton Rouge, the Old River is a 7-mile stream connecting the Mississippi with the Red River and the Atchafalaya. The direction of flow in Old River varied, depending upon whether the Mississippi was high and the Red River low, in which case flow was to the Atchafalaya. When the Red River was high and the Mississippi low, flow was to the Mississippi. As the flow in the Mississippi is high and the flow in the Red River low more often than not, the Atchafalaya River began enlarging itself through the capture of increasingly greater amounts of the Mississippi's flow.

Changing conditions of the lower Mississippi River have been under observation by the Corps of Engineers, U.S. Army, for the last 50 years. In 1950 a major definitive study was begun to determine the threat of the Mississippi River changing its course to flow through the Atchafalaya River.

At the same time a huge industrial complex was created, particularly in the area along the Mississippi from Baton Rouge to New Orleans, because of the ample supply of fresh water and a dependable navigation system. In addition, industrial demands for Mississippi River water increased. Had the Atchafalaya captured the Mississippi, a disaster of catastrophic proportions would have occurred. The existing industrial complex would have been destroyed, resulting in economic demise for the area in the future. The findings left no doubt that the Atchafalaya River would become the main channel of the Mississippi River below Old River. The flow in the Mississippi River would decrease and sediment channel would be unavoidable. Navigation would be impossible. The Mississippi River below Old River would become a salt-water estuary.

After studying all possible solutions, the Mississippi River Commission recommended that the uncontrolled link with Old River be dammed and replaced with a controlled connection that would make it possible to divert the optimum amounts of water into the Atchafalaya Basin. Low-sill and overbank structures were built to pass medium flows and flood flows from the Mississippi to the Atchafalaya River in a controlled manner. Inflow and outflow channels were constructed connecting the low-sill structure with the Mississippi and Red-Atchafalaya Rivers (Fig. 2) (Mississippi River Commission, 1967, p. 16).

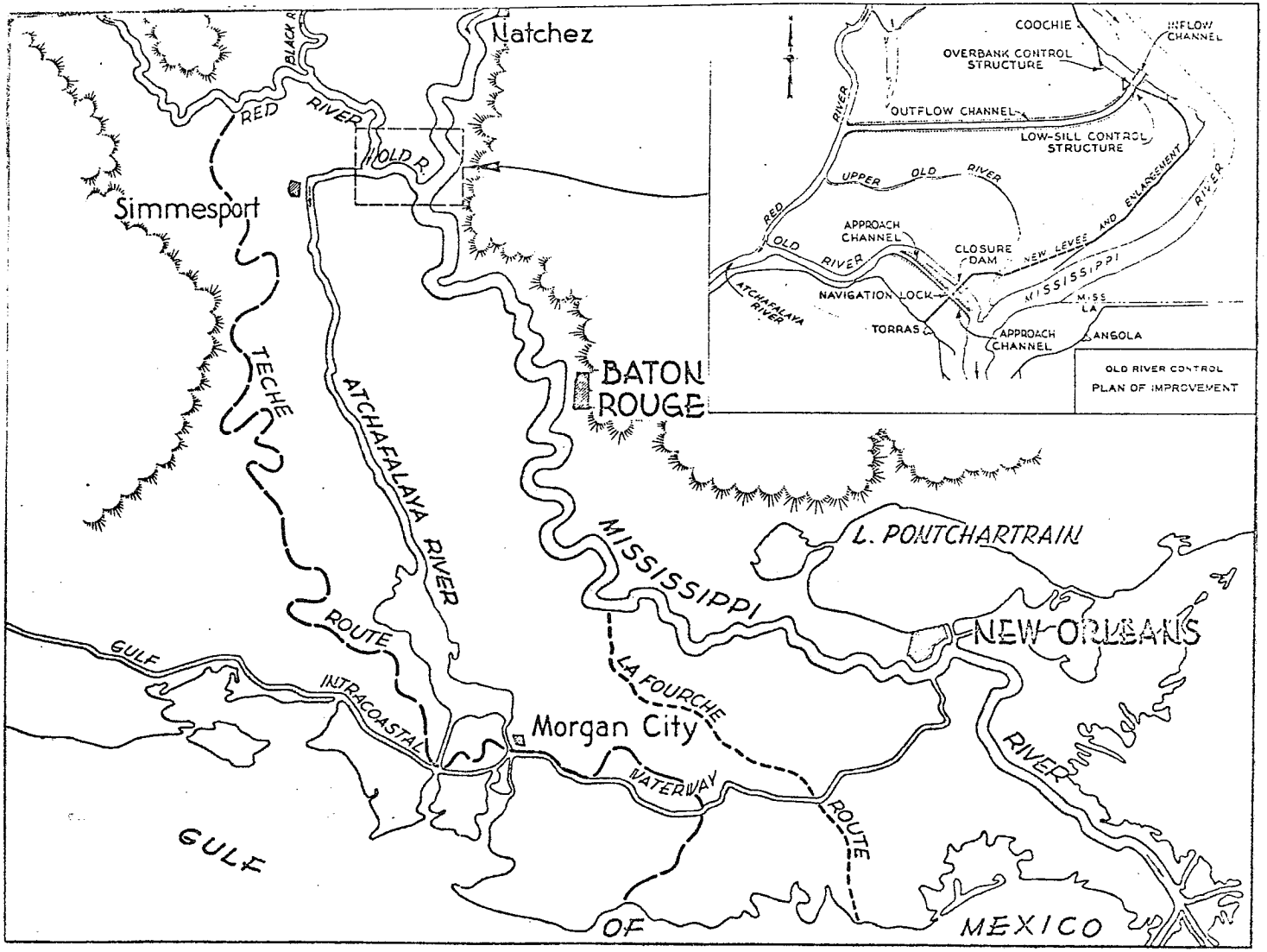

Figure 2. Old River Improvement Plan
(from Mississippi River Commission, 1967, p. 16)

General

In a description of the flow of the Mississippi River, many factors affect the channel characteristics directly or indirectly. The most important are the river discharge, slope, temperature, and nature and amount of sediment load. The interrelation between these factors is very complex. Though the river discharge is the most obvious factor in determining the stream form, the discharge depends on the resistance of the banks and bed slope to the flow movement. Velocity is the most representative parameter in the transport of suspended sediment; depth is probably the next most important variable. Temperature and boundary geology no doubt represent other factors to be seriously considered.

Sediment transported by the Mississippi River moves as suspended material or along the bottom as bed load. An average sediment load of about 300 million tons a year is carried by the river and is ultimately deposited in the river delta or the Gulf of Mexico.

The amount of suspended material carried by the river is dependent upon streamflow, water turbulence, sediment particle size, and water temperature. Generally, concentrations of sediment increase as discharge increases; however, the concentration of sediment depends on whether the discharge is increasing or decreasing. On a rising stage, concentration of sediment is greater than at a corresponding discharge on a falling stage. Peak sediment concentrations in the Mississippi River usually occur before peak discharge. During the initial increase in flow the concentration of sediment increases rapidly, and as long as the supply of sediment particles of a size that the river is capable of transporting is sufficient to meet the carrying capacity of the river, the concentration will continue to rise at a rapid rate. However, because the supply is generally less than the river can transport, the concentration of sediment will decrease as the flow continues to increase and will continue to decrease as the discharge decreases.

Though there were enough data on the discharge in the Mississippi River and how much should or should not be diverted, an almost complete silence prevailed about the river-water quality in general and the sedimentation in particular. With huge amounts of sediment carried by flow every year, it is expected that any change in flow characteristics will undoubtedly change the sediment load. The main objective of this research was to develop a mathematical model of sedimentation in the Mississippi River. In addition, a prediction of what might happen to the water characteristics and the river regime under the proposed plan of diversion was to have been made.

Purpose of the Research

In 1967 Congress passed a resolution requesting that the Secretary of the Army, acting through the Chief of Engineers and the Mississippi River Commission, participate with concerned Federal, state and local agencies in studies to determine the advisability of improvements for exporting any surplus water in the Mississippi River system to water-deficient areas (Texas Water Development Board, 1968, p. 1).

The State of Texas, through the Texas Water Development Board, has made extensive studies for the purpose of formulating a statewide plan. The Board published a proposed plan, recognizing that the need for import of major water supplies to the western part of Texas is the state's most urgent immediate need. The Board also concluded that it is physically feasible to transport a projected 16.5 million acre-ft per year from the Mississippi River system by the year 2020 (Texas Water Development Board, 1968, p. 2).

The Problem

The proposed diversion of the lower Mississippi River to Texas and eastern New Mexico would no doubt affect the discharge and sedimentation characteristics of the river. However, these effects depend upon many variables such as time of year, diversion point, and how the diversion will take place. Although there has not yet been a final choice of diversion point, it has been suggested that the Old River Control Structure is one of nine possibilities to be considered (U.S. Bureau of Reclamation, 1968, pp. 64-69).

In an attempt to study what would have happened to the flow pattern if man-made diversion or interference with the river occurred, four sites were selected: two on the main channels, Coochie upstream of the control structure, and Tarbert's Landing south of it. Two other stations have been chosen, one on the Red River above Old River outflow channel, and the second one on the Atchafalaya River at Simmesport south of the outflow channel.

Mathematical Model

Introduction

The previous investigators carried out carefully designed studies of sedimentation in different locations. They selected what they considered the most significant parameters and derived a mathematical relationship between flow and the sediment transport rate. Because each of these relationships was closely tied to the locality of the study and was of limited applicability, none of these relationships has been universally accepted.

The sediment transport phenomenon is such a complex matter that no single parameter can adequately describe the flow condition for the prediction of sediment transport rate. This problem is further complicated by the fact that the sediment entering any natural river reach is never uniform in size, shape, and specific gravity but always represents a rather complex mixture of different grain types.

Sediment particles are transported by flow in one or a combination of the following ways: 1) rolling or sliding on the bed as surface creep; 2) leaping into the flow and then resting on the bed as saltation; 3) suspended and supported by surrounding fluid during its entire motion (Shen, 1970, p. 11-1).

Sediment which moves as surface creep or saltation, and is supported by the bed, is called bed load. Sediments which are suspended and supported by flow are called suspended load. In many streams, a major part of the sediment transported by the flow is suspended in the

flow by turbulent eddies or by colloidal suspension.

Sediment load transported by a stream is a function of availability of material and capability of the stream to transport it. Silt and clay material carried in suspension is almost entirely a function of supply, since the stream has relatively great ability in transporting such material. Generally, the amount and characteristics of sediment particles such as shape, size, specific gravity, and cohesiveness play an important part in the sediment deposition.

The Data

The analysis in this report is based on published reports of the Corps of Engineers. These reports contain the result of stage and discharge observations at Coochie, Tarbert's Landing, Red River above Old River, and Simmesport. Gages operated by the Corps of Engineers are generally inspected at least once each year. The discharge is expressed in cubic feet per second (cfs) and reported with a brief description of the gaging station. Observations of factors affecting the stage-discharge relation or the stage capacity relation were used to supplement base data in determining the daily flow or volume of water in storage. Samples of sediments were collected according to schedule or whenever the need arose. When no samples were collected, daily loads of sediment were estimated by interpolation on the basis of water discharge and sediment concentrations observed immediately before and after the periods, and sediment loads for other periods of similar discharge. In addition, the particle sizes of sediments are included. The water temperature is based on the U.S. Geological Survey publications. Daily water temperatures were measured at most of the stations at the time samples were collected for chemical quality analysis or sediment content. The recorded daily temperature stations are not the same ones as in the Corps of Engineer publications. However, St. Francisville and Baton Rouge are considered to be reasonably representative for the four stations. The settling velocity values for different sediment particles at different temperatures are those presented by Toffaleti [1968, p. 7].

Data Analysis

The main goal of a sediment transport equation is to describe the sediment concentration for different flow conditions. The primary independent variables selected are: the flow velocity V, the fall velocity of the median sediment size of sediment ω, the energy slope E, and the flow depth d. The dependent variable is the sediment concentration.

The recorded data, Table 1, show that though the discharge, sedimentation concentration and sedimentation load are available, the daily flow velocity and flow depth were not recorded.

The number of observations published by the U.S. Corps of Engineers from 1962 through 1972 for the Stations Coochie, Tarbert's Landing, Red River above Old River, and Simmesport are shown in Table 1.

The flow velocity is an important independent variable to consider in this study. The daily discharge data are available, and since the velocity for this discharge has not been reported, the first task was to compute the daily velocity.

Table 1.--The Number of Observations Available for the Four Stations Used in this Study

	Year															
	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Coochie																
Discharge (ft^3/sec)									18	24	20	16	17	26	15	14
Velocity (ft/sec)									11	21	20	15	15	26	19	0
Depth (ft)									14	21	20	13	15	26	0	0
Temperature (°F)									18	24	20	16	17	26	15	14
Tarbert's Landing																
Discharge (ft^3/sec)							x	x	x	x	x	x	x	x	58	15
Velocity (ft/sec)							98	95	18	86	77	74	27	25	58	0
Depth (ft)							0	0	0	0	0	0	27	25	0	0
Temperature (°F)							0	0	0	0	0	0	28	25	0	15
Red River																
Discharge (ft^3/sec)	xx	x	x	x	x	x	x	30	29	34	20	22	23	20	19	18
Velocity (ft/sec)							1	30	28	34	20	22	23	20	20	0
Depth (ft)							0	0	23	34	19	20	23	20	0	0
Temperature (°F)							0	0	29	34	20	22	23	20	19	18
Simmesport																
Discharge (ft^3/sec)						xx	x	x	x	x	x	x	x	x	xx	19
Velocity (ft/sec)							91	61	89	85	77	6	28	24	64	
Depth (ft)							0	0	0	0	0	6	28	24		
Temperature (°F)							0	83	0	0	0	6	28	24	22	19

x = Daily records are available all year.

xx = Daily records are available from October through December.

Velocity and Discharge Profile

Perhaps one of the most promising approaches to obtaining the daily flow velocity is to assume a mathematical relationship between discharge Q and flow velocity in the form of

$$Q = \alpha V^{\beta} \quad \text{---------- (1)}$$

where:

Q is the discharge in cubic feet per second
V is the flow velocity in feet per second
β is the flow velocity power, indicating the flow turbulence
α is a constant
e is a base logarithm = 2.718 and called a natural logarithm.

All the reported observed data on a yearly basis for discharge and flow velocity have been collected. By regression analysis technique, α and β can be determined, and a general mathematical equation for every year, and each zone, can be formulated. By substituting the available discharge data in the formulated equation, the daily flow velocity can be found.

The analyses of the velocity-discharge relationship for the four zones are as follows:

Coochie.--The analysis period started in 1965 and continues through 1971. It is noted that the flow velocity power β ranges from 1.23 to 1.44. This small difference in a large river such as the Mississippi River indicates only minor change in flow velocity over the past decade. For practical purposes, the flow velocity has been almost unchanged. But this is not to say the discharge has been constant.

The equations representing the flow velocity-discharge with its goodness factor are as shown in Table 2.

Table 2.--Relation of Discharge and Velocity at Coochie, Louisiana, 1963-1971

Year	Equation	Goodness Factor
1963	$Q = e^{11.0} V^{1.30}$	.993
1964	$Q = e^{10.98} V^{1.33}$	.978
1965	$Q = e^{10.81} V^{1.44}$	.988
1966	$Q = e^{10.90} V^{1.37}$	.935
1967	$Q = e^{10.82} V^{1.42}$	.995
1968	$Q = e^{11.20} V^{1.23}$	.982
1969	$Q = e^{11.20} V^{1.28}$	.935
1970	$Q = e^{11.27} V^{1.24}$	.982
1971	$Q = e^{11.09} V^{1.36}$	.993

Tarbert's Landing.--Through the analysis period, i.e., 1962 through 1971, it is noted that the velocity flow power β increased by about 40-50 percent when comparing it with that of Coochie. It is also noted that β was never less than 2 from 1965 on, and in 1969 it reached 2.84, an indication of turbulent flow. The year 1965 is rejected because of its low goodness factor, which can be attributed to poor quality of the reported data.

The equations representing the discharge-flow velocity with its goodness factors are shown in Table 3.

Table 3.--Relation of Discharge and Velocity at Tarbert's Landing, Louisiana, 1962-1971

Year	Equation	Goodness Factor
1962	$Q = e^{9.88} V^{2.28}$	.972
1963	$Q = e^{10.86} V^{1.61}$	.803
1964	$Q = e^{10.56} V^{1.96}$	.851
1965	$Q = e^{10.33} V^{1.98}$	.635
1966	$Q = e^{9.38} V^{2.63}$	.967
1967	$Q = e^{9.66} V^{2.25}$	.929
1968	$Q = e^{9.25} V^{2.63}$	.962
1969	$Q = e^{8.98} V^{2.84}$	.960
1970	$Q = e^{9.36} V^{2.61}$	.958
1971	$Q = e^{9.86} V^{2.30}$	.968

Red River above Old River.--With no available data for 1962 and only one recorded datum in 1963, it is noted that β is very much the same through the analysis period. It is suggested that the 1965 data may be rejected because of its poor goodness factor which can be attributed to poor quality of reported or recorded data. The equations representing the discharge-flow velocity with its goodness factor are shown in Table 4.

Simmesport.--When the flow of the Red River reaches Simmesport and is joined by the Mississippi River flow through the Old River, the flow becomes turbulent. This turbulence is indicated by the rise of β value from the Red River to the Simmesport station. It is noted that β rose steadily from 1.56 in 1965 to 2.12 in 1971. The equations representing the discharge-flow velocity relationships with its goodness factor are shown in Table 5.

Table 4.--Relation of Discharge and Velocity at Red River above Old River, Louisiana, 1964-1971

Year	Equation	Goodness Factor
1964	$Q = e^{9.83} V^{1.17}$	.787
1965	$Q = e^{10.05} V^{1.38}$	.891
1966	$Q = e^{9.85} V^{1.17}$	.900
1967	$Q = e^{10.04} V^{1.17}$	.868
1968	$Q = e^{9.58} V^{1.64}$	.915
1969	$Q = e^{10.04} V^{1.36}$	.912
1970	$Q = e^{10.03} V^{1.34}$	.920
1971	$Q = e^{9.98} V^{1.38}$	.876

Table 5.--Relation of Discharge and Velocity at Simmesport, Louisiana, 1962-1971

Year	Equation	Goodness Factor
1962	$Q = e^{9.91} V^{1.70}$	.988
1963	$Q = e^{10.07} V^{1.56}$	.765
1964	$Q = e^{9.73} V^{1.62}$	.964
1965	$Q = e^{10.02} V^{1.56}$	.835
1966	$Q = e^{9.42} V^{1.81}$	.911
1967	$Q = e^{9.27} V^{2.01}$	.957
1968	$Q = e^{9.19} V^{2.22}$	.983
1969	$Q = e^{9.45} V^{2.08}$	.715
1970	$Q = e^{9.48} V^{2.09}$	.986
1971	$Q = e^{9.52} V^{2.12}$	.972

Establishing daily velocity for the four zones is a necessary step in finding daily depth as well. Assume a mathematical relationship between discharge, flow velocity, and the flow depth in the form of

$$Q = \alpha V^{\beta} D^{\gamma} \quad \text{----------} \quad (2)$$

where:

Q is the discharge in cubic feet per second
V is the velocity in feet per second
D is the flow depth in feet

β is the flow velocity power
γ is the flow depth power
α is a constant

The flow will be affected by the depth and the velocity. Because there has not been enough data on the width, it is ignored, on the assumption that the important variables have been considered.

All the reported observed data on a yearly basis for discharge, flow velocity, and flow depth are collected. By regression analysis technique, α, β, and γ can be determined. A general mathematical equation for every year and each zone can be formulated. By substituting the available discharge and velocity data in the formulated equation, the daily flow depth can be found.

The analyses of the discharge-velocity-depth relationship for the four zones are presented in Tables 6, 7, 8 and 9.

Table 6.--Relation of Discharge and Velocity-Depth at Coochie, Louisiana, 1963-1971

Year	Equation	Goodness Factor
1963	$Q = e^{6.77} V^{1.06} D^{1.15}$	.999
1964	$Q = e^{6.64} V^{1.09} D^{1.17}$	.999
1965	$Q = e^{8.38} V^{1.22} D^{0.69}$	.994
1966	$Q = e^{10.72} V^{1.35} D^{0.05}$	.986
1967	$Q = e^{7.43} V^{1.20} D^{0.93}$	.999
1968	$Q = e^{7.32} V^{1.14} D^{0.98}$	.998
1969	$Q = e^{7.01} V^{1.16} D^{1.04}$	.996
1970	$Q = e^{7.09} V^{1.12} D^{1.04}$	.991
1971	$Q = e^{7.52} V^{1.19} D^{0.91}$	.998

Applying the different equations in Tables 6-9 for each zone and every year yields daily figures for temperature (°F), discharge (1000 cfs), sediment-concentration (ppm), velocity (ft/sec), slope, settling velocity (ft/sec), depth (ft), and total sediment (1000 ton/day). These are given in Appendix A.

Table 7.--Relation of Discharge and Velocity-Depth at Tarbert's Landing, Louisiana, 1962-1971

Year	Equation	Goodness Factor
1962	$Q = e^{7.61} V^{1.01} D^{1.14}$	.999
1963	$Q = e^{7.53} V^{1.00} D^{1.17}$	.830
1964	$Q = e^{7.79} V^{1.11} D^{1.06}$	.861
1965	$Q = e^{6.17} V^{0.25} D^{1.84}$	.972
1966	$Q = e^{7.38} V^{1.15} D^{1.15}$	.999
1967	$Q = e^{7.18} V^{1.21} D^{1.19}$	.993
1968	$Q = e^{7.35} V^{1.21} D^{1.14}$	.997
1969	$Q = e^{8.00} V^{1.89} D^{0.67}$	.981
1970	$Q = e^{7.50} V^{1.27} D^{1.07}$	.993
1971	$Q = e^{7.11} V^{1.19} D^{1.04}$	.995

Table 8.--Relation of Discharge and Velocity-Depth at Red River above Old River, Louisiana, 1964-1971

Year	Equation	Goodness Factor
1964	$Q = e^{4.20} V^{0.96} D^{1.74}$	.998
1965	$Q = e^{4.37} V^{1.09} D^{1.67}$	.992
1966	$Q = e^{4.99} V^{1.00} D^{1.49}$	.993
1967	$Q = e^{6.15} V^{1.10} D^{1.14}$	.934
1968	$Q = e^{4.16} V^{0.92} D^{1.77}$	.987
1969	$Q = e^{4.77} V^{1.01} D^{1.56}$	.987
1970	$Q = e^{4.95} V^{0.94} D^{1.50}$	.991
1971	$Q = e^{5.45} V^{0.96} D^{1.35}$	.995

Table 9.--Relation of Discharge and Velocity-Depth at Simmesport, Louisiana, 1962-1971

Year	Equation	Goodness Factor
1962	$Q = e^{6.43} V^{1.29} D^{1.10}$	.995
1963	$Q = e^{5.89} V^{1.06} D^{1.33}$	.774
1964	$Q = e^{6.06} V^{1.09} D^{1.27}$	.997
1965	$Q = e^{5.76} V^{1.15} D^{1.35}$	.865
1966	$Q = e^{6.13} V^{1.21} D^{1.19}$	.994
1967	$Q = e^{8.53} V^{1.65} D^{0.36}$	.961
1968	$Q = e^{7.71} V^{1.03} D^{1.09}$	.999
1969	$Q = e^{4.61} V^{2.55} D^{-0.97}$	.761
1970	$Q = e^{7.04} V^{1.09} D^{1.01}$	.999
1971	$Q = e^{9.41} V^{2.08} D^{0.04}$	.973

Sedimentation and Discharge Profile

A description of the suspended sediment in the Mississippi River would be helpful in the study of the aforementioned proposed diversion work. A sediment concentration function that relates discharge Q, flow velocity V, depth d, and sediment settling velocity ω to the sediment concentration will be potentially valuable information. Over the past years, there have been several attempts to arrive at such relationships. Unfortunately, most of the work done carried out carefully designed experiments, selected specific parameters, and presented relationships between the flow and sediment transport based on a very special and controlled environment.

The situation is different in the Mississippi River. This research is constrained by the following: 1) there are no field experiments (impractical for the research project); 2) there are almost 80 years of discharge records, but very little data on sediment; and 3) the collected data do not precisely meet the time and place requirements.

The only remaining approach is to apply regression analysis to a lengthy series of trial and error experiments in an attempt to reach an applicable mathematical relationship with a satisfactory goodness factor.

The disadvantage of this approach is that some of the parameters might be very small or have a meaningless value. However, it still has merit in that, if the available data prove to have a good correlation, the chances are that any other data within the tested range will have the same trend.

The relationship between the discharge and the velocity has been previously presented in a curvilinear mathematical equation. However, a nonlinear model is considered for the sediment concentration model in the form of

$$\log C = \zeta_0 + \zeta_1 x + \zeta_2 x^2 + \zeta_3 x^3 \quad \text{---------- (3)}$$

and

$$x = V^{\zeta 5}\ E^{\zeta 6}\ W^{\zeta 7}\ D^{\zeta 8} \quad \text{---------- (3a)}$$

where:

V is an average velocity (independent variable). It is intended as an indirect expression for the dynamic energy of the flow. On this assumption the higher the value of velocity, the greater the sediment concentration.

d is the average flow depth (independent variable). Its values were obtained primarily from publications of the U.S. Corps of Engineers. Usually the cross-sectional area, data, width, and maximum depth at specific locations are reported. The effect of depth on sediment concentration is closely related with flow velocity, by which the flow characteristics are defined. Maintaining the same velocity value may mean a uniform distribution of concentration along the cross-sectional area.

W is the average settling velocity (independent variable), which is actually the fall velocity of a median size sediment sample. From reported data, it is noticed that most sediment material lies in the category of what is called suspension load (average particle diameter is 0.062 mm). It is a fact that a suspension of sediment material can exist only in a flow when velocity fluctuation in the vertical direction is at least equal to the settling velocity. Schlichting (1968, pp. 525, 540) reported an average value of about 0.04 for the ratio of root-mean-square value of the velocity fluctuations and the average velocity V.

E is the bed slope (independent variable), which is the energy slope of the flow. Because of the paucity of information, the energy slope line is assumed to have a constant value throughout the analysis.

C is the sedimentation concentration (dependent variable).

This model can be solved by a Taylor series, in which the results of linear least squares in a succession of stages are used. Initial values for the parameters must first be estimated, based on the available information, expectations, and experience. These values supposedly will be improved with succeeding iterations. The function will ultimately converge, i.e., until the ratio of the corrected value to its corresponding estimate reaches a predetermined numerical value, or after a specified number of iterations.

Coochie

A mathematical relationship between the sediment material load concentration and the flow characteristics (velocity, slope, depth, and settling velocity) was determined under the following conditions: 1) the observation sample consisted of 100 items of data; 2) the number of iterations between parameter output was 10. The sediment concentration is found to be a function of the flow velocity to the 0.52 power,

the slope to the fourth power, the settling velocity and the depth to the first power, as follows:

$$\log C = 5.6 + 33x + 0.009x^2 + 42x^3 \quad \text{---------- (4)}$$

where

$$x = V^{0.52} S^4 W D \quad \text{---------- (4a)}$$

Tarbert's Landing

Due to the fact that the computer program cannot handle more than a 700-data record, the available information on Tarbert's Landing is divided into three collections as follows:

For 1965-1966:

$$\log C = 5.7 + 0.8x - 0.18x^2 + 0.01x^3 \quad \text{---------- (5)}$$

$$x = V^{0.06} S^{1.8} W^{0.20} D^{0.5} \quad \text{---------- (5a)}$$

For 1967-1968:

$$\log C = 5.7 + 1.1x + x^2 + 0.42x^3 \quad \text{---------- (6)}$$

$$x = V^{0.52} S^4 W D^{0.10} \quad \text{---------- (6a)}$$

For 1969-1971:

$$\log C = 5.7 + x + x^2 + 0.42x^3 \quad \text{---------- (7)}$$

$$x = V^{0.52} S^4 W D^{0.10} \quad \text{---------- (7a)}$$

Red River above Old River

For zone three, 93 data items were used. The mathematical relationship was

$$\log C = 5.2 + 0.33x + 0.09x^2 + 42x^3 \quad \text{---------- (8)}$$

$$x = V^{0.52} S^4 W D \quad \text{---------- (8a)}$$

Simmesport

For zone four, 700 data items were used, the maximum capacity of the program. The mathematical relationship was

$$\log C = 5.6 + 0.38x + 0.09x^2 + 42x^3 \quad \text{---------- (9)}$$

$$x = V^{0.52} S^4 W D \quad \text{---------- (9a)}$$

The four mathematical models that have been presented to describe the sediment concentration need further investigation since it is the first time to this author's knowledge that such models have been formulated.

Conclusions

An important relationship has existed between man and rivers since the beginning of civilization, for water has always been an integral part of man's development. There are indications that an Egyptian king, Menes, built a masonry dam across the Nile at Memphis about 4000 B.C.

Apparently river modifications cannot be successful unless enough data about the river flow are available. In addition, knowledge about the flow characteristics is necessary in order for the project objectives to be achieved. For this reason emphasis has been placed on long periods of river discharge. In fact, the flow discharge recorded data for the Mississippi River goes back to 1887.

An empirical relationship between discharge, depth, and flow velocity in the Mississippi River at Coochie, Tarbert's Landing, Red River above Old River, and Simmesport was determined by regression analysis, from which daily flow velocities and depth were obtained (see Appendix A). By the same technique, daily flow depth was found.

It should be noted that:

1. These equations are based on the reported flow velocity in a few days each year. Thus it is an open question whether or not they can be applied to other time periods.

2. These equations represent a direct relationship between the discharge and the flow velocity.

3. These equations are only valid for the data within the time and place from which they are derived and by no means can they be extrapolated, unless prior field tests have proved their validity.

4. It is difficult to predict the flow velocity and/or the flow depth deviation from the recommended mathematical forms. However, if the flow-discharge is within the range of the utilized data, the chances are very likely that the flow velocity and depth will be within the range of the previous results.

The linearization method was employed to estimate the parameters of a nonlinear system relating the sediment concentration to the velocity, depth, energy slope, and settling velocity at specified stations on the Mississippi River. However, the linearization procedure has some possible drawbacks, because of the following:

1. It may converge very slowly, i.e., a very large number of iterations may be needed, and the users may not realize that fact and thus get no solution.
2. It may oscillate widely, reversing direction.
3. It may not converge at all.
4. It may even diverge.

It is believed that an improvement of the predictive value of the previous mathematical equations may be achieved by several means. One of these would be based on additional, more frequently collected data.

It is noted that after the flow passes Coochie, part of the Mississippi River discharge is diverted to the Atchafalaya River

through Old River. The diverted amount depends greatly on the flow in the Mississippi and Red Rivers as well. In the case where the flow in the Mississippi is low, part of the Red River flow will be diverted to the Mississippi through the Old River, which explains the fact of an increasing discharge at Tarbert's Landing. On the other hand, when the flow in the Mississippi is high, part of it will be diverted to the Atchafalaya and less flow will be recorded at Tarbert's Landing station. In this case flow from the Red River will not be diverted to the Mississippi; all the Red River flow and the diverted portion of the Mississippi will be joined and noticed at Simmesport.

A study of the variation and range of sedimentation with time and discharge at the sampling stations reveals no consistent relationship. An irregular pattern for the discharge and the sedimentation is observed between Coochie and Tarbert's Landing. On the Red River Landing and the Atchafalaya River, the available records bore out the same results, i.e., no correlation. Direct relationship of sediment load to discharge, temperature and flow velocity at the sampling stations is difficult, if not impossible, to establish.

Although the data were not detailed enough to determine just what was happening, it seems certain that a decline in flow discharge results in a decline of sediment concentration. If only discharge and flow velocity are known, it is not possible to forecast the behavior of the Mississippi River at a given point. Though it is possible to forecast discharge in the River, it is impossible to predict any other changes that may occur if discharges of water, sediment, sediment size, flow velocity, bed channel and bank resistance are changed.

Recommendations

Though the flow records are abundant, the water quality data is quite another matter. The Mississippi River sediment records are inadequate, to say the least, for any serious and productive research. Of course, it is expensive to collect and analyze sediment material; in addition, it is a cumbersome task and there is a lag in modernizing sampling techniques. Regardless of any causes that may justify the almost non-existent data on sediments, it is absolutely necessary to start a serious, detailed program for the collection of data associated with sediment transport. Many agencies are involved one way or another with sedimentation topics. The coordination of the work of such agencies is definitely necessary for any kind of success for such a program, a program that should be carried out on a continuing basis with a regular and constant schedule for sampling sediment material.

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APPENDIX A

MISSISSIPPI RIVER AT COOCHIE

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP	SVCL F/S 10-7	DEP FT 10-3	TSED T/D 1000
090465	54	967	412	7.38	773	18	67	1670.469
140465	80	120	697	7.38	773	25	67	225.828
230465	80	127	343	7.37	773	25	67	117.615
280465	80	138	256	7.38	773	25	67	88.734
050565	97	113	169	7.39	773	28	67	51.257
130565	68	915	211	7.38	773	22	67	512.276
220565	46	729	190	7.38	773	16	67	373.977
080665	81	493	156	4.78	773	25	95	207.652
220665	93	576	777	5.35	773	28	95	1208.390
030765	81	494	79	2.70	773	25	80	105.370
090765	84	384	297	4.17	773	26	55	308.643
220765	87	439	456	4.38	773	26	57	539.972
310765	81	333	79	2.70	773	25	80	71.029
030865	85	403	583	4.23	773	26	56	634.242
280865	74	446	611	4.69	773	23	55	735.249
120965	67	506	498	5.27	773	21	56	679.334
121165	61	270	153	3.23	773	20	51	104.992
301165	56	281	111	3.37	773	19	51	83.938
221265	48	259	109	3.13	773	17	50	31.772
050166	48	334	251	3.80	773	17	53	225.953
290166	39	444	426	.946	773	14	54	554.115
080266	37	277	183	.31	773	13	54	136.596
230266	42	705	1178	.70	773	15	52	2241.627
020366	44	531	325	.70	773	16	52	439.349
110366	44	862	180	.70	773	16	52	387.806
180366	47	720	221	.70	773	16	52	428.659
240366	53	556	488	5.50	773	18	57	731.991
210466	57	477	9	5.14	773	19	54	11.069
020566	75	519	437	4.85	773	24	60	612.368
210566	78	389	273	4.18	773	24	55	286.816
050766	82	288	493	3.32	773	25	53	383.528
210766	87	263	273	3.16	773	26	51	193.273
240756	86	263	181	3.18	773	26	51	128.626
120466	84	233	166	2.97	773	26	48	104.543
260466	81	272	250	3.43	773	25	48	183.716
270966	82	322	195	3.89	773	25	47	113.838
221966	75	195	114	2.63	773	24	46	60.169
071666	72	207	115	2.71	773	23	47	64.234
221766	64	197	111	2.55	773	21	48	59.223
041166	57	203	130	2.26	773	19	47	71.050
171166	56	275	156	3.37	773	19	50	115.524
021266	53	261	131	3.16	773	18	51	92.277
151266	46	330	211	3.77	773	16	53	187.638
131167	43	441	172	4.73	773	14	55	204.434
261167	43	269	170	3.38	773	15	49	123.773
100267	44	477	418	5.02	773	16	56	538.878
230267	43	410	334	4.42	773	15	55	369.854
100367	46	218	428	4.61	773	16	55	251.924
220367	51	907	572	7.63	773	18	63	1400.117
070467	60	570	217	4.07	773	20	39	487.466
050567	63	755	187	6.76	773	20	60	1419.435
190567	68	843	178	7.27	773	22	55	405.447
231667	82	494	456	4.97	773	25	58	608.021
210767	79	736	216	6.47	773	25	62	428.995
110867	84	475	499	4.78	773	26	59	639.402
230867	80	337	331	3.79	773	25	55	300.743
080967	75	278	192	3.30	773	25	53	143.776
270967	78	265	152	3.22	773	24	51	109.004
131067	69	264	229	3.18	773	22	52	163.041
261067	65	315	144	3.72	773	21	52	122.229
091167	56	373	390	4.19	773	19	54	392.988
201267	48	727	480	6.96	773	17	92	942.914
170168	36	791	224	6.70	773	13	105	45.000
010268	44	568	404	5.54	773	16	46	39.600
150368	48	315	391	3.39	773	17	58	180.720
260468	64	960	347	3.39	773	21	58	898.568
170568	71	610	519	5.22	773	22	66	854.083
110768	81	446	269	4.26	773	25	64	324.145
260768	83	365	188	3.64	773	25	62	184.758
090868	81	399	181	3.91	773	25	65	195.107
220868	81	448	304	4.13	773	25	69	367.108
050968	79	270	153	2.76	773	25	66	111.666
240968	76	233	268	2.51	773	24	60	168.375
101068	70	269	187	2.85	773	22	61	135.504
251068	66	271	152	2.96	773	21	57	111.007
081168	58	290	225	3.17	773	19	57	176.087
221168	52	327	151	3.58	773	18	57	133.325
231268	43	450	241	4.40	773	15	66	293.193
130169	38	720	502	6.11	437	14	75	975.643
140269	43	1140	571	4.70	437	15	75	1664.112
210369	45	441	428	4.67	437	16	78	509.047
040469	51	889	504	6.61	437	18	79	1209.267
020569	62	1140	337	4.96	437	20	79	1036.082
230569	67	820	388	6.09	437	21	80	859.294
060669	73	481	463	5.30	437	23	79	601.695
200669	79	497	294	4.45	437	26	67	394.093
031769	82	554	470	5.39	437	25	70	829.642
170769	84	754	437	5.85	437	26	74	889.672
080869	84	603	363	4.96	437	26	69	590.494
290869	81	395	212	3.78	437	25	63	215.465
250969	77	240	155	2.79	437	24	61	117.180
101069	73	268	228	2.65	437	23	62	164.827
231069	65	539	550	4.61	437	21	68	800.320
071169	57	390	174	3.66	437	19	64	183.275
121269	44	378	194	3.64	437	16	63	197.947
090170	37	834	577	6.92	437	13	68	1304.208
290170	41	387	186	3.76	437	15	60	194.455
130270	39	694	451	5.98	437	14	67	845.914
270270	41	810	314	6.81	437	15	69	737.037
130370	48	729	381	6.15	437	17	69	748.986
270370	49	757	330	6.14	437	17	71	674.269
100471	54	849	448	7.15	437	18	69	1027.562
210470	60	989	466	7.44	437	20	72	1243.183
190670	77	743	409	5.78	437	24	70	819.843

MISSISSIPPI RIVER AT COOCHIE

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP	SVEL F/S 10-7	DEP FT 10-3	TSED T/D 1000
290670	81	733	386	6.08	437	25	69	763.542
170770	84	334	264	3.23	437	26	60	237.999
310770	83	288	147	2.83	437	25	59	114.542
280870	82	326	221	3.09	437	25	61	194.308
110970	83	257	148	2.47	437	25	63	101.142
250970	82	319	195	2.99	437	25	65	167.750
091070	76	640	205	5.58	437	24	67	354.704
191070	65	382	209	4.07	437	21	17	215.519
091170	59	576	362	5.12	437	19	66	562.855
091270	51	404	299	3.77	437	18	62	324.737
220271	42	933	505	7.18	437	15	36	539.972
300371	50	1042	673	7.21	437	17	41	893.837
190471	59	633	312	5.17	437	19	29	534.368
290471	68	541	254	4.77	437	22	27	371.032
240571	70	846	379	6.48	437	22	38	866.788
140671	79	458	293	4.47	437	25	27	362.329
073771	86	387	273	3.58	437	26	24	264.723
230771	86	398	278	3.71	437	26	23	299.390
160871	82	446	293	4.03	437	25	26	353.342
030971	82	317	155	3.16	437	25	20	132.840
240971	77	317	311	3.28	437	24	20	266.411
081071	75	294	186	3.02	437	24	20	148.254
221071	70	229	132	2.49	437	22	17	81.714
081171	64	295	183	3.06	437	21	19	145.714
221271	51	855	615	6.82	437	18	37	420.159
070172	47	626	355	.	773	16		600.661
220272	44	446	240	.	773	16		301.921
240372	53	880	345	.	773	18		826.373
070472	54	818	300	.	773	18		661.740
210472	62	787	317	.	773	20		673.824
250572	71	1012	364	.	773	22		994.043
080672	79	468	241	.	773	25		304.934
230672	82	379	277	.	773	25		396.541
210772	81	452	325	.	773	25		396.541
040872	86	426	163	.	773	26		187.445
180872	84	479	262	.	773	26		339.628
150972	84	313	179	.	773	26		151.760
131072	73	476	278	.	773	23		358.083
290972	80	415	323	.	773	25		362.009

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
21062	76	214	262	2.86	43	26	23.57	151.380
31062	75	213	258	2.85	43	26	23.55	148.380
41062	74	213	254	2.85	43	26	23.55	146.080
51062	74	214	254	2.86	43	26	23.57	146.760
61062	74	214	257	2.86	43	26	23.57	148.490
71062	74	216	261	2.87	43	26	23.69	152.220
81062	74	217	266	2.87	43	26	23.79	155.850
91062	74	221	274	2.90	43	26	23.95	163.500
101062	74	228	278	2.94	43	26	24.32	171.140
111062	74	238	281	2.99	43	26	24.87	180.570
121062	74	250	290	3.06	43	26	25.44	195.750
131062	74	254	319	3.08	43	26	25.65	216.770
141062	74	259	338	3.11	43	26	25.87	236.360
151062	75	252	355	3.07	43	26	25.55	241.540
161062	74	244	362	3.03	43	26	25.13	238.490
171062	75	238	320	2.99	43	26	24.87	205.630
181062	75	233	270	2.97	43	26	24.56	169.860
191062	75	228	232	2.94	43	26	24.32	142.820
201062	75	230	233	2.95	43	26	24.43	144.690
211062	75	236	238	2.98	43	26	24.76	151.650
221062	75	238	241	2.99	43	26	24.87	154.870
231062	74	236	242	2.98	43	26	24.76	154.200
241062	73	236	243	2.98	43	26	24.76	154.840
251062	72	243	243	3.02	43	26	25.11	159.430
261062	71	245	240	3.03	43	26	25.22	158.760
271062	70	245	236	3.03	43	26	25.22	156.110
281062	69	234	234	2.97	43	26	24.65	147.840
291062	68	226	233	2.93	43	26	24.20	142.160
301062	65	219	228	2.89	43	26	23.83	134.820
311062	68	214	218	2.86	43	26	23.57	125.960
11162	68	210	214	2.83	43	26	23.40	121.340
21162	68	204	205	2.80	43	26	23.03	112.910
31162	65	198	195	2.76	43	26	22.72	104.250
41162	63	195	195	2.74	43	26	22.57	102.670
51162	63	193	190	2.73	43	26	22.43	99.010
61162	62	193	180	2.73	43	26	22.43	93.800
71162	62	193	175	2.73	43	26	22.43	91.190
81162	61	193	175	2.73	43	26	22.43	91.190
91162	61	192	191	2.72	43	26	22.41	99.010
101162	60	190	216	2.71	43	26	22.27	110.810
111162	60	189	243	2.71	43	26	22.17	124.000
121162	59	188	259	2.70	43	26	22.14	131.470
131162	58	188	273	2.70	43	26	22.14	138.570
141162	58	185	267	2.68	43	26	21.97	133.370
151162	58	182	195	2.66	43	26	21.81	95.820
161162	57	179	182	2.64	43	26	21.63	87.960
171162	57	180	183	2.65	43	26	21.67	88.940
181162	57	188	184	2.70	43	26	22.14	93.400
191162	57	197	188	2.76	43	26	22.62	100.000
201162	57	214	215	2.86	43	26	23.57	124.230
211162	56	233	239	2.97	43	26	24.56	150.350
221162	56	252	263	3.07	43	26	25.55	178.950
140163	42	269	259	2.77	43	15	29.35	188.110
150163	42	255	252	2.68	43	15	28.84	173.500
160163	42	238	246	2.57	43	15	28.18	158.080
170163	41	223	260	2.47	43	15	27.57	156.550
180163	42	219	380	2.44	43	15	27.43	224.690
190163	41	219	520	2.44	43	15	27.43	307.480
200163	42	244	640	2.61	43	15	28.41	421.630
210163	42	236	635	2.56	43	15	28.07	404.620
220163	42	236	605	2.56	43	15	28.07	385.510
230163	41	242	510	2.60	43	15	28.30	333.230
240163	40	247	475	2.63	43	14	28.52	316.780
250163	40	255	445	2.68	43	14	28.84	306.380
260163	40	266	420	2.75	43	14	29.25	301.640
270163	40	274	390	2.81	43	14	29.45	288.520
280163	38	273	360	2.80	43	14	29.45	265.360
290163	37	263	330	2.74	43	13	29.05	234.330
300163	37	252	310	2.66	42	13	28.73	210.920
310163	42	241	277	2.59	43	15	28.29	180.240
10263	36	223	262	2.47	43	13	27.57	157.750
20263	36	208	245	2.36	43	13	27.01	137.590
30263	37	196	230	2.28	43	13	26.44	121.720
40263	37	186	212	2.21	43	13	25.97	106.470
50263	37	183	198	2.18	43	13	25.91	97.830
60263	38	180	187	2.16	43	14	25.75	90.880
70263	38	177	180	2.14	43	14	25.58	86.020
80263	38	176	175	2.13	43	14	25.56	83.160
90263	39	179	171	2.15	43	14	25.73	82.640
100263	40	179	172	2.15	43	14	25.73	83.130
110263	39	185	180	2.20	43	14	25.95	89.910
120263	39	188	192	2.22	43	14	26.11	97.460
130263	39	192	207	2.25	43	14	26.28	107.310
140263	39	209	217	2.37	43	14	27.02	122.450
150263	39	228	235	2.50	43	14	27.81	144.670
160263	40	243	243	2.60	43	14	28.40	159.430
170263	40	258	246	2.70	43	14	28.94	171.360
180263	40	269	250	2.77	43	14	29.35	181.580
190263	40	281	254	2.85	43	14	29.73	192.710
200263	40	289	254	2.90	43	14	30.00	198.200
210263	40	288	251	2.89	43	14	30.00	195.180
220263	39	283	248	2.86	43	14	29.82	189.500
230263	40	278	243	2.83	43	14	29.64	182.400
240263	42	275	237	2.81	43	14	29.54	175.970
250263	42	269	230	2.77	43	15	29.35	167.050
260263	40	254	223	2.68	43	15	28.74	152.930
270263	40	235	216	2.55	43	14	28.06	137.050
280263	40	225	207	2.48	43	14	27.69	125.750
10363	40	217	189	2.43	43	14	27.32	110.740
20363	42	216	179	2.42	43	15	27.30	104.390
30363	45	216	175	2.42	43	16	27.30	102.060
40363	44	223	174	2.47	43	26	27.57	104.770
50363	46	226	181	2.49	43	16	27.70	110.450
60363	46	231	201	2.52	43	16	27.93	125.360

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
231162	55	263	282	3.13	43	26	26.07	200.250
241162	54	270	304	3.16	43	26	26.46	221.620
251162	55	274	318	3.18	43	26	26.65	235.260
261162	54	275	330	3.19	43	26	26.66	245.030
271162	54	272	329	3.17	43	26	26.55	241.620
281162	54	268	327	3.15	43	26	26.36	236.620
291162	54	262	316	3.12	43	26	26.06	223.540
301162	54	254	315	3.08	43	26	25.65	216.030
11262	54	256	320	3.09	43	26	25.76	221.180
21262	54	262	330	3.12	43	26	26.06	233.440
31262	54	268	290	3.15	43	26	26.36	205.640
41262	54	271	260	3.17	43	26	26.47	190.240
51262	54	274	235	3.18	43	26	26.65	173.850
61262	54	276	228	3.19	43	26	26.75	169.910
71262	51	278	222	3.20	43	26	26.84	166.630
81262	53	274	219	3.18	43	26	26.65	162.020
91262	52	260	219	3.11	43	26	25.56	153.740
101262	51	242	224	3.02	43	26	25.02	146.360
111262	50	226	240	2.93	43	26	24.20	146.450
121262	50	212	231	2.85	43	26	23.45	132.220
131262	49	205	219	2.80	43	26	23.13	121.220
141262	49	200	191	2.77	43	26	22.85	103.140
151262	48	200	179	2.77	43	26	22.85	96.660
161262	45	200	167	2.77	43	26	22.85	90.180
171262	46	200	156	2.77	43	26	22.85	84.240
181262	46	197	152	2.76	43	26	22.62	80.650
191262	45	193	148	2.73	43	26	22.43	77.120
201262	45	186	144	2.65	43	26	22.01	72.320
211262	45	179	143	2.64	43	26	21.63	69.110
221262	45	170	141	2.58	43	26	21.10	64.720
231262	45	160	141	2.52	43	26	20.43	60.510
241262	45	156	140	2.49	43	26	20.20	58.770
251262	45	154	140	2.47	43	26	20.11	58.210
261262	45	154	142	2.47	43	26	20.11	59.040
271262	45	157	146	2.49	43	26	20.31	61.890
281262	45	161	151	2.52	43	26	20.54	65.640
291262	46	176	174	2.62	43	26	21.46	82.680
301262	45	194	197	2.74	43	26	22.46	103.190
311262	45	206	217	2.81	43	26	23.15	120.700
10163	44	215	250	2.41	43	16	27.29	145.130
20163	44	224	290	2.48	43	16	27.58	175.390
30163	44	237	350	2.56	43	16	28.17	223.960
40163	44	256	370	2.69	43	16	28.84	255.740
50163	43	275	380	2.81	43	15	29.54	282.150
60163	43	285	380	2.87	43	15	29.91	292.410
70163	42	283	375	2.86	43	15	29.82	286.540
80163	42	280	360	2.84	43	15	29.73	272.160
90163	41	276	335	2.82	43	15	29.54	249.640
100163	42	273	315	2.80	43	15	29.45	232.150
110163	43	274	300	2.81	43	15	29.45	221.940
120163	44	276	285	2.82	43	16	29.54	212.360
130163	43	274	266	2.81	43	15	29.45	196.790
70363	46	237	220	2.56	43	16	28.17	140.780
80363	46	242	242	2.60	43	16	28.30	158.120
90363	46	250	269	2.65	43	16	28.63	181.580
100363	47	260	310	2.72	43	16	28.95	217.620
110363	48	280	365	2.84	43	17	29.73	275.940
120363	48	343	575	3.23	43	17	31.68	532.510
130363	50	431	670	3.72	43	17	34.12	779.680
140363	50	506	750	4.11	43	17	35.94	24.650
150363	50	564	840	4.39	43	17	37.28	279.150
160363	50	611	920	4.62	43	17	38.21	517.720
170363	48	649	990	4.79	43	17	39.01	734.780
180363	48	676	45	4.92	43	16	39.48	907.330
190363	44	698	70	5.01	43	17	39.95	16.520
200363	49	707	70	5.05	43	17	40.12	42.520
210363	49	724	20	5.13	43	17	40.39	993.900
220363	50	745	970	5.22	43	17	40.70	951.150
230363	50	770	880	5.33	43	17	41.21	829.520
240363	50	779	800	5.37	43	18	41.35	682.640
250363	51	793	710	5.43	43	18	41.59	520.180
260363	52	806	670	5.48	43	18	41.84	458.050
270363	51	818	460	5.53	43	18	42.05	391.420
280363	50	831	600	5.59	43	18	42.23	346.220
290363	52	840	570	5.63	43	18	42.36	292.760
300363	53	848	550	5.66	43	18	42.51	259.280
310363	53	856	530	5.69	43	18	42.66	224.940
10463	53	864	515	5.73	43	18	42.74	201.390
20463	54	871	500	5.75	43	18	42.91	175.850
30463	54	876	488	5.77	43	18	42.99	154.220
40463	55	879	475	5.79	43	19	42.99	127.320
50463	56	881	445	5.80	43	19	43.01	58.520
60463	56	882	417	5.80	43	19	43.05	993.040
70463	56	875	388	5.77	43	19	42.95	916.650
80463	56	862	369	5.72	43	19	42.72	858.810
90463	56	849	360	5.66	43	19	42.55	825.230
100463	57	849	344	5.66	43	19	42.55	788.550
110463	56	840	338	5.63	43	19	42.36	766.580
120463	58	832	328	5.59	43	19	42.27	736.620
130463	58	823	326	5.56	43	19	42.07	724.400
140463	58	811	326	5.50	43	19	41.94	713.840
150463	58	789	325	5.41	43	19	41.54	692.350
160463	60	754	325	5.26	43	19	40.93	661.640
170463	60	713	330	5.08	43	19	40.20	635.280
180463	61	664	332	4.86	43	20	39.29	595.210
190463	61	595	335	4.54	43	20	37.92	538.180
200463	62	550	346	4.32	43	20	36.99	513.810
210463	62	491	348	4.02	43	20	35.62	461.340
220463	64	431	355	3.72	43	20	34.13	413.110
230463	64	392	364	3.50	43	20	33.15	385.260
240463	65	356	364	3.30	43	21	32.11	349.880
250463	65	319	366	3.08	43	21	31.01	315.240
260463	65	292	368	2.92	43	21	30.09	290.130
270463	66	271	364	2.79	43	21	29.35	266.340

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
280463	66	257	356	2.70	43	21	28.85	247.030
290463	66	250	347	2.65	43	21	28.63	234.230
300463	67	245	329	2.62	43	21	28.41	217.630
10563	68	245	306	2.62	43	21	28.41	202.420
20563	68	248	290	2.64	43	21	28.52	194.180
30563	68	255	285	2.68	43	22	28.84	196.220
40563	68	273	290	2.80	43	22	29.46	213.760
50563	68	288	317	2.89	43	22	30.00	246.500
60563	68	309	332	3.02	43	22	30.69	276.990
70563	68	333	354	3.17	43	22	31.38	318.280
80563	69	358	403	3.31	43	22	32.18	365.540
90563	69	376	450	3.41	43	22	32.71	456.840
100563	69	378	476	3.43	43	22	32.70	485.810
110563	69	371	460	3.39	43	22	32.50	460.780
120563	69	362	407	3.34	43	22	32.23	397.800
130563	70	349	358	3.26	43	22	31.90	343.110
140563	70	334	251	3.17	43	22	31.46	226.350
150563	71	319	255	3.08	43	22	31.01	215.630
160563	73	309	259	3.02	43	22	30.69	216.080
170563	75	298	268	2.96	43	23	30.26	215.630
180563	75	288	290	2.89	43	24	30.00	225.500
190563	75	278	355	2.83	43	24	29.64	266.460
200563	76	270	369	2.78	43	24	29.35	269.000
210563	76	264	355	2.74	43	24	29.15	253.040
220563	76	260	324	2.72	43	24	28.95	227.450
230563	76	258	274	2.70	43	24	28.94	190.870
240563	76	260	245	2.72	43	24	28.95	171.590
250563	76	265	257	2.75	43	24	29.15	183.880
260563	76	276	270	2.82	43	24	29.54	201.200
270563	76	286	299	2.88	43	24	29.91	230.890
280563	75	298	335	2.96	43	24	30.26	269.540
290563	75	307	361	3.01	43	24	30.60	299.230
300563	75	314	402	3.05	43	24	30.85	340.820
310563	75	315	449	3.06	43	24	30.85	381.870
10663	75	309	482	3.02	43	24	30.69	402.130
20663	74	305	528	3.00	43	23	30.52	434.810
30663	74	305	550	3.00	43	23	30.52	452.930
40663	74	314	557	3.05	43	23	30.85	472.220
50663	74	319	554	3.08	43	23	31.01	477.160
60663	75	320	435	3.09	43	23	31.00	375.840
70663	76	318	402	3.08	43	24	30.92	345.160
80663	76	309	368	3.02	43	24	30.69	307.020
90663	77	301	339	2.97	43	24	30.44	275.510
100663	78	292	306	2.92	43	24	30.09	241.250
110663	78	283	286	2.86	43	24	29.82	218.530
120663	79	274	285	2.81	43	24	29.45	210.840
130663	80	266	282	2.75	43	24	29.25	202.530
140663	81	257	279	2.70	43	25	28.85	193.600
150663	81	253	277	2.67	43	25	28.74	189.220
160663	83	251	278	2.66	43	25	28.63	188.460
170663	79	255	267	2.68	43	25	28.84	183.830
180663	83	259	223	2.71	43	25	28.95	155.940
190663	82	264	227	2.74	43	25	29.15	161.810
200663	83	268	231	2.77	43	25	29.25	167.150
210663	82	271	240	2.79	43	25	29.35	175.610
220663	82	271	253	2.79	43	25	29.35	185.120
230663	82	271	265	2.79	43	25	29.35	193.900
240663	82	268	282	2.77	43	25	29.25	204.060
250663	82	264	294	2.74	43	25	29.15	209.560
260663	82	254	300	2.68	43	25	28.74	205.740
270663	82	243	308	2.60	43	25	28.40	202.060
280663	83	238	307	2.57	43	25	28.18	197.280
290663	83	234	308	2.54	43	25	28.05	194.590
300663	82	232	306	2.53	43	25	27.94	191.680
10763	82	240	305	2.58	43	25	28.29	197.640
20763	82	234	293	2.54	43	25	28.05	185.120
30763	82	230	287	2.52	43	25	27.83	178.230
40763	83	228	281	2.50	43	25	27.81	172.980
50763	84	225	260	2.48	43	25	27.69	157.950
60763	84	221	244	2.45	43	25	27.55	145.590
70763	84	218	223	2.43	43	25	27.42	131.260
80763	85	218	202	2.43	43	25	27.42	118.500
90763	86	219	181	2.44	43	26	27.43	107.030
100763	86	218	176	2.43	43	26	27.42	103.590
110763	86	218	171	2.43	43	26	27.42	100.650
120763	86	216	166	2.42	43	26	27.30	96.810
130763	85	212	176	2.39	43	26	27.16	100.740
140763	85	208	186	2.36	43	26	27.01	104.460
150763	85	201	216	2.31	43	26	26.72	117.220
160763	85	198	246	2.29	43	26	26.57	131.510
170763	85	196	277	2.28	43	26	26.44	146.590
180763	86	196	307	2.28	43	26	26.44	162.460
190763	86	196	333	2.28	43	26	26.44	176.220
200763	86	196	358	2.28	43	26	26.44	189.450
210763	85	200	364	2.31	43	26	26.60	196.560
220763	85	204	359	2.34	43	26	26.76	197.740
230763	84	206	351	2.35	43	26	26.89	195.230
240763	85	208	332	2.36	43	25	27.01	186.450
250763	85	208	304	2.36	43	25	27.01	170.730
260763	82	212	265	2.39	43	25	27.16	151.690
270763	83	218	262	2.43	43	26	27.42	154.210
280763	83	223	244	2.47	43	26	27.57	146.910
290763	84	228	229	2.50	43	26	27.81	140.970
300763	84	230	221	2.52	43	26	27.83	137.240
310763	84	230	219	2.52	43	26	27.83	136.000
10863	84	230	216	2.52	43	26	27.83	134.140
20863	85	225	219	2.48	43	26	27.69	133.040
30863	85	221	215	2.45	43	26	27.55	128.290
40863	85	214	212	2.41	43	26	27.18	122.490
50863	85	209	211	2.37	43	26	27.02	119.070
60863	85	206	204	2.35	43	26	26.89	113.460
70863	85	204	198	2.34	43	26	26.76	109.060
80863	86	203	191	2.33	43	26	26.75	104.690
90863	86	201	178	2.31	43	27	26.72	96.600

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
100863	87	201	166	2.31	43	27	26.72	90.090
110863	88	200	160	2.31	43	27	26.60	86.400
120863	88	200	153	2.31	43	27	26.60	82.620
130863	88	201	148	2.31	43	27	26.72	80.320
140863	88	201	145	2.31	43	27	26.72	78.690
150863	88	200	139	2.31	43	26	26.60	75.060
160863	88	194	132	2.26	43	26	26.41	69.670
170863	87	190	127	2.23	43	26	26.24	65.150
180863	86	189	121	2.23	43	26	26.12	61.750
190863	86	188	111	2.22	43	26	26.11	56.340
200863	86	188	105	2.22	43	26	26.11	53.300
210863	86	188	95	2.22	43	26	26.11	48.220
220863	86	182	84	2.18	43	26	25.79	41.280
230863	86	170	79	2.09	43	26	25.22	36.260
240863	85	166	81	2.06	43	26	25.02	36.300
250863	85	164	83	2.04	43	26	24.57	36.750
260863	86	161	89	2.02	43	26	24.79	38.690
270863	86	161	93	2.02	43	26	24.79	40.430
280863	86	161	99	2.02	43	26	24.79	43.040
290863	86	161	103	2.02	43	26	24.79	44.770
300863	86	160	108	2.01	43	26	24.76	46.660
310863	86	160	113	2.01	43	26	24.76	48.820
10963	86	161	118	2.02	43	26	24.79	51.290
20963	86	160	123	2.01	43	26	24.76	53.140
30963	86	157	128	1.99	43	26	24.57	54.260
40963	85	157	133	1.99	43	26	24.57	56.380
50963	86	160	135	2.01	43	26	24.76	58.320
60963	86	162	133	2.02	43	26	24.92	58.170
70963	86	166	128	2.06	43	26	25.02	57.370
80963	85	166	123	2.06	43	26	25.02	55.130
90963	85	162	118	2.02	43	26	24.92	51.610
100963	85	157	108	1.99	43	26	24.57	45.780
110963	85	156	103	1.98	43	26	24.54	43.380
120963	85	155	95	1.98	43	26	24.54	40.010
130963	82	156	89	1.98	43	26	24.54	37.490
140963	84	153	85	1.95	43	26	24.46	35.110
150963	84	150	83	1.93	43	26	24.26	33.620
160963	83	147	77	1.91	43	26	24.06	30.560
170963	82	147	72	1.91	43	26	24.06	28.580
180963	82	150	71	1.93	43	26	24.26	28.750
190963	81	150	70	1.93	43	26	24.26	28.350
200963	81	151	70	1.94	43	26	24.29	28.540
210963	80	156	73	1.98	43	26	24.54	30.750
220963	80	156	79	1.98	43	26	24.54	33.270
230963	80	155	87	1.97	43	26	24.51	36.410
240963	80	152	89	1.95	43	26	24.32	36.530
250963	80	149	92	1.92	43	26	24.23	37.010
260963	79	146	94	1.90	43	26	24.02	37.050
270963	78	144	98	1.88	43	26	23.96	38.100
280963	78	144	101	1.88	43	26	23.96	39.270
290963	77	141	103	1.86	43	26	23.75	39.210
300963	76	134	107	1.80	43	26	23.38	38.710
11063	73	134	107	1.80	43	23	23.38	38.710
21063	73	134	112	1.80	43	23	23.38	40.520
31063	72	134	132	1.80	43	23	23.38	47.760
41063	72	134	121	1.80	43	23	23.38	43.780
51063	71	132	112	1.78	43	22	23.31	39.920
61063	72	130	111	1.77	43	23	23.11	38.960
71063	72	129	107	1.76	43	23	23.07	37.270
81063	72	129	103	1.76	43	23	23.07	35.870
91063	72	129	100	1.76	43	23	23.07	34.830
101063	73	128	98	1.75	43	23	23.03	33.870
111063	72	128	94	1.75	43	23	23.03	32.490
121063	72	128	93	1.75	43	23	23.03	32.140
131063	72	127	91	1.74	43	23	22.99	31.200
141063	72	127	90	1.74	43	23	22.99	30.860
151063	70	127	87	1.74	43	22	22.99	29.830
161063	69	127	85	1.74	43	22	22.99	29.150
171063	69	127	82	1.74	43	22	22.99	28.120
181063	69	127	81	1.74	43	22	22.99	27.770
191063	73	126	78	1.73	43	23	22.95	26.540
201063	73	125	76	1.72	43	23	22.91	25.650
211063	70	124	73	1.71	43	22	22.86	24.440
221063	70	124	69	1.71	43	22	22.86	23.100
231063	69	124	67	1.71	43	22	22.86	22.430
241063	70	124	64	1.71	43	22	22.86	21.430
251063	67	128	62	1.75	43	21	23.03	21.430
261063	66	128	62	1.75	43	21	23.03	21.430
271063	67	128	61	1.75	43	21	23.03	21.080
281063	67	129	61	1.76	43	21	23.07	21.250
291063	69	129	61	1.76	43	22	23.07	21.250
301063	67	128	61	1.75	43	21	23.03	21.080
311063	67	128	63	1.75	43	21	23.03	21.770
11163	65	128	63	1.75	43	21	23.03	21.770
21163	64	128	63	1.75	43	21	23.03	21.770
31163	63	128	64	1.75	43	20	23.03	22.120
41163	63	127	64	1.74	43	20	22.99	21.950
51163	62	129	64	1.76	43	20	23.07	22.290
61163	61	129	63	1.76	43	20	23.07	21.940
71163	61	129	64	1.76	43	20	23.07	22.290
81163	60	129	62	1.76	43	20	23.07	21.590
91163	58	132	60	1.78	43	19	23.31	21.380
101163	58	134	58	1.80	43	19	23.38	20.980
111163	58	134	57	1.80	43	19	23.38	20.620
121163	60	134	57	1.80	43	20	23.38	20.620
131163	57	133	57	1.79	43	19	23.34	20.470
141163	57	133	57	1.79	43	19	23.34	20.470
151163	59	136	57	1.82	43	19	23.46	20.930
161163	58	139	58	1.84	43	19	23.68	21.770
171163	58	140	63	1.85	43	19	23.71	23.810
181163	57	141	69	1.86	43	19	23.75	26.270
191163	56	141	77	1.86	43	19	23.75	29.310
201163	59	141	86	1.86	43	19	23.75	32.740
211163	59	140	94	1.85	43	19	23.71	35.530

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
221163	58	139	98	1.84	43	19	23.68	36.780
231163	55	138	100	1.83	43	18	23.64	37.260
241163	54	137	102	1.82	43	18	23.60	37.730
251163	54	136	103	1.82	43	18	23.46	37.820
261163	54	135	104	1.81	43	18	23.42	37.910
271163	54	136	104	1.82	43	18	23.46	38.190
281163	55	139	105	1.84	43	18	23.68	39.410
291163	58	141	105	1.86	43	19	23.75	39.970
301163	58	145	105	1.89	43	19	23.99	41.110
11263	58	147	103	1.91	43	19	24.06	40.880
21263	54	151	101	1.94	43	18	24.29	41.180
31263	54	153	102	1.95	43	18	24.46	42.140
41263	54	151	101	1.94	43	18	24.29	41.180
51263	54	152	101	1.95	43	18	24.32	41.450
61263	53	157	101	1.99	43	18	24.57	42.810
71263	54	161	105	2.02	43	18	24.79	45.640
81263	53	166	111	2.06	43	18	25.02	49.750
91263	53	169	122	2.08	43	18	25.20	55.670
101263	52	169	148	2.08	43	18	25.20	67.530
111263	49	171	193	2.09	43	17	25.35	85.110
121263	47	174	213	2.12	43	16	25.42	100.070
131263	46	175	218	2.12	43	16	25.54	103.010
141263	45	175	212	2.12	43	16	25.54	100.170
151263	47	176	206	2.13	43	16	25.56	97.850
161263	47	175	200	2.12	43	16	25.54	94.500
171263	48	173	189	2.11	43	17	25.39	88.220
181263	49	171	178	2.09	43	17	25.35	82.180
191263	48	170	171	2.09	43	17	25.22	78.490
201263	50	171	157	2.09	43	17	25.35	72.490
211263	50	173	151	2.11	43	17	25.39	70.530
221263	47	173	146	2.11	43	16	25.39	68.200
231263	48	173	140	2.11	43	17	25.39	65.390
241263	48	170	135	2.09	43	17	25.22	61.970
251263	48	166	125	2.06	43	17	25.02	56.030
261263	47	161	123	2.02	43	16	24.79	53.470
271263	50	155	118	1.97	43	17	24.51	49.380
281263	50	151	116	1.94	43	17	24.29	47.290
291263	50	146	112	1.90	43	17	24.02	44.150
301263	47	142	110	1.87	43	16	23.78	42.170
311263	45	136	108	1.82	43	16	23.46	39.660
10164	40	128	106	1.84	43	14	22.34	36.630
20164	40	125	107	1.82	43	14	22.10	36.110
30164	43	125	107	1.82	43	15	22.10	36.110
40164	40	125	111	1.82	43	14	22.10	37.460
50164	40	124	115	1.81	43	14	22.06	38.500
60164	40	122	122	1.80	43	14	21.85	40.130
70164	40	120	132	1.78	43	14	21.77	42.770
80164	40	120	141	1.78	43	14	21.77	45.680
90164	39	120	151	1.78	43	14	21.77	48.920
100164	39	123	161	1.81	43	14	21.85	53.470
110164	40	126	182	1.83	43	14	22.14	61.920
120164	39	133	204	1.88	43	14	22.65	73.260
130164	37	146	266	1.97	43	13	23.55	104.860
140164	39	154	359	2.03	43	14	24.00	149.270
150164	39	162	421	2.08	43	14	24.54	184.150
160164	39	192	464	2.27	43	14	26.29	240.540
170164	40	225	506	2.46	43	14	28.07	307.400
180164	40	240	488	2.54	43	14	28.85	316.220
190154	39	250	489	2.60	43	14	29.25	289.570
200164	40	256	620	2.63	43	14	29.56	250.210
210164	39	256	321	2.63	43	14	29.56	221.680
220164	39	255	300	2.62	43	14	29.57	206.550
230164	45	254	280	2.62	43	16	29.46	192.020
240164	46	248	258	2.58	43	16	29.27	172.760
250164	46	248	247	2.58	43	16	29.27	165.390
260164	47	237	235	2.53	43	16	28.62	150.380
270164	48	217	223	2.41	43	17	27.71	130.660
280164	47	208	212	2.36	43	16	27.22	119.060
290164	45	204	211	2.34	43	16	26.96	116.220
300164	48	204	215	2.34	43	17	26.96	118.420
310164	49	213	217	2.39	43	17	27.47	124.800
10264	48	223	221	2.45	43	17	27.95	133.060
20264	48	235	233	2.51	43	17	28.63	147.840
30264	48	250	248	2.60	43	17	29.25	167.400
40264	48	265	365	2.67	43	17	30.06	261.160
50264	47	273	356	2.71	43	16	30.44	262.410
60264	47	279	356	2.74	43	16	30.71	268.170
70264	47	280	342	2.75	43	16	30.70	258.550
80264	48	278	326	2.74	43	17	30.61	244.700
90264	45	273	309	2.71	43	16	30.44	227.760
100264	48	267	290	2.68	43	17	30.16	209.060
110264	47	260	270	2.65	43	16	29.76	189.540
120264	45	252	249	2.61	43	16	29.36	169.420
130264	50	244	237	2.56	43	17	29.06	156.140
140264	48	232	224	2.50	43	17	28.41	140.310
150264	50	225	212	2.46	43	17	28.07	128.790
160264	46	221	212	2.44	43	16	27.83	126.500
170264	50	220	212	2.43	43	17	27.83	125.930
180264	50	225	217	2.46	43	17	28.07	131.630
190264	46	230	222	2.49	43	16	28.29	137.860
200264	47	233	227	2.50	43	16	28.52	142.810
210264	47	234	232	2.51	43	16	28.52	146.580
220264	48	237	234	2.52	43	17	28.62	149.740
230264	47	239	237	2.54	43	16	28.73	152.940
240264	44	246	242	2.57	43	16	29.17	160.740
250264	46	262	263	2.66	43	16	29.86	186.050
260264	46	281	283	2.75	43	16	30.80	214.710
270264	47	295	244	2.82	43	16	31.41	194.350
280264	47	302	224	2.86	43	16	31.64	182.650
290264	48	304	236	2.87	43	17	31.72	193.710
10364	48	304	267	2.87	43	17	31.72	219.150
20364	48	312	298	2.91	43	17	32.04	251.040
30364	52	327	350	2.98	43	18	32.67	309.020
40364	52	307	402	2.88	43	18	31.90	333.220

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
50364	52	302	444	2.86	43	18	31.64	362.040
60364	49	281	477	2.75	43	17	30.80	361.900
70364	54	261	500	2.65	43	18	29.87	352.350
80364	52	249	514	2.59	43	18	29.26	345.560
90364	50	249	554	2.59	43	17	29.26	372.550
100364	50	272	630	2.71	43	17	30.33	462.670
110364	50	312	700	2.91	43	17	32.04	589.680
120364	55	390	805	3.26	43	18	35.12	847.670
130364	56	476	995	3.60	43	19	38.20	227.370
140364	56	559	45	3.91	43	19	40.77	577.220
150364	56	640	145	4.19	43	19	43.08	978.560
160364	53	702	220	4.39	43	18	44.77	313.390
170364	57	741	175	4.52	43	19	45.69	350.820
180364	48	766	60	4.59	43	17	46.40	192.290
190364	51	798	975	4.69	43	18	47.15	100.740
200364	49	823	908	4.77	43	17	47.69	17.670
210364	48	835	855	4.80	43	17	48.02	927.600
220364	49	851	800	4.85	43	17	48.36	828.160
230364	54	862	770	4.88	43	18	48.64	792.100
240364	54	872	730	4.91	43	18	48.86	718.710
250364	59	886	682	4.95	43	19	49.18	631.480
260364	56	896	635	4.98	43	19	49.39	536.190
270364	55	904	590	5.00	43	18	49.59	440.070
280364	54	916	555	5.03	43	18	49.90	372.630
290364	55	923	490	5.05	43	18	50.05	221.130
300364	54	927	450	5.06	43	18	50.15	126.310
310364	54	934	425	5.08	43	18	50.30	71.770
10464	54	936	389	5.09	43	18	50.30	983.080
20464	56	939	382	5.10	43	19	50.35	968.480
30464	55	941	370	5.10	43	18	50.45	940.060
40464	56	939	358	5.10	43	19	50.35	907.640
50464	56	947	356	5.12	43	19	50.55	910.260
60464	58	951	349	5.13	43	19	50.64	896.130
70464	63	944	347	5.11	43	20	50.50	884.430
80464	63	924	345	5.06	43	20	50.00	860.710
90464	57	911	338	5.02	43	19	49.75	831.380
100464	60	885	336	4.95	43	20	49.12	802.870
110464	57	865	332	4.89	43	19	48.69	775.390
120464	60	843	330	4.83	43	20	48.14	751.110
130464	62	832	318	4.79	43	20	47.97	714.360
140464	60	832	316	4.79	43	20	47.97	709.860
150464	59	843	324	4.83	43	19	48.14	737.460
160464	59	829	323	4.78	43	19	47.91	722.970
170464	59	840	322	4.82	43	19	48.09	730.300
180464	61	843	321	4.83	43	20	48.14	730.630
190464	64	843	320	4.83	43	21	48.14	728.350
200464	62	840	320	4.82	43	20	48.09	725.760
210464	62	810	317	4.73	43	20	47.39	693.280
220464	64	778	314	4.63	43	21	46.65	659.590
230464	65	761	307	4.58	43	21	46.21	630.750
240464	66	744	301	4.53	43	21	45.76	604.650
250464	66	737	295	4.51	43	21	45.57	587.020
260464	65	734	292	4.50	43	21	45.50	576.690
270464	65	745	289	4.53	43	21	45.82	581.320
280464	67	737	286	4.51	43	21	45.57	569.110
290464	65	729	285	4.48	43	21	45.42	560.970
300464	67	737	292	4.51	43	21	45.57	581.050
10564	70	887	297	4.95	43	22	49.23	711.290
20564	71	938	312	5.10	43	22	50.30	790.170
30564	69	958	336	5.15	43	22	50.79	869.100
40564	68	970	355	5.18	43	22	51.08	929.740
50564	68	977	372	5.20	43	22	51.22	981.300
60564	68	981	384	5.21	43	22	51.31	17.100
70564	68	984	381	5.22	43	22	51.36	12.240
80564	70	977	377	5.20	43	22	51.22	994.450
90564	70	978	368	5.21	43	22	51.16	971.740
100564	71	980	338	5.21	43	22	51.26	894.350
110564	71	990	318	5.24	43	22	51.44	850.010
120564	71	0	304	0.0	43	22	0.0	621.000
130564	69	15	295	0.02	43	22	5.24	809.000
140564	69	981	289	5.21	43	22	51.31	765.470
150564	70	975	293	5.20	43	22	51.12	771.320
160564	71	952	298	5.13	43	22	50.69	765.980
170564	72	919	307	5.04	43	23	49.95	761.760
180564	71	887	317	4.95	43	22	49.23	759.180
190564	73	853	321	4.85	43	23	48.47	739.300
200564	73	808	333	4.72	43	23	47.39	726.470
210564	73	763	334	4.59	43	23	46.22	708.670
220564	74	704	360	4.40	43	23	44.78	684.290
230564	73	649	378	4.22	43	23	43.33	662.370
240564	73	608	394	4.08	43	23	42.21	646.790
250564	75	560	412	3.92	43	24	40.73	622.940
260564	76	521	438	3.77	43	24	39.63	616.130
270564	75	484	464	3.64	43	24	38.36	606.360
280564	78	458	490	3.53	43	24	37.60	605.930
290564	77	428	505	3.41	43	24	36.57	583.580
300564	76	405	511	3.32	43	24	35.70	556.780
310564	76	389	519	3.25	43	24	35.14	545.110
10664	77	378	511	3.20	43	24	34.77	521.530
20664	76	367	502	3.16	43	24	34.26	497.430
30664	74	360	445	3.13	43	23	33.98	432.540
40664	75	353	328	3.09	43	24	33.81	312.620
50664	75	352	300	3.09	43	24	33.72	285.120
60664	75	359	286	3.12	43	24	34.00	277.220
70664	75	359	282	3.12	43	24	34.00	273.340
80664	77	361	276	3.13	43	24	34.07	269.020
90664	77	375	285	3.19	43	24	34.62	288.560
100664	78	367	295	3.16	43	24	34.26	292.320
110664	78	340	315	3.04	43	24	33.19	289.170
120664	78	321	362	2.95	43	24	32.45	313.750
130664	80	300	409	2.85	43	25	31.56	331.290
140664	79	288	448	2.79	43	25	31.05	346.360
150664	80	285	462	2.77	43	25	30.98	355.510
160664	82	276	448	2.73	43	25	30.52	333.650

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	CIS CFS 1000	SED PPM	VEL F/S	SLP SVEL F/S 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
170664	81	270	439	2.70	43	25	30.24	320.030
180664	81	263	419	2.66	43	25	29.96	297.530
190664	82	265	390	2.68	43	25	30.05	280.100
200664	82	265	371	2.67	43	25	30.06	265.450
210664	83	263	370	2.66	43	25	29.96	262.740
220664	83	261	368	2.65	43	25	29.87	259.330
230664	83	263	374	2.66	43	25	29.96	265.580
240664	83	309	388	2.89	43	25	31.98	323.710
250664	83	360	412	3.13	43	25	33.58	400.460
260664	83	403	445	3.31	43	25	35.65	484.200
270664	82	431	478	3.43	43	25	36.59	556.250
280664	82	443	511	3.47	43	25	37.10	611.210
290664	83	443	534	3.47	43	25	37.10	638.720
300664	82	416	577	3.37	43	25	36.05	648.090
10764	82	422	607	3.39	43	25	36.31	691.620
20764	83	430	638	3.42	43	25	36.62	740.720
30764	82	437	679	3.45	43	25	36.84	801.150
40764	82	437	710	3.45	43	25	36.84	837.730
50764	82	422	741	3.39	43	25	36.31	844.300
60764	82	409	761	3.34	43	25	35.81	840.370
70764	83	394	780	3.27	43	25	35.34	829.760
80764	83	373	800	3.18	43	25	34.56	805.680
90764	83	356	819	3.11	43	25	33.85	787.220
100764	83	332	838	3.00	43	25	32.91	751.180
110764	83	306	832	2.88	43	25	31.80	687.400
120764	84	287	837	2.78	43	26	31.07	648.590
130764	84	276	820	2.73	43	26	30.52	611.060
140764	84	270	807	2.70	43	26	30.24	588.300
150764	83	258	776	2.64	43	25	29.66	540.560
160764	83	266	734	2.68	43	25	30.05	527.160
170764	83	262	673	2.66	43	25	29.86	476.080
180764	83	260	532	2.65	43	25	29.76	372.460
190764	83	257	411	2.63	43	25	29.67	285.190
200764	83	256	361	2.63	43	25	29.56	249.520
210764	83	245	340	2.57	43	25	29.17	225.830
220764	84	244	305	2.56	43	26	29.06	200.930
230764	84	242	300	2.55	43	26	28.95	196.020
240764	83	242	295	2.55	43	25	28.95	192.750
250764	83	242	290	2.55	43	25	28.95	189.490
260764	83	240	290	2.54	43	25	28.85	187.920
270764	83	238	290	2.52	43	25	28.74	186.350
280764	85	235	290	2.51	43	26	28.63	184.010
290764	84	230	290	2.49	43	26	28.29	180.090
300764	83	225	292	2.46	43	25	28.07	177.390
310764	84	215	295	2.40	43	26	27.59	171.250
10864	84	208	289	2.36	43	26	27.22	162.300
20864	83	204	289	2.34	43	25	26.96	159.180
30864	83	198	288	2.30	43	25	26.69	153.960
40864	84	192	288	2.27	43	26	26.29	149.300
50864	83	189	282	2.25	43	25	26.14	143.900
60864	84	187	282	2.24	43	26	26.00	142.380
70864	84	184	277	2.22	43	26	25.85	137.610
80864	83	174	268	2.16	43	25	25.24	125.910
90864	84	168	238	2.12	43	26	24.90	107.960
100864	84	164	208	2.09	43	26	24.70	92.100
110864	85	163	178	2.09	43	26	24.56	78.340
120864	85	163	163	2.09	43	26	24.56	71.740
130864	84	163	147	2.09	43	26	24.56	64.690
140864	84	165	137	2.10	43	26	24.72	61.030
150864	84	165	132	2.10	43	26	24.72	58.810
160864	84	165	125	2.10	43	26	24.72	55.690
170864	81	165	116	2.10	43	25	24.72	51.680
180864	84	160	114	2.07	43	26	24.38	49.250
190864	83	159	109	2.06	43	25	24.36	46.790
200864	84	159	106	2.06	43	26	24.36	45.510
210864	83	157	106	2.05	43	25	24.19	44.930
220864	83	156	106	2.04	43	25	24.17	44.650
230864	82	155	106	2.03	43	25	24.15	44.360
240864	81	163	109	2.09	43	25	24.56	47.970
250864	81	165	112	2.10	43	25	24.72	49.900
260864	81	166	114	2.11	43	25	24.74	51.090
270864	81	157	116	2.05	43	25	24.19	49.170
280864	81	157	118	2.05	43	25	24.19	50.020
290864	83	158	116	2.05	43	25	24.34	49.490
300864	80	165	113	2.10	43	25	24.72	50.340
310864	83	168	112	2.12	43	25	24.90	50.860
10964	82	174	112	2.16	43	25	25.24	52.620
20964	84	172	111	2.14	43	26	25.21	51.550
30964	84	174	107	2.16	43	26	25.24	50.270
40964	83	174	103	2.16	43	25	25.24	48.390
50964	84	174	102	2.16	43	26	25.24	47.920
60964	81	174	102	2.16	43	25	25.24	47.920
70964	80	184	102	2.22	43	25	25.85	50.670
80964	80	188	105	2.24	43	25	26.13	53.300
90964	83	183	107	2.21	43	25	25.84	52.870
100964	80	187	110	2.24	43	25	26.00	55.540
110964	82	184	122	2.22	43	25	25.88	60.610
120964	80	168	132	2.12	43	25	24.90	56.880
130964	79	169	151	2.13	43	25	24.91	68.900
140964	79	168	161	2.12	43	25	24.90	73.030
150964	79	166	165	2.11	43	25	24.74	73.950
160964	79	164	173	2.09	43	25	24.70	76.600
170964	77	164	165	2.09	43	24	24.70	73.060
180964	78	163	150	2.09	43	24	24.56	66.010
190964	78	163	131	2.09	43	24	24.56	57.650
200964	78	164	117	2.09	43	24	24.70	51.810
210964	83	166	109	2.11	43	25	24.74	48.850
220964	83	168	105	2.12	43	25	24.90	47.630
230964	83	171	103	2.14	43	25	25.07	47.560
240964	83	169	109	2.13	43	25	24.91	49.740
250964	83	165	122	2.10	43	25	24.72	54.350
260964	83	162	145	2.08	43	25	24.54	63.420
270964	83	158	168	2.05	43	25	24.34	71.670
280964	83	157	197	2.05	43	25	24.19	83.510

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	CIS CFS 1000	SED PPM	VEL F/S	SLP SVEL F/S 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
290964	83	158	216	2.05	43	25	24.34	92.150
300964	83	166	232	2.11	43	25	24.74	103.980
11064	72	171	316	2.14	43	23	25.07	145.900
21064	72	175	347	2.16	43	23	25.37	163.960
31064	72	179	374	2.19	43	23	25.55	180.750
41064	72	203	398	2.33	43	23	26.96	216.140
51064	74	257	414	2.63	43	23	29.67	287.270
61064	72	251	421	2.60	43	23	29.36	285.310
71064	72	241	428	2.55	43	23	28.84	278.500
81064	74	231	433	2.49	43	23	28.41	270.060
91064	74	225	439	2.46	43	23	28.07	266.690
101064	74	225	423	2.46	43	23	28.07	256.970
111064	74	223	404	2.45	43	23	27.95	243.250
121064	74	218	385	2.42	43	23	27.71	226.610
131064	74	249	356	2.59	43	23	29.26	239.340
141064	74	214	321	2.40	43	23	27.47	185.470
151064	74	208	292	2.36	43	23	27.22	163.990
161064	74	207	272	2.36	43	23	27.10	152.020
171064	74	205	248	2.35	43	23	26.97	137.270
181064	74	201	231	2.32	43	23	26.83	125.360
191064	74	196	214	2.29	43	23	26.56	113.250
201064	76	184	201	2.22	43	24	25.85	99.860
211064	74	175	189	2.16	43	23	25.37	89.300
221064	73	172	179	2.14	43	23	25.21	83.130
231064	72	166	173	2.11	43	23	24.74	77.540
241064	72	164	165	2.09	43	23	24.70	73.060
251064	72	163	156	2.09	43	23	24.56	68.660
261064	72	162	148	2.08	43	23	24.54	64.740
271064	72	160	142	2.07	43	23	24.38	61.340
281064	72	150	138	2.00	43	23	23.76	55.890
291064	70	154	133	2.03	43	22	24.00	55.300
301064	67	156	131	2.04	43	21	24.17	55.180
311064	68	160	129	2.07	43	22	24.38	55.730
11164	69	162	128	2.08	43	22	24.54	55.590
21164	65	162	128	2.08	43	21	24.54	55.990
31164	65	155	127	2.03	43	21	24.15	53.150
41164	65	150	126	2.00	43	21	23.78	51.030
51164	65	150	121	2.00	43	21	23.78	49.010
61164	66	150	119	2.00	43	21	23.76	48.200
71164	65	155	117	2.03	43	21	24.15	48.960
81164	65	155	144	2.03	43	21	24.15	47.710
91164	63	154	112	2.03	43	20	24.00	46.570
101164	64	153	109	2.02	43	21	23.98	45.030
111164	63	153	106	2.02	43	20	23.98	43.790
121164	63	153	105	2.02	43	20	23.98	43.360
131164	63	160	102	2.07	43	20	24.38	44.060
141164	63	162	100	2.08	43	20	24.54	43.740
151164	61	158	99	2.05	43	20	24.34	42.230
161164	60	158	97	2.05	43	20	24.34	41.380
171164	60	159	95	2.06	43	20	24.36	40.780
181164	66	163	94	2.09	43	21	24.56	41.370
191164	61	159	92	2.06	43	20	24.36	39.500
201164	61	159	93	2.06	43	20	24.36	39.920
211164	61	159	93	2.06	43	20	24.36	39.920
221164	63	159	94	2.06	43	20	24.36	40.350
231164	59	159	99	2.06	43	19	24.36	42.500
241164	58	161	104	2.07	43	19	24.52	45.210
251164	58	164	113	2.09	43	19	24.70	50.040
261164	58	170	136	2.13	43	19	25.05	62.420
271164	58	191	177	2.26	43	19	26.28	91.280
281164	58	235	218	2.51	43	19	28.63	138.320
291164	57	295	260	2.82	43	19	31.41	207.090
301164	56	304	293	2.87	43	19	31.72	240.490
11264	56	285	331	2.77	43	19	30.98	254.700
21264	56	291	370	2.80	43	19	31.24	290.710
31264	55	291	397	2.80	43	18	31.24	311.920
41264	55	279	429	2.74	43	18	30.71	323.170
51264	55	289	457	2.79	43	18	31.15	356.600
61264	55	298	488	2.84	43	18	31.48	392.640
71264	55	309	509	2.89	43	18	31.58	424.660
81264	54	313	530	2.91	43	18	32.14	447.900
91264	54	315	547	2.92	43	18	32.22	465.220
101264	54	323	564	2.96	43	18	32.52	491.860
111264	55	354	569	3.10	43	18	33.78	543.850
121264	52	389	575	3.25	43	18	35.14	603.920
131264	50	399	575	3.29	43	17	35.54	619.450
141264	49	406	581	3.32	43	17	35.78	636.890
151264	48	409	577	3.34	43	17	35.81	637.180
161264	48	409	578	3.34	43	17	35.81	638.290
171264	47	409	568	3.34	43	16	35.81	627.240
181264	42	411	566	3.34	43	15	35.97	628.090
191264	43	415	564	3.36	43	15	36.08	631.960
201264	45	418	555	3.37	43	16	36.21	626.370
211264	40	421	552	3.39	43	14	36.23	627.460
221264	44	424	545	3.40	43	16	36.36	623.920
231264	42	420	538	3.38	43	15	36.26	610.090
241264	41	420	531	3.38	43	15	36.26	602.150
251264	38	412	521	3.35	43	14	35.94	579.560
261264	43	399	515	3.29	43	15	35.54	554.810
271264	38	383	505	3.22	43	14	34.86	522.220
281264	42	366	495	3.15	43	15	34.28	489.160
291264	42	344	478	3.05	43	15	33.45	443.970
301264	41	319	469	2.94	43	15	32.37	403.950
311264	40	316	459	2.92	43	14	32.31	391.620
10165	50	298	454	3.15	43	17	28.26	365.290
20165	50	297	452	3.15	43	17	28.20	362.460
30165	52	299	453	3.16	43	18	28.30	365.710
40165	49	305	454	3.19	43	17	28.57	373.870
50165	52	313	466	3.23	43	18	28.92	393.820
60165	51	320	487	3.27	43	18	29.22	420.770
70165	50	328	510	3.31	43	17	29.57	461.660
80165	51	334	535	3.34	43	18	29.82	482.460
90165	55	339	558	3.37	43	18	30.03	510.740
100165	50	351	588	3.43	43	17	30.53	557.250

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 1E-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
110165	50	370	614	3.52	43	17	31.31	613.390
120165	51	401	655	3.67	43	18	32.52	709.170
130165	50	441	671	3.85	43	17	34.02	798.960
140165	53	475	698	3.99	43	18	35.25	895.190
150165	48	502	733	4.11	43	17	36.18	993.510
160165	52	526	748	4.20	43	18	37.00	62.310
170165	46	549	764	4.30	43	16	37.75	132.480
180165	49	569	770	4.37	43	17	38.41	182.950
190165	47	573	774	4.39	43	16	38.53	197.460
200165	47	577	780	4.40	43	16	38.67	215.160
210165	49	573	744	4.39	43	17	38.53	151.040
220165	47	570	690	4.38	43	16	38.44	61.910
230165	45	570	620	4.38	43	16	38.44	954.180
240165	45	559	550	4.33	43	16	38.09	830.110
250165	50	539	465	4.26	43	17	37.43	676.710
260165	46	514	385	4.15	43	16	36.60	534.300
270165	48	492	223	4.06	43	17	35.85	296.230
280165	46	463	227	3.94	43	16	34.83	283.770
290165	48	433	237	3.81	43	17	33.73	277.080
300165	47	405	250	3.68	43	16	32.68	273.360
310165	48	382	271	3.58	43	17	31.78	279.510
10265	47	370	381	3.52	43	16	31.31	380.620
20265	45	369	388	3.51	43	16	31.27	386.560
30265	44	378	404	3.56	43	16	31.62	412.320
40265	43	388	402	3.60	43	15	32.03	421.140
50265	43	397	418	3.65	43	15	32.37	448.050
60265	45	406	433	3.69	43	16	32.72	474.650
70265	43	407	446	3.69	43	15	32.76	490.110
80265	42	405	466	3.68	43	15	32.68	509.570
90265	45	404	477	3.68	43	16	32.64	520.310
100265	45	402	481	3.67	43	16	32.57	522.080
110265	45	404	500	3.68	43	16	32.64	545.400
120265	45	407	529	3.69	43	16	32.76	581.320
130265	45	400	568	3.66	43	16	32.49	613.440
140265	45	396	606	3.64	43	16	32.34	647.940
150265	45	419	649	3.75	43	16	33.21	734.210
160265	51	469	705	3.97	43	18	35.03	892.740
180265	45	595	772	4.47	43	16	39.23	240.220
170265	45	536	737	4.24	43	16	37.34	66.590
190265	48	644	790	4.66	43	17	40.73	373.650
200265	49	685	802	4.80	43	17	41.95	483.300
210265	48	712	811	4.90	43	17	42.72	559.670
220265	47	744	795	5.01	43	16	43.62	597.000
230265	48	767	779	5.09	43	17	44.25	613.230
240265	47	773	756	5.11	43	16	44.42	577.850
250265	46	770	725	5.10	43	16	44.33	507.280
260265	50	754	688	5.04	43	17	43.90	400.630
270265	47	735	644	4.98	43	16	43.37	278.020
280265	48	713	616	4.90	43	17	42.75	185.860
10365	47	700	550	4.86	43	16	42.37	39.500
20365	50	676	521	4.77	43	17	41.68	950.930
30365	48	640	494	4.64	43	17	40.61	853.630
40365	48	606	478	4.51	43	17	39.58	782.100
50365	45	580	458	4.42	43	16	38.75	717.230
60365	45	567	453	4.37	43	16	38.34	693.500
70365	46	559	444	4.32	43	16	38.09	670.130
80365	46	564	438	4.35	43	10	38.25	666.590
90365	47	573	437	4.39	43	16	38.53	676.080
100365	48	584	437	4.43	43	17	38.89	689.060
110365	48	598	439	4.48	43	17	39.33	708.610
120365	47	617	437	4.56	43	16	39.91	728.000
130365	47	635	433	4.62	43	16	40.46	742.380
140365	46	648	429	4.67	43	16	40.85	750.560
150365	47	657	425	4.70	43	16	41.12	752.910
160365	48	664	414	4.73	43	17	41.33	742.220
170365	50	667	405	4.74	43	17	41.42	729.360
180365	50	665	393	4.73	43	17	41.36	705.630
190365	47	659	382	4.71	43	16	41.18	679.690
200365	45	651	375	4.68	43	16	40.94	656.140
210365	46	645	373	4.66	43	16	40.76	649.580
220365	47	638	371	4.63	43	16	40.56	636.080
230365	50	625	369	4.59	43	17	40.15	622.690
240365	50	615	368	4.55	43	17	39.85	611.060
250365	49	607	379	4.52	43	17	39.60	621.140
260365	49	607	388	4.52	43	17	39.60	635.890
270365	48	613	411	4.54	43	17	39.79	680.250
280365	48	623	441	4.58	43	17	40.09	741.810
290365	48	636	478	4.63	43	17	40.49	820.820
300365	51	660	530	4.71	43	18	41.21	944.460
310365	47	677	582	4.77	43	16	41.72	63.840
10465	50	682	620	4.79	43	17	41.86	141.670
20465	52	688	650	4.81	43	18	42.04	207.440
30465	51	698	673	4.85	43	18	42.32	266.340
40465	49	712	696	4.90	43	17	42.72	337.990
50465	54	727	699	4.95	43	18	43.15	372.070
60465	55	742	666	5.00	43	18	43.57	334.260
70465	54	756	640	5.05	43	18	43.95	306.370
80465	54	768	612	5.09	43	18	44.28	269.040
90465	55	779	585	5.13	43	18	44.58	230.430
100465	57	780	575	5.13	43	19	44.61	210.950
110465	58	780	558	5.13	43	19	44.61	175.150
120465	59	781	548	5.13	43	19	44.64	155.570
130465	59	826	545	5.26	43	19	45.84	215.460
140465	60	874	548	5.43	43	20	47.09	293.170
150465	62	869	551	5.42	43	20	46.96	292.810
160465	59	864	539	5.40	43	19	46.83	257.360
170465	60	883	560	5.46	43	20	47.32	335.100
180465	61	900	577	5.51	43	20	47.75	402.110
190465	61	917	580	5.57	43	20	48.17	436.020
200465	64	923	560	5.58	43	21	48.33	395.560
210465	62	927	544	5.60	43	20	48.42	361.580
220465	64	929	528	5.60	43	21	48.48	324.360
230465	65	936	496	5.62	43	21	48.65	253.490
240465	65	930	490	5.61	43	21	48.49	230.390

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
250465	65	922	485	5.58	43	21	48.30	207.360
260465	65	919	472	5.57	43	21	48.23	171.170
270465	65	918	439	5.57	43	21	48.20	88.110
280465	65	919	385	5.57	43	21	48.23	955.300
290465	64	886	276	5.47	43	21	47.35	660.250
300465	63	858	224	5.38	43	20	46.68	518.520
10565	63	860	239	5.39	43	20	46.73	554.960
20565	65	860	390	5.39	43	21	46.73	905.580
30565	65	858	431	5.38	43	21	46.68	998.450
40565	65	844	390	5.34	43	21	46.31	888.730
50565	65	828	308	5.29	43	21	45.89	688.560
60565	66	812	195	5.23	43	21	45.48	427.620
70565	67	800	164	5.19	43	21	45.16	354.240
80565	67	781	240	5.13	43	21	44.64	506.090
90565	67	768	371	5.09	43	21	44.28	769.310
100565	67	749	416	5.02	43	21	43.77	841.280
110565	67	725	429	4.95	43	21	43.11	860.930
120565	67	704	455	4.87	43	21	42.49	864.860
130565	67	676	482	4.77	43	21	41.68	879.750
140565	69	653	509	4.69	43	22	41.00	897.420
150565	69	633	540	4.62	43	22	40.40	922.910
160565	65	617	560	4.56	43	21	39.91	932.900
170565	71	601	589	4.50	43	22	39.41	955.770
180565	71	582	596	4.42	43	22	38.83	936.550
190565	72	564	597	4.35	43	22	38.25	909.110
200565	73	550	583	4.30	43	23	37.79	865.760
210565	73	531	565	4.22	43	23	37.17	810.040
220565	73	513	553	4.15	43	23	36.56	765.960
230565	73	500	538	4.10	43	23	36.12	726.300
240565	74	483	533	4.03	43	23	35.53	695.090
250565	75	471	524	3.98	43	24	35.10	666.370
260565	75	457	515	3.92	43	24	34.60	635.460
270565	75	442	508	3.85	43	24	34.07	606.250
280565	76	432	491	3.81	43	24	33.69	572.700
290565	75	417	480	3.74	43	24	33.13	540.430
300565	75	402	468	3.67	43	24	32.57	507.970
310565	75	388	448	3.60	43	24	32.03	469.320
10665	77	378	441	3.56	43	24	31.62	450.080
20665	78	373	436	3.53	43	24	31.43	439.100
30665	78	372	412	3.53	43	24	31.39	413.810
40665	78	372	386	3.53	43	24	31.39	387.700
50665	78	372	355	3.53	43	24	31.39	356.560
60665	79	367	341	3.50	43	25	31.19	337.900
70665	79	362	342	3.48	43	25	30.98	334.270
80665	79	362	362	3.48	43	25	30.98	354.800
90665	78	362	89	3.48	43	24	30.98	380.210
100665	77	358	450	3.46	43	24	30.82	434.940
110665	79	359	586	3.47	43	25	30.86	568.010
120665	79	367	728	3.50	43	25	31.19	721.380
130665	78	381	819	3.57	43	24	31.75	842.510
140665	79	401	870	3.67	43	25	32.52	941.950
150665	78	417	831	3.74	43	24	33.13	935.620
160665	78	431	958	3.80	43	24	33.66	114.820
170665	78	441	954	3.85	43	24	34.02	135.930
180665	79	444	945	3.86	43	25	34.14	132.870
190665	79	440	937	3.84	43	25	33.99	113.160
200665	78	435	930	3.82	43	24	33.81	92.280
210665	78	424	913	3.77	43	24	33.40	45.200
220665	78	434	876	3.81	43	24	33.78	26.500
230665	80	417	850	3.74	43	25	33.13	957.020
240665	78	407	830	3.69	43	24	32.76	912.090
250665	78	372	809	3.53	43	24	31.39	812.560
260665	79	366	779	3.50	43	25	31.15	769.810
270665	81	363	759	3.49	43	25	31.02	743.900
280665	79	359	738	3.47	43	25	30.86	715.340
290665	79	348	725	3.41	43	25	30.41	681.210
300665	79	339	714	3.37	43	25	30.03	653.520
10765	79	332	695	3.33	43	25	29.74	623.000
20765	80	327	652	3.31	43	25	29.52	575.650
30765	83	320	595	3.27	43	25	29.22	514.080
40765	83	311	535	3.22	43	25	28.83	449.240
50765	81	300	480	3.17	43	25	28.33	388.800
60765	81	286	410	3.09	43	25	27.70	316.600
70765	82	276	360	3.03	43	25	27.25	268.270
80765	80	272	320	3.01	43	25	27.05	235.010
90765	81	279	300	3.05	43	25	27.38	225.990
100765	82	295	370	3.14	43	25	28.11	294.700
110765	82	318	485	3.26	43	25	29.14	416.420
120765	82	339	580	3.37	43	25	30.03	530.870
130765	83	346	622	3.40	43	25	30.33	581.070
140765	83	347	641	3.41	43	25	30.36	600.550
150765	82	344	654	3.39	43	25	30.25	607.440
160765	81	340	658	3.47	43	25	30.90	639.580
170765	82	359	653	3.47	43	25	30.86	632.950
180765	83	353	632	3.44	43	25	30.61	602.360
190765	83	345	622	3.40	43	25	30.28	579.390
200765	82	339	590	3.37	43	25	30.03	540.030
210765	83	334	578	3.34	43	25	29.82	521.240
220765	83	318	566	3.26	43	25	29.14	485.970
230765	87	299	544	3.16	43	26	28.30	435.170
240765	83	290	542	3.11	43	25	27.89	424.390
250765	84	285	550	3.08	43	26	27.66	423.220
260765	83	280	553	3.06	43	25	27.42	418.070
270765	84	270	554	3.00	43	26	26.96	403.870
280765	84	259	574	2.94	43	26	26.43	401.400
290765	84	257	600	2.93	43	26	26.33	416.340
300765	84	262	630	2.96	43	26	26.57	445.660
310765	84	272	656	3.01	43	26	27.05	481.770
10865	83	287	675	3.10	43	25	27.74	523.060
20865	82	301	675	3.17	43	25	28.39	548.570
30865	80	315	658	3.24	43	25	29.01	555.630
40865	83	320	636	3.27	43	25	29.22	549.500
50865	83	297	612	3.15	43	25	28.20	490.760
60865	83	271	588	3.01	43	25	27.00	430.240

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
70865	84	252	565	2.90	43	26	26.09	384.430
80865	83	231	542	2.77	43	25	25.04	338.050
90865	83	215	526	2.68	43	25	24.19	305.340
100865	80	201	512	2.59	43	25	23.43	277.860
110865	82	192	496	2.53	43	25	22.92	257.130
120865	82	189	486	2.51	43	25	22.75	248.010
130865	80	189	472	2.51	43	25	22.75	240.860
140865	81	191	450	2.52	43	25	22.87	232.070
150865	81	191	418	2.52	43	25	22.87	215.560
160865	81	191	407	2.52	43	25	22.87	209.890
170865	80	186	386	2.49	43	25	22.58	193.850
180865	80	180	354	2.45	43	25	22.23	172.040
190865	81	181	323	2.45	43	25	22.30	157.650
200865	81	183	293	2.47	43	25	22.41	144.770
210865	82	181	272	2.45	43	25	22.30	132.930
220865	83	179	252	2.44	43	25	22.18	121.790
230865	83	176	240	2.42	43	25	22.00	114.050
240865	83	178	230	2.43	43	25	22.12	110.540
250865	83	181	223	2.45	43	25	22.30	108.980
260865	83	179	211	2.44	43	25	22.18	101.980
270865	83	176	199	2.42	43	25	22.00	94.560
280865	83	175	176	2.41	43	25	21.94	83.160
290865	82	174	122	2.40	43	25	21.89	57.320
300865	83	173	95	2.40	43	25	21.82	44.370
310865	82	173	75	2.40	43	25	21.82	35.030
10965	83	170	79	2.38	43	25	21.64	36.260
20965	83	168	87	2.36	43	25	21.52	39.460
30965	83	168	97	2.36	43	25	21.52	44.000
40965	83	171	107	2.38	43	25	21.70	49.400
50965	82	176	119	2.42	43	25	22.00	56.550
60965	83	181	140	2.45	43	25	22.30	68.420
70965	83	186	150	2.49	43	25	22.58	75.330
80965	82	194	178	2.54	43	25	23.04	93.240
90965	79	200	182	2.58	43	25	23.38	98.280
100965	82	203	193	2.60	43	25	23.54	105.780
110965	80	206	204	2.62	43	25	23.70	113.460
120965	80	210	215	2.64	43	25	23.93	121.910
130965	79	218	226	2.69	43	25	24.36	133.020
140965	79	229	237	2.76	43	25	24.93	146.540
150965	79	236	249	2.80	43	25	25.29	158.660
160965	79	242	262	2.84	43	25	25.59	171.150
170965	79	254	274	2.91	43	25	26.19	187.910
180965	80	269	296	3.00	43	25	26.90	214.980
190965	80	286	320	3.09	43	25	27.70	247.100
200965	80	297	346	3.15	43	25	28.20	277.460
210965	79	303	382	3.18	43	25	28.48	312.510
220965	78	305	406	3.19	43	24	28.57	334.340
230965	78	306	434	3.20	43	24	28.60	358.570
240965	78	308	460	3.21	43	24	28.69	382.540
250965	78	310	495	3.22	43	24	28.78	414.320
260965	77	316	530	3.25	43	24	29.05	452.200
270965	77	323	565	3.29	43	24	29.35	492.740
280965	75	331	608	3.33	43	24	29.69	543.370
290965	74	342	619	3.38	43	23	30.16	571.580
300965	75	364	650	3.49	43	24	31.07	638.820
11065	76	389	670	3.61	43	24	32.06	703.700
21065	75	420	711	3.75	43	24	33.25	805.710
31065	75	442	692	3.85	43	24	34.07	825.240
41065	75	460	661	3.93	43	24	34.72	820.340
51065	69	482	564	4.02	43	22	35.50	733.550
61065	67	495	497	4.08	43	21	35.94	664.240
71065	67	490	445	4.06	43	21	35.77	588.740
81065	58	471	420	3.98	43	22	35.10	534.110
91065	66	449	435	3.88	43	21	34.32	527.350
101065	65	423	454	3.77	43	21	33.36	518.510
111065	65	396	460	3.64	43	21	32.34	491.830
121065	65	381	467	3.57	43	21	31.75	480.400
131065	65	373	475	3.53	43	21	31.43	476.370
141065	65	361	485	3.48	43	21	30.94	472.730
151065	66	352	490	3.43	43	21	30.58	465.700
161065	66	348	495	3.41	43	21	30.41	465.100
171065	65	342	495	3.38	43	21	30.16	457.080
181065	65	336	495	3.35	43	21	29.91	449.060
191065	65	322	490	3.28	43	21	29.31	426.010
201065	64	306	481	3.20	43	21	28.60	397.400
211065	65	288	455	3.10	43	21	27.80	353.810
221065	64	272	443	3.01	43	21	27.05	325.340
231065	64	267	429	2.98	43	21	26.82	309.270
241065	65	265	417	2.97	43	21	26.72	298.360
251065	63	265	400	2.97	43	20	26.72	286.200
261065	65	261	384	2.95	43	21	26.53	270.600
271065	63	259	368	2.94	43	20	26.43	257.340
281065	67	258	352	2.93	43	21	26.39	245.200
291065	67	256	343	2.92	43	21	26.29	237.080
301065	65	254	334	2.91	43	21	26.19	229.060
311065	64	252	324	2.90	43	21	26.09	220.450
11165	64	248	320	2.88	43	21	25.88	214.270
21165	64	244	310	2.85	43	21	25.69	204.230
31165	64	240	305	2.82	43	21	25.49	197.640
41165	64	237	264	2.81	43	21	25.34	168.930
51165	64	234	235	2.79	43	21	25.19	148.470
61165	64	233	214	2.79	43	21	25.13	134.630
71165	64	230	192	2.77	43	21	24.98	119.230
81165	64	228	170	2.76	43	21	24.87	104.650
91165	64	225	147	2.74	43	21	24.72	89.300
101165	64	221	140	2.71	43	21	24.51	83.540
111165	63	216	140	2.68	43	20	24.25	81.650
121165	65	213	149	2.66	43	21	24.09	85.690
131165	64	209	153	2.64	43	21	23.87	86.340
141165	67	206	159	2.62	43	21	23.70	88.440
151165	65	203	169	2.60	43	21	23.54	92.900
161165	67	202	175	2.59	43	21	23.49	95.450
171165	67	202	183	2.59	43	21	23.49	99.810
181165	66	199	182	2.57	43	21	23.32	97.790

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
191165	68	199	173	2.57	43	22	23.32	92.950
201165	68	198	170	2.57	43	22	23.26	90.880
211165	61	198	162	2.57	43	20	23.26	86.610
221165	55	198	159	2.57	43	18	23.26	85.000
231165	68	197	172	2.56	43	22	23.21	91.490
241165	65	197	172	2.56	43	21	23.21	91.490
251165	60	201	179	2.59	43	20	23.43	97.140
261165	57	206	182	2.62	43	19	23.70	101.230
271165	57	211	191	2.65	43	19	23.98	108.810
281165	57	217	198	2.69	43	19	24.30	116.010
291165	56	223	207	2.73	43	19	24.61	124.630
301165	53	232	216	2.78	43	18	25.08	135.300
11265	53	236	217	2.80	43	18	25.29	138.270
21265	49	231	220	2.77	43	17	25.04	137.210
31265	53	228	218	2.76	43	18	24.87	134.200
41265	54	225	212	2.74	43	18	24.72	128.790
51265	53	223	204	2.73	43	18	24.61	122.830
61265	50	223	196	2.73	43	17	24.61	118.010
71265	50	220	194	2.71	43	17	24.45	115.240
81265	52	218	188	2.69	43	18	24.36	110.660
91265	51	216	187	2.68	43	18	24.25	109.060
101265	50	228	185	2.76	43	17	24.87	113.890
111265	50	216	181	2.68	43	17	24.25	105.560
121265	50	218	177	2.69	43	17	24.36	104.180
131265	50	217	173	2.69	43	17	24.30	101.360
141265	49	207	170	2.62	43	17	23.77	95.010
151265	50	197	172	2.56	43	17	23.21	91.490
161265	49	197	172	2.56	43	17	23.21	91.490
171265	50	198	171	2.57	43	17	23.26	91.420
181265	47	205	170	2.61	43	16	23.65	94.100
191265	47	212	169	2.66	43	16	24.03	96.740
201265	50	211	174	2.65	43	17	23.98	99.130
211265	49	218	179	2.69	43	17	24.36	105.360
221265	50	216	179	2.68	43	17	24.28	104.390
231265	49	215	184	2.68	43	17	24.19	106.810
241265	50	217	184	2.69	43	17	24.30	107.810
251265	51	220	184	2.71	43	18	24.45	109.300
261265	55	223	189	2.73	43	18	24.61	113.800
271265	47	227	189	2.75	43	16	24.82	115.840
281265	47	225	189	2.74	43	16	24.72	114.820
291265	50	221	193	2.71	43	17	24.51	115.160
301265	47	217	200	2.69	43	16	24.30	117.180
311265	50	205	207	2.61	43	17	23.65	114.570
10166	50	196	609	2.91	43	17	22.44	851.480
20166	50	213	218	3.00	43	17	23.40	125.370
30166	57	235	245	3.11	43	19	24.59	155.450
40166	50	243	280	3.15	43	17	24.99	183.710
50166	51	255	327	3.21	43	18	25.57	225.140
60166	51	278	345	3.32	43	18	26.65	258.960
70166	50	328	395	3.53	43	17	28.95	349.810
80166	51	384	440	3.75	43	18	31.25	456.190
90166	47	419	475	3.88	43	16	32.58	537.370
100166	49	453	510	4.00	43	17	33.83	623.780
110166	49	483	445	4.10	43	17	34.89	580.320
120166	49	521	475	4.21	43	17	36.29	668.180
130166	50	544	515	4.28	43	17	37.07	756.430
140166	49	561	655	4.33	43	17	37.63	992.130
150166	49	566	690	4.35	43	17	37.75	54.460
160166	49	564	695	4.34	43	17	37.72	58.350
170166	46	550	702	4.30	43	16	37.25	42.470
180166	44	518	640	4.21	43	16	36.11	895.100
190166	46	484	605	4.10	43	16	34.96	790.610
200166	40	463	580	4.03	43	14	34.22	725.060
210166	38	443	540	3.96	43	14	33.51	645.890
220166	47	496	505	4.14	43	16	35.36	676.300
230166	42	462	465	4.03	43	15	34.15	580.040
240166	43	431	396	3.92	43	15	33.05	460.830
250166	48	446	387	3.97	43	17	33.62	466.030
260166	39	429	390	3.91	43	14	33.00	451.740
270166	38	366	395	3.69	43	14	30.46	390.340
280166	40	396	405	3.80	43	14	31.68	433.030
290166	40	337	420	3.57	43	14	29.30	382.160
300166	38	330	440	3.54	43	14	29.02	392.040
310166	39	344	455	3.60	43	14	29.58	422.600
10266	43	342	475	3.59	43	15	29.52	438.620
20266	39	316	483	3.49	43	14	28.34	412.100
30266	39	315	480	3.48	43	14	28.35	408.240
40266	48	318	470	3.49	43	17	28.50	403.540
50266	38	292	455	3.28	43	14	27.32	358.720
60266	40	282	425	3.34	43	14	26.83	323.600
70266	42	268	410	3.27	43	15	26.21	296.640
80266	43	271	407	3.29	43	15	26.31	297.800
90266	39	266	412	3.26	43	14	26.12	296.050
100266	43	331	430	3.55	43	15	29.01	384.290
110266	44	315	460	3.48	43	16	28.35	391.230
120266	46	377	530	3.73	43	16	30.92	539.490
130266	46	406	640	3.83	43	16	32.12	701.570
140266	48	429	240	3.91	43	17	33.00	436.290
150266	48	481	689	4.09	43	17	34.85	193.560
160266	49	549	776	4.30	43	17	37.19	632.560
170266	49	645	740	4.57	43	17	40.26	30.210
180266	49	750	640	4.84	43	17	43.34	321.000
190266	47	871	490	5.12	43	16	46.66	504.030
200266	46	927	390	5.25	43	16	48.04	475.030
210266	47	989	295	5.38	43	16	49.59	458.040
220266	45	20	165	1.22	43	16	7.36	208.410
230266	41	38	11	1.56	43	15	10.05	833.430
240266	44	59	945	1.84	43	16	12.49	702.040
250266	43	83	860	2.10	43	15	14.73	514.730
260266	43	115	795	2.37	43	15	17.33	393.250
270266	43	143	730	2.58	43	15	19.24	252.850
280266	43	150	674	2.63	43	15	19.68	92.770
10366	44	154	550	2.65	43	16	19.98	713.640
20366	44	151	478	2.63	43	16	19.79	485.480

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
30366	43	111	460	2.34	43	15	17.02	379.860
40366	44	79	449	2.06	43	16	14.38	308.070
50366	44	68	405	1.94	43	16	13.41	167.860
60366	45	44	380	1.65	43	16	10.80	71.140
70366	48	1	360	0.39	43	17	1.70	972.970
80366	47	937	360	5.27	43	16	48.30	910.760
90366	46	857	370	5.09	43	16	46.28	856.140
100366	46	792	375	4.94	43	16	44.52	801.900
110366	47	743	370	4.82	43	16	43.16	742.260
120366	47	701	370	4.72	43	16	41.90	700.300
130366	46	707	365	4.73	43	16	42.13	696.750
140366	48	700	356	4.72	43	17	41.85	672.840
150366	48	675	315	4.65	43	17	41.16	574.090
160366	48	653	297	4.59	43	17	40.51	523.640
170366	48	632	289	4.54	43	17	39.81	493.150
180366	51	517	286	4.20	43	18	36.14	399.230
190366	52	503	850	4.16	43	18	35.63	387.060
200366	51	469	280	4.05	43	18	34.43	354.560
210366	54	439	275	3.95	43	18	33.33	325.960
220366	52	430	290	3.92	43	18	32.99	336.690
230366	55	417	309	3.87	43	18	32.53	347.900
240366	47	411	331	3.85	43	16	32.29	367.310
250366	54	402	347	3.82	43	18	31.93	376.630
260366	55	397	358	3.80	43	18	31.75	383.740
270366	49	397	375	3.80	43	17	31.75	401.960
280366	57	384	394	3.75	43	19	31.25	408.500
290366	57	374	410	3.72	43	19	30.79	414.020
300366	56	370	430	3.70	43	19	30.67	429.570
310366	56	335	445	3.56	43	19	29.23	426.530
10466	56	346	459	3.61	43	19	29.65	428.800
20466	57	332	370	3.55	43	19	29.09	331.670
30466	59	336	320	3.57	43	19	29.23	290.300
40466	58	336	317	3.57	43	19	29.23	287.580
50466	56	328	395	3.53	43	19	28.95	349.810
60466	55	320	415	3.50	43	18	28.57	358.560
70466	57	316	395	3.49	43	19	28.34	337.010
80466	57	313	370	3.47	43	19	28.27	312.690
90466	57	304	335	3.43	43	19	27.89	274.970
100466	56	294	320	3.39	43	19	27.41	254.020
110466	58	294	305	3.39	43	19	27.41	242.110
120466	57	295	305	3.40	43	19	27.41	242.930
130466	59	298	300	3.41	43	19	27.57	241.380
140466	59	306	300	3.44	43	19	27.96	247.860
150466	59	313	300	3.47	43	19	28.27	253.530
160466	59	308	300	3.45	43	19	28.04	249.480
170466	60	303	305	3.43	43	20	27.81	249.520
180466	60	308	305	3.45	43	20	28.04	253.640
190466	60	316	305	3.49	43	20	28.34	260.230
200466	59	328	311	3.53	43	19	28.95	275.420
210466	60	390	335	3.78	43	20	31.42	352.750
220466	60	377	375	3.73	43	20	30.92	381.710
230466	60	384	470	3.75	43	20	31.25	487.300
240466	60	405	556	3.83	43	20	32.05	607.990
250466	59	433	634	3.93	43	19	33.10	741.210
260466	61	478	684	4.08	43	20	34.75	882.770
270466	63	496	706	4.14	43	20	35.36	945.480
280466	65	526	724	4.23	43	21	36.42	28.220
290466	64	576	732	4.38	43	21	38.07	138.410
300466	64	508	741	4.17	43	21	35.85	16.360
10566	64	642	740	4.56	43	21	40.18	282.720
20566	65	654	751	4.60	43	21	40.48	326.120
30566	64	684	752	4.67	43	21	41.46	388.790
40566	65	696	743	4.71	43	21	41.73	396.250
50566	64	718	735	4.76	43	21	42.43	424.870
60566	65	733	717	4.80	43	21	42.84	419.010
70566	65	745	710	4.83	43	21	43.18	428.170
80566	66	753	694	4.85	43	21	43.40	410.970
90566	66	764	668	4.88	43	21	43.68	377.950
100566	65	777	607	4.91	43	21	44.05	853.650
110566	65	779	540	4.91	43	21	44.15	135.780
120566	66	775	575	4.90	43	21	44.05	203.190
130566	67	778	573	4.91	43	21	44.10	203.640
140566	67	780	520	4.91	43	21	44.20	95.120
150566	68	787	465	4.93	43	22	44.37	988.080
160566	69	790	417	4.94	43	22	44.42	889.460
170566	69	785	405	4.93	43	22	44.27	858.400
180566	69	782	385	4.92	43	22	44.21	812.890
190566	69	778	370	4.91	43	22	44.10	777.220
200566	69	768	355	4.88	43	22	43.88	736.130
210566	69	759	340	4.86	43	22	43.61	696.760
220566	68	750	330	4.84	43	22	43.34	668.250
230566	69	737	318	4.81	43	22	42.95	632.790
240566	70	730	306	4.79	43	22	42.77	603.130
250566	70	729	306	4.79	43	22	42.72	602.300
260566	69	721	307	4.77	43	22	42.49	597.640
270566	70	725	313	4.78	43	22	42.61	612.700
280566	70	718	320	4.76	43	22	42.43	620.350
290566	70	713	332	4.75	43	22	42.26	639.130
300566	70	703	344	4.72	43	22	42.01	652.950
310566	70	687	365	4.68	43	22	41.53	677.040
10666	70	669	390	4.64	43	22	40.93	704.460
20666	70	646	410	4.57	43	22	40.31	715.120
30666	71	612	430	4.48	43	22	39.23	710.530
40666	75	576	445	4.38	43	24	38.07	692.060
50666	74	547	455	4.29	43	23	37.16	671.990
60666	75	516	455	4.20	43	24	36.08	633.910
70666	75	489	460	4.11	43	24	35.18	607.340
80666	75	448	454	3.98	43	24	33.67	547.160
90666	76	428	446	3.91	43	24	32.94	515.400
100666	76	394	422	3.79	43	24	31.62	448.520
110666	77	368	388	3.69	43	24	30.61	385.520
120666	77	342	369	3.59	43	24	29.52	340.730
130666	78	323	361	3.51	43	24	28.73	314.830
140666	77	316	359	3.49	43	24	28.34	306.300

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
150666	78	314	357	3.48	43	24	28.27	302.660
160666	78	303	356	3.43	43	24	27.81	291.240
170666	78	299	354	3.41	43	24	27.65	285.780
180666	78	296	347	3.40	43	24	27.69	277.320
190666	78	295	340	3.40	43	24	27.41	270.810
200666	79	302	324	3.43	43	25	27.73	264.190
210666	78	304	299	3.43	43	24	27.89	245.420
220666	78	311	283	3.46	43	24	28.20	237.640
230666	78	330	278	3.54	43	24	29.02	247.700
240666	78	345	276	3.60	43	24	29.66	257.090
250666	79	354	280	3.64	43	25	30.00	267.620
260666	79	353	283	3.63	43	25	30.01	269.730
270666	78	343	292	3.60	43	24	29.51	270.420
280666	78	325	305	3.52	43	24	28.80	267.640
290666	78	310	308	3.46	43	24	28.12	257.800
300666	79	289	345	3.37	43	25	27.16	269.200
10766	83	268	378	3.27	43	25	26.21	273.520
20766	83	248	401	3.18	43	25	25.20	269.590
30766	83	235	419	3.11	43	25	24.59	265.660
40766	85	229	432	3.08	43	26	24.27	267.110
50766	82	223	436	3.05	43	25	23.95	262.520
60766	81	220	438	3.04	43	25	23.75	260.170
70766	85	213	439	3.00	43	26	23.40	252.470
80766	86	206	438	2.96	43	26	23.04	243.620
90766	81	197	438	2.91	43	25	22.54	232.970
100766	84	206	438	2.96	43	26	23.04	243.620
110766	85	207	432	2.97	43	26	23.06	241.440
120766	85	208	432	2.97	43	26	23.15	242.610
130766	85	205	427	2.96	43	26	22.94	236.340
140766	85	202	421	2.94	43	26	22.80	229.610
150766	86	199	416	2.92	43	26	22.66	223.520
160766	86	193	406	2.89	43	26	22.29	211.570
170766	86	190	396	2.87	43	26	22.15	203.150
180766	86	186	386	2.85	43	26	21.89	193.850
190766	86	192	375	2.88	43	26	22.27	194.400
200766	80	194	361	2.89	43	25	22.40	189.090
210766	86	202	336	2.94	43	26	22.80	183.250
220766	86	204	317	2.95	43	26	22.92	174.600
230766	86	210	292	2.98	43	26	23.27	165.560
240766	86	211	273	2.99	43	26	23.29	155.530
250766	86	211	238	2.99	43	26	23.29	135.590
260766	86	207	217	2.97	43	26	23.06	121.280
270766	87	200	202	2.93	43	26	22.68	109.080
280766	87	191	190	2.88	43	26	22.17	97.970
290766	86	187	186	2.85	43	26	22.00	93.910
300766	87	185	186	2.84	43	26	21.87	92.910
310766	87	180	185	2.81	43	26	21.58	89.910
10866	87	176	184	2.79	43	26	21.31	87.440
20866	86	174	182	2.78	43	26	21.18	85.500
30866	85	171	181	2.76	43	26	21.01	83.570
40866	84	169	179	2.75	43	26	20.87	81.680
50866	84	170	177	2.75	43	26	20.98	81.010
60866	85	173	176	2.77	43	26	21.15	82.210
70866	84	174	176	2.78	43	26	21.18	82.680
80866	85	174	176	2.78	43	26	21.18	82.680
90866	84	173	174	2.77	43	26	21.15	81.280
100866	84	173	173	2.77	43	26	21.15	80.570
110866	84	175	172	2.78	43	26	21.29	81.270
120866	84	173	172	2.77	43	26	21.15	80.340
130866	84	170	173	2.75	43	26	20.98	79.180
140866	83	164	173	2.72	43	25	20.56	76.600
150866	83	162	173	2.70	43	25	20.49	75.670
160866	83	166	173	2.72	43	25	20.70	77.540
170866	82	174	173	2.78	43	25	21.18	81.260
180866	82	181	174	2.82	43	25	21.61	85.030
190866	82	185	183	2.84	43	25	21.87	91.410
200866	83	191	189	2.88	43	25	22.17	97.210
210866	83	196	204	2.91	43	25	22.44	107.960
220866	83	201	215	2.93	43	25	22.78	116.680
230866	83	205	226	2.96	43	25	22.94	125.090
240866	82	205	233	2.96	43	25	22.94	128.970
250866	81	206	240	2.96	43	25	23.04	133.490
260866	81	208	244	2.97	43	25	23.15	137.030
270866	82	209	236	2.98	43	25	23.17	133.170
280866	81	210	223	2.98	43	25	23.27	126.440
290866	81	212	214	2.99	43	25	23.38	122.490
300866	81	208	205	2.97	43	25	23.15	115.130
310866	81	202	198	2.94	43	25	22.80	107.990
10966	81	196	202	2.91	43	25	22.44	106.900
20966	83	190	206	2.87	43	25	22.15	105.680
30966	83	185	205	2.84	43	25	21.87	102.400
40966	82	185	209	2.84	43	25	21.87	104.400
50966	82	185	213	2.84	43	25	21.87	106.390
60966	82	184	214	2.84	43	25	21.76	106.320
70966	82	181	216	2.82	43	25	21.61	105.560
80966	83	178	215	2.80	43	25	21.45	103.330
90966	83	175	214	2.78	43	25	21.29	101.120
100966	82	168	207	2.74	43	25	20.84	93.900
110966	81	167	206	2.73	43	25	20.81	92.890
120966	80	167	200	2.72	43	25	20.81	90.180
130966	80	171	194	2.76	43	25	21.01	89.570
140966	79	175	188	2.78	43	25	21.29	88.830
150966	79	171	181	2.76	43	25	21.01	83.570
160966	78	162	170	2.70	43	24	20.49	74.360
170966	78	162	159	2.70	43	24	20.49	693.550
180966	77	162	148	2.70	43	24	20.49	643.740
190966	77	157	137	2.67	43	24	20.17	583.070
200966	76	157	125	2.67	43	24	20.17	523.590
210966	74	157	117	2.67	43	23	20.17	493.600
220966	76	160	119	2.69	43	24	20.35	513.410
230966	75	160	120	2.69	43	24	20.35	513.840
240966	75	159	121	2.68	43	24	20.31	513.950
250966	75	159	125	2.68	43	24	20.31	533.660
260966	75	162	130	2.70	43	24	20.49	563.640

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
280966	75	162	129	2.70	43	24	20.49	563.420
290966	75	164	130	2.72	43	24	20.56	573.560
300966	74	168	130	2.74	43	23	20.84	583.970
11066	74	166	132	2.73	43	23	20.70	59.160
21066	73	167	132	2.73	42	23	20.81	59.520
31066	72	166	126	2.73	43	23	20.70	56.470
41066	71	162	120	2.70	43	22	20.49	52.490
51066	71	160	120	2.69	43	22	20.35	51.840
61066	69	162	114	2.70	43	22	20.49	49.860
71066	69	166	115	2.73	43	22	20.70	51.540
81066	68	168	118	2.74	43	22	20.84	53.520
91066	68	168	118	2.74	43	22	20.84	53.520
101066	69	166	117	2.73	43	22	20.70	52.440
111066	69	165	117	2.72	43	22	20.67	52.120
121066	69	168	117	2.74	43	22	20.84	53.070
131066	69	166	117	2.73	43	22	20.70	52.440
141066	69	169	122	2.75	43	22	20.87	55.670
151066	69	164	122	2.72	43	22	20.56	54.020
161066	69	161	122	2.70	43	22	20.38	53.030
171066	68	161	123	2.70	43	22	20.38	52.470
181066	68	159	123	2.68	43	22	20.31	52.800
191066	68	160	123	2.69	43	22	20.35	53.140
201066	68	159	124	2.68	43	22	20.31	53.230
211066	67	159	123	2.68	43	21	20.31	52.800
221066	65	158	124	2.68	43	21	20.20	52.900
231066	65	159	124	2.68	43	21	20.31	53.230
241066	65	159	125	2.68	43	21	20.31	53.660
251066	63	162	125	2.70	43	20	20.49	54.670
261066	63	165	121	2.72	43	20	20.67	53.910
271066	65	170	120	2.75	43	21	20.98	55.080
281066	63	176	124	2.79	43	20	21.31	58.920
291066	63	182	128	2.83	43	20	21.63	62.900
301066	62	184	132	2.84	43	20	21.76	65.560
311066	62	185	133	2.84	43	20	21.87	66.430
11166	63	181	139	2.82	43	20	21.61	67.930
21166	61	175	139	2.78	43	20	21.29	65.680
31166	65	170	138	2.75	43	21	20.98	63.340
41166	61	167	136	2.73	43	20	20.81	61.320
51166	61	166	137	2.73	43	20	20.70	61.400
61166	61	165	135	2.72	43	20	20.67	60.140
71166	62	163	134	2.71	43	20	20.53	58.970
81166	62	158	133	2.68	43	20	20.20	56.740
91166	62	155	133	2.66	43	20	20.02	55.660
101166	62	161	134	2.70	43	20	20.38	58.250
111166	64	177	137	2.80	43	21	21.34	65.470
121166	64	186	136	2.85	43	21	21.89	68.300
131166	63	182	139	2.83	43	20	21.63	68.300
141166	62	189	143	2.87	43	20	22.04	72.970
151166	63	194	147	2.92	43	20	22.66	78.980
161166	63	203	152	2.95	43	20	22.82	83.310
171166	63	210	160	2.98	43	20	23.27	90.720
181166	63	213	174	3.00	43	20	23.40	100.070
191166	63	222	220	3.05	43	20	23.86	131.870
201166	61	229	278	3.08	43	20	24.27	171.890
211166	63	236	294	3.12	43	20	24.60	187.340
221166	63	244	306	3.16	43	20	25.00	210.590
231166	62	250	296	3.19	43	20	25.29	199.800
241166	62	257	278	3.22	43	20	25.67	192.900
251166	60	252	249	3.20	43	20	25.39	169.420
261166	62	246	214	3.17	43	20	25.10	142.140
271166	60	235	184	3.11	43	20	24.59	116.750
281166	58	220	157	3.04	43	19	23.75	93.260
291166	58	205	144	2.96	43	19	22.54	79.700
301166	57	208	138	2.97	43	19	23.15	77.500
11266	57	208	127	2.97	43	19	23.15	71.320
21266	52	201	125	2.93	43	18	22.78	67.840
31266	53	196	123	2.91	43	18	22.44	65.090
41266	55	192	126	2.88	43	18	22.27	65.320
51266	53	189	130	2.87	43	18	22.04	66.340
61266	52	188	132	2.86	43	18	22.02	67.000
71266	53	191	135	2.88	43	18	22.17	69.620
81266	54	198	139	2.92	43	18	22.56	74.310
91266	54	211	144	2.99	43	18	23.29	82.040
101266	54	220	150	3.04	43	18	23.75	89.100
111266	53	230	161	3.09	43	18	24.25	99.980
121266	53	228	172	3.08	43	18	24.18	105.880
131266	52	234	183	3.11	43	18	24.50	115.620
141266	53	238	199	3.13	43	18	24.70	127.880
151266	55	249	224	3.18	43	18	25.25	150.600
161266	51	271	265	3.29	43	18	26.31	193.900
171266	52	328	317	3.53	43	18	28.95	280.740
181266	51	387	377	3.76	43	18	31.38	393.930
191266	50	419	423	3.88	43	17	32.58	478.540
201266	49	451	465	3.99	43	17	33.78	566.230
211266	48	460	507	4.02	43	17	34.11	625.650
221266	50	474	528	4.07	43	17	34.58	675.730
231266	49	480	530	4.09	43	17	34.79	686.860
241266	48	485	538	4.10	43	17	35.02	704.510
251266	48	489	546	4.11	43	17	35.18	720.680
261266	49	490	543	4.12	43	17	35.16	718.390
271266	47	484	540	4.10	43	16	34.96	705.670
281266	49	473	530	4.06	43	17	34.60	676.860
291266	48	457	520	4.01	43	17	34.00	641.630
301266	53	449	515	3.98	43	18	33.73	624.330
311266	50	419	490	3.88	43	17	32.58	554.340
10167	44	397	475	3.68	43	16	32.30	509.150
30167	43	396	456	3.68	43	15	32.23	487.560
20167	44	396	465	3.68	43	16	32.23	497.180
40167	43	378	445	3.60	43	15	31.69	454.170
50167	43	366	429	3.55	43	15	31.29	423.940
60167	43	364	405	3.54	43	15	31.23	398.030
70167	43	365	379	3.55	43	15	31.21	373.500
80167	43	363	325	3.54	43	15	31.16	318.630
90167	43	360	275	3.52	43	15	31.12	267.300

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
100167	42	355	240	3.50	43	15	30.94	230.040
110167	41	348	208	3.47	43	15	30.69	195.440
120167	41	335	187	3.41	43	15	30.26	169.140
130167	44	323	172	3.36	43	16	29.79	150.000
140167	45	312	173	3.31	43	16	29.38	145.740
150167	45	299	180	3.24	43	16	28.97	145.310
160167	43	285	189	3.18	43	15	28.36	145.440
170167	43	269	192	3.10	43	15	27.72	139.450
180167	42	255	194	3.02	43	15	27.22	133.570
190167	42	245	195	2.97	43	15	26.77	128.990
200167	42	237	197	2.93	43	15	26.39	126.060
210167	43	231	194	2.89	43	15	26.20	121.000
220167	43	224	188	2.85	43	15	25.89	113.700
230167	44	218	182	2.82	43	16	25.58	107.130
240167	46	213	176	2.79	43	16	25.36	101.220
250167	45	211	176	2.78	43	16	25.25	100.270
260167	47	209	170	2.77	43	16	25.14	95.930
270167	46	205	163	2.74	43	16	25.01	90.220
280167	47	201	156	2.72	43	16	24.79	84.660
290167	47	197	149	2.70	43	16	24.56	79.250
300167	48	194	142	2.68	43	17	24.43	74.380
310167	47	191	139	2.66	43	16	24.29	71.680
10267	48	192	137	2.66	43	17	24.40	71.020
20267	48	195	137	2.68	43	17	24.53	72.130
30267	50	205	150	2.74	43	17	25.01	83.020
40267	52	219	174	2.83	43	18	25.59	102.890
50267	50	237	210	2.93	43	17	26.39	134.380
60267	48	257	256	3.03	43	17	27.31	177.640
70267	50	278	300	3.14	43	17	28.13	225.180
80267	47	291	336	3.21	43	16	28.58	264.000
90267	49	305	387	3.27	43	17	29.18	318.690
100267	48	318	419	3.33	43	17	29.67	359.750
110267	47	328	435	3.38	43	16	29.99	385.240
120267	46	336	440	3.42	43	16	30.24	399.170
130267	46	340	447	3.44	43	16	30.36	410.350
140267	45	334	435	3.41	43	16	30.18	392.280
150267	46	327	440	3.38	43	16	29.92	388.480
160267	46	319	438	3.34	43	16	29.66	377.250
170267	47	317	440	3.33	43	16	29.59	346.600
180267	47	311	440	3.30	43	16	29.39	369.470
190267	46	303	425	3.26	43	16	29.11	347.650
200267	47	295	400	3.22	43	16	28.73	318.600
210267	48	288	380	3.19	43	17	28.52	295.490
220267	47	281	360	3.16	43	16	28.20	273.130
230267	48	274	334	3.12	43	17	27.97	247.090
240267	47	266	296	3.08	43	16	27.64	212.590
250267	46	262	270	3.06	43	16	27.48	191.000
260267	47	258	245	3.04	43	16	27.30	170.670
270267	47	250	224	3.05	43	16	27.39	157.250
280267	48	275	209	3.13	43	17	27.97	155.180
10367	46	291	190	3.21	43	16	28.58	149.280
20367	49	309	182	3.29	43	17	29.32	151.840
30367	47	312	179	3.31	43	16	29.36	150.790
40367	46	313	174	3.31	43	16	29.46	174.050
50367	48	314	175	3.32	43	17	29.44	148.360
60367	46	314	176	3.32	43	16	29.44	149.210
70367	47	312	180	3.31	43	16	29.38	151.630
80367	48	307	201	3.28	43	17	29.25	166.610
90367	49	304	213	3.27	43	17	29.10	175.650
100367	49	302	218	3.26	43	17	29.03	177.760
110367	49	302	240	3.26	43	17	29.03	195.700
120367	50	308	282	3.29	43	17	29.24	234.510
130367	51	326	341	3.37	43	18	29.93	300.150
140367	51	371	395	3.57	43	18	31.46	395.670
150367	51	425	449	3.79	42	18	33.19	515.230
160367	52	480	497	4.00	43	18	34.80	644.110
170367	53	511	529	4.12	43	18	35.60	729.860
180367	53	540	548	4.22	43	18	36.39	798.980
190367	53	564	560	4.30	43	18	37.03	852.770
200367	53	580	572	4.36	43	18	37.38	895.750
210367	50	592	575	4.40	43	17	37.68	919.080
220367	55	602	571	4.43	43	18	37.95	928.100
230367	52	610	558	4.45	43	18	38.19	919.030
240367	52	617	530	4.48	43	18	38.30	882.930
250367	54	625	493	4.50	43	18	38.54	831.940
260367	55	635	455	4.53	43	18	38.80	780.100
270367	53	641	420	4.55	43	18	38.93	726.890
280367	53	636	389	4.54	43	18	38.76	667.990
290367	54	631	357	4.52	43	18	38.68	608.220
300367	56	625	331	4.50	43	19	38.54	558.560
310367	56	628	319	4.51	43	19	38.61	540.900
10467	58	629	311	4.52	43	19	38.57	528.170
20467	59	627	311	4.51	43	19	38.56	526.490
30467	59	626	309	4.51	43	19	38.51	522.270
40467	59	618	302	4.48	43	19	38.35	503.920
50467	59	604	295	4.43	43	19	38.05	481.090
60467	60	591	284	4.39	43	20	37.71	453.180
70467	62	570	273	4.32	43	20	37.18	420.150
80467	62	539	266	4.22	43	20	36.33	387.110
90467	63	511	254	4.12	43	20	35.60	350.440
100467	64	487	248	4.03	43	21	34.96	326.100
110467	64	469	243	3.96	43	21	34.48	307.710
120467	64	459	241	3.93	43	21	34.13	298.670
130467	66	459	238	3.93	43	21	34.13	294.950
140467	65	470	236	3.97	43	21	34.45	299.480
150467	65	484	234	4.02	43	21	34.87	305.790
160467	67	469	233	3.96	43	21	34.48	295.050
170467	67	453	237	3.90	43	21	34.01	289.670
180467	67	443	242	3.86	43	21	33.73	289.460
190467	67	437	251	3.84	43	21	33.53	296.150
200467	67	436	261	3.84	43	21	33.46	307.250
210467	67	439	265	3.85	43	21	33.57	314.100
220467	67	444	270	3.87	43	21	33.71	323.680
230467	69	454	275	3.91	43	22	33.99	337.090

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
240467	69	465	274	3.95	43	22	34.32	344.610
250467	69	470	274	3.97	43	22	34.45	347.710
260467	69	475	269	3.99	43	22	34.59	344.550
270467	67	479	261	4.00	43	21	34.74	337.550
280467	67	476	244	3.99	43	21	34.65	313.590
290467	65	471	234	3.97	43	21	34.52	297.580
300467	67	464	219	3.94	43	21	34.35	274.360
10567	67	460	209	3.93	43	21	34.19	259.580
20567	66	470	200	3.97	43	21	34.45	253.800
30567	65	469	196	3.96	43	21	34.48	248.190
40567	65	480	197	4.00	43	21	34.80	255.310
50567	61	514	204	4.13	43	20	35.68	283.110
60567	61	535	221	4.20	43	20	36.28	319.230
70567	65	559	237	4.28	43	21	36.93	357.700
80567	64	587	247	4.38	43	21	37.58	391.470
90567	66	591	258	4.39	43	21	37.71	411.690
100567	67	591	263	4.39	43	21	37.71	419.670
110567	67	590	268	4.39	43	21	37.66	426.920
120567	67	593	263	4.40	43	21	37.73	421.090
130567	68	594	258	4.40	43	22	37.78	413.780
140567	68	593	243	4.40	43	22	37.73	389.070
150567	68	597	228	4.41	43	22	37.86	367.510
160567	65	602	214	4.43	43	21	37.95	347.840
170567	64	606	205	4.44	43	21	38.07	335.420
180567	66	614	202	4.47	43	21	38.23	334.680
190567	68	625	213	4.50	43	22	38.54	359.440
200567	67	639	234	4.55	43	21	38.83	403.720
210567	67	661	258	4.62	43	21	39.33	460.450
220567	70	690	280	4.71	43	22	39.99	521.640
230567	69	704	307	4.75	43	22	40.32	583.550
240567	67	719	324	4.79	43	21	40.69	628.980
250567	60	730	339	4.82	43	20	40.95	666.170
260567	62	743	351	4.86	43	20	41.22	704.140
270567	65	756	351	4.90	43	21	41.47	728.910
280567	67	764	368	4.92	43	21	41.67	759.110
290567	68	773	373	4.95	43	22	41.82	778.490
300567	61	779	379	4.97	43	20	41.92	797.150
310567	61	783	380	4.98	43	20	42.02	802.360
10667	65	791	380	5.00	43	21	42.21	811.570
20667	63	803	379	5.03	43	20	42.48	821.710
30667	65	797	378	5.02	43	21	42.30	813.420
40667	65	783	377	4.98	43	21	42.02	797.020
50667	64	767	371	4.93	43	21	41.72	768.300
60667	64	739	369	4.85	43	21	41.12	736.270
70667	67	704	363	4.75	43	21	40.32	685.590
80667	66	658	356	4.61	43	21	39.27	632.470
90667	65	605	348	4.44	43	21	38.02	568.460
100667	66	548	341	4.25	43	21	36.58	504.540
110667	67	501	332	4.08	43	21	35.36	445.100
120667	68	463	319	3.94	43	22	34.29	398.790
130667	69	448	311	3.88	43	22	33.88	376.190
140667	70	435	308	3.83	43	22	33.49	361.750
150667	72	422	306	3.78	43	23	33.08	348.660
160667	73	397	302	3.68	43	23	32.30	323.710
170667	73	380	308	3.61	43	23	31.74	316.010
180667	73	362	316	3.53	43	23	31.18	308.660
190667	72	348	329	3.47	43	23	30.69	309.130
200667	72	344	353	3.45	43	23	30.57	327.870
210667	73	345	382	3.46	43	23	30.56	355.830
220667	73	356	426	3.51	43	23	30.92	409.470
230667	73	369	456	3.56	43	23	31.41	454.310
240667	74	386	497	3.63	43	23	31.98	517.970
250667	74	403	517	3.70	43	23	32.53	562.550
260667	74	417	555	3.76	43	23	32.93	624.870
270667	74	422	582	3.78	43	23	33.08	663.130
280667	74	424	598	3.79	43	23	33.12	684.590
290667	74	423	624	3.79	43	23	33.06	712.670
300667	75	431	624	3.82	43	24	33.32	726.150
10767	81	439	619	3.85	43	25	33.57	733.700
20767	82	450	608	3.89	43	25	33.91	738.720
30767	73	461	593	3.93	43	23	34.25	738.110
40767	73	471	582	3.97	43	23	34.52	740.130
50767	74	482	560	4.01	43	23	34.84	728.780
60767	74	494	543	4.06	43	23	35.12	724.250
70767	73	511	526	4.12	43	23	35.60	725.720
80767	73	521	503	4.15	43	23	35.91	707.570
90767	73	532	481	4.19	43	23	36.20	690.910
100767	73	538	464	4.21	43	23	36.36	674.010
110767	74	545	443	4.24	43	23	36.49	651.870
120767	74	548	417	4.25	43	23	36.58	616.990
130767	70	548	389	4.25	43	22	36.58	575.560
140767	70	553	367	4.26	43	22	36.77	547.970
150767	78	551	347	4.26	43	24	36.66	516.230
160767	78	546	322	4.24	43	24	36.55	474.690
170767	78	543	296	4.23	43	24	36.47	433.970
180767	79	535	266	4.20	43	25	36.28	384.240
190767	80	529	251	4.18	43	25	36.11	358.500
200767	80	526	236	4.17	43	25	36.03	335.170
210767	80	518	220	4.14	43	25	35.83	307.690
220767	81	506	216	4.10	43	25	35.48	295.100
230767	82	486	217	4.03	43	25	34.90	284.750
240767	82	463	212	3.94	43	25	34.29	265.020
250767	82	435	212	3.83	43	25	33.49	248.990
260767	82	404	213	3.71	43	25	32.50	232.740
270767	82	371	213	3.57	43	25	31.46	213.360
280767	82	342	219	3.44	43	25	30.51	202.220
290767	82	319	219	3.34	43	25	29.66	188.620
300767	82	306	225	3.28	43	25	29.17	185.890
310767	82	299	226	2.88	43	25	26.10	182.450
10867	82	294	232	3.22	43	25	28.74	184.160
20867	82	295	238	3.22	43	25	28.73	185.570
30867	83	292	247	3.24	43	25	28.97	199.400
40867	83	305	256	3.27	43	25	29.18	210.820
50867	83	315	268	3.32	43	25	29.52	227.930

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
60867	84	332	294	3.40	43	26	30.12	263.540
70867	84	349	347	3.48	43	26	30.68	326.980
80867	85	357	400	3.51	43	25	30.99	385.560
90867	84	360	458	3.52	43	26	31.12	445.180
100867	84	362	490	3.53	43	26	31.18	478.930
110867	83	358	499	3.51	43	25	31.07	482.330
120867	83	346	485	3.46	43	25	30.63	453.090
130867	84	333	455	3.40	43	26	30.19	409.090
140867	84	318	335	3.33	43	26	29.67	287.630
150867	84	310	249	3.30	43	26	29.31	208.410
160867	84	304	222	3.27	43	26	29.10	182.220
170867	82	301	209	3.25	43	25	29.04	169.850
180867	81	290	212	3.20	43	25	28.59	166.000
190867	81	277	219	3.14	43	25	28.05	163.790
200867	81	264	236	3.07	43	25	27.56	168.220
210867	80	251	285	3.00	43	25	27.04	193.140
220867	80	244	310	2.96	43	25	26.77	204.230
230867	81	236	330	2.92	43	25	26.39	210.280
240867	80	230	350	2.89	43	25	26.10	217.350
250867	80	223	365	2.85	43	25	25.79	219.770
260867	80	223	375	2.85	43	25	25.79	225.790
270867	80	226	394	2.87	43	25	25.90	240.420
280867	80	229	407	2.88	43	25	26.10	251.650
290867	79	222	415	2.84	43	25	25.79	248.750
300867	79	220	424	2.83	43	25	25.69	251.860
310867	78	219	420	2.83	43	24	25.59	248.350
10967	79	215	410	2.80	43	25	25.47	238.000
20967	79	214	397	2.80	43	25	25.37	229.390
30967	78	213	366	2.79	43	24	25.36	210.490
40967	77	213	338	2.79	43	24	25.36	194.380
50967	78	212	305	2.78	43	24	25.35	174.580
60967	78	210	271	2.77	43	24	25.24	153.660
70967	78	207	220	2.76	43	24	25.03	122.960
80967	79	207	192	2.76	43	24	25.03	107.310
90967	76	207	183	2.76	43	24	25.03	102.280
100967	76	209	179	2.77	43	24	25.14	101.010
110967	76	212	176	2.78	43	24	25.35	100.740
120967	76	208	174	2.76	43	24	25.13	97.720
130967	76	201	179	2.72	43	24	24.79	97.140
140967	76	196	183	2.69	43	24	24.54	96.840
150967	75	193	182	2.67	43	24	24.41	94.840
160967	75	191	186	2.66	43	24	24.29	95.920
170967	76	190	184	2.65	43	24	24.28	94.390
180967	77	188	181	2.64	43	24	24.16	91.880
190967	77	183	182	2.61	43	24	23.89	89.930
200967	76	180	173	2.59	43	24	23.75	84.080
210967	77	180	171	2.59	43	24	23.75	83.110
220967	77	182	170	2.60	43	24	23.87	83.540
230967	76	185	161	2.62	43	24	24.02	80.420
240967	76	188	154	2.64	43	24	24.16	78.170
250967	76	192	150	2.66	43	24	24.40	77.760
260967	76	119	153	2.15	43	24	20.27	82.210
270967	76	204	152	2.74	43	24	24.91	83.720
280967	76	207	151	2.76	43	24	25.03	84.390
290967	74	208	155	2.76	43	23	25.13	87.050
300967	74	208	154	2.76	43	23	25.13	86.490
21067	73	204	209	2.74	43	23	24.91	115.120
31067	72	202	221	2.73	43	23	24.80	120.530
41067	72	200	231	2.71	43	23	24.78	124.740
51067	72	198	242	2.70	43	23	24.66	129.370
61067	72	199	246	2.71	43	23	24.67	102.090
71067	72	201	244	2.72	43	23	24.79	132.420
81067	72	204	242	2.74	43	23	24.91	133.290
91067	71	209	237	2.77	43	22	25.14	133.740
101067	71	212	233	2.78	43	22	25.35	133.370
111067	70	212	227	2.78	43	22	25.35	129.930
121067	70	211	226	2.78	43	22	25.25	128.750
131067	70	209	229	2.77	43	22	25.14	129.220
141067	70	207	242	2.76	43	22	25.03	135.250
151067	70	206	262	2.75	43	22	25.02	145.720
161067	70	207	282	2.76	43	22	25.03	157.610
171067	70	207	300	2.76	43	22	25.03	167.670
181067	68	211	315	2.78	43	22	25.25	179.460
191067	68	217	326	2.81	43	22	25.57	191.000
201067	68	221	320	2.84	43	22	25.69	190.940
211067	66	223	312	2.85	43	21	25.79	187.860
221067	66	223	295	2.85	43	21	25.79	177.620
231067	65	223	280	2.85	43	21	25.79	168.590
241067	66	224	271	2.85	43	21	25.89	163.900
251067	66	228	268	2.88	43	21	26.00	164.980
261067	65	232	266	2.90	43	21	26.20	166.620
271067	65	235	278	2.92	43	21	26.30	176.350
281067	65	235	297	2.92	43	21	26.30	188.450
291067	64	234	324	2.91	43	21	26.30	204.700
301067	64	233	362	2.90	43	21	26.29	227.730
311067	63	236	409	2.92	43	20	26.39	260.610
11167	62	238	429	2.93	43	20	26.49	275.660
21167	61	238	449	2.93	43	20	26.49	288.530
31167	60	239	456	2.94	43	20	26.49	294.260
41167	60	237	452	2.93	43	20	26.39	289.230
51167	58	236	446	2.92	43	19	26.39	284.190
61167	58	238	438	2.93	43	19	26.49	281.460
71167	58	247	425	2.98	43	19	26.86	283.430
81167	56	259	407	3.04	43	19	27.39	284.620
91167	56	280	390	3.15	43	19	28.21	294.840
101167	56	307	387	3.28	43	19	29.25	320.760
111167	56	333	378	3.40	43	19	30.19	339.860
121167	56	357	367	3.51	43	19	30.99	353.750
131167	55	368	358	3.56	43	18	31.34	355.710
141167	54	375	348	3.59	43	18	31.57	352.350
151167	54	373	334	3.58	43	18	31.52	336.370
161167	53	365	329	3.55	43	18	31.21	324.230
171167	53	344	315	3.45	43	18	30.57	292.570
181167	53	326	306	3.37	43	18	29.93	269.340

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
141167	54	309	301	3.29	43	18	29.32	251.120
201167	54	294	297	3.22	43	18	28.74	235.760
211167	54	284	291	3.17	43	18	28.36	223.140
221167	54	274	285	3.12	43	18	27.97	210.840
231167	54	271	282	3.11	43	18	27.80	206.340
241167	54	265	277	3.08	43	18	27.56	198.190
251167	54	259	273	3.04	43	18	27.39	190.910
261167	54	256	270	3.03	43	18	27.22	186.620
271167	55	251	268	3.00	43	18	27.04	181.620
281167	54	244	265	2.96	43	18	26.77	174.580
291157	54	240	263	2.94	43	18	26.58	170.420
301167	54	238	259	2.93	43	18	26.49	166.430
11267	54	239	251	2.94	43	18	26.49	161.970
21267	54	243	257	2.96	43	18	26.68	168.620
31257	52	247	264	2.98	43	18	26.86	176.060
41267	50	251	272	3.00	43	17	27.04	184.330
51267	51	259	287	3.04	43	18	27.39	200.700
61267	51	270	310	3.10	43	18	27.81	225.990
71267	50	286	345	3.18	43	17	28.44	266.410
81267	50	304	383	3.27	43	17	29.10	314.370
91267	50	332	432	3.40	43	17	30.12	379.180
101267	50	362	477	3.53	43	18	31.18	466.220
111267	50	399	518	3.69	43	17	32.34	558.040
121267	49	427	559	3.80	43	17	33.23	644.470
131267	48	451	595	3.89	43	17	33.98	724.530
141267	48	478	615	4.00	43	17	34.68	793.720
151267	50	499	608	4.07	43	17	35.33	819.160
161267	50	509	597	4.11	43	17	35.57	820.460
171267	50	517	575	4.14	43	17	35.77	802.640
181267	50	188	546	2.64	43	17	24.16	794.550
191267	50	556	515	4.27	43	17	36.85	773.120
201267	49	575	481	4.34	43	17	37.28	746.750
211267	49	595	441	4.41	43	17	37.75	708.470
221267	49	618	408	4.48	43	17	38.35	680.790
231267	49	642	373	4.56	43	17	38.89	646.560
241267	48	650	341	4.58	43	17	39.13	598.450
251267	48	656	320	4.60	43	17	39.25	566.780
261267	48	670	307	4.64	43	17	39.61	555.360
271267	47	675	296	4.66	43	16	39.68	539.460
281267	46	675	289	4.66	43	16	39.68	526.700
291267	46	677	285	4.67	43	16	39.69	520.950
301267	44	675	287	4.66	43	16	39.68	523.060
311267	44	669	294	4.64	43	19	39.56	531.050
10168	44	719	305	5.01	43	16	39.32	592.100
20168	44	723	320	5.02	43	16	39.43	624.670
30168	42	723	332	5.02	43	15	39.43	648.100
40168	42	724	343	5.02	43	15	39.48	670.500
50168	42	721	351	5.01	43	15	39.42	683.290
60168	42	712	356	4.99	43	15	39.15	684.370
70168	42	702	358	4.96	43	15	38.92	678.550
80168	41	685	360	4.91	43	15	38.50	665.820
90168	40	673	358	4.88	43	14	38.15	650.520
100168	39	666	354	4.86	43	14	37.97	636.560
110168	38	648	351	4.81	43	14	37.48	614.110
120168	38	630	347	4.76	43	14	36.97	590.230
130168	38	626	336	4.75	43	14	36.85	567.910
140168	34	626	323	4.75	43	14	36.85	545.930
150168	35	631	300	4.76	43	13	37.02	511.110
160168	36	625	277	4.75	43	13	36.80	467.440
170168	36	623	252	4.74	43	13	36.78	423.890
180168	36	617	217	4.72	43	13	36.63	361.500
190168	36	618	186	4.73	43	13	36.60	310.360
200168	36	613	156	4.71	43	13	36.50	258.200
210168	36	610	136	4.70	43	13	36.43	223.990
220168	37	605	120	4.69	43	13	36.25	196.020
230168	38	581	114	4.62	43	14	35.55	178.830
240168	38	555	112	4.54	43	14	34.79	167.830
250168	38	542	106	4.50	43	14	34.39	155.120
260168	40	527	102	4.45	43	14	33.95	145.140
270168	40	510	100	4.39	43	14	33.47	137.700
280168	40	493	97	4.34	43	14	32.89	129.120
290168	40	47	95	1.77	43	14	10.84	122.860
300168	41	466	95	4.24	43	15	32.09	119.530
310168	42	457	98	4.21	43	15	31.78	120.920
10268	42	455	169	4.21	43	15	31.66	207.620
20268	43	466	199	4.24	43	15	32.09	250.380
30268	44	467	242	4.25	43	16	32.07	305.140
40268	44	475	270	4.28	43	16	32.31	346.270
50268	44	482	291	4.30	43	16	32.56	378.710
60268	43	518	311	4.42	43	15	33.69	434.960
70268	44	560	326	4.55	43	16	34.98	492.910
80268	43	599	343	4.67	43	15	36.09	554.730
90268	43	619	345	4.73	43	15	36.65	576.000
100268	44	642	347	4.79	43	16	37.34	601.490
110268	44	666	350	4.86	43	16	37.97	629.370
120268	44	683	347	4.91	43	16	38.40	639.900
130268	42	699	340	4.95	43	15	38.85	641.680
140268	42	710	328	4.98	43	15	39.14	628.780
150268	42	719	316	5.01	43	15	39.32	613.450
160268	41	724	309	5.02	43	15	39.48	604.030
170268	41	726	298	5.02	43	15	39.57	584.140
180268	41	720	284	5.01	43	15	39.37	552.100
190268	41	614	267	4.71	43	15	36.55	442.630
200268	41	693	260	4.94	43	15	38.64	486.490
210268	40	665	253	4.86	43	14	37.92	454.260
220268	40	641	245	4.79	43	14	37.29	424.020
230268	40	613	241	4.71	43	14	36.80	398.880
250268	39	540	233	4.49	43	14	34.36	339.710
260268	39	506	228	4.38	43	14	33.32	311.490
270268	39	473	224	4.27	43	14	32.27	286.070
280268	39	447	222	4.18	43	14	31.41	267.900
10368	39	389	215	3.96	43	14	29.45	225.810
20368	40	367	214	3.88	43	14	28.59	212.050
30368	40	346	213	3.79	43	14	27.84	198.980

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
40368	40	328	212	3.71	43	14	27.17	187.750
50368	40	314	211	3.65	43	14	26.61	178.890
60368	41	301	209	3.59	43	15	26.09	169.850
70368	41	291	208	3.55	43	15	25.63	163.430
80368	41	279	205	3.49	43	15	25.16	154.430
90368	41	269	202	3.44	43	15	24.74	146.710
100368	44	259	195	3.39	43	16	24.31	136.260
110368	45	250	190	3.35	43	16	23.86	129.280
120368	46	247	188	3.33	43	16	23.76	125.380
130368	46	242	188	3.31	43	16	23.49	122.840
140368	45	240	190	3.30	43	16	23.39	232.120
150368	42	245	193	3.32	43	15	23.67	127.670
160368	45	253	225	3.36	43	16	24.04	153.700
170368	47	267	260	3.42	43	16	24.65	187.430
180368	48	281	301	3.50	43	17	25.24	228.370
190368	49	308	351	3.63	43	17	26.31	291.890
200368	50	338	417	3.76	43	17	27.20	360.550
210368	51	377	488	3.92	43	18	28.96	496.740
220368	50	434	564	4.13	43	17	31.00	660.900
230368	50	498	610	4.35	43	17	33.10	820.210
240368	50	567	641	4.57	43	17	35.20	981.310
250368	50	631	653	4.76	43	17	37.02	112.520
260368	48	674	656	4.88	43	17	38.20	193.790
270368	48	708	654	4.98	43	17	39.04	250.190
280368	49	736	640	5.05	43	17	39.80	271.810
290368	50	754	609	5.10	43	17	40.23	239.800
300368	50	771	581	5.14	43	17	40.68	209.470
310368	50	778	544	5.16	43	17	40.84	142.730
10468	50	786	530	5.18	43	17	41.04	124.770
20468	50	782	532	5.17	43	17	40.94	123.260
30468	51	777	528	5.16	43	18	40.75	107.690
40468	51	772	515	5.14	43	18	40.73	73.470
50468	53	768	503	5.13	43	18	40.63	43.020
60468	53	790	492	5.19	43	18	41.14	45.440
70468	54	809	482	5.23	43	18	41.66	52.830
80468	54	833	475	5.29	43	18	42.23	68.320
90468	54	840	453	5.31	43	18	42.37	27.400
100468	55	844	440	5.32	43	18	42.46	2.670
110468	55	840	422	5.31	43	18	42.37	957.100
120468	55	836	404	5.30	43	18	42.28	911.510
130468	56	845	385	5.32	43	19	42.51	848.380
140468	57	856	370	5.35	43	19	42.74	855.140
150468	57	857	359	5.35	43	19	42.78	830.690
160468	58	855	351	5.35	43	19	42.69	810.260
170468	59	853	350	5.34	43	19	42.69	806.080
180468	59	850	348	5.33	43	19	42.64	798.660
190468	59	844	349	5.32	43	19	42.46	795.300
200468	60	835	356	5.30	43	20	42.23	802.600
210468	61	820	361	5.26	43	20	41.90	799.250
220468	62	803	373	5.22	43	20	41.47	808.700
230468	62	783	362	5.17	43	20	40.98	765.300
240468	63	767	343	5.13	43	20	40.58	710.320
250468	63	749	324	5.08	43	20	40.16	655.230
260468	64	730	317	5.03	43	21	39.68	624.810
270468	64	698	315	4.95	43	21	38.80	593.650
280468	64	670	321	4.87	43	21	38.09	580.690
290468	63	642	331	4.79	43	20	37.34	573.760
300468	64	626	345	4.75	43	21	36.85	583.120
10568	44	608	355	4.70	43	16	36.32	582.770
20568	44	593	370	4.65	43	16	35.94	592.410
30568	64	577	383	4.60	43	21	35.49	596.960
40568	65	565	398	4.57	43	21	35.09	607.150
50568	65	554	411	4.53	43	21	34.81	614.770
60568	66	544	423	4.50	43	21	34.50	621.300
70568	66	521	432	4.43	43	21	33.78	607.690
80568	66	493	443	4.34	43	21	32.89	589.680
90568	67	469	447	4.25	43	21	32.19	566.040
100568	67	459	447	4.22	43	21	31.82	553.970
110568	67	448	447	4.18	43	21	31.47	540.690
120568	67	440	448	4.15	43	21	31.21	532.220
130568	68	435	453	4.13	43	22	31.06	532.050
140568	68	438	460	4.15	43	22	31.09	544.000
150568	68	442	472	4.16	43	22	31.26	563.280
160568	70	449	493	4.18	43	22	31.53	597.660
170568	71	466	519	4.24	43	22	32.09	653.010
180568	71	493	548	4.34	43	22	32.89	729.440
190568	71	522	573	4.43	43	22	33.83	807.590
200568	70	549	587	4.52	43	22	34.62	870.110
210568	70	580	604	4.61	43	22	35.57	945.860
220568	70	603	611	4.68	43	22	36.22	994.770
230568	70	625	612	4.75	43	22	36.80	32.750
240568	70	628	611	4.75	43	22	36.95	36.010
250568	71	630	607	4.76	43	22	36.97	32.510
260568	71	632	603	4.77	43	22	36.99	28.960
270568	72	631	596	4.76	43	23	37.02	15.410
280568	72	632	579	4.77	43	23	36.99	988.010
300568	72	629	570	4.76	43	23	36.92	968.030
310568	72	630	559	4.76	43	23	36.97	950.860
10668	73	635	549	4.77	43	23	37.15	941.260
20668	73	651	539	4.82	43	23	37.55	947.400
30668	73	670	528	4.87	43	23	38.09	955.150
40668	72	693	512	4.94	43	23	38.64	958.000
50668	72	711	491	4.98	43	23	39.19	942.570
60668	72	727	475	5.03	43	23	39.54	932.380
70668	72	744	447	5.07	43	23	40.01	857.930
80668	72	758	419	5.11	43	23	40.33	857.530
90668	72	770	393	5.14	43	23	40.64	817.050
100668	72	780	355	5.16	43	23	40.93	747.630
110668	72	784	328	5.17	43	23	41.03	694.310
120668	73	784	299	5.17	43	23	41.03	632.920
130668	73	783	373	5.17	43	23	40.98	788.560
140668	74	782	354	5.17	43	23	40.94	747.440
150668	74	782	338	5.17	43	23	40.94	713.650
160668	75	781	327	5.17	43	24	40.89	689.540

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
170668	75	779	221	5.16	43	24	40.88	464.830
180668	75	774	220	5.15	43	24	40.74	459.760
190668	76	761	226	5.11	43	24	40.47	464.360
200668	76	743	238	5.07	43	24	39.96	477.450
210668	75	717	251	5.00	43	24	39.31	485.910
220668	79	663	271	4.85	43	25	37.90	485.120
230668	79	591	295	4.65	43	25	35.83	470.730
240668	80	532	327	4.46	43	25	34.16	469.700
250668	80	488	364	4.32	43	25	32.76	479.610
260668	80	449	397	4.18	43	25	31.53	481.280
270668	80	415	433	4.06	43	25	30.35	485.180
280668	80	384	465	3.94	43	25	29.27	482.110
290668	80	362	493	3.86	43	25	28.41	481.860
300668	80	350	508	3.81	43	25	27.96	480.060
10768	80	345	526	3.79	43	25	27.77	489.970
20768	80	346	522	3.79	43	25	27.84	487.650
30768	80	347	514	3.79	43	25	27.91	481.570
40768	80	350	504	3.81	43	25	27.96	476.280
50768	80	352	488	3.81	43	25	28.10	463.800
60768	80	348	466	3.80	43	25	27.90	437.850
70768	80	343	445	3.78	43	25	27.70	412.110
80768	80	336	419	3.75	43	25	27.44	380.120
90768	80	329	394	3.72	43	25	27.17	349.990
100768	80	323	368	3.69	43	25	26.96	320.930
110768	80	322	336	3.69	43	25	26.89	292.120
120768	81	321	331	3.68	43	25	26.89	286.880
130768	81	320	324	3.68	43	25	26.82	279.940
140768	81	320	317	3.68	43	25	26.82	273.890
150768	81	319	317	3.67	43	25	26.82	273.030
160768	81	302	315	3.60	43	25	26.09	256.850
170768	81	288	314	3.53	43	25	25.55	244.170
180768	81	274	313	3.47	43	25	24.91	231.860
190768	82	275	315	3.47	43	25	24.99	233.890
200768	82	277	307	3.48	43	25	25.07	229.610
210768	83	277	300	3.48	43	25	25.07	224.370
220768	83	278	284	3.49	43	25	25.08	213.170
230768	83	282	270	3.51	43	25	25.24	205.580
240768	83	279	254	3.49	43	25	25.16	191.340
250768	83	277	247	3.48	43	25	25.07	184.730
260768	83	266	244	3.43	43	25	24.57	175.240
270768	83	257	248	3.38	43	25	24.22	172.090
280768	84	247	253	3.33	43	26	23.76	168.300
290768	85	242	255	3.31	43	26	23.49	166.620
300768	85	240	256	3.30	43	26	23.39	165.890
310768	85	237	256	3.28	43	26	23.29	163.810
10868	85	236	257	3.28	43	26	23.20	163.760
20868	86	237	251	3.28	43	26	23.29	160.610
30868	85	242	243	3.31	43	26	23.49	158.780
40868	85	250	238	3.35	43	26	23.86	160.650
50868	85	258	232	3.39	43	26	24.22	161.610
60868	85	269	229	3.44	43	26	24.74	166.320
70868	86	276	228	3.48	43	26	24.99	169.910
80868	86	281	228	3.50	43	26	25.24	172.980
90868	86	279	231	3.49	43	26	25.16	174.010
100868	86	276	242	3.48	43	26	24.99	180.340
110868	86	275	263	3.47	43	26	24.99	195.280
120868	85	281	286	3.50	43	26	25.24	216.990
130868	86	287	315	3.53	43	26	25.48	244.090
140868	86	294	339	3.56	43	26	25.79	269.100
150868	84	300	360	3.59	43	26	26.02	291.600
160868	85	302	364	3.60	43	26	26.09	296.610
170868	84	300	363	3.59	43	26	26.02	294.030
180868	84	297	359	3.58	43	26	25.87	287.880
190868	84	294	354	3.56	43	26	25.79	281.010
200868	84	294	350	3.56	43	26	25.79	277.830
210868	85	295	349	3.57	43	26	25.79	277.980
220868	85	298	347	3.58	43	26	25.94	279.200
230868	85	302	364	3.60	43	26	26.09	296.610
240868	85	299	378	3.59	43	26	25.94	305.160
250868	85	292	386	3.55	43	26	25.71	304.320
260868	85	285	390	3.52	43	26	25.40	300.100
270868	85	272	390	3.46	43	26	24.83	286.420
280868	85	259	387	3.39	43	26	24.31	270.630
290868	85	250	378	3.35	43	26	23.86	255.150
300868	84	243	364	3.31	43	26	23.57	238.820
310868	84	237	345	3.28	43	26	23.29	220.770
10968	84	232	315	3.26	43	26	23.00	197.320
20968	84	224	271	3.21	43	26	22.67	163.900
30968	84	217	229	3.17	43	26	22.35	134.170
40968	82	207	206	3.12	43	25	21.81	115.130
50968	81	198	196	3.07	43	25	21.33	104.780
60968	81	189	191	3.01	43	25	20.92	97.470
70968	81	182	191	2.97	43	25	20.52	93.860
80968	81	178	192	2.94	43	25	20.35	92.280
90968	81	171	192	2.90	43	25	19.93	88.650
100968	81	167	192	2.87	43	25	19.74	86.570
110968	80	167	193	2.87	43	25	19.74	87.020
120968	79	165	195	2.86	43	25	19.60	86.670
130968	79	161	199	2.83	43	25	19.40	86.510
140968	79	160	203	2.83	43	25	19.29	87.700
150968	79	160	212	2.83	43	25	19.29	91.580
160968	79	161	220	2.83	43	25	19.40	95.630
170968	79	163	229	2.85	43	25	19.47	100.780
180968	79	167	241	2.87	43	25	19.74	108.270
190968	78	171	251	2.90	43	24	19.93	115.890
200968	78	175	264	2.92	43	24	20.19	132.420
210968	78	179	274	2.95	43	24	20.37	132.420
220968	78	183	284	2.97	43	24	20.62	132.420
230968	78	183	294	2.97	43	24	20.62	145.270
240968	78	182	304	2.97	43	24	20.52	149.360
250968	78	180	305	2.96	43	24	20.40	148.230
260968	78	179	301	2.95	43	24	20.37	145.470
270968	78	180	296	2.96	43	24	20.40	143.860
280968	76	180	292	2.96	43	24	20.40	141.910

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
290968	77	179	283	2.95	43	24	20.37	136.770
300968	77	179	274	2.95	43	24	20.37	132.420
11068	77	178	205	2.94	43	24	20.35	98.520
21068	77	181	202	2.96	43	24	20.50	98.720
31068	77	187	198	3.00	43	24	20.79	99.970
41068	75	191	194	3.02	43	24	21.04	100.050
51068	75	193	194	3.04	43	24	21.08	101.090
61068	76	196	192	3.05	43	24	21.29	101.610
71068	76	197	190	3.06	43	24	21.31	101.060
81068	76	196	190	3.05	43	24	21.29	100.550
91068	75	194	190	3.04	43	24	21.18	99.520
101068	73	194	188	3.04	43	23	21.18	98.470
111068	72	193	187	3.04	43	23	21.08	97.450
121068	72	191	187	3.02	43	23	21.04	96.440
131068	72	189	185	3.01	43	23	20.92	94.410
141068	72	189	186	3.01	43	23	20.92	94.920
151068	71	188	191	3.01	43	22	20.82	96.950
161068	72	187	193	3.00	43	23	20.79	97.450
171068	72	186	197	2.99	43	23	20.77	98.930
181068	72	187	200	3.00	43	23	20.79	100.980
191068	72	186	207	2.99	43	23	20.77	103.960
201068	71	185	212	2.99	43	22	20.67	105.690
211068	70	187	229	3.00	43	22	20.79	115.620
221068	70	192	237	3.03	43	22	21.06	122.860
231068	70	199	253	3.07	43	22	21.33	135.250
241068	69	206	269	3.11	43	22	21.79	149.620
251068	69	212	283	3.15	43	22	22.04	161.990
261068	68	215	298	3.16	43	22	22.24	172.990
271068	68	218	315	3.18	43	22	22.36	185.410
281068	68	221	329	3.20	43	22	22.48	196.310
291068	68	221	340	3.20	43	22	22.48	202.880
301068	68	224	352	3.21	43	22	22.67	212.890
311068	68	225	358	3.22	43	22	22.69	217.480
11168	65	224	368	3.21	43	21	22.67	222.570
21168	64	221	371	3.20	43	21	22.48	221.380
31168	64	215	372	3.16	43	21	22.24	215.950
41168	64	212	370	3.15	43	21	22.04	211.790
51168	64	211	364	3.14	43	21	22.03	207.370
61168	62	211	360	3.14	43	20	22.03	205.090
71168	62	210	352	3.13	43	20	22.01	199.580
81168	61	213	340	3.15	43	20	22.13	195.530
91168	60	218	333	3.18	43	20	22.36	196.000
101168	59	222	319	3.20	43	19	22.57	191.210
111168	58	223	310	3.21	43	19	22.59	186.650
121168	57	222	299	3.20	43	19	22.57	179.220
131168	56	225	290	3.22	43	19	22.69	176.170
141168	56	227	287	3.23	43	19	22.79	175.900
151168	56	229	271	3.24	43	19	22.89	167.560
161168	56	233	264	3.26	43	19	23.09	166.080
171168	56	240	253	3.30	43	19	23.39	163.940
181168	55	242	249	3.31	43	18	23.49	162.700
191168	56	244	244	3.32	43	19	23.58	160.750
201168	54	245	238	3.32	43	18	23.67	157.440
211168	54	245	234	3.32	43	18	23.67	154.790
221168	54	242	232	3.31	43	18	23.49	151.590
231168	54	240	233	3.30	43	18	23.39	150.980
241168	54	240	232	3.30	43	18	23.39	150.340
251168	53	245	239	3.32	43	18	23.67	158.100
261168	53	260	246	3.40	43	18	24.31	172.690
271168	53	276	254	3.48	43	18	24.99	189.280
281168	53	291	262	3.55	43	18	25.63	205.850
291168	53	302	272	3.60	43	18	26.09	221.790
301168	53	316	281	3.66	43	18	26.68	239.750
11268	53	340	291	3.76	43	18	27.64	267.140
21268	52	361	300	3.85	43	18	28.41	292.410
31268	52	386	306	3.95	43	18	29.32	318.910
41268	51	404	317	4.02	43	18	29.96	345.780
51268	51	419	323	4.08	43	18	30.45	365.410
61268	50	432	335	4.12	43	17	30.95	390.740
71268	50	442	344	4.16	43	17	31.26	410.530
81268	50	451	352	4.19	43	17	31.57	428.630
91268	50	456	359	4.21	43	17	31.72	442.000
101268	50	456	369	4.21	43	17	31.72	454.310
111268	48	453	372	4.20	43	17	31.62	454.990
121268	47	451	377	4.19	43	16	31.57	459.070
131268	47	451	374	4.19	43	16	31.57	455.420
141268	47	444	370	4.17	43	16	31.30	443.560
151268	46	437	367	4.14	43	16	31.11	433.020
161268	46	428	363	4.11	43	16	30.78	419.480
171268	45	419	357	4.08	43	16	30.45	403.870
181268	46	407	349	4.02	43	16	30.07	383.520
191268	45	401	337	4.01	43	16	29.84	364.870
201268	45	384	331	3.94	43	16	29.27	343.180
211268	45	366	305	3.87	43	16	28.60	301.400
221268	46	354	290	3.82	43	16	28.16	277.180
231268	44	338	278	3.76	43	16	27.50	252.700
241268	44	322	269	3.69	43	16	26.89	233.870
251268	44	318	273	3.67	43	16	26.75	234.400
261268	44	328	281	3.71	43	16	27.17	248.850
271268	45	341	292	3.77	43	16	27.64	268.840
281268	44	352	309	3.81	43	16	28.10	293.670
291268	44	353	323	3.82	43	16	28.09	307.650
301268	45	361	340	3.85	43	16	28.41	331.400
311268	44	375	360	3.91	43	16	28.90	364.500
10169	44	361	383	3.83	43	16	29.11	373.310
20169	44	442	395	4.12	43	16	32.05	471.390
30169	44	461	425	4.18	43	16	32.76	529.000
40169	44	482	444	4.24	43	16	33.64	577.820
50169	43	509	465	4.33	43	15	34.38	639.050
60169	43	530	480	4.39	43	15	35.14	686.880
70169	41	550	501	4.45	43	15	35.74	743.980
80169	41	557	520	4.47	43	15	35.96	782.630
90169	41	557	535	4.47	43	15	35.96	804.550
100169	39	553	545	4.46	43	14	35.80	813.740

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
110169	39	546	541	4.44	43	14	35.58	797.540
120169	39	535	529	4.40	43	14	35.40	764.140
130169	39	517	506	4.35	43	14	34.74	706.330
140169	39	495	479	4.28	43	14	34.09	640.180
150169	39	472	440	4.21	43	14	33.26	560.740
160169	39	447	407	4.13	43	14	32.37	491.210
170169	39	423	378	4.05	43	14	31.50	431.710
180169	39	389	350	3.94	43	14	30.04	367.600
190169	41	361	320	3.83	43	15	29.11	311.900
200169	39	337	308	3.74	43	14	28.09	280.250
210169	39	324	288	3.69	43	14	27.51	251.940
220169	41	318	260	3.67	43	15	27.17	223.240
230169	43	319	254	3.67	43	15	27.30	218.770
240169	43	333	250	3.73	43	15	27.80	224.770
250169	43	361	256	3.83	43	15	29.11	249.520
260169	43	399	263	3.97	43	15	30.54	283.330
270169	43	439	279	4.11	43	15	31.94	330.700
280169	43	480	293	4.24	43	15	33.43	379.730
290169	43	521	316	4.36	43	15	34.92	444.520
300169	43	551	339	4.45	43	15	35.84	504.330
310169	43	580	358	4.53	43	15	36.79	560.630
10269	43	613	380	4.62	43	15	37.80	628.940
20269	43	662	396	4.75	43	15	39.21	707.810
30269	43	713	412	4.87	43	15	40.82	793.140
40269	43	748	428	4.96	43	15	41.64	864.350
50269	43	789	445	5.05	43	15	42.86	947.980
60269	43	821	462	5.12	43	15	43.75	24.120
70269	43	852	474	5.19	43	15	44.50	90.390
80269	43	877	482	5.24	43	15	45.23	141.330
90269	43	904	493	5.30	43	15	45.82	203.310
100269	43	923	499	5.34	43	15	46.28	243.560
110269	44	950	507	5.39	43	16	47.06	300.450
120269	44	956	544	5.40	43	16	47.25	404.170
130269	44	975	548	5.44	43	16	47.66	442.610
140269	44	996	542	5.46	43	16	48.19	457.550
150269	44	18	515	1.33	43	16	6.55	415.530
160269	44	42	404	1.80	43	16	9.88	136.610
170269	44	64	329	2.08	43	16	12.32	945.150
180269	44	46	315	1.86	43	16	10.31	889.620
190269	43	16	308	1.28	43	15	6.12	844.910
200269	43	997	304	5.48	43	15	48.27	818.340
210269	43	18	305	1.33	43	15	6.55	836.320
220269	43	37	311	1.72	43	15	9.29	870.770
230269	43	36	317	1.70	43	15	9.22	886.710
240269	43	30	323	1.60	43	15	8.33	898.260
250269	43	984	323	5.46	43	15	47.82	858.150
260269	43	942	320	5.37	43	15	46.96	812.890
270269	43	894	315	5.28	43	15	45.55	760.350
280269	44	846	309	5.17	43	16	44.52	705.820
10369	44	816	297	5.11	43	16	43.59	654.350
20369	44	783	286	5.04	43	16	42.62	604.630
30369	44	742	277	4.94	43	16	41.62	554.540
40369	44	700	266	4.84	43	16	40.42	502.740
50369	46	665	262	4.75	43	16	39.47	470.420
60369	46	639	261	4.69	43	16	38.46	449.600
70369	46	600	264	4.58	43	16	37.52	427.680
80369	46	581	271	4.52	43	16	36.89	425.120
90369	46	564	286	4.49	43	16	36.18	435.520
100369	46	552	307	4.45	43	16	35.93	457.550
110369	46	535	321	4.40	43	16	35.40	463.680
120369	44	516	334	4.35	43	16	34.64	465.330
130369	44	504	345	4.31	43	16	34.33	469.480
140369	46	493	362	4.28	43	16	33.88	481.060
150369	44	485	385	4.25	43	16	33.73	504.160
160369	44	481	404	4.24	43	16	33.53	524.670
170369	44	481	415	4.24	43	16	33.53	538.960
180369	44	490	426	4.27	43	16	33.80	563.600
190369	43	478	430	4.23	43	15	33.44	554.960
200369	43	471	431	4.21	43	15	33.16	548.100
210369	43	461	426	4.18	43	15	32.76	530.240
220369	43	453	412	4.15	43	15	32.57	503.920
230369	43	445	395	4.13	43	15	32.16	474.590
240369	43	449	375	4.14	43	15	32.37	454.610
250369	43	428	357	4.07	43	15	31.62	412.550
260369	43	419	337	4.04	43	15	31.28	381.250
270369	43	420	326	4.04	43	15	31.39	369.680
280369	44	429	317	4.07	43	16	31.73	367.180
290369	44	451	314	4.15	43	16	32.36	382.360
300369	44	480	316	4.24	43	16	33.43	409.540
310369	44	505	331	4.31	43	16	34.43	451.320
10469	56	534	376	4.40	43	19	35.31	542.120
20469	56	561	393	4.48	43	19	36.12	595.280
30469	54	589	480	4.56	43	18	36.95	763.340
40469	54	613	509	4.62	43	18	37.80	842.450
50469	54	631	537	4.67	43	18	38.29	914.890
60469	54	640	556	4.69	43	18	38.64	960.770
70469	56	645	579	4.70	43	19	38.86	8.330
80469	56	631	588	4.67	43	19	38.29	1.780
90469	56	611	598	4.61	43	19	37.65	986.520
100469	56	597	608	4.58	43	19	37.24	980.040
110469	56	603	611	4.59	43	19	37.57	994.770
120469	56	605	615	4.60	43	19	37.52	4.600
130469	57	630	610	4.66	43	19	38.43	37.610
140469	57	644	606	4.70	43	19	38.77	53.710
150469	56	657	590	4.73	43	19	39.23	46.600
160469	56	669	582	4.76	43	19	39.59	53.070
170469	57	681	564	4.79	43	19	39.94	37.030
180469	57	699	528	4.84	43	19	40.33	996.490
190469	59	728	471	4.91	43	19	41.15	925.800
200469	59	752	428	4.96	43	19	41.97	869.010
210469	61	778	398	5.02	43	20	42.69	836.040
220469	61	785	377	5.04	43	20	42.78	799.050
230469	63	789	372	5.05	43	20	42.86	792.470
240469	63	791	366	5.05	43	20	43.03	781.670

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
250469	63	795	368	5.06	43	20	43.11	789.910
260469	63	810	373	5.10	43	20	43.36	815.750
270469	64	826	387	5.12	43	21	43.91	863.090
280469	64	845	402	5.17	43	21	44.44	917.160
290469	64	855	404	5.19	43	21	44.74	932.630
300469	64	868	401	5.22	43	21	45.02	939.780
10569	64	848	377	5.18	43	21	44.43	863.180
20569	64	832	350	5.14	43	21	44.14	786.240
30569	64	831	330	5.14	43	21	44.06	740.420
40569	64	829	305	5.14	43	21	43.90	682.680
50569	64	824	279	5.13	43	21	43.75	620.720
60569	64	813	271	5.10	43	21	43.60	594.870
70569	64	804	268	5.08	43	21	43.36	581.770
80569	64	789	271	5.05	43	21	42.86	577.310
90569	66	777	277	5.02	43	21	42.60	581.120
100569	66	771	284	5.01	43	21	42.35	591.200
110569	66	766	297	5.00	43	21	42.18	614.260
120569	66	751	310	4.96	43	21	41.89	628.590
130569	68	741	314	4.94	43	22	41.53	628.220
140569	68	721	323	4.89	43	22	41.03	626.780
150569	68	701	327	4.84	43	22	40.50	618.910
160569	70	679	331	4.79	43	22	39.77	606.820
170569	70	663	335	4.75	43	22	39.30	599.680
180569	70	646	336	4.71	43	22	38.71	586.050
190569	70	636	338	4.68	43	22	38.51	580.410
200569	70	623	334	4.65	43	22	38.02	561.820
210569	70	613	330	4.62	43	22	37.80	547.960
220569	72	610	328	4.61	43	23	37.76	540.220
230569	72	606	317	4.60	43	23	37.62	518.680
240569	72	602	304	4.59	43	23	37.48	494.120
250569	72	603	292	4.59	43	23	37.57	475.410
260569	72	604	285	4.60	43	23	37.43	464.780
270569	73	590	282	4.56	43	23	37.05	449.230
280569	73	578	281	4.53	43	23	36.60	438.530
290569	75	577	281	4.52	43	24	36.74	437.770
300569	75	576	283	4.52	43	24	36.64	440.120
310569	75	571	295	4.51	43	24	36.39	454.800
10669	64	566	308	4.49	43	21	36.37	470.690
20669	64	560	326	4.47	43	21	36.25	492.910
30669	64	549	339	4.44	43	21	35.87	502.500
40669	64	542	353	4.42	43	21	35.64	516.580
50669	64	518	358	4.35	43	21	34.84	500.700
60669	64	488	364	4.26	43	21	33.81	479.610
70669	64	459	368	4.17	43	21	32.77	456.060
80669	64	432	371	4.08	43	21	31.84	432.730
90669	66	407	369	4.00	43	21	30.80	405.490
100669	66	397	365	3.96	43	21	30.53	391.240
110669	66	393	351	3.95	43	21	30.29	372.450
120669	66	387	345	3.93	43	21	30.03	360.490
130669	68	382	339	3.91	43	22	29.88	349.640
140669	68	374	331	3.88	43	22	29.59	334.240
150669	68	361	323	3.83	43	22	29.11	314.830
160669	70	348	316	3.78	43	22	28.60	296.910
170669	70	335	313	3.73	43	22	28.05	283.110
180669	70	326	310	3.70	43	22	27.56	272.660
190669	70	324	304	3.69	43	22	27.51	265.940
200669	70	324	294	3.69	43	22	27.51	257.190
210669	70	325	285	3.69	43	22	27.64	250.090
220669	81	325	271	3.69	43	25	27.64	237.800
230669	81	326	256	3.70	43	25	27.56	225.330
240669	81	333	255	3.73	43	25	27.80	229.270
250669	81	340	256	3.75	43	25	28.25	235.010
260669	81	346	266	3.78	43	25	28.35	248.500
270669	81	342	271	3.76	43	25	28.29	250.240
280669	81	341	285	3.76	43	25	28.16	262.400
290669	81	348	297	3.78	43	25	28.60	279.060
300669	81	362	328	3.84	43	25	29.02	320.590
10769	81	381	389	3.91	43	25	29.76	400.180
20769	81	401	459	3.98	43	25	30.56	496.960
30769	81	423	499	4.05	43	25	31.50	569.910
40769	82	444	549	4.12	43	25	32.27	658.140
50769	82	461	569	4.18	43	25	32.76	708.230
60769	82	473	578	4.22	43	25	33.14	738.160
70769	82	484	596	4.25	43	25	33.62	776.850
80769	82	495	606	4.28	43	25	34.09	809.920
90769	32	503	612	4.31	43	25	34.22	831.160
100769	82	504	614	4.31	43	25	34.33	835.530
110769	84	508	611	4.32	43	26	34.51	838.090
120769	84	506	607	4.32	43	26	34.31	829.280
130769	84	504	604	4.31	43	26	34.33	821.920
140769	84	505	598	4.31	43	26	34.43	815.370
150769	84	506	593	4.32	43	26	34.31	810.680
160769	84	510	588	4.33	43	26	34.49	809.680
170769	84	519	567	4.36	43	26	34.72	794.540
180769	84	516	558	4.35	43	26	34.64	777.410
190769	84	522	549	4.37	43	26	34.79	773.760
200769	84	530	540	4.39	43	26	35.14	772.740
210769	84	538	521	4.41	43	26	35.47	756.800
220769	84	544	498	4.43	43	26	35.61	731.460
230769	84	559	471	4.47	43	26	36.16	710.680
240769	84	565	445	4.49	43	26	36.28	678.850
250769	84	572	409	4.51	43	26	36.49	631.660
260769	84	572	372	4.51	43	26	36.49	574.520
270769	84	569	355	4.50	43	26	36.43	545.390
280769	84	561	338	4.48	43	26	36.12	511.970
290769	84	543	326	4.43	43	26	35.51	477.650
300769	84	522	315	4.37	43	26	34.79	443.960
310769	84	507	303	4.32	43	26	34.41	414.780
10869	84	491	301	4.27	43	26	33.90	399.040
20869	84	474	300	4.22	43	26	33.25	383.940
30869	82	455	298	4.16	43	25	32.57	366.090
40869	84	433	298	4.09	43	26	31.73	348.390
50869	82	411	298	4.01	43	25	31.04	330.690
60869	82	389	298	3.94	43	25	30.04	312.990

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
70869	82	371	298	3.87	43	25	29.45	298.510
80869	82	356	298	3.82	43	25	28.72	286.440
90869	82	337	298	3.74	43	25	28.09	271.150
100869	84	321	297	3.68	43	26	27.34	257.410
110869	84	306	297	3.62	43	26	26.67	245.380
120869	84	290	296	3.55	43	26	26.01	231.770
130869	84	276	296	3.49	43	26	25.35	220.580
140869	82	265	295	3.44	43	25	24.84	211.070
150869	82	257	281	3.40	43	25	24.53	194.990
160869	82	253	269	3.38	43	25	24.36	183.750
170869	84	252	263	3.38	43	25	24.22	178.950
180869	84	259	262	3.41	43	26	24.61	183.220
190869	82	262	259	3.42	43	26	24.83	183.220
200869	82	267	258	3.45	43	25	24.92	185.990
210869	82	272	255	3.47	43	25	25.20	187.270
220869	82	273	253	3.47	43	25	25.34	186.490
230869	84	266	249	3.44	43	26	24.98	178.830
240869	84	258	242	3.41	43	26	24.47	168.580
250869	84	253	239	3.38	43	26	24.36	163.260
260869	82	254	238	3.39	43	25	24.30	163.220
270869	82	257	237	3.40	43	25	24.53	164.450
280869	82	259	236	3.41	43	25	24.61	165.030
290869	82	260	236	3.42	43	25	24.55	165.670
300869	82	263	231	3.43	43	25	24.77	164.030
310869	82	266	228	3.44	43	25	24.98	163.750
10869	81	268	218	3.45	43	25	25.06	157.740
20869	81	268	207	3.45	43	25	25.06	148.110
30869	81	265	195	3.44	43	25	24.84	136.890
40869	81	260	188	3.42	43	25	24.55	127.410
50869	81	251	181	3.37	43	25	24.28	115.330
60869	81	236	173	3.30	43	25	23.50	102.760
70869	81	220	167	3.22	43	25	22.68	94.240
80869	81	209	161	3.16	43	25	22.15	86.940
90869	81	200	155	3.11	43	25	21.69	82.030
100869	82	195	150	3.09	43	25	21.44	78.570
110869	82	194	152	3.08	43	25	21.31	80.850
120869	82	197	152	3.10	43	25	21.40	82.080
130869	84	203	151	3.13	43	26	21.78	82.760
140869	84	209	153	3.16	43	26	22.15	86.340
150869	82	214	156	3.19	43	25	22.34	90.140
160869	81	214	158	3.19	43	25	22.34	91.290
170869	79	211	161	3.17	43	25	22.27	91.720
180869	79	208	163	3.16	43	25	21.99	91.540
190869	79	207	167	3.15	43	25	22.03	93.340
200869	79	207	170	3.15	43	25	22.03	95.010
210869	81	205	174	3.14	43	25	21.91	96.310
220869	81	201	178	3.12	43	25	21.66	96.600
230869	79	196	182	3.09	43	25	21.44	96.310
240869	79	195	185	3.09	43	25	21.27	97.400
250869	77	198	189	3.10	43	24	21.57	101.040
260869	75	205	194	3.14	43	24	21.91	107.380
270869	75	212	199	3.18	43	24	22.23	113.910
280969	75	219	203	3.22	43	24	22.52	120.030
290969	73	224	208	3.24	43	23	22.89	125.800
300969	73	229	213	3.27	43	23	23.05	131.700
11069	73	228	230	3.26	43	23	23.10	141.590
21069	75	221	243	3.23	43	24	22.63	145.000
31069	75	212	251	3.18	43	24	22.23	143.670
41069	75	208	255	3.16	43	24	21.99	143.210
51069	73	206	256	3.15	43	23	21.87	142.390
61069	73	211	255	3.17	43	23	22.27	145.270
71069	73	221	250	3.23	43	23	22.63	149.170
81069	73	208	244	3.16	43	23	21.99	137.030
91069	75	203	234	3.13	43	24	21.78	128.260
101069	75	197	228	3.10	43	24	21.40	121.270
111069	75	195	224	3.09	43	24	21.27	117.940
121069	75	192	221	3.07	43	24	21.17	114.570
131069	75	189	224	3.05	43	24	21.06	114.310
141069	70	186	225	3.04	43	22	20.76	112.590
151069	70	186	228	3.04	43	22	20.76	114.500
161069	75	190	234	3.06	43	24	21.04	120.040
171069	70	194	241	3.08	43	22	21.31	126.240
181069	70	199	254	3.11	43	22	21.53	136.470
191069	70	212	265	3.18	43	22	22.23	151.690
201069	70	242	281	3.33	43	22	22.78	183.610
211069	70	284	301	3.52	43	22	25.02	230.810
221069	66	323	328	3.69	43	21	27.39	286.050
231069	66	361	367	3.83	43	21	29.11	357.710
241069	66	394	423	3.95	43	21	30.40	449.990
251069	64	417	469	4.03	43	21	31.27	528.050
261069	63	423	491	4.05	43	20	31.50	560.770
271069	63	418	481	4.04	43	20	31.17	542.860
281069	61	393	457	3.95	43	20	30.29	484.920
291069	61	368	429	3.86	43	20	29.30	426.250
301069	61	350	399	3.79	43	20	28.63	377.050
311069	61	334	371	3.73	43	20	27.93	334.570
11169	59	150	267	2.81	43	19	18.80	108.130
21169	59	144	262	2.77	43	19	18.42	101.870
31169	59	138	259	2.73	43	19	18.01	96.500
41169	57	132	252	2.69	43	19	17.57	89.810
51169	57	127	246	2.65	43	19	17.30	84.350
61169	57	121	234	2.61	43	19	16.80	76.450
71169	59	117	222	2.58	43	19	16.51	70.130
81169	59	113	207	2.55	43	19	16.20	63.160
91169	57	109	191	2.51	43	19	16.05	56.210
101169	57	107	175	2.50	43	19	15.79	50.560
111169	57	107	164	2.50	43	19	15.79	47.380
121169	59	108	153	2.51	43	19	15.83	44.610
131169	59	113	142	2.55	43	19	16.20	43.320
141169	58	115	136	2.56	43	19	16.45	42.230
151169	55	111	128	2.53	43	18	16.13	38.360
161169	57	108	126	2.51	43	19	15.83	36.740
171169	57	104	122	2.47	43	19	15.66	34.260
181169	55	99	120	2.43	43	18	15.23	32.080

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
191169	55	97	115	2.41	43	18	15.13	30.120
201169	54	96	113	2.40	43	18	15.07	29.250
211169	54	99	111	2.43	43	18	15.23	29.670
221169	54	107	112	2.50	43	18	15.79	32.360
231169	54	116	114	2.57	43	18	16.48	35.700
241169	54	123	116	2.62	43	18	17.03	38.520
251169	54	127	126	2.65	43	18	17.30	43.210
261169	54	131	152	2.68	43	18	17.55	53.760
271169	52	134	166	2.70	43	18	17.78	60.060
281169	50	137	175	2.73	43	17	17.81	64.730
291169	48	139	182	2.74	43	17	18.02	68.300
301169	52	139	186	2.74	43	18	18.02	69.170
11269	55	313	303	3.65	43	18	26.95	256.070
21269	54	305	300	3.61	43	18	26.75	247.050
31269	54	293	295	3.56	43	18	26.20	233.370
41269	54	280	288	3.51	43	18	25.48	217.730
51269	50	275	279	3.48	43	17	25.41	207.160
61269	48	281	272	3.51	43	17	25.62	206.370
71269	50	277	263	3.49	43	17	25.48	196.700
81269	48	269	257	3.46	43	17	24.99	186.660
91269	46	267	251	3.45	43	16	24.92	180.950
101269	46	268	248	3.45	43	16	25.06	179.450
111269	46	263	244	3.43	43	16	24.77	173.260
121269	46	262	242	3.42	43	16	24.83	171.190
131269	46	260	240	3.42	43	16	24.55	169.480
141269	45	260	239	3.42	43	16	24.55	167.780
151269	45	262	239	3.42	43	16	24.83	169.070
161269	46	262	241	3.42	43	16	24.83	170.480
171269	46	260	245	3.42	43	16	24.55	171.990
181269	46	255	253	3.39	43	16	24.45	174.150
191269	46	255	258	3.39	43	16	24.45	177.630
201269	46	255	266	3.39	43	16	24.45	183.140
211269	48	257	275	3.40	43	17	24.53	190.820
221269	46	251	285	3.37	43	16	24.28	200.840
231269	46	265	296	3.44	43	16	24.84	211.790
241269	46	273	306	3.47	43	16	25.34	225.550
251269	46	280	319	3.51	43	16	25.48	241.160
261269	46	287	331	3.54	43	16	25.81	256.450
271269	48	289	346	3.55	43	17	25.87	269.980
281269	48	285	357	3.53	43	17	25.75	274.710
291269	48	284	369	3.52	43	17	25.82	282.450
301269	43	288	385	3.54	43	15	25.95	299.380
311269	43	273	383	3.47	43	15	25.34	282.310
10170	43	276	393	3.37	43	15	25.98	292.880
20170	43	292	401	3.44	43	15	26.72	316.150
30170	43	318	419	3.55	43	15	27.88	359.750
40170	43	348	438	3.68	43	15	29.06	411.540
50170	43	394	466	3.86	43	15	30.84	495.720
60170	43	464	500	4.11	43	15	33.35	626.400
70170	43	509	537	4.26	43	15	34.85	738.000
80170	39	554	581	4.40	43	14	36.30	869.060
90170	41	596	630	4.52	43	15	37.65	13.600
100170	43	635	666	4.63	43	15	38.82	141.860
110170	43	671	684	4.72	43	15	39.85	239.200
120170	37	697	693	4.80	43	13	40.58	304.160
130170	39	699	684	4.81	43	14	40.58	290.510
140170	41	694	664	4.79	43	15	40.51	244.200
150170	43	665	625	4.72	43	15	39.61	122.190
160170	41	625	584	4.60	43	15	38.54	985.500
170170	39	581	541	4.48	43	14	37.15	848.670
180170	37	533	505	4.33	43	13	35.69	726.750
190170	39	493	570	4.20	43	14	34.40	625.620
200170	39	464	440	4.04	43	14	32.67	527.470
210170	37	406	418	3.90	43	13	31.33	458.210
220170	37	372	399	3.77	43	13	30.06	400.760
230170	36	344	381	3.66	43	13	28.94	353.870
240170	37	324	367	3.58	43	13	28.09	321.050
250170	37	309	356	3.52	43	13	27.41	297.010
260170	43	300	339	3.48	43	15	27.03	274.290
270170	43	289	323	3.43	43	15	26.56	252.040
280170	45	278	306	3.38	43	16	26.06	229.680
290170	45	270	209	3.34	43	16	25.72	211.410
300170	45	261	274	3.30	43	16	25.28	193.090
310170	45	259	263	3.29	43	16	25.19	183.920
10270	43	259	254	3.29	43	15	25.19	177.620
20270	43	259	244	3.29	43	15	25.19	170.630
30270	41	254	238	3.26	43	15	25.00	163.220
40270	39	251	237	3.25	43	14	24.82	160.610
50270	41	260	236	3.29	43	15	25.28	165.670
60270	45	285	243	3.41	43	16	26.40	186.990
70270	45	318	257	3.55	43	16	27.88	220.660
80270	45	353	269	3.70	43	16	29.26	256.380
90270	45	389	282	3.84	43	16	30.66	296.180
100270	43	416	298	3.94	43	15	31.66	334.710
110270	43	444	313	4.04	43	15	32.67	375.220
120270	43	467	328	4.12	43	15	33.46	413.530
130270	43	479	341	4.16	43	15	33.87	441.020
140270	43	487	353	4.18	43	15	34.20	464.160
150270	43	488	366	4.19	43	15	34.17	482.240
160270	43	490	377	4.19	43	15	34.30	498.770
170270	41	487	387	4.18	43	15	34.20	508.870
180270	41	487	393	4.18	43	15	34.20	516.760
190270	40	490	398	4.19	43	14	34.30	526.550
200270	41	499	402	4.22	43	15	34.60	541.610
210270	39	508	402	4.25	43	14	34.88	551.380
220270	39	517	402	4.28	43	14	35.17	561.150
230270	41	525	402	4.31	43	15	35.38	569.830
240270	39	527	399	4.31	43	14	35.51	567.740
250270	39	531	397	4.33	43	14	35.56	569.180
260270	39	534	393	4.34	43	14	35.65	566.630
270270	39	529	389	4.32	43	14	35.53	555.610
280270	43	522	383	4.30	43	15	35.29	539.800
10370	43	517	379	4.28	43	15	35.17	529.050
20370	43	506	368	4.25	43	15	34.75	502.760

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
30370	45	512	362	4.27	43	16	34.94	500.430
40370	46	528	358	4.32	43	16	35.47	510.360
50370	47	518	354	4.28	43	16	35.23	495.100
60370	46	511	346	4.26	43	16	34.98	477.380
70370	46	501	342	4.23	43	16	34.63	462.620
80370	46	493	340	4.20	43	16	34.40	452.570
90370	46	487	339	4.18	43	16	34.20	445.750
100370	46	481	341	4.16	43	16	34.00	442.860
110370	46	481	343	4.16	43	16	34.00	445.450
120370	50	482	345	4.17	43	17	33.97	448.980
130370	50	492	348	4.20	43	17	34.33	462.280
140370	46	509	350	4.26	43	16	34.85	481.000
150370	46	526	351	4.31	43	16	35.44	498.490
160370	46	542	351	4.36	43	16	35.95	513.650
170370	48	555	348	4.40	43	17	36.36	521.480
180370	48	564	344	4.43	43	17	36.62	523.840
190370	50	569	338	4.44	43	17	36.76	518.360
200370	48	570	332	4.44	43	17	36.88	510.950
210370	50	567	321	4.44	43	17	36.70	491.420
220370	46	568	309	4.44	43	16	36.76	473.880
230370	46	562	297	4.42	43	16	36.59	450.670
240370	46	555	288	4.40	43	16	36.36	431.570
250370	46	548	281	4.38	43	16	36.13	415.770
260370	48	542	275	4.36	43	17	35.95	402.430
270370	48	542	268	4.36	43	17	35.95	392.190
280370	48	543	262	4.36	43	17	36.02	384.120
290370	48	546	258	4.37	43	17	36.10	380.340
300370	48	548	254	4.38	43	17	36.13	375.820
310370	50	548	249	4.38	43	17	36.13	368.420
10470	59	542	247	4.36	43	18	35.95	361.460
20470	50	537	249	4.34	43	17	35.84	361.030
30470	52	541	259	4.36	43	18	35.89	378.320
40470	52	548	281	4.38	43	18	36.13	415.770
50470	52	553	304	4.39	43	18	36.34	453.900
60470	52	558	324	4.41	43	18	36.45	488.140
70470	52	564	347	4.43	43	18	36.62	428.410
80470	54	573	374	4.45	43	18	36.96	578.620
90470	55	590	400	4.50	43	18	37.49	637.200
100470	54	619	432	4.59	43	18	38.30	722.000
110470	54	649	455	4.67	43	18	39.22	797.300
120470	54	677	477	4.75	43	18	39.98	871.910
130470	54	698	494	4.80	43	18	40.63	930.590
140470	54	703	515	4.82	43	18	40.70	977.520
150470	54	706	532	4.82	43	18	40.86	14.100
160470	58	710	549	4.83	43	19	40.98	52.430
170470	54	712	556	4.84	43	18	40.99	68.650
180470	57	710	557	4.83	43	19	40.98	67.770
190470	57	715	556	4.85	43	19	41.05	73.360
200470	59	702	555	4.81	43	19	40.75	51.950
210470	63	694	549	4.79	43	20	40.51	28.720
220470	63	683	527	4.76	43	20	40.21	971.840
230470	64	684	507	4.77	43	21	40.17	936.330
240470	64	682	497	4.76	43	21	40.16	915.180
250470	63	673	491	4.75	43	20	40.09	900.150
260470	64	681	488	4.76	43	21	40.10	897.290
270470	64	688	488	4.78	43	21	40.29	906.510
280470	64	698	491	4.80	43	21	40.63	925.340
290470	66	723	495	4.87	43	21	41.27	966.290
300470	66	746	497	4.93	43	21	41.89	1.000
10570	64	766	505	4.98	43	21	42.42	44.440
20570	64	788	509	5.03	43	21	43.05	82.950
30570	63	798	513	5.06	43	20	43.25	105.310
40570	65	806	515	5.08	43	21	43.45	120.740
50570	64	824	528	5.12	43	21	43.95	174.690
60570	64	844	529	5.17	43	21	44.43	205.490
70570	66	867	519	5.22	43	21	45.04	214.930
80570	66	885	499	5.26	43	21	45.50	192.360
90570	66	880	476	5.25	43	21	45.36	130.980
100570	68	887	448	5.27	43	22	45.49	72.920
110570	69	895	420	5.28	43	22	45.77	14.930
120570	70	911	399	5.32	43	22	46.12	981.420
130570	70	928	375	5.36	43	22	46.51	939.600
140570	72	945	351	5.39	43	23	47.00	895.580
150570	72	957	315	5.42	43	23	47.24	813.930
160570	70	952	292	5.41	43	23	47.11	750.560
170570	68	948	277	5.40	43	22	47.03	709.010
180570	70	929	268	5.36	43	22	46.56	672.220
190570	70	913	264	5.32	43	22	46.22	650.790
200570	72	892	262	5.28	43	23	45.63	631.000
210570	72	870	260	5.23	43	23	45.08	610.740
220570	73	851	261	5.18	43	23	44.67	595.700
230570	73	833	262	5.14	43	23	44.19	589.260
240570	73	821	265	5.11	43	23	43.90	587.430
250570	74	808	268	5.08	43	23	43.55	584.670
260570	73	799	286	5.06	43	23	43.30	621.300
270570	73	790	300	5.04	43	23	43.05	639.900
280570	73	773	313	5.00	43	23	42.58	653.200
290570	75	759	320	4.96	43	24	42.26	655.780
300570	75	750	326	4.94	43	24	41.99	660.150
310570	72	736	327	4.90	43	23	41.66	649.810
10670	75	719	322	4.86	43	24	41.18	625.100
20670	73	692	317	4.79	43	23	40.40	592.280
30670	73	653	314	4.68	43	23	39.34	553.610
40670	73	611	312	4.56	43	23	38.13	514.710
50670	73	578	311	4.75	43	23	40.04	485.350
60670	73	547	311	4.38	43	23	36.07	459.320
70670	73	524	312	4.30	43	23	35.41	441.420
80670	74	508	312	4.25	43	23	34.88	427.540
90670	73	499	312	4.22	43	23	34.60	420.360
100670	76	498	314	4.22	43	24	34.51	422.200
110670	76	509	316	4.26	43	23	34.85	434.280
120670	77	523	323	4.30	43	24	35.15	450.110
130670	77	536	326	4.34	43	24	35.78	471.750
140670	77	544	330	4.37	43	24	35.98	484.700

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
150670	77	552	335	4.39	43	24	36.28	499.280
160670	79	552	344	4.39	43	24	36.28	512.700
170670	79	550	352	4.38	43	25	36.25	522.720
180670	79	542	355	4.36	43	25	35.95	534.140
190670	79	526	373	4.31	43	25	35.44	529.730
200670	79	509	380	4.26	43	25	34.85	522.230
210670	79	493	389	4.20	43	25	34.40	517.800
220670	79	489	397	4.19	43	25	34.24	524.160
230670	79	484	406	4.17	43	25	34.10	530.560
240670	79	489	420	4.19	43	25	34.24	554.530
250670	81	497	424	4.22	43	25	34.47	568.970
260670	81	502	436	4.23	43	25	34.69	590.950
270670	81	498	443	4.22	43	25	34.53	595.660
280670	81	490	450	4.19	43	25	34.30	595.350
290670	81	484	458	4.17	43	25	34.10	598.510
300670	81	477	466	4.15	43	25	33.83	600.160
10770	81	472	463	4.13	43	25	33.69	590.050
20770	81	463	461	4.10	43	25	33.38	576.300
30770	81	450	460	4.06	43	25	32.88	558.900
40770	82	429	460	3.99	43	25	32.10	532.820
50770	81	406	458	3.90	43	25	31.33	502.060
60770	82	382	456	3.81	43	25	30.43	470.320
70770	82	355	455	3.71	43	25	29.32	436.120
80770	82	330	454	3.60	43	25	28.38	404.510
90770	83	312	454	3.53	43	25	27.57	382.450
100770	82	301	447	3.48	43	25	27.12	363.280
110770	82	291	437	3.44	43	25	26.64	343.350
120770	82	285	421	3.41	43	25	26.40	323.960
130770	82	274	405	3.36	43	25	25.89	299.620
140770	82	268	399	3.33	43	25	25.63	288.720
150770	82	259	382	3.29	43	25	25.19	267.130
160770	82	254	365	3.26	43	25	25.00	250.320
170770	82	244	359	3.21	43	25	24.53	236.510
180770	82	235	352	3.17	43	25	24.04	223.340
190770	84	229	350	3.13	43	26	23.82	216.400
200770	84	226	348	3.12	43	26	23.62	212.350
210770	82	222	352	3.10	43	25	23.40	210.990
220770	82	215	355	3.06	43	25	23.07	206.080
230770	82	205	357	3.00	43	25	22.59	197.600
240770	79	205	357	3.00	43	25	22.59	197.600
250770	79	206	352	3.01	43	25	22.60	195.780
260770	79	208	347	3.02	43	25	22.71	194.880
270770	81	210	336	3.03	43	25	22.83	190.510
280770	81	216	323	3.06	43	25	23.17	188.370
290770	81	209	316	3.03	43	25	22.73	178.320
300770	81	212	289	3.04	43	25	22.94	165.420
310770	81	210	268	3.03	43	25	22.83	151.960
10870	84	208	252	3.02	43	26	22.71	141.520
20870	84	206	238	3.01	43	26	22.60	132.380
30870	84	208	225	3.02	43	26	22.71	126.360
40870	84	204	214	3.00	43	26	22.48	117.870
50870	84	199	206	2.97	43	26	22.23	110.680
60870	86	198	201	2.96	43	26	22.22	107.450
70870	84	200	200	2.98	43	26	22.25	106.000
80870	84	204	202	3.00	43	26	22.48	111.260
90870	84	210	206	3.03	43	26	22.83	116.800
100870	84	218	209	3.08	43	26	23.19	123.020
110870	84	226	216	3.12	43	26	23.62	131.800
120870	84	237	222	3.18	43	26	24.14	142.060
130870	86	250	228	3.24	43	26	24.81	153.900
140870	86	258	235	3.28	43	26	25.19	163.700
150870	84	266	241	3.32	43	26	25.55	173.090
160870	86	274	247	3.36	43	26	25.89	182.730
170870	82	279	250	3.38	43	25	26.15	188.320
180870	82	289	253	3.43	43	25	26.56	197.420
190870	82	296	251	3.46	43	25	26.88	200.600
200870	81	294	247	3.45	43	25	26.80	196.070
210870	81	289	241	3.43	43	25	26.56	188.050
220870	81	276	234	3.37	43	25	25.98	174.380
230870	81	262	227	3.30	43	25	25.37	160.580
240870	81	250	220	3.24	43	25	24.81	148.500
250870	81	238	215	3.18	43	25	24.23	138.160
260870	81	232	210	3.15	43	25	23.93	131.540
270870	81	232	205	3.15	43	25	23.93	128.410
280870	81	230	200	3.14	43	25	23.82	124.200
290870	81	230	195	3.14	43	25	23.82	121.090
300870	81	232	189	3.15	43	25	23.93	118.390
310870	81	231	186	3.14	43	25	23.92	116.010
10970	81	227	182	3.12	43	25	23.71	111.550
20970	81	223	176	3.10	43	25	23.50	105.970
30970	83	218	170	3.08	43	25	23.19	100.060
40970	81	213	166	3.05	43	25	22.95	95.470
50970	81	208	163	3.02	43	25	22.71	91.540
60970	81	203	163	2.99	43	25	22.47	89.340
70970	81	199	168	2.97	43	25	22.23	90.270
80970	81	198	175	2.96	43	25	22.22	93.550
90970	81	195	180	2.95	43	25	21.99	94.770
100970	81	196	191	2.95	43	25	22.09	101.080
110970	81	200	207	2.98	43	25	22.25	111.780
120970	81	205	224	3.00	43	25	22.59	123.940
130970	81	208	243	3.02	43	25	22.71	136.470
140970	81	209	259	3.03	43	25	22.73	146.150
150970	81	202	265	2.99	43	25	22.37	144.530
160970	81	194	268	2.94	43	25	21.97	140.380
170970	82	184	271	2.88	43	25	21.43	134.630
180970	81	182	272	2.87	43	25	21.30	132.660
190970	81	180	274	2.86	43	25	21.17	133.160
200970	81	179	272	2.85	43	25	21.15	131.460
210970	81	183	271	2.88	43	25	21.32	133.900
220970	29	191	272	2.92	43	25	21.83	140.270
230970	81	199	277	2.97	43	25	22.23	148.830
240970	81	205	283	3.00	43	25	22.59	156.640
250970	79	210	297	3.00	43	25	22.19	174.810
260970	79	239	308	3.19	43	25	24.24	198.750

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
270970	79	265	321	3.31	43	25	25.55	229.680
280970	79	286	340	3.41	43	25	26.48	262.550
290970	79	291	358	3.44	43	25	26.64	281.280
300970	75	293	379	3.44	43	24	26.81	299.830
11070	75	303	348	3.49	43	24	27.19	284.700
21070	75	330	370	3.60	43	24	28.36	329.670
31070	75	360	386	3.73	43	24	29.52	375.150
41070	75	388	399	3.84	43	24	30.59	417.990
51070	74	405	412	3.90	43	23	31.26	450.520
61070	73	421	423	3.96	43	23	31.83	480.820
71070	73	422	412	3.96	43	23	31.90	469.430
81070	72	408	392	3.91	43	23	31.38	431.830
91070	70	389	365	3.84	43	22	30.66	383.360
101070	70	370	342	3.77	43	22	29.90	341.660
111070	70	352	336	3.70	43	22	29.18	319.330
121070	69	365	346	3.75	43	22	29.71	340.980
131070	69	361	332	3.73	43	22	29.60	323.600
141070	68	331	316	3.61	43	22	28.37	282.410
151070	68	313	299	3.53	43	22	27.65	252.680
161070	67	305	285	3.50	43	21	27.27	234.700
171070	66	296	283	3.46	43	21	26.88	226.170
181070	65	294	282	3.45	43	21	26.80	223.850
191070	65	305	293	3.50	43	21	27.27	241.290
201070	64	328	331	3.60	43	21	28.22	293.130
211070	64	352	361	3.70	43	21	29.18	343.090
221070	64	373	395	3.78	43	21	30.04	397.800
231070	64	383	326	3.82	43	21	30.41	440.530
241070	64	386	335	3.83	43	21	30.53	453.360
251070	63	379	424	3.80	43	20	30.30	433.880
261070	63	369	404	3.76	43	20	29.92	402.510
271070	64	358	386	3.72	43	21	29.46	372.110
281070	63	351	386	3.69	43	20	29.20	365.810
291070	63	348	388	3.68	43	20	29.06	364.560
301070	62	354	403	3.70	43	20	29.34	385.190
311070	62	364	424	3.74	43	20	29.73	416.710
11170	62	371	436	3.77	43	20	29.98	436.740
21170	61	368	437	3.76	43	20	29.85	434.200
31170	60	359	422	3.72	43	20	29.54	409.640
41170	59	356	431	3.71	43	19	29.46	414.280
51170	58	342	411	3.65	43	19	28.87	379.520
61170	59	334	391	3.62	43	19	28.62	352.600
71170	58	347	407	3.68	43	19	28.98	381.320
81170	59	362	418	3.74	43	19	29.58	408.550
91170	59	374	420	3.78	43	19	30.11	424.120
101170	59	380	412	3.81	43	19	30.28	422.710
111170	59	381	418	3.81	43	19	30.35	430.000
121170	58	386	434	3.82	43	19	30.53	452.310
131170	58	400	449	3.88	43	19	31.09	484.520
141170	58	414	441	3.93	43	19	31.62	492.990
151170	57	412	424	3.92	43	19	31.57	471.660
161170	57	409	357	3.91	43	19	31.45	394.240
171170	56	400	334	3.88	43	19	31.09	360.720
181170	56	394	320	3.86	43	19	30.84	340.420
191170	55	390	314	3.84	43	18	30.73	330.640
201170	55	396	306	3.87	43	18	30.89	327.180
211170	54	394	304	3.86	43	18	30.84	323.400
221170	55	389	301	3.84	43	18	30.66	316.140
231170	53	385	298	3.82	43	18	30.55	309.770
241170	51	382	290	3.81	43	18	30.43	299.110
251170	50	380	287	3.81	43	17	30.28	294.460
261170	51	378	285	3.80	43	18	30.22	290.870
271170	51	377	285	3.79	43	18	30.24	290.100
281170	50	375	283	3.79	43	17	30.09	286.540
291170	49	375	288	3.79	43	17	30.09	291.600
301170	49	381	298	3.81	43	17	30.35	306.550
11270	50	385	302	3.82	43	17	30.55	313.930
21270	50	385	303	3.82	43	17	30.55	314.970
31270	51	380	296	3.81	43	18	30.28	303.700
41270	51	369	270	3.76	43	18	29.92	269.000
51270	51	354	261	3.70	43	18	29.34	249.460
61270	51	338	253	3.64	43	18	28.85	230.890
71270	50	318	241	3.55	43	17	27.88	206.920
81270	50	298	235	3.47	43	17	26.96	189.080
91270	50	809	222	5.08	43	17	43.60	167.630
101270	51	270	218	3.34	43	18	25.72	158.920
111270	52	266	213	3.32	43	18	25.55	152.980
121270	50	263	212	3.30	43	17	25.46	150.540
131270	50	264	220	3.31	43	17	25.46	156.820
141270	50	268	226	3.33	43	17	25.63	163.530
151270	49	272	233	3.35	43	17	25.81	171.120
161270	49	274	239	3.36	43	17	25.89	176.810
171270	48	275	240	3.36	43	17	25.98	178.200
181270	48	275	238	3.36	43	17	25.98	176.710
191270	48	276	236	3.37	43	17	25.98	175.870
201270	48	280	242	3.39	43	17	26.14	182.950
211270	48	290	252	3.43	43	17	26.64	197.320
221270	49	298	266	3.47	43	17	26.96	214.020
231270	51	312	284	3.53	43	18	27.57	239.240
241270	49	326	304	3.59	43	17	28.16	267.580
251270	48	340	331	3.65	43	17	28.71	303.860
261270	47	355	352	3.71	43	16	29.32	337.390
271270	47	371	380	3.77	43	16	29.98	380.650
281270	46	393	406	3.85	43	16	30.86	430.810
291270	46	426	432	3.98	43	16	31.99	496.890
301270	46	454	451	4.07	43	16	32.06	552.840
311270	45	475	488	4.14	43	16	32.80	625.860
10171	45	493	500	4.11	43	16	63.45	665.550
20171	44	503	513	4.14	43	16	64.15	696.710
30171	44	510	526	4.17	43	16	64.48	724.300
40171	43	513	541	4.18	43	0	64.66	749.340
50171	43	511	557	4.17	43	15	64.60	768.490
60171	43	510	569	4.17	43	15	64.48	783.510
70171	42	508	565	4.16	43	15	64.41	774.950
80171	41	517	559	4.19	43	15	64.97	780.310

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
90171	40	515	550	4.18	43	14	64.91	764.770
100171	40	509	532	4.16	43	14	64.53	731.130
110171	41	505	510	4.15	43	15	64.22	695.380
120171	41	491	489	4.10	43	15	63.38	648.270
130171	41	483	480	4.07	43	15	62.91	625.970
140171	41	481	470	4.06	43	15	62.84	610.390
150171	42	483	466	4.07	43	15	62.91	607.710
160171	41	485	467	4.08	43	15	62.99	610.539
170171	42	488	474	4.09	43	15	63.18	624.540
180171	42	493	481	4.11	43	15	63.45	640.260
190171	41	496	480	4.12	43	15	63.65	642.820
200171	41	495	478	4.11	43	15	63.70	638.850
210171	41	486	474	4.08	43	15	63.11	621.980
220171	41	476	460	4.04	43	15	62.56	591.190
230171	41	467	452	4.01	43	15	61.95	569.930
240171	42	460	448	3.98	43	15	61.59	556.420
250171	42	457	439	3.97	43	15	61.38	541.680
260171	42	456	434	3.97	43	15	61.25	534.340
270171	41	449	423	3.94	43	15	60.87	512.800
280171	41	438	414	3.90	43	15	60.13	489.600
290171	42	430	407	3.87	43	15	59.60	472.530
300171	43	418	399	3.82	43	15	58.87	450.310
310171	43	408	390	3.78	43	15	58.21	429.620
10271	43	398	390	3.74	43	15	57.54	419.090
20271	42	394	392	3.72	43	15	57.33	417.010
30271	42	390	393	3.71	43	15	56.95	413.830
40271	45	389	395	3.70	43	16	56.98	414.870
50271	43	393	397	3.72	43	15	57.19	421.260
60271	44	391	399	3.71	43	16	57.09	421.220
70271	44	390	399	3.71	43	16	56.95	420.150
80271	42	383	386	3.68	43	15	56.48	399.160
90271	41	375	355	3.64	43	15	56.05	359.440
100271	41	364	329	3.60	43	15	55.16	323.340
110271	42	353	326	3.55	43	15	54.42	310.710
120271	43	357	318	3.57	43	15	54.66	306.520
130271	40	375	331	3.64	43	14	56.05	335.140
140271	40	401	353	3.75	43	14	57.78	382.190
150271	40	440	394	3.91	43	14	60.22	468.070
160271	40	487	436	4.08	43	14	63.24	573.300
170271	42	530	462	4.24	43	15	65.64	661.120
180271	42	558	494	4.33	43	15	67.34	744.260
190271	42	573	527	4.38	43	15	68.17	815.320
200271	42	584	544	4.42	43	15	68.71	857.780
210271	43	587	551	4.43	43	15	68.88	873.280
220271	42	592	557	4.45	43	15	69.08	890.310
230271	43	589	562	4.44	43	15	68.92	893.750
240271	44	595	565	4.46	43	16	69.24	907.670
250271	45	608	568	4.50	43	16	69.98	932.430
260271	45	635	580	4.58	43	16	71.51	994.410
270271	46	663	592	4.67	43	16	72.89	59.740
280271	46	689	617	4.75	43	16	74.18	147.810
10371	46	715	632	4.83	43	16	75.42	220.080
20371	47	754	654	4.94	43	16	77.35	331.410
30371	46	789	667	5.04	43	16	78.97	420.910
40371	46	809	680	5.09	43	16	79.98	485.320
50371	46	826	700	5.14	43	16	80.69	561.140
60371	46	844	720	5.19	43	16	81.47	640.740
70371	46	864	730	5.24	43	16	82.42	702.940
80371	46	878	738	5.28	43	16	82.98	749.500
90371	47	892	752	5.31	43	16	83.71	811.120
100371	47	919	768	5.38	43	16	84.86	905.640
110371	47	942	792	5.44	43	16	85.81	14.370
120371	47	965	820	5.50	43	16	86.72	136.510
130371	48	970	836	5.51	43	17	86.97	185.480
140371	48	972	845	5.51	43	17	87.15	217.620
150371	48	973	845	5.52	43	17	87.05	219.900
160371	48	967	840	5.50	43	17	86.90	193.160
170371	48	955	835	5.47	43	17	86.40	153.050
180371	49	940	812	5.44	43	17	85.63	80.660
190371	49	941	801	5.44	43	17	85.72	35.100
200371	49	927	795	5.40	43	17	85.21	989.810
210371	49	910	782	5.36	43	17	84.42	921.370
220371	49	886	772	5.30	43	17	83.34	846.780
230371	49	871	738	5.26	43	17	82.70	735.550
240371	50	850	715	5.20	43	17	81.85	640.920
250371	50	835	695	5.16	43	17	81.18	566.880
260371	50	822	674	5.13	43	17	80.49	498.090
270371	51	803	652	5.08	43	18	79.59	413.600
280371	51	779	629	5.01	43	18	78.54	322.980
290371	52	760	605	4.96	43	18	77.58	241.460
300371	52	736	585	4.89	43	18	76.46	162.510
310371	53	713	571	4.82	43	18	75.39	99.230
10471	53	685	551	4.74	43	18	73.95	19.070
20471	54	667	532	4.68	43	18	73.14	958.080
30471	54	651	522	4.63	43	18	72.33	917.520
40471	55	633	508	4.58	43	18	71.29	868.220
50471	55	616	493	4.52	43	18	70.50	819.960
60471	56	559	483	4.34	43	19	67.27	728.990
70471	56	506	476	4.15	43	19	64.24	650.310
80471	57	488	450	4.09	43	19	63.18	592.920
90471	57	473	426	4.03	43	19	62.36	544.040
100471	57	460	395	3.98	43	19	61.59	490.590
110471	58	450	371	3.95	43	10	60.82	450.760
120471	58	439	346	3.90	43	19	60.26	410.110
130471	59	431	325	3.87	43	19	59.73	378.200
140471	59	425	315	3.85	43	19	59.28	361.460
150471	60	419	310	3.83	43	20	58.83	350.700
160471	60	411	302	3.79	43	20	58.45	335.130
170471	60	400	292	3.75	43	20	57.64	315.360
180471	61	393	282	3.72	43	20	57.19	299.230
190471	61	386	276	3.69	43	20	56.73	287.650
200471	61	380	276	3.67	43	20	56.23	283.180
210471	62	383	282	3.68	43	20	56.48	291.620
220471	62	390	289	3.71	43	20	56.95	304.320

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
230471	63	380	290	3.67	43	20	56.23	297.540
240471	64	372	287	3.63	43	21	55.79	288.260
250471	64	363	277	3.59	43	21	55.19	271.490
260471	65	356	268	3.56	43	21	54.69	257.600
270471	66	348	260	3.53	43	21	54.02	244.300
280471	66	338	255	3.48	43	21	53.40	232.710
290471	68	333	256	3.46	43	22	52.98	230.170
300471	68	331	255	3.45	43	22	52.85	227.890
10571	67	333	254	3.46	43	21	52.98	228.370
20571	67	337	262	3.48	43	21	53.24	238.360
30571	68	345	274	3.52	43	22	53.75	255.230
40571	68	354	295	3.55	43	22	54.57	280.960
50571	68	345	301	3.52	43	22	53.75	280.380
60571	68	336	296	3.47	43	22	53.27	266.510
70571	68	347	305	3.52	43	22	54.05	285.750
80571	68	352	324	3.55	43	22	54.27	307.930
90571	68	353	328	3.55	43	22	54.42	312.620
100571	69	355	332	3.56	43	22	54.54	318.220
110571	70	355	410	3.56	43	22	54.69	394.090
120571	70	377	376	3.65	43	22	56.16	382.730
130571	69	384	378	3.68	43	22	56.63	391.910
140571	69	379	378	3.66	43	22	56.27	386.810
150571	68	387	420	3.70	43	22	56.70	438.860
160571	68	400	480	3.75	43	22	57.64	518.400
170571	68	419	555	3.83	43	22	58.83	627.870
180571	69	434	596	3.88	43	22	59.96	698.360
190571	70	445	635	3.93	43	22	60.52	762.950
200571	70	475	656	4.04	43	22	62.44	841.320
210571	70	501	680	4.13	43	22	64.08	919.840
220571	70	520	702	4.20	43	22	65.15	985.610
230571	71	537	725	4.26	43	22	66.12	51.180
240571	71	553	745	4.32	43	22	66.93	112.360
250571	71	565	754	4.36	43	22	67.61	150.230
260571	72	570	751	4.37	43	23	68.01	155.790
270571	72	558	735	4.33	43	23	67.34	107.350
280571	73	543	670	4.28	43	23	66.47	982.290
290571	73	521	585	4.21	43	23	65.10	822.920
300571	72	496	508	4.12	43	23	63.65	680.310
310571	73	471	447	4.02	43	23	62.28	568.450
10671	73	442	400	3.91	43	23	60.48	477.360
20671	73	430	360	3.87	42	23	59.80	417.960
30671	72	418	329	3.82	43	23	58.87	371.310
40671	73	392	310	3.72	43	23	57.05	328.100
50671	73	370	293	3.62	43	23	55.68	292.710
60671	73	351	284	3.54	43	23	54.30	269.150
70671	74	338	274	3.48	43	23	53.40	250.050
80671	74	330	268	3.45	43	23	52.70	238.790
90671	75	327	267	3.43	43	24	52.59	235.730
100671	76	324	266	3.42	43	24	52.30	232.700
110671	76	321	264	3.41	43	24	52.01	228.810
120671	77	318	261	3.39	43	24	51.89	224.090
130671	77	315	257	3.38	43	24	51.59	218.580
140671	79	312	257	3.36	43	25	51.47	216.500
150671	80	312	257	3.36	43	25	51.47	216.500
160671	80	316	263	3.38	43	25	51.75	224.390
170671	80	319	288	3.40	43	25	51.87	230.830
180671	81	316	268	3.38	43	25	51.75	228.660
190671	81	313	265	3.37	43	25	51.45	223.950
200671	81	312	264	3.36	43	25	51.47	222.390
210671	82	318	272	3.39	43	25	51.89	233.540
220671	82	321	283	3.41	43	25	52.01	245.280
230671	82	327	295	3.43	43	25	52.59	260.460
240671	82	333	311	3.46	43	25	52.98	279.620
250671	82	337	333	3.48	43	25	53.24	303.000
260671	83	344	348	3.51	43	25	53.78	323.220
270671	83	346	358	3.52	43	25	53.90	334.440
280671	83	343	358	3.51	43	25	53.63	331.540
290671	84	333	355	3.46	43	26	52.98	319.180
300671	84	319	350	3.40	43	26	51.87	301.450
10771	84	308	335	3.35	43	26	51.00	278.590
20771	84	303	322	3.32	43	26	50.73	263.430
30771	84	292	314	3.27	43	26	49.81	247.560
40771	84	286	294	3.24	43	26	49.35	227.030
50771	84	279	293	3.21	43	26	48.70	220.720
60771	84	273	286	3.18	43	26	48.21	210.810
70771	85	266	282	3.14	43	26	47.70	202.530
80771	85	255	278	3.08	43	26	46.83	191.400
90771	86	249	268	3.05	43	26	46.28	180.180
100771	86	246	259	3.03	43	26	46.09	172.030
110771	87	240	254	3.00	43	26	45.53	164.590
120771	87	234	245	2.97	43	26	44.95	154.790
130771	87	228	239	2.94	43	26	44.35	147.130
140771	88	221	232	2.90	43	27	43.72	136.430
150771	88	217	228	2.87	43	27	43.47	133.590
160771	88	215	229	2.86	43	27	43.26	132.930
170771	88	217	231	2.87	43	27	43.47	135.340
180771	88	223	240	2.91	43	27	43.93	144.500
190771	88	231	253	2.95	43	27	44.74	157.800
200771	87	242	269	3.01	43	26	45.72	175.760
210771	86	250	288	3.06	43	26	46.29	194.400
220771	86	260	306	3.11	43	26	47.18	214.810
230771	85	268	318	3.15	43	26	47.87	230.100
240771	84	273	323	3.18	43	26	48.21	238.080
250771	79	275	334	3.19	43	25	48.37	247.900
260771	79	278	351	3.20	43	25	48.71	263.460
270771	81	276	358	3.19	43	25	48.54	266.780
280771	81	279	378	3.21	43	25	48.70	284.750
290771	81	289	391	3.25	43	25	49.67	305.100
300771	81	296	397	3.29	43	25	50.12	317.280
310771	81	294	400	3.28	43	25	49.97	317.520
10871	84	294	399	3.28	43	26	49.97	316.730
20871	84	293	398	3.27	41	26	49.98	307.740
30871	84	284	382	3.22	43	26	49.19	292.520
40871	84	279	367	3.21	43	26	48.70	276.460

MISSISSIPPI RIVER AT TARBERT LANDING

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
50871	84	273	356	3.18	43	26	48.21	262.410
60871	84	273	344	3.18	43	26	48.21	253.560
70871	84	275	323	3.19	43	26	48.37	254.650
80871	84	281	337	3.22	43	26	48.86	255.680
90871	84	288	342	3.25	43	26	49.50	265.940
100871	84	295	372	3.28	43	26	50.13	296.300
110871	84	299	374	3.30	43	26	50.43	301.930
120871	84	302	384	3.32	43	26	50.57	313.110
130871	86	304	394	3.33	43	26	50.71	323.400
140871	86	306	398	3.34	43	26	50.86	328.830
150871	84	311	403	3.36	43	26	51.31	338.400
160871	86	313	406	3.37	43	26	51.45	343.110
170871	82	310	394	3.36	43	25	51.15	329.760
180871	82	298	370	3.30	43	25	50.27	297.700
190871	82	282	349	3.22	43	25	49.03	265.730
200871	81	266	330	3.14	43	25	47.70	237.010
210871	81	249	310	3.05	43	25	46.26	208.410
220871	81	237	294	2.99	43	25	45.15	188.130
230871	81	228	289	2.94	43	25	44.35	177.510
240871	81	218	269	2.88	43	25	43.49	155.980
250871	81	210	241	2.83	43	25	42.81	136.650
260871	81	203	242	2.79	43	25	42.11	132.640
270871	81	202	241	2.79	43	25	41.91	131.440
280871	81	205	243	2.80	43	25	42.34	134.500
290871	81	212	255	2.84	43	25	43.02	145.960
300871	81	220	263	2.89	43	25	43.70	156.220
310871	81	224	272	2.91	43	25	44.12	164.510
10971	81	226	276	2.92	43	25	44.32	168.420
20971	81	226	279	2.92	43	25	44.32	170.250
30971	81	230	282	2.95	43	25	44.55	175.120
40971	81	232	281	2.96	43	25	44.75	176.020
50971	81	233	268	2.96	43	25	44.93	168.660
60971	81	228	262	2.94	43	25	44.35	161.290
70971	81	222	251	2.90	43	25	43.91	150.450
80971	81	211	241	2.84	43	25	42.83	137.300
90971	81	202	236	2.79	43	25	41.91	128.710
100971	81	200	224	2.77	43	25	41.86	120.960
110971	81	201	223	2.78	43	25	41.89	121.020
120971	81	201	221	2.78	43	25	41.89	119.940
130971	81	202	224	2.79	43	25	41.91	122.170
140971	81	204	232	2.80	43	25	42.14	127.790
150971	81	206	238	2.81	43	25	42.36	132.260
160971	81	213	243	2.85	43	25	43.05	139.750
170971	81	214	245	2.86	43	25	43.07	141.560
180971	81	204	240	2.80	43	25	42.14	132.190
190971	81	203	228	2.79	43	25	42.11	124.970
200971	81	201	223	2.78	43	25	41.89	121.020
210971	81	199	220	2.77	43	25	41.66	118.210
220971	81	201	224	2.78	43	25	41.89	121.560
230971	79	207	233	2.82	43	25	42.39	130.220
240971	81	215	243	2.86	43	25	43.26	141.060
250971	81	224	254	2.91	43	25	44.12	153.620
260971	79	231	265	2.95	43	25	44.74	165.280
270971	79	234	268	2.97	43	25	44.95	169.320
280971	79	235	269	2.97	43	25	45.13	170.680
290971	79	233	269	2.96	43	25	44.93	169.230
300971	75	232	268	2.96	43	24	44.75	167.880
141071	75	204	271	2.80	43	24	42.14	149.710
51171	58	209	242	2.83	43	19	42.61	137.041
181171	55	227	186	2.93	43	18	44.34	113.838
181271	48	298	810	3.30	43	17	50.27	653.627
291271	46	573	462	4.38	43	16	68.17	714.917

RED RIVER ABOVE OLD RIVER

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
330365	54	76	168	2.37	77	18	34.80	34.718
80465	63	97	329	2.82	77	20	35.96	86.430
210465	72	53	145	1.82	77	23	33.32	20.607
50565	69	35	48	1.35	77	22	31.59	432.800
190565	69	29	190	1.15	77	22	30.68	343.710
260565	69	24	238	1.03	77	22	30.06	347.820
100665	25	18	378	0.83	77	8	29.14	363.330
240665	81	19	53	0.87	77	25	29.18	420.600
290665	87	21	48	0.93	77	26	29.67	2.719
70765	88	20	53	0.90	77	27	29.44	2.790
150765	97	14	46	0.69	77	29	28.28	1.798
220765	92	12	22	0.62	77	28	27.65	0.725
50865	87	17	247	0.80	77	26	28.84	11.145
120865	87	13	58	0.66	77	26	27.85	2.063
190865	89	11	40	0.58	77	27	27.41	1.196
240865	85	9	167	0.50	77	26	26.78	4.161
30965	88	10	56	0.54	77	27	27.13	1.553
70965	89	8	39	0.46	77	27	26.35	0.863
330965	76	17	69	0.80	77	24	28.84	3.124
71065	73	17	144	0.80	77	23	28.84	6.613
141065	75	17	108	0.80	77	24	28.84	4.869
211065	74	15	51	0.73	77	23	28.41	1.996
181165	66	10	45	0.54	77	21	27.13	1.179
21265	62	9	39	0.50	77	20	26.78	0.922
91265	58	10	43	0.54	77	19	27.13	1.108
161265	58	8	140	0.46	77	19	26.35	3.098
40156	56	15	88	0.82	77	19	25.48	3.611
110166	55	13	76	0.72	77	18	25.25	2.565
200166	55	55	88	2.49	77	18	28.91	7.033
240166	41	44	732	2.05	77	15	28.36	8.755
110266	54	11	384	0.63	77	18	24.69	4.147
150266	55	71	986	3.09	77	18	29.69	455.307
250266	49	45	483	2.09	77	17	28.42	189.131
30366	50	16	426	0.87	77	17	25.57	133.360
90366	51	75	734	3.24	77	18	29.84	185.191
170366	58	61	435	2.72	77	19	29.21	71.055
230366	64	38	67	1.81	77	21	27.94	6.812
310366	63	27	66	1.35	77	20	27.05	4.765
130466	68	14	45	0.77	77	22	25.37	1.675
30566	69	45	432	2.09	77	22	28.42	971.511
120566	71	54	5	2.45	77	22	28.87	417.679
260566	76	19	355	1.00	77	24	26.13	110.566
230666	76	13	241	0.72	77	24	25.25	85.685
80766	78	18	495	0.96	77	24	25.90	157.789
140766	82	10	160	0.58	77	25	24.48	45.681
230766	81	58	185	2.60	77	25	29.11	184.223
70766	84	23	210	1.18	77	26	26.59	18.412
140766	89	27	117	1.35	77	27	27.05	8.655
190766	89	24	145	1.22	77	27	26.75	9.407
290766	87	22	160	1.14	77	26	26.41	9.685
110866	86	16	73	0.87	77	26	25.57	3.197
250866	85	20	54	1.05	77	26	26.18	2.934
90966	84	12	47	0.68	77	26	24.87	1.548
230966	77	14	64	0.77	77	24	25.37	2.407
61066	74	15	56	0.82	77	23	25.48	2.254
161166	64	11	72	0.63	77	21	24.69	2.125
21166	63	14	51	0.77	77	20	25.37	1.928
301166	61	10	185	0.58	77	22	24.48	5.035
161266	50	14	120	0.77	77	17	25.37	4.628
281266	51	17	73	0.91	77	18	25.84	3.390
120167	44	30	129	1.26	77	16	30.73	10.463
270167	52	16	113	0.74	77	18	29.59	4.867
90267	49	18	115	0.81	77	17	30.07	5.542
240267	51	41	322	1.64	77	18	31.34	35.845
60367	58	26	120	1.11	77	19	30.63	8.581
240367	64	11	69	0.53	77	21	29.39	2.119
50467	70	27	41	1.15	77	22	30.60	3.039
200467	76	80	716	2.91	77	24	32.39	154.886
30567	70	81	798	2.94	77	22	32.42	175.128
180567	76	93	382	3.31	77	24	32.65	95.478
10667	75	67	299	2.50	77	24	32.10	54.579
200767	83	32	116	1.33	77	25	30.87	10.205
100867	92	12	43	0.58	77	28	29.08	1.345
240867	85	23	57	1.00	77	26	30.42	3.582
250967	82	27	408	1.15	77	25	30.60	29.929
91067	74	13	93	0.62	77	23	29.25	3.103
71167	58	19	78	0.85	77	19	30.09	4.055
201167	61	19	130	0.85	77	20	30.09	6.663
60168	65	13	43	0.94	77	21	20.77	1.574
180168	40	128	771	3.78	77	14	36.69	266.331
130268	49	94	258	3.13	77	17	33.99	65.501
130368	55	54	425	2.23	77	18	29.64	62.057
110468	63	150	165	4.16	77	20	38.18	876.810
180468	69	159	306	4.31	77	22	38.74	131.848
240468	70	153	607	4.21	77	22	38.37	250.892
290568	75	180	611	4.65	77	24	39.94	296.897
120668	81	146	416	4.09	77	25	37.94	163.986
230668	82	139	287	3.97	77	25	37.47	107.872
230768	83	61	233	2.40	77	25	30.57	38.445
50868	48	27	343	1.46	77	17	24.97	25.285
40968	81	16	69	1.06	77	25	21.95	3.125
50968	80	9	69	0.75	77	25	18.98	1.683
71068	75	25	248	1.40	77	24	24.44	16.768
231068	71	23	110	1.33	77	22	23.94	6.888
181168	58	17	57	1.10	77	19	22.28	2.667
261268	48	94	391	3.13	77	17	33.99	99.134
270169	48	47	219	1.69	77	17	33.07	28.362
160169	50	174	328	4.39	77	17	41.25	55.046
120269	50	97	1012	2.87	77	17	37.35	266.044
180269	49	88	323	2.67	77	17	36.77	76.916
260269	50	129	721	3.53	77	17	39.21	250.988
50369	49	187	2347	4.63	77	17	41.74	185.111
170369	50	152	1212	3.98	77	17	40.31	497.430
230469	65	118	327	3.31	77	21	38.61	104.235

RED RIVER ABOVE OLD RIVER

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
10569	66	90	160	2.71	77	21	36.94	39.147
70569	67	98	677	2.89	77	21	37.43	179.976
220569	72	145	1400	3.84	77	23	40.62	547.939
20669	77	106	1158	3.06	77	24	37.93	331.264
160669	81	56	411	1.92	77	25	34.07	63.071
300669	87	23	128	1.00	77	26	29.38	8.071
140769	87	12	74	0.62	77	26	26.38	2.504
40869	86	34	125	1.33	77	26	31.38	11.506
250869	84	14	24	0.70	77	26	26.92	0.922
110969	83	13	134	0.66	77	25	26.67	5.021
260969	77	40	224	1.50	77	24	32.22	24.674
61069	78	8	3	0.46	77	24	24.63	0.056
171169	61	16	108	0.77	77	20	27.57	4.909
31169	64	26	100	1.10	77	21	29.88	10.363
81269	51	36	342	1.39	77	18	31.64	33.257
221269	50	23	2220	1.00	77	17	29.38	629.436
50170	44	174	1798	4.57	77	16	44.36	456.221
260170	45	67	271	2.24	77	16	36.70	49.383
90270	48	64	418	2.17	77	17	36.32	73.309
240270	51	57	254	1.99	77	18	35.49	39.656
90370	55	122	2572	3.51	77	18	41.31	847.177
230370	54	141	287	3.91	77	18	42.52	112.979
60470	59	101	314	3.05	77	19	39.77	85.637
240470	64	81	133	2.58	77	21	38.12	29.312
130570	70	92	242	2.84	77	22	39.08	60.228
200570	75	69	80	2.29	77	24	36.92	14.998
150670	80	66	82	2.22	77	25	36.54	14.716
10770	87	23	127	1.01	77	26	29.64	8.182
130770	88	16	99	0.77	77	27	27.59	4.462
270770	85	12	61	0.62	77	26	26.08	2.082
100870	88	9	108	0.50	77	27	24.64	2.468
240870	86	11	194	0.58	77	26	25.67	6.190
210970	86	9	110	0.50	77	26	24.64	2.861
51070	77	14	79	0.70	77	24	26.79	3.065
221070	65	42	598	1.58	77	21	33.46	68.264
121170	61	127	135	3.61	77	20	41.69	46.348
40171	52	174	96	4.54	77	18	45.85	11.527
260171	54	35	73	1.42	77	18	31.95	6.932
240271	56	49	117	1.81	77	19	34.49	15.541
100371	56	49	468	1.81	77	19	34.49	62.307
10471	60	26	108	1.10	77	20	30.74	20.427
130471	65	40	0	1.56	77	21	32.99	93.143
260471	74	25	631	1.11	77	23	29.66	43.869
130571	72	59	456	2.07	77	23	35.98	73.221
270571	75	54	108	1.94	77	24	35.28	15.916
180671	88	16	330	0.80	77	27	26.90	14.875
300671	87	18	62	0.88	77	26	27.43	2.228
190771	90	7	64	0.44	77	27	22.31	1.329
190871	85	34	581	1.39	77	26	31.75	54.383
300871	86	15	299	0.77	77	26	26.35	12.836
200971	78	26	946	1.14	77	24	29.97	66.966
41071	82	12	892	0.65	77	25	25.20	30.287
181071	72	14	1313	0.73	77	23	26.01	50.944
111171	62	14	214	0.73	77	20	26.01	8.364
211271	54	151	2811	4.09	77	18	44.46	151.999
30172	56	174	725	4.54	77	19	45.85	221.414
170172	46	128	649	3.63	77	16	42.83	194.374
70272	46	96	398	2.95	77	16	40.11	103.495
250272	53	54	407	1.94	77	18	35.28	59.431
210372	59	44	254	1.68	77	19	33.58	30.777
30472	63	50	277	1.84	77	20	34.61	37.472
170472	73	27	112	1.18	77	23	30.07	8.305
10572	75	28	87	1.21	77	24	30.34	6.657
230572	79	30	75	1.27	77	25	30.85	6.088
50672	82	20	93	0.95	77	25	28.09	5.195
190672	82	16	203	0.80	77	25	26.90	9.129
30772	86	19	71	0.91	77	26	27.88	3.705
170772	88	20	228	0.95	77	27	28.09	12.353
310772	88	11	96	0.61	77	27	24.72	3.012
140872	89	9	811	0.53	77	27	23.54	20.841
250972	84	14	124	0.73	77	26	26.01	4.829
101072	79	9	99	0.53	77	25	23.54	2.522
61172	68	79	162	2.56	77	22	38.40	34.762

SIMMESPORT

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
11062	75	100	242	2.57	53	20	33.58	65.000
21062	75	98	220	2.54	53	20	33.42	58.000
31062	70	98	214	2.54	53	20	33.42	56.000
41062	69	98	217	2.54	53	20	33.42	57.000
51062	69	96	220	2.51	53	20	33.26	57.000
61062	69	96	228	2.51	53	20	33.26	59.000
71062	70	96	224	2.51	53	20	33.26	58.000
81062	70	98	216	2.54	53	20	33.42	57.000
91062	70	101	210	2.58	53	20	33.73	57.000
101062	69	104	215	2.63	53	20	33.87	60.000
111062	70	108	259	2.69	53	20	34.14	76.000
121062	69	111	236	2.73	52	20	34.40	71.000
131062	69	113	236	2.76	53	20	34.51	69.000
141062	69	113	237	2.76	53	20	34.51	85.000
151062	65	112	203	2.74	53	20	34.53	93.000
161062	65	109	297	2.70	53	20	34.27	87.000
171062	65	108	257	2.69	53	20	34.14	75.000
181062	65	106	237	2.66	53	20	34.00	68.000
191062	65	106	227	2.66	53	20	34.00	65.000
201062	64	113	280	2.76	53	20	34.51	70.000
211062	64	121	378	2.87	53	20	35.08	123.000
221062	65	122	729	2.89	53	20	35.06	240.000
231062	64	122	670	2.89	53	20	35.06	221.000
241062	66	119	471	2.84	53	20	34.98	151.000
251062	66	119	332	2.84	53	20	34.98	107.000
261062	65	121	293	2.87	53	20	35.08	96.000
271062	64	121	253	2.87	53	20	35.08	83.000
281062	64	119	242	2.84	53	20	34.98	78.000
291062	68	116	230	2.80	53	20	34.75	72.000
301062	67	112	219	2.74	53	20	34.53	66.000
311062	65	107	203	2.67	53	20	34.15	59.000
11162	64	102	192	2.60	53	20	33.73	53.000
21162	69	98	190	2.54	53	20	33.42	50.000
31162	69	96	192	2.51	53	20	33.26	50.000
41162	69	96	195	2.51	53	20	33.26	50.000
51162	67	98	203	2.54	53	20	33.42	54.000
61162	65	99	248	2.55	53	20	33.58	66.000
71162	63	98	273	2.54	53	20	33.42	72.000
81162	62	97	258	2.52	53	20	33.42	68.000
91162	61	96	228	2.51	53	20	33.26	59.000
101162	59	96	218	2.51	53	20	33.26	56.000
111162	63	95	228	2.49	53	20	33.26	58.000
121162	64	95	268	2.49	53	20	33.26	69.000
131162	66	95	263	2.49	53	20	33.26	67.000
141162	67	94	249	2.48	53	20	33.10	63.000
151162	61	94	209	2.48	53	20	33.10	53.000
161162	59	92	190	2.44	53	20	33.08	47.000
171162	59	93	177	2.46	53	20	33.09	44.000
181162	56	94	169	2.48	53	20	33.10	43.000
191162	58	96	171	2.51	53	20	33.26	44.000
201162	58	100	178	2.57	53	20	33.58	48.000
211162	55	105	200	2.64	53	20	34.01	57.000
221162	55	110	221	2.72	53	20	34.26	66.000
231162	56	116	251	2.80	53	20	34.75	79.000
241162	56	119	261	2.84	53	20	34.98	84.000
251162	56	122	267	2.89	53	20	35.06	88.000
261162	55	123	267	2.90	53	20	35.18	89.000
271162	55	122	266	2.89	53	20	35.06	88.000
281162	55	122	258	2.89	53	20	35.06	85.000
291162	55	120	248	2.86	53	20	34.96	80.000
301162	55	118	227	2.83	53	20	34.86	72.000
11262	55	117	218	2.82	53	20	34.74	69.000
21262	55	122	230	2.89	53	20	35.06	76.000
31262	55	128	451	2.97	53	20	35.47	156.000
41262	55	132	102	3.02	53	20	35.77	393.000
51262	55	135	53	3.06	53	20	35.95	381.000
61262	55	134	756	3.05	53	20	35.84	274.000
71262	54	134	572	3.05	53	20	35.84	207.000
81262	54	133	431	3.04	53	20	35.74	155.000
91262	56	126	410	2.94	53	20	35.38	139.000
101262	60	119	398	2.84	53	20	34.98	128.000
111262	60	110	396	2.72	53	20	34.26	118.000
121262	60	108	383	2.69	53	20	34.14	112.000
131262	53	105	356	2.64	53	20	34.01	101.000
141262	53	98	302	2.54	53	20	33.42	80.000
151262	53	90	259	2.54	53	20	33.42	68.000
161262	53	97	210	2.52	53	20	33.42	55.000
171262	60	96	198	2.51	53	20	33.26	51.000
181262	60	94	191	2.48	53	20	33.10	49.000
191262	61	93	180	2.46	53	20	33.09	45.000
201262	59	90	174	2.41	53	20	32.90	42.000
211262	58	87	254	2.37	53	20	32.53	60.000
221262	56	83	247	2.30	53	20	32.29	55.000
231262	45	80	231	2.25	53	20	32.04	50.000
241262	45	77	210	2.20	53	20	31.77	44.000
251262	45	77	190	2.20	53	20	31.77	40.000
261262	45	77	170	2.20	53	20	31.77	36.000
271262	45	77	150	2.20	53	20	31.77	31.000
281262	45	80	149	2.25	53	20	32.04	32.000
291262	44	84	151	2.32	53	20	32.31	34.000
301262	44	91	182	2.43	53	20	32.91	45.000
311262	44	98	213	2.54	53	20	33.42	56.000
10163	56	103	215	2.57	53	18	33.04	60.000
20163	42	107	192	2.63	53	20	33.38	55.000
30163	40	112	208	2.71	53	10	33.73	63.000
40163	42	118	235	2.80	53	20	34.18	75.000
50163	44	124	226	2.89	53	20	34.59	76.000
60163	45	126	216	2.92	53	20	34.73	73.000
70163	44	126	221	2.92	53	20	34.73	75.000
80163	44	126	227	2.92	53	20	34.73	77.000
90163	44	123	222	2.88	53	20	34.48	74.000
100163	45	122	213	2.86	53	20	34.46	70.000
110163	48	125	199	2.91	53	20	34.61	67.000
120163	47	126	205	2.92	53	20	34.73	70.000

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
130163	46	127	239	2.94	53	20	34.74	82.000
140163	41	124	242	2.89	53	20	34.59	81.000
150163	39	115	229	2.76	53	10	33.91	71.000
160163	41	107	205	2.63	53	20	33.38	59.000
170163	43	101	194	2.54	53	20	32.86	53.000
180163	45	99	188	2.51	53	20	32.68	51.000
190163	44	99	188	2.51	53	20	32.68	51.000
200163	44	107	218	2.63	53	20	33.38	63.000
210163	43	107	269	2.63	53	20	33.38	78.000
220163	42	105	269	2.60	53	20	33.21	76.000
230163	43	106	265	2.62	53	20	33.25	76.000
240163	40	106	256	2.62	53	10	33.25	73.000
250163	38	108	227	2.65	53	10	33.41	66.000
260163	38	113	214	2.73	53	10	33.76	65.000
270163	39	115	220	2.76	53	10	33.91	68.000
280163	39	115	226	2.76	53	10	33.91	70.000
290163	39	114	216	2.74	53	10	33.88	66.000
300163	39	112	191	2.71	53	10	33.73	58.000
310163	41	111	175	2.70	53	20	33.60	52.000
10263	42	107	204	2.63	53	20	33.38	59.000
20263	44	101	202	2.54	53	20	32.86	55.000
30263	43	94	188	2.42	53	20	32.36	48.000
40263	43	88	173	2.32	53	20	31.85	41.000
50263	40	85	164	2.27	53	10	31.57	38.000
60263	40	82	153	2.22	53	10	31.28	34.000
70263	43	81	148	2.20	53	20	31.22	33.000
80263	44	80	142	2.19	53	20	31.04	31.000
90263	42	80	138	2.19	53	20	31.04	30.000
100263	43	80	129	2.19	53	20	31.04	28.000
110263	44	83	129	2.24	53	20	31.34	29.000
120263	40	86	129	2.29	53	10	31.63	30.000
130263	41	91	129	2.37	53	20	32.11	32.000
140263	41	96	131	2.46	53	20	32.45	34.000
150263	41	101	140	2.54	53	20	32.86	38.000
160263	40	107	155	2.63	53	10	33.38	45.000
170263	40	111	188	2.70	53	10	33.60	56.000
180263	41	115	196	2.76	53	20	33.91	61.000
190263	42	121	208	2.85	53	20	34.34	68.000
200263	41	126	264	2.92	53	20	34.73	90.000
210263	43	126	255	2.92	53	20	34.73	87.000
220263	42	126	221	2.92	53	20	34.73	75.000
230263	40	125	211	2.91	53	10	34.61	71.000
240263	39	124	180	2.89	53	10	34.59	60.000
250263	40	121	174	2.85	53	10	34.34	57.000
260263	40	116	163	2.77	53	10	34.03	51.000
270263	44	108	160	2.65	53	20	33.41	47.000
280263	46	102	162	2.55	53	20	33.00	45.000
10363	47	97	181	2.47	53	20	32.60	48.000
20363	47	96	171	2.46	53	20	32.45	45.000
30363	48	96	167	2.46	53	20	32.45	44.000
40363	48	102	163	2.55	53	20	33.00	45.000
50363	50	105	162	2.60	53	20	33.21	46.000
60363	48	109	171	2.66	53	20	33.54	50.000
70363	48	113	179	2.73	53	20	33.76	55.000
80363	48	116	195	2.77	53	20	34.03	61.000
90363	48	120	220	2.83	53	20	34.32	71.000
100363	49	124	254	2.89	53	20	34.59	85.000
110363	51	130	300	2.98	53	20	34.98	105.000
120363	53	152	410	3.30	53	20	36.27	168.000
130363	53	198	540	3.91	53	20	38.65	289.000
140363	53	235	720	4.36	53	20	40.31	457.000
150363	53	255	875	4.60	53	20	41.07	602.000
160363	53	272	50	4.79	53	20	41.75	771.000
170363	54	288	100	4.97	53	20	42.32	855.000
180363	57	301	148	5.11	53	20	42.79	933.000
190363	53	318	100	5.29	53	20	43.38	944.000
200363	53	333	25	5.45	53	20	43.85	922.000
210363	53	339	865	5.50	53	20	44.03	789.000
220363	51	344	790	5.57	53	20	44.17	734.000
230363	52	341	780	5.54	53	20	44.06	718.000
240363	53	357	775	5.70	53	20	44.59	747.000
250363	55	362	740	5.75	53	20	44.74	723.000
260363	57	369	685	5.82	53	20	44.96	682.000
270363	54	373	660	5.86	53	20	45.08	665.000
280363	55	378	638	5.91	53	20	45.22	651.000
290363	56	383	615	5.96	53	20	45.37	636.000
300363	55	390	570	6.03	53	20	45.56	600.000
310363	57	393	560	6.06	53	20	45.64	594.000
10463	55	397	550	6.10	53	20	45.75	590.000
20463	55	404	535	6.17	53	20	45.94	584.000
30463	60	407	510	6.20	53	20	46.02	560.000
40463	60	410	495	6.23	53	20	46.09	548.000
50463	61	413	475	6.26	53	20	46.17	530.000
60463	58	424	450	6.37	53	20	46.44	515.000
70463	59	424	435	6.37	53	20	46.44	498.000
80463	59	424	420	6.37	53	20	46.44	481.000
90463	59	424	400	6.37	53	20	46.44	458.000
100463	61	424	380	6.37	53	20	46.44	435.000
110463	63	424	365	6.37	53	20	46.44	418.000
120463	60	413	350	6.26	53	20	46.17	390.000
130463	60	410	325	6.23	53	20	46.09	360.000
140463	61	400	305	6.13	53	20	45.83	329.000
150463	61	387	295	6.00	53	20	45.48	308.000
160463	61	379	288	5.92	53	20	45.25	295.000
170463	64	365	278	5.78	53	20	44.84	274.000
180463	65	348	272	5.61	53	20	44.30	256.000
190463	65	323	268	5.35	53	20	43.50	234.000
200463	65	297	265	5.07	53	20	42.62	213.000
210463	68	270	262	4.77	53	20	41.65	191.000
220463	68	239	262	4.41	53	20	40.46	169.000
230463	70	216	288	4.13	53	20	39.51	168.000
240463	68	196	314	3.88	53	20	38.60	166.000
250463	67	177	287	3.64	53	20	37.61	137.000
260463	67	162	283	3.44	53	20	36.81	124.000

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
270463	68	148	279	3.24	53	20	36.08	111.000
280463	67	139	271	3.11	53	20	35.55	102.000
290463	69	132	249	3.01	53	20	35.10	89.000
300463	70	127	245	2.94	53	20	34.74	84.000
10563	68	126	221	2.92	53	20	34.73	75.000
20563	68	127	211	2.94	53	20	34.74	72.000
30563	69	138	222	3.10	53	20	35.45	83.000
40563	69	152	622	3.30	53	20	36.27	255.000
50563	58	161	42	3.42	53	20	36.81	453.000
60563	69	172	881	3.57	53	20	37.39	409.000
70563	69	183	680	3.71	53	20	37.99	336.000
80563	69	195	519	3.87	53	20	38.53	273.000
90563	69	202	456	3.96	53	20	38.84	249.000
100563	69	206	433	4.01	53	20	39.03	241.000
110563	70	204	390	3.98	53	20	38.98	215.000
120563	70	199	347	3.92	53	20	38.72	186.000
130563	71	191	304	3.82	53	20	38.33	157.000
140563	72	181	257	3.69	53	20	37.84	126.000
150563	74	166	226	3.49	53	20	37.06	101.000
160563	73	152	193	3.30	53	20	36.27	79.000
170563	75	139	181	3.11	53	20	35.55	68.000
180563	74	130	195	2.98	53	20	34.98	68.000
190563	74	121	249	2.85	53	20	34.34	81.000
200563	70	113	279	2.73	53	20	33.76	85.000
210563	75	108	299	2.65	53	20	33.41	87.000
220563	76	107	294	2.63	53	20	33.38	85.000
230563	74	107	280	2.63	53	20	33.38	81.000
240563	74	106	246	2.62	53	20	33.25	70.000
250563	76	110	252	2.68	53	20	33.57	75.000
260563	77	117	283	2.79	53	20	34.06	89.000
270563	77	127	304	2.94	53	20	34.74	104.000
280563	77	137	332	3.09	53	20	35.35	123.000
290563	75	144	336	3.19	53	20	35.78	131.000
300563	74	151	365	3.28	53	20	36.27	149.000
310563	75	153	385	3.31	53	20	36.36	159.000
10663	72	153	455	3.31	53	20	36.36	188.000
20663	72	151	514	3.28	53	20	36.27	210.000
30663	76	150	513	3.27	53	20	36.17	208.000
40663	75	151	492	3.28	53	20	36.27	201.000
50663	75	154	451	3.33	53	20	36.37	188.000
60663	75	156	400	3.35	53	20	36.55	168.000
70663	75	156	348	3.35	53	20	36.55	147.000
80663	76	154	292	3.31	53	20	36.37	121.000
90663	78	151	275	3.28	53	20	36.27	112.000
100663	77	146	263	3.21	53	20	35.97	104.000
110663	80	137	256	3.09	53	20	35.35	95.000
120663	79	127	229	2.94	53	20	34.74	79.000
130663	79	117	208	2.79	53	20	34.06	66.000
140663	81	109	208	2.66	53	20	33.54	61.000
150663	81	104	207	2.59	53	20	33.08	58.000
160663	81	101	197	2.54	53	20	32.86	54.000
170663	81	103	198	2.57	53	20	33.04	55.000
180663	82	106	198	2.62	53	20	33.25	57.000
190663	82	111	199	2.70	53	20	33.60	60.000
200663	83	115	190	2.76	53	20	33.91	59.000
210663	80	119	191	2.82	53	20	34.20	61.000
220663	93	121	191	2.85	53	30	34.34	62.000
230663	83	121	177	2.85	53	20	34.34	58.000
240663	82	120	178	2.83	53	20	34.32	58.000
250663	82	119	288	2.82	53	20	34.20	93.000
260663	82	115	282	2.76	53	20	33.91	88.000
270663	82	109	251	2.66	53	20	33.54	74.000
280663	82	102	260	2.55	53	20	33.00	72.000
290663	82	96	279	2.46	53	20	32.45	72.000
300663	82	91	293	2.37	53	20	32.11	72.000
10763	82	86	310	2.29	53	20	31.63	72.000
20763	82	83	283	2.24	53	20	31.34	64.000
30763	82	81	251	2.20	53	20	31.22	55.000
40763	82	79	211	2.17	53	20	30.97	45.000
50763	83	76	201	2.11	53	20	30.76	42.000
60763	82	74	191	2.08	53	20	30.50	38.000
70763	82	72	181	2.04	53	20	30.34	35.000
80763	82	71	171	2.02	53	20	30.26	33.000
90763	83	72	166	2.04	53	20	30.34	33.000
100763	83	73	161	2.06	53	20	30.42	32.000
110763	83	72	161	2.04	53	20	30.34	32.000
120763	83	68	163	1.97	53	20	29.89	30.000
130763	84	66	156	1.93	53	30	29.70	28.000
140763	84	65	149	1.91	53	30	29.61	26.000
150763	85	61	142	1.84	53	30	29.08	24.000
160763	85	59	223	1.80	53	30	28.86	16.000
170763	84	58	243	1.78	53	30	28.75	39.000
180763	84	61	263	1.84	53	30	29.08	44.000
190763	83	63	270	1.88	53	20	29.29	46.000
200763	84	65	278	1.91	53	30	29.61	49.000
210763	83	68	289	1.97	53	20	29.89	54.000
220763	83	72	289	2.04	53	20	30.34	56.000
230763	83	74	289	2.08	53	20	30.50	58.000
240763	83	75	298	2.10	53	20	30.57	60.000
250763	83	75	268	2.10	53	20	30.57	55.000
260763	83	76	217	2.11	53	20	30.76	45.000
270763	83	78	187	2.15	53	20	30.90	39.000
280763	82	79	179	2.17	53	20	30.97	38.000
290763	82	81	197	2.20	53	20	31.22	43.000
300763	82	83	216	2.24	53	20	31.34	48.000
310763	83	85	213	2.27	53	20	31.57	49.000
10863	85	83	201	2.24	53	30	31.34	45.000
20863	85	82	201	2.22	53	30	31.28	45.000
30863	83	70	205	2.15	53	20	30.90	44.000
40863	84	72	184	2.04	53	30	30.34	36.000
50863	84	70	153	2.01	53	30	30.06	29.000
60863	85	68	133	1.97	53	30	29.89	25.000
70863	85	67	123	1.95	53	30	29.80	23.000
80863	85	66	119	1.93	53	30	29.70	21.000

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
90863	85	65	114	1.91	53	30	29.61	20.000
100863	86	65	110	1.91	53	30	29.61	20.000
110863	86	65	110	1.91	53	30	29.61	19.000
120863	85	65	111	1.91	53	30	29.61	19.000
130863	85	65	113	1.91	53	30	29.61	20.000
140863	85	65	111	1.91	53	30	29.61	19.000
150863	85	62	108	1.86	53	30	29.19	18.000
160863	84	58	106	1.78	53	30	28.75	17.000
170863	84	56	103	1.74	53	30	28.51	16.000
180863	84	55	99	1.72	53	30	28.39	15.000
190863	84	56	96	1.74	53	26	28.51	14.000
200863	84	54	91	1.70	53	30	28.26	13.000
210863	83	54	88	1.70	53	20	28.26	13.000
220863	83	54	84	1.70	53	20	28.26	12.000
230863	83	52	82	1.66	53	20	28.00	12.000
240863	84	49	81	1.60	53	30	27.57	11.000
250863	84	46	82	1.53	53	30	27.25	10.000
260863	85	45	83	1.51	53	30	27.08	10.000
270863	85	44	84	1.49	53	30	26.91	10.000
280863	86	44	67	1.49	53	30	26.91	8.000
290863	83	43	50	1.47	53	20	26.74	6.000
300863	85	42	46	1.45	53	30	26.56	5.000
310863	83	42	37	1.45	53	20	26.56	4.000
10963	83	42	44	1.45	53	20	26.56	5.000
20963	83	42	44	1.45	53	20	26.56	5.000
30963	83	42	63	1.45	53	20	26.56	7.000
40963	84	42	74	1.45	53	30	26.56	8.000
50963	82	42	84	1.45	53	20	26.56	10.000
60963	83	42	87	1.45	53	20	26.56	10.000
70963	82	43	102	1.47	53	20	26.74	12.000
80963	82	43	104	1.47	53	20	26.74	12.000
90963	82	43	104	1.47	53	20	26.74	12.000
100963	82	42	99	1.45	53	20	26.56	11.000
110963	82	42	98	1.45	53	20	26.56	11.000
120963	82	42	95	1.45	53	20	26.56	11.000
130963	82	42	83	1.45	53	20	26.56	10.000
140963	82	41	76	1.42	53	20	26.52	9.000
150963	82	39	66	1.38	53	20	26.13	7.000
160963	81	37	59	1.33	53	20	25.87	6.000
170963	81	38	55	1.36	53	20	25.92	6.000
180963	81	41	54	1.42	53	20	26.52	6.000
190963	79	41	55	1.42	53	20	26.52	6.000
200963	78	41	57	1.42	53	20	26.52	6.000
210963	78	41	60	1.42	53	20	26.52	7.000
220963	78	40	61	1.40	53	20	26.33	7.000
230963	76	39	64	1.38	53	20	26.13	7.000
240963	75	37	68	1.33	53	20	25.87	7.000
250963	76	38	71	1.36	53	20	25.92	7.000
260963	76	39	74	1.38	53	20	26.13	8.000
270963	76	34	77	1.26	53	20	25.34	7.000
280963	75	33	80	1.24	53	20	25.10	7.000
290963	73	33	81	1.24	53	20	25.10	7.000
300963	73	31	81	1.19	53	20	24.74	7.000
11063	73	30	74	1.17	53	20	24.47	6.000
21063	73	30	72	1.17	53	20	24.47	6.000
31063	72	30	70	1.17	53	20	24.47	6.000
41063	72	30	70	1.17	53	20	24.47	6.000
51063	71	29	74	1.14	53	20	24.35	6.000
61063	72	28	79	1.12	53	20	24.05	6.000
71063	72	28	80	1.12	53	20	24.05	6.000
81063	72	28	81	1.12	53	20	24.05	6.000
91063	72	28	74	1.12	53	20	24.05	6.000
101063	73	27	67	1.09	53	20	23.92	5.000
111063	72	26	63	1.06	53	20	23.77	5.000
121063	72	27	59	1.09	53	20	23.92	4.000
131063	72	27	57	1.09	53	20	23.92	4.000
141063	72	27	55	1.09	53	20	23.92	4.000
151063	70	26	51	1.06	53	20	23.77	4.000
161063	69	26	49	1.06	53	20	23.77	3.000
171063	69	26	50	1.06	53	20	23.77	4.000
181063	69	26	53	1.06	53	20	23.77	4.000
191063	73	26	66	1.06	53	20	23.77	5.000
201063	73	25	75	1.04	53	20	23.43	5.000
211063	70	25	75	1.04	53	20	23.43	5.000
221063	70	24	79	1.01	53	20	23.26	5.000
231063	69	24	76	1.01	53	20	23.26	5.000
241063	70	25	73	1.04	53	20	23.43	5.000
251063	67	26	68	1.06	53	20	23.77	5.000
261063	66	25	59	1.04	53	20	23.43	4.000
271063	67	25	45	1.04	53	20	23.43	3.000
281063	67	24	36	1.01	53	20	23.26	2.000
291063	69	22	36	0.96	53	20	22.69	2.000
301063	67	22	38	0.96	53	20	22.69	2.000
311063	67	23	41	0.98	53	20	23.08	3.000
11163	65	23	41	0.98	53	20	23.08	3.000
21163	64	20	41	0.90	53	20	22.23	2.000
31163	63	22	43	0.96	53	20	22.69	3.000
41163	63	24	53	1.01	53	20	23.26	3.000
51163	62	25	65	1.04	53	20	23.43	5.000
61163	61	25	58	1.04	53	20	23.43	4.000
71163	61	25	42	1.04	53	20	23.43	3.000
81163	60	25	33	1.04	53	20	23.43	2.000
91163	58	24	34	1.01	53	20	23.26	2.000
101163	58	23	34	0.98	53	20	23.08	2.000
111163	58	22	35	0.96	53	20	22.69	2.000
121163	60	24	38	1.01	53	20	23.26	2.000
131163	57	24	42	1.01	53	20	23.26	3.000
141163	57	24	43	1.01	53	20	23.26	3.000
151163	59	24	45	1.01	53	20	23.26	3.000
161163	58	25	48	1.04	53	20	23.43	3.000
171163	58	27	52	1.09	53	20	23.92	4.000
181163	57	28	55	1.12	53	20	24.05	4.000
191163	56	28	57	1.12	53	20	24.05	4.000
201163	59	29	54	1.14	53	20	24.35	4.000

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
211163	59	29	52	1.14	53	20	24.35	4.000
221163	58	32	48	1.21	53	20	25.01	4.000
231163	55	30	47	1.17	53	20	24.47	4.000
241163	54	27	43	1.09	53	20	23.92	3.000
251163	54	27	39	1.09	53	20	23.92	3.000
261163	54	28	37	1.12	53	20	24.05	3.000
271163	54	28	37	1.12	53	20	24.05	3.000
281163	55	30	43	1.17	53	20	24.47	4.000
291163	58	30	53	1.17	53	20	24.47	4.000
301163	58	31	71	1.19	53	20	24.74	6.000
11263	58	32	70	1.21	53	20	25.01	6.000
21263	54	33	60	1.24	53	20	25.10	5.000
31263	54	34	55	1.26	53	20	25.34	5.000
41263	54	36	58	1.31	53	20	25.65	6.000
51263	54	35	60	1.29	53	20	25.42	6.000
61263	53	33	63	1.24	53	20	25.10	6.000
71263	54	34	67	1.26	53	20	25.34	6.000
81263	53	36	69	1.31	53	20	25.65	7.000
91263	53	36	89	1.31	53	20	25.65	9.000
101263	52	36	98	1.31	53	20	25.65	10.000
111263	49	39	99	1.38	53	20	26.13	11.000
121263	47	41	98	1.42	53	20	26.52	11.000
131263	46	43	93	1.47	53	20	26.74	11.000
141263	45	44	83	1.49	53	20	26.91	10.000
151263	47	44	80	1.49	53	20	26.91	10.000
161263	47	45	82	1.51	53	20	27.08	10.000
171263	48	46	94	1.53	53	20	27.25	12.000
181263	49	46	134	1.53	53	20	27.25	17.000
191263	48	46	124	1.53	53	20	27.25	16.000
201263	50	46	114	1.53	53	20	27.25	14.000
211263	50	46	104	1.53	53	20	27.25	13.000
221263	47	46	98	1.53	53	20	27.25	12.000
231263	48	44	93	1.49	53	20	26.91	11.000
241263	48	43	91	1.47	53	20	26.74	11.000
251263	48	42	88	1.45	53	20	26.56	10.000
261263	47	41	83	1.42	53	20	26.52	9.000
271263	50	39	79	1.38	53	20	26.13	8.000
281263	49	36	77	1.31	53	20	25.65	8.000
291263	48	34	73	1.26	53	20	25.34	7.000
301263	47	33	65	1.24	53	20	25.10	6.000
311263	45	30	55	1.17	53	20	24.47	5.000
10164	40	99	51	2.99	53	10	28.38	4.000
20164	40	29	50	1.40	53	10	20.70	4.000
30164	43	29	51	1.40	53	20	20.70	4.000
40164	40	28	53	1.37	53	10	20.51	4.000
50164	40	28	53	1.37	53	10	20.51	4.000
60164	40	27	54	1.34	53	10	20.32	4.000
70164	42	27	56	1.34	53	20	20.32	4.000
80164	40	31	59	1.46	53	10	21.04	5.000
90164	39	33	63	1.52	53	10	21.36	6.000
100164	44	33	74	1.52	53	20	21.36	7.000
110164	40	37	87	1.63	53	10	22.01	9.000
120164	39	39	108	1.68	53	10	22.35	11.000
130164	42	41	138	1.73	53	20	22.67	15.000
140164	39	41	159	1.73	53	10	22.67	18.000
150164	40	43	179	1.79	53	10	22.86	23.000
160164	39	52	251	2.01	53	10	24.04	35.000
170164	40	64	315	2.28	53	10	25.40	54.000
180164	40	73	395	2.48	53	10	26.21	78.000
190164	39	81	444	2.64	53	10	26.96	97.000
200164	40	83	425	2.68	53	10	27.14	95.000
210164	41	84	361	2.70	53	20	27.22	82.000
220164	39	82	312	2.66	53	10	27.05	69.000
230164	45	80	278	2.62	53	20	26.88	60.000
240164	42	79	252	2.60	53	20	26.79	54.000
250164	46	78	220	2.58	53	20	26.70	46.000
260164	47	77	206	2.56	53	20	26.60	43.000
270164	45	73	200	2.48	53	20	26.21	39.000
280164	47	66	195	2.33	53	20	25.55	35.000
290164	45	62	190	2.24	53	20	25.16	32.000
300164	48	60	185	2.19	53	20	24.99	30.000
310164	48	60	175	2.19	53	20	24.99	28.000
10264	48	61	171	2.22	53	20	25.03	28.000
20264	48	66	182	2.33	53	20	25.55	32.000
30264	48	71	240	2.43	53	20	26.10	46.000
40264	45	75	272	2.52	53	20	26.41	55.000
50264	47	81	278	2.64	53	20	26.96	61.000
60264	47	85	282	2.72	53	20	27.30	65.000
70264	44	87	275	2.76	53	20	27.46	65.000
80264	48	87	262	2.76	53	20	27.46	62.000
90264	45	85	250	2.72	53	20	27.30	57.000
100264	44	82	225	2.66	53	20	27.05	50.000
110264	47	82	210	2.66	53	20	27.05	46.000
120264	44	81	190	2.64	53	20	26.96	42.000
130264	50	76	170	2.54	53	20	26.51	35.000
140264	48	71	160	2.43	53	20	26.10	31.000
150264	50	67	161	2.35	53	20	25.66	29.000
160264	46	64	162	2.28	53	20	25.40	28.000
170264	50	63	167	2.26	53	20	25.28	28.000
180264	45	67	176	2.35	53	20	25.66	32.000
190264	46	70	181	2.41	53	20	25.99	34.000
200264	47	73	186	2.48	53	20	26.21	37.000
210264	47	75	205	2.52	53	20	26.41	42.000
220264	48	76	224	2.54	53	20	26.51	46.000
230264	47	78	239	2.58	53	20	26.70	50.000
240264	44	82	250	2.66	53	20	27.05	55.000
250264	46	89	270	2.80	53	20	27.61	65.000
260264	44	96	285	2.93	53	20	28.19	74.000
270264	47	101	310	3.02	53	20	28.58	85.000
280264	47	104	330	3.08	53	20	28.76	93.000
290264	48	105	370	3.10	53	20	28.82	105.000
10364	49	106	445	3.12	53	20	28.87	127.000
20364	48	116	17	3.29	53	20	29.62	319.000
30364	47	131	225	3.55	53	20	30.54	433.000

SIMMESPORT

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
40364	52	136	216	3.63	53	20	30.85	447.000
50364	52	136	165	3.63	53	20	30.85	428.000
60364	49	131	10	3.55	53	20	30.54	357.000
70364	54	126	960	3.47	53	20	30.20	327.000
80364	52	125	915	3.45	53	20	30.16	309.000
90364	56	126	910	3.47	53	20	30.20	310.000
100364	50	128	970	3.50	53	20	30.35	335.000
110364	55	136	35	3.63	53	20	30.85	380.000
120364	55	161	110	4.03	53	20	32.21	483.000
130364	56	189	200	4.45	53	20	33.57	612.000
140364	56	216	280	4.84	53	20	34.70	757.000
150364	56	252	320	5.32	53	20	36.12	898.000
160364	53	278	380	5.65	53	20	37.06	36.000
170364	57	302	370	5.95	53	20	37.84	117.000
180364	53	324	361	6.21	53	20	38.55	191.000
190364	51	332	340	6.30	53	20	38.82	201.000
200364	49	339	315	6.39	53	20	38.98	204.000
210364	48	340	250	6.40	53	20	39.02	148.000
220364	49	343	160	6.43	53	20	39.13	74.000
230364	53	346	90	6.47	53	20	39.19	18.000
240364	54	352	20	6.54	53	20	39.36	969.000
250364	59	357	946	6.59	53	20	39.54	912.000
260364	52	363	920	6.66	53	20	39.70	902.000
270364	55	365	870	6.68	53	20	39.77	857.000
280364	54	367	845	6.71	53	20	39.79	837.000
290364	55	369	835	6.73	53	20	39.86	832.000
300364	51	370	820	6.74	53	20	39.89	819.000
310364	54	369	815	6.73	53	20	39.86	812.000
10464	54	371	805	6.75	53	20	39.93	806.000
20464	56	372	798	6.76	53	20	39.96	802.000
30464	55	370	745	6.74	53	20	39.89	744.000
40464	56	356	730	6.58	53	20	39.51	702.000
50464	56	349	690	6.50	53	20	39.30	660.000
60464	58	352	635	6.54	53	20	39.36	604.000
70464	63	352	570	6.54	53	20	39.36	542.000
80464	55	347	530	6.48	53	20	39.23	497.000
90464	57	341	510	6.41	53	20	39.06	470.000
100464	56	336	500	6.35	53	20	38.92	454.000
110464	57	334	495	6.33	53	20	38.84	446.000
120464	60	333	500	6.32	53	20	38.80	450.000
130464	62	334	490	6.33	53	20	38.84	442.000
140464	60	331	485	6.29	53	20	38.78	433.000
150464	59	328	458	6.26	53	20	38.66	430.000
160464	59	337	477	6.36	53	20	38.96	434.000
170464	60	326	475	6.23	53	20	38.63	418.000
180464	61	320	467	6.16	53	20	38.44	403.000
190464	64	314	465	6.09	53	20	38.25	394.000
200464	64	307	450	6.01	53	20	38.00	373.000
210464	62	304	446	5.97	53	20	37.93	366.000
220464	64	301	437	5.93	53	20	37.85	355.000
230464	65	299	451	5.91	53	20	37.76	364.000
240464	65	295	471	5.86	53	20	37.63	375.000
250464	66	297	510	5.89	53	20	37.67	409.000
260464	65	309	595	6.03	53	20	38.09	496.000
270464	66	327	760	6.25	53	20	38.62	671.000
280464	67	327	35	6.25	53	20	38.62	914.000
290464	65	323	320	6.20	53	20	38.51	151.000
300464	67	308	650	6.02	53	20	38.04	372.000
10564	70	239	290	5.15	53	20	35.62	478.000
20564	71	199	720	4.60	53	20	33.98	461.000
30564	69	194	640	4.53	53	20	33.75	383.000
40564	68	191	350	4.48	53	20	33.65	212.000
50564	68	185	50	4.39	53	20	33.39	24.000
60564	68	182	845	4.35	53	20	33.23	907.000
70564	68	166	610	4.11	53	20	32.45	722.000
80564	75	156	410	3.76	53	20	31.90	594.000
90564	70	186	200	4.41	53	20	33.41	603.000
100564	71	143	10	3.75	53	20	31.21	390.000
110564	71	128	900	3.50	53	20	30.35	311.000
120564	72	123	800	3.42	53	20	30.00	266.000
130564	69	113	757	3.24	53	20	29.40	231.000
140564	76	106	725	3.12	53	20	28.87	208.000
150564	70	101	684	3.02	53	20	28.58	187.000
160564	71	98	663	2.97	53	20	28.32	175.000
170564	72	97	642	2.95	53	20	28.25	164.000
180564	71	97	621	2.95	53	20	28.25	163.000
190564	77	96	612	2.93	53	20	28.19	159.000
200564	73	94	589	2.89	53	20	28.05	149.000
210564	73	91	569	2.84	53	20	27.76	140.000
220564	78	90	539	2.82	53	20	27.68	131.000
230564	73	85	518	2.72	53	20	27.30	119.000
240564	73	81	498	2.64	53	20	26.96	109.000
250564	75	81	467	2.64	53	20	26.96	102.000
260564	76	81	447	2.64	53	20	26.96	98.000
270564	75	76	417	2.54	53	20	26.51	86.000
280564	84	79	386	2.60	53	30	26.79	82.000
290564	77	81	366	2.64	53	20	26.96	80.000
300564	76	80	346	2.62	53	20	26.88	75.000
310564	76	78	336	2.58	53	20	26.70	71.000
10664	77	67	315	2.35	53	20	25.66	57.000
20664	76	60	304	2.19	53	20	24.99	49.000
30664	74	56	283	2.10	53	20	24.54	43.000
40664	75	53	255	2.03	53	20	24.19	36.000
50664	78	51	226	1.98	53	20	23.98	31.000
60664	75	54	194	2.05	53	20	24.35	28.000
70664	75	45	173	1.84	53	20	23.14	21.000
80664	77	44	158	1.81	53	20	23.06	19.000
90664	79	38	149	1.65	53	20	22.24	15.000
100664	78	34	123	1.54	53	20	21.62	11.000
110664	78	30	104	1.43	53	20	20.88	8.000
120664	84	35	107	1.57	53	30	21.76	10.000
130664	80	38	120	1.65	53	20	22.24	13.000
140664	79	25	146	1.29	53	20	19.89	16.000
150664	80	29	172	1.40	53	20	20.70	13.000

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
160864	84	26	183	1.31	53	30	20.11	13.000
170864	81	27	177	1.34	53	20	20.32	13.000
180864	81	26	166	1.31	53	20	20.11	12.000
190864	85	19	144	1.08	53	30	18.54	7.000
200864	82	18	122	1.04	53	20	18.35	6.000
210864	83	15	112	0.93	53	20	17.50	5.000
220864	83	13	91	0.85	53	20	16.89	3.000
230864	83	12	76	0.81	53	20	16.53	2.000
240864	87	11	71	0.77	53	30	16.12	2.000
250864	83	13	66	0.85	53	20	16.89	2.000
260864	83	17	66	1.01	53	20	17.99	3.000
270864	82	23	88	1.21	53	20	19.55	4.000
280864	82	24	74	1.25	53	20	19.66	5.000
290864	83	37	97	1.63	53	20	22.01	10.000
300864	82	48	330	1.91	53	20	23.58	43.000
10764	84	49	374	1.94	53	30	23.65	49.000
20764	83	47	390	1.89	53	20	23.40	49.000
30764	82	49	390	1.94	53	20	23.65	52.000
40764	82	47	390	1.89	53	20	23.40	49.000
50764	82	46	454	1.86	53	20	23.33	56.000
60764	83	41	510	1.73	53	20	22.67	56.000
70764	83	38	574	1.65	53	20	22.24	59.000
80764	83	40	594	1.71	53	20	22.46	64.000
90764	83	50	605	1.96	53	20	23.81	82.000
100764	84	59	605	2.17	53	30	24.86	96.000
110764	83	51	585	1.98	53	20	23.98	81.000
120764	84	42	546	1.76	53	30	22.77	62.000
130764	84	35	506	1.57	53	30	21.76	48.000
140764	84	30	457	1.43	53	30	20.88	37.000
150764	85	24	414	1.25	53	30	19.66	27.000
160764	83	20	357	1.11	53	20	18.86	19.000
170764	85	20	278	1.11	53	20	18.86	15.000
180764	83	20	248	1.11	53	20	18.86	13.000
190764	83	23	239	1.21	53	20	19.55	15.000
200764	84	26	232	1.31	53	30	20.11	16.000
210764	86	38	236	1.65	53	20	22.24	24.000
220764	83	43	247	1.79	53	20	22.86	29.000
230764	84	45	252	1.84	53	30	23.14	31.000
240764	85	45	263	1.84	53	30	23.14	32.000
250764	83	45	268	1.84	53	20	23.14	33.000
260764	83	43	273	1.79	53	20	22.86	32.000
270764	85	44	282	1.81	53	30	23.06	34.000
280764	85	44	272	1.81	53	30	23.06	32.000
290764	84	41	262	1.73	53	30	22.67	29.000
300764	83	39	241	1.68	53	20	22.35	25.000
310764	87	38	210	1.65	53	30	22.24	22.000
10864	84	36	178	1.60	53	30	21.88	17.000
20864	83	35	162	1.57	53	20	21.76	15.000
30864	86	33	150	1.52	53	30	21.36	13.000
40864	84	31	144	1.46	53	30	21.04	12.000
50864	83	30	138	1.43	53	20	20.88	11.000
60864	84	30	142	1.43	53	30	20.88	12.000
70864	86	32	148	1.49	53	30	21.20	13.000
80864	83	43	150	1.79	53	20	22.86	17.000
90864	84	44	153	1.81	53	30	23.06	18.000
100864	84	43	156	1.79	53	30	22.86	18.000
110864	85	42	162	1.76	53	30	22.77	18.000
120864	85	42	171	1.76	53	30	22.77	19.000
130864	86	44	177	1.81	53	30	23.06	21.000
140864	84	46	176	1.86	53	30	23.33	22.000
150864	84	47	173	1.89	53	30	23.40	22.000
160864	84	47	167	1.89	53	30	23.40	21.000
170864	84	47	160	1.89	53	30	23.40	20.000
180864	84	47	156	1.89	53	30	23.40	20.000
190864	83	47	149	1.89	53	20	23.40	19.000
200864	84	47	141	1.89	53	30	23.40	18.000
210864	83	49	137	1.94	53	20	23.65	18.000
220864	83	51	131	1.98	53	20	23.98	18.000
230864	82	48	129	1.91	53	20	23.58	17.000
240864	83	44	128	1.81	53	20	23.06	15.000
250864	81	42	113	1.76	53	20	22.77	13.000
260864	81	42	107	1.76	53	20	22.77	12.000
270864	81	40	101	1.71	53	20	22.46	11.000
280864	84	38	100	1.65	53	30	22.24	10.000
290864	83	40	98	1.71	53	20	22.46	11.000
300864	80	43	98	1.79	53	20	22.86	11.000
310864	84	46	101	1.86	53	30	23.33	13.000
10964	82	42	109	1.76	53	20	22.77	12.000
20964	84	45	116	1.84	53	30	23.14	14.000
30964	84	49	124	1.94	53	30	23.65	16.000
40964	86	49	145	1.94	53	30	23.65	19.000
50964	84	54	159	2.05	53	30	24.35	23.000
60964	81	54	172	2.05	53	20	24.35	25.000
70964	80	45	186	1.84	53	20	23.14	23.000
80964	84	43	199	1.79	53	30	22.86	23.000
90964	83	46	201	1.86	53	20	23.33	25.000
100964	80	44	183	1.81	53	20	23.06	22.000
110964	84	39	160	1.68	53	30	22.35	17.000
120964	80	40	128	1.71	53	20	22.46	14.000
130964	79	31	113	1.46	53	20	21.04	9.000
140964	81	33	112	1.52	53	20	21.36	10.000
150964	79	36	114	1.60	53	20	21.88	11.000
160964	79	41	129	1.73	53	20	22.67	14.000
170964	77	44	135	1.81	53	20	23.06	16.000
180964	79	45	131	1.84	53	20	23.14	16.000
190964	78	44	133	1.81	53	20	23.06	16.000
200964	78	46	135	1.86	53	20	23.33	17.000
210964	79	47	140	1.89	53	20	23.40	18.000
220964	83	49	144	1.94	53	20	23.65	19.000
230964	83	51	150	1.98	53	20	23.98	21.000
240964	83	51	157	1.98	53	20	23.98	22.000
250964	78	51	166	1.98	53	20	23.98	23.000
260964	83	50	175	1.96	53	20	23.81	24.000
270964	83	49	186	1.94	53	20	23.65	25.000

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVFL F/S 10-3	DEP FT	TSED T/D 1000
280964	78	49	197	1.94	53	20	23.65	26.000
290964	83	51	213	1.98	53	20	23.98	29.000
300964	83	52	235	2.01	53	20	24.04	33.000
11064	72	579	213	8.89	53	20	44.75	33.000
21064	75	63	243	2.26	53	20	25.28	41.000
31064	72	68	380	2.37	53	20	25.77	70.000
41064	72	96	790	2.93	53	20	28.19	205.000
51064	71	116	180	3.29	53	20	29.62	370.000
61064	72	112	313	3.22	53	20	29.35	397.000
71064	72	106	336	3.12	53	20	28.87	382.000
81064	74	97	260	2.95	53	20	28.25	330.000
91064	74	91	155	2.84	53	20	27.76	284.000
101064	74	86	10	2.74	53	20	27.38	235.000
111064	74	82	844	2.66	53	20	27.05	187.000
121064	74	74	737	2.50	53	20	26.31	147.000
131064	74	59	610	2.17	53	20	24.86	97.000
141064	74	71	510	2.43	53	20	26.10	98.000
151064	65	69	420	2.39	53	20	25.88	78.000
161064	74	68	370	2.37	53	20	25.77	68.000
171064	74	67	322	2.35	53	20	25.66	58.000
181064	74	63	274	2.26	53	20	25.28	47.000
191064	65	54	235	2.05	53	20	24.35	34.000
201064	76	47	195	1.89	53	20	23.40	25.000
211064	74	40	170	1.71	53	20	22.46	18.000
221064	73	40	155	1.71	53	20	22.46	17.000
231064	64	43	144	1.79	53	20	22.86	17.000
241064	72	42	136	1.76	53	20	22.77	15.000
251064	72	41	131	1.73	53	20	22.67	15.000
261064	64	40	126	1.71	53	20	22.46	14.000
271064	72	41	120	1.73	53	20	22.67	13.000
281064	72	41	116	1.73	53	20	22.67	13.000
291064	70	42	111	1.76	53	20	22.77	13.000
301064	66	42	104	1.76	53	20	22.77	12.000
311064	68	43	103	1.79	53	20	22.86	12.000
11164	69	43	99	1.79	53	20	22.86	11.000
21164	65	43	95	1.79	53	20	22.86	11.000
31164	65	42	92	1.76	53	20	22.77	10.000
41164	65	41	88	1.73	53	20	22.67	10.000
51164	65	40	84	1.71	53	20	22.46	9.000
61164	66	40	81	1.71	53	20	22.46	9.000
71164	65	40	78	1.71	53	20	22.46	8.000
81164	65	39	77	1.68	53	20	22.35	8.000
91164	64	38	77	1.65	53	20	22.24	8.000
101164	64	39	76	1.68	53	20	22.35	8.000
111164	63	38	77	1.65	53	20	22.24	8.000
121164	63	32	78	1.49	53	20	21.20	7.000
131164	63	28	80	1.37	53	20	20.51	6.000
141164	63	35	81	1.57	53	20	21.76	8.000
151164	61	37	82	1.63	53	20	22.01	8.000
161164	65	38	85	1.65	53	20	22.24	9.000
171164	60	32	90	1.49	53	20	21.20	8.000
181164	60	30	95	1.43	53	20	20.88	8.000
191164	61	42	99	1.76	53	20	22.77	11.000
201164	61	40	105	1.71	53	20	22.46	11.000
211164	61	39	113	1.68	53	20	22.35	12.000
221164	63	38	123	1.65	53	20	22.24	13.000
231164	59	40	136	1.71	53	20	22.46	15.000
241164	58	43	175	1.79	53	20	22.86	20.000
251164	58	55	378	2.08	53	20	24.39	56.000
261164	58	74	930	2.50	53	20	26.31	186.000
271164	58	88	127	2.78	53	20	27.53	268.000
281164	58	108	146	3.15	53	20	29.06	334.000
291164	57	124	124	3.43	53	20	30.12	379.000
301164	55	127	64	3.48	53	20	30.31	365.000
11264	56	108	23	3.15	53	20	29.06	298.000
21264	56	91	971	2.94	53	20	27.76	239.000
31264	55	87	921	2.76	53	20	27.46	216.000
41264	52	105	880	3.10	53	20	28.82	249.000
51264	55	109	850	3.17	53	20	29.12	250.000
61264	55	114	825	3.26	53	20	29.45	254.000
71264	49	120	820	3.36	53	20	29.88	266.000
81264	54	126	805	3.47	53	20	30.20	274.000
91264	54	131	810	3.55	53	20	30.54	287.000
101264	54	137	810	3.65	53	20	30.89	200.000
111264	46	160	805	4.02	53	20	32.12	348.000
121264	52	173	815	4.22	53	20	32.77	381.000
131264	50	176	818	4.26	53	20	32.95	389.000
141264	46	176	825	4.26	53	20	32.95	392.000
151264	48	182	800	4.35	53	20	33.23	393.000
161264	48	185	785	4.39	53	20	33.39	392.000
171264	47	182	768	4.35	53	20	33.23	377.000
181264	45	185	750	4.39	53	20	33.39	375.000
191264	43	185	728	4.39	53	20	33.39	364.000
201264	45	186	687	4.41	53	20	33.41	345.000
211264	40	185	655	4.39	53	10	33.39	327.000
221264	46	181	622	4.34	53	20	33.15	304.000
231264	42	180	595	4.32	53	20	33.14	289.000
241264	41	177	580	4.28	53	20	32.96	277.000
251264	38	173	545	4.22	53	10	32.77	255.000
261264	43	173	520	4.22	53	20	32.77	243.000
271264	38	161	505	4.03	53	14	32.21	219.000
281264	42	153	490	3.91	53	20	31.76	202.000
291264	42	145	475	3.78	53	20	31.34	186.000
301264	41	136	462	3.63	53	15	30.85	169.000
311264	49	125	444	3.45	53	20	30.16	150.000
10165	50	99	413	2.59	53	20	31.29	154.000
20165	50	123	418	2.97	53	20	32.70	139.000
30165	52	117	408	2.88	53	20	32.35	129.000
40165	49	114	397	2.83	53	20	32.21	122.000
50165	52	116	386	2.86	53	20	32.34	121.000
60165	51	120	378	2.93	53	20	32.48	122.000
70165	50	124	378	2.99	53	20	32.71	127.000
80165	51	128	374	3.05	53	20	32.93	129.000
90165	55	130	372	3.08	53	20	33.03	131.000

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
100165	50	133	375	3.13	53	20	33.14	135.000
110165	50	138	398	3.20	53	20	33.42	148.000
120165	51	149	432	3.36	53	20	33.93	174.000
130165	50	167	472	3.62	53	20	34.65	213.000
140165	53	187	522	3.89	53	20	35.44	264.000
150165	48	206	573	4.14	53	20	36.11	319.000
160165	52	221	594	4.33	53	18	36.61	354.000
170165	46	232	615	4.47	53	20	36.94	385.000
180165	49	239	627	4.55	53	20	37.19	405.000
190165	47	241	628	4.58	53	20	37.22	409.000
200165	47	242	630	4.59	53	20	37.26	412.000
210165	49	242	633	4.59	53	20	37.26	414.000
220165	47	242	634	4.59	53	20	37.26	414.000
230165	45	239	610	4.55	53	20	37.19	394.000
240165	45	235	572	4.50	53	20	37.08	363.000
250165	50	228	533	4.42	53	20	36.82	328.000
260165	46	222	500	4.34	53	20	36.66	300.000
270165	48	213	490	4.23	53	20	36.34	282.000
280165	46	204	460	4.11	53	20	36.07	253.000
290165	48	195	450	4.00	53	20	35.70	237.000
300165	47	185	440	3.86	53	20	35.39	220.000
310165	48	176	440	3.74	53	20	35.04	209.000
10265	47	170	441	3.66	53	20	34.79	202.000
20265	45	165	449	3.59	53	20	34.59	200.000
30265	44	163	453	3.56	53	20	34.53	199.000
40265	43	163	456	3.56	53	20	34.53	201.000
50265	43	163	459	3.56	53	20	34.53	202.000
60265	45	166	453	3.60	53	20	34.66	203.000
70265	43	168	456	3.63	53	20	34.73	207.000
80265	42	169	450	3.65	53	20	34.72	205.000
90265	45	171	445	3.67	53	20	34.86	205.000
100265	45	173	450	3.70	53	20	34.92	210.000
110265	45	179	492	3.78	53	20	35.16	238.000
120265	45	190	499	3.93	53	20	35.55	256.000
130265	45	202	942	4.09	53	20	35.96	514.000
140265	45	210	26	4.19	53	20	36.25	582.000
150265	45	223	155	4.35	53	20	36.71	695.000
160265	51	240	280	4.56	53	20	37.24	829.000
170265	45	262	380	4.83	53	20	37.84	976.000
180265	45	281	460	5.05	53	20	38.37	108.000
190265	48	298	493	5.24	53	20	38.83	201.000
200265	49	308	490	5.36	53	20	39.04	239.000
210265	48	318	480	5.47	53	20	39.28	271.000
220265	47	325	430	5.54	53	20	39.49	255.000
230265	48	330	375	5.60	53	20	39.58	225.000
240265	47	334	305	5.64	53	20	39.69	177.000
250265	46	336	220	5.66	53	20	39.75	107.000
260265	50	333	160	5.63	53	20	39.66	43.000
270265	47	327	80	5.56	53	20	39.55	954.000
280265	48	320	5	5.49	53	20	39.35	868.000
10365	47	317	890	5.46	53	20	39.25	762.000
20365	50	310	815	5.38	53	20	39.10	682.000
30365	48	302	750	5.29	53	20	38.90	612.000
40365	48	288	705	5.13	53	20	38.56	548.000
50365	45	275	625	4.98	53	20	38.21	464.000
60365	45	275	592	4.98	53	20	38.21	444.000
70365	46	278	562	5.01	53	20	38.32	422.000
80365	46	285	533	5.10	53	20	38.45	410.000
90365	47	287	516	5.12	53	20	38.52	300.000
100365	48	291	500	5.16	53	20	38.66	393.000
110365	48	295	500	5.21	53	20	38.73	398.000
120365	47	301	499	5.28	53	20	38.87	406.000
130365	47	307	513	5.34	53	20	39.07	425.000
140365	46	312	537	5.40	53	20	39.16	452.000
150365	47	316	548	5.44	53	20	39.29	468.000
160365	48	319	554	5.48	53	20	39.32	477.000
170365	50	320	553	5.49	53	20	39.35	478.000
180365	50	320	551	5.49	53	20	39.35	476.000
190365	47	319	541	5.48	53	20	39.32	466.000
200365	45	315	526	5.43	53	20	39.25	447.000
210365	46	310	506	5.38	53	20	39.10	424.000
220365	47	306	487	5.33	53	20	39.03	402.000
230365	50	299	475	5.25	53	20	38.87	383.000
240365	50	292	471	5.16	53	20	38.63	371.000
250365	49	287	477	5.12	53	20	38.52	370.000
260365	49	282	485	5.06	53	20	38.41	369.000
270365	48	288	502	5.13	53	20	38.56	390.000
280365	48	296	525	5.22	53	20	38.77	420.000
290365	48	306	561	5.33	53	20	39.03	464.000
300365	51	310	670	5.38	53	20	39.10	561.000
310365	47	315	755	5.43	53	20	39.25	642.000
10465	50	322	795	5.51	53	20	39.41	691.000
20465	52	327	815	5.56	53	20	39.55	720.000
30465	51	333	830	5.63	53	20	39.66	746.000
40465	49	340	840	5.71	53	20	39.80	771.000
50465	54	348	840	5.79	53	20	40.01	799.000
60465	55	355	837	5.87	53	20	40.14	802.000
70465	54	361	815	5.93	53	20	40.29	794.000
80465	54	367	800	5.99	53	20	40.43	793.000
90465	55	374	785	6.07	53	20	40.54	793.000
100465	57	381	763	6.14	53	20	40.70	785.000
110465	58	387	755	6.20	53	20	40.84	789.000
120465	59	392	743	6.25	53	20	40.95	786.000
130465	60	397	733	6.30	53	20	41.05	786.000
140465	60	393	757	6.26	53	20	40.97	803.000
150465	62	390	770	6.23	53	20	40.90	811.000
160465	59	398	785	6.31	53	20	41.07	844.000
170465	60	407	795	6.40	53	20	41.26	874.000
180465	61	414	803	6.47	53	20	41.40	898.000
190465	61	422	807	6.55	53	20	41.55	920.000
200465	64	429	809	6.62	53	20	41.68	937.000
210465	62	434	775	6.67	53	20	41.77	904.000
220465	64	438	725	6.71	53	20	41.84	857.000
230465	65	426	650	6.59	53	20	41.63	748.000

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
240465	65	429	550	6.62	53	20	41.68	637.000
250465	65	430	470	6.63	53	20	41.70	546.000
260465	65	427	410	6.60	53	20	41.65	473.000
270465	65	424	401	6.57	53	20	41.59	459.000
280465	65	434	425	6.67	53	20	41.77	498.000
290465	64	424	440	6.57	53	20	41.59	504.000
300465	63	421	480	6.54	53	20	41.53	546.000
10565	63	419	580	6.52	53	20	41.49	656.000
20565	65	416	688	6.49	53	20	41.44	773.000
30565	65	411	790	6.44	53	20	41.34	877.000
40565	65	406	889	6.39	53	20	41.24	975.000
50565	65	397	860	6.30	53	20	41.05	922.000
60565	66	387	835	6.20	53	20	40.84	872.000
70565	67	374	785	6.07	53	20	40.54	793.000
80565	67	363	725	5.95	53	20	40.34	711.000
90565	67	354	673	5.86	53	20	40.11	643.000
100565	65	382	760	6.15	53	21	40.73	815.000
110565	67	337	581	5.67	53	20	39.77	529.000
120565	67	333	538	5.63	53	20	39.66	484.000
130565	67	328	510	5.58	53	20	39.52	452.000
140565	69	322	490	5.51	53	20	39.41	426.000
150565	68	385	0	6.18	53	22	40.79	39.000
160565	65	313	465	5.41	53	20	39.19	393.000
170565	71	309	461	5.37	53	20	39.07	385.000
180565	71	306	454	5.33	53	20	39.03	375.000
190565	72	295	438	5.21	53	20	38.73	349.000
200565	73	284	432	5.08	53	20	38.48	331.000
210565	73	274	415	4.97	53	20	38.18	307.000
220565	73	264	406	4.85	53	20	37.92	289.000
230565	73	255	392	4.74	53	20	37.69	270.000
240565	74	245	384	4.62	53	20	37.39	254.000
250565	75	235	377	4.50	53	20	37.08	239.000
260565	75	225	371	4.38	53	24	36.74	225.000
270565	75	216	363	4.27	53	20	36.43	212.000
280565	76	208	356	4.16	53	20	36.22	200.000
290565	75	201	357	4.07	53	20	35.98	194.000
300565	75	195	362	4.00	53	20	35.70	191.000
310565	75	191	374	3.94	53	20	35.61	193.000
10665	77	187	388	3.89	53	20	35.44	196.000
20665	78	184	411	3.85	53	20	35.33	204.000
30665	78	186	419	3.88	53	20	35.38	210.000
40665	78	190	428	3.93	53	20	35.55	220.000
50665	78	193	409	3.97	53	20	35.66	213.000
60665	79	193	370	3.97	53	20	35.66	193.000
70665	79	191	363	3.94	53	20	35.61	187.000
80665	79	180	364	3.80	53	20	35.15	177.000
90665	78	169	380	3.65	53	20	34.72	173.000
100665	77	168	414	3.63	53	20	34.73	188.000
110665	79	168	492	3.63	53	20	34.73	223.000
120665	79	169	577	3.65	53	20	34.72	263.000
130665	78	173	652	3.70	53	20	34.92	305.000
140665	79	180	686	3.80	53	20	35.15	333.000
150665	78	184	710	3.85	53	20	35.33	353.000
160665	78	189	728	3.92	53	20	35.49	377.000
170665	78	192	745	3.96	53	20	35.60	386.000
180665	79	194	750	3.98	53	20	35.72	393.000
190665	79	200	726	4.06	53	20	35.92	392.000
200665	78	203	693	4.10	53	20	36.02	380.000
210665	78	205	759	4.13	53	20	36.05	420.000
220665	78	200	712	4.06	53	20	35.92	384.000
230665	80	192	665	3.96	53	20	35.60	345.000
240665	78	184	503	3.85	53	20	35.33	250.000
250665	78	177	484	3.75	53	20	35.11	231.000
260665	79	173	462	3.70	53	20	34.92	216.000
270665	81	170	454	3.66	53	20	34.79	208.000
280665	79	166	442	3.60	53	20	34.66	198.000
290665	79	160	438	3.52	53	20	34.38	189.000
300665	79	156	436	3.46	53	20	34.24	184.000
10765	79	151	435	3.39	53	20	34.01	177.000
20765	80	147	433	3.33	53	20	33.85	175.000
30765	83	145	415	3.30	53	20	33.77	162.000
40765	83	142	386	3.26	53	20	33.60	148.000
50765	81	138	367	3.20	53	20	33.42	137.000
60765	81	134	348	3.14	53	20	33.23	126.000
70765	82	129	339	3.07	53	20	32.94	118.000
80765	80	125	330	3.00	53	20	32.81	111.000
90765	81	122	332	2.96	53	20	32.60	109.000
100765	82	123	334	2.97	53	20	32.70	111.000
110765	82	128	343	3.05	53	20	32.93	119.000
120765	82	135	356	3.16	53	20	33.24	130.000
130765	83	141	378	3.25	53	20	33.51	144.000
140765	83	144	440	3.29	53	20	33.69	171.000
150765	82	145	641	3.30	53	20	33.77	251.000
160765	81	128	821	3.05	53	20	32.93	284.000
170765	82	119	774	2.91	53	20	32.47	249.000
180765	83	116	699	2.86	53	20	32.34	219.000
190765	83	116	644	2.86	53	20	32.34	202.000
200765	82	110	583	2.77	53	20	31.95	173.000
210765	83	105	542	2.69	53	20	31.65	154.000
220765	83	105	511	2.69	53	20	31.65	145.000
230765	87	124	481	2.99	53	30	32.71	161.000
240765	83	126	460	3.02	53	20	32.82	156.000
250765	84	129	429	3.07	53	30	32.94	149.000
260765	83	122	408	2.96	53	20	32.60	134.000
270765	84	119	401	2.91	53	30	32.47	129.000
280765	84	115	404	2.85	53	30	32.23	125.000
290765	84	111	434	2.78	53	30	32.06	130.000
300765	84	109	480	2.75	53	30	31.93	141.000
310765	84	112	493	2.80	53	30	32.08	149.000
10865	83	119	508	2.91	53	20	32.47	163.000
20865	82	126	514	3.02	53	20	32.82	175.000
30865	80	131	525	3.10	53	20	33.04	186.000
40865	83	133	531	3.13	53	20	33.14	191.000
50865	84	128	547	3.05	53	20	32.93	189.000

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
60865	83	120	559	2.93	53	20	32.48	181.000
70865	84	111	559	2.78	53	30	32.06	168.000
80865	83	100	547	2.60	53	20	31.42	148.000
90865	83	90	534	2.43	53	20	30.79	130.000
100865	80	82	530	2.29	53	20	30.22	117.000
110865	82	77	505	2.20	53	20	29.85	105.000
120865	82	75	490	2.17	53	20	29.62	99.000
130865	80	73	491	2.13	53	20	29.49	97.000
140865	81	71	472	2.09	53	20	29.36	90.000
150865	81	69	455	2.05	53	20	29.23	84.000
160865	81	67	412	2.01	53	20	29.08	75.000
170865	80	66	380	2.00	53	20	28.88	68.000
180865	80	65	345	1.98	53	20	28.80	61.000
190865	81	66	320	2.00	53	20	28.88	57.000
200865	81	67	290	2.01	53	20	29.08	52.000
210865	82	65	240	1.98	53	20	28.80	42.000
220865	83	64	215	1.96	53	20	28.72	37.000
230865	83	63	192	1.94	53	20	28.64	33.000
240865	83	62	175	1.92	53	20	28.55	29.000
250865	83	61	143	1.90	53	20	28.46	24.000
260865	83	61	120	1.90	53	20	28.46	20.000
270865	83	60	98	1.88	53	20	28.37	16.000
280865	83	59	67	1.86	53	20	28.27	11.000
290865	82	58	64	1.84	53	20	28.18	10.000
300865	83	58	60	1.84	53	20	28.18	9.000
310865	82	58	57	1.84	53	20	28.18	9.000
10965	83	58	56	1.84	53	20	28.18	9.000
20965	83	58	54	1.84	53	20	28.18	8.000
30965	83	58	54	1.84	53	20	28.18	8.000
40965	83	60	56	1.88	53	20	28.37	9.000
50965	82	62	58	1.92	53	20	28.55	10.000
60965	83	64	62	1.96	53	20	28.72	11.000
70965	83	66	65	2.00	53	20	28.88	12.000
80965	82	69	71	2.05	53	20	29.23	13.000
90965	79	74	78	2.15	53	20	29.56	16.000
100965	82	86	227	2.36	53	20	30.52	53.000
110965	80	99	242	2.59	53	20	31.29	65.000
120965	80	106	248	2.70	53	20	31.77	71.000
130965	79	107	244	2.72	53	20	31.79	70.000
140965	79	107	225	2.72	53	20	31.79	65.000
150965	79	109	196	2.75	53	20	31.93	58.000
160965	79	113	192	2.82	53	20	32.10	59.000
170965	79	118	198	2.90	53	20	32.36	63.000
180965	80	125	219	3.00	53	20	32.81	74.000
190965	80	133	250	3.13	53	20	33.14	90.000
200965	80	141	272	3.25	53	20	33.51	104.000
210965	79	147	294	3.33	53	20	33.65	117.000
220965	78	151	306	3.39	53	20	34.01	125.000
230965	78	155	320	3.45	53	20	34.16	134.000
240965	78	157	334	3.48	53	20	34.24	142.000
250965	78	154	358	3.43	53	20	34.17	149.000
260965	77	152	394	3.41	53	24	34.01	162.000
270965	77	151	455	3.39	53	20	34.01	186.000
280965	75	152	550	3.41	53	20	34.01	226.000
290965	74	155	606	3.45	53	20	34.16	251.000
300965	75	163	640	3.56	53	20	34.53	282.000
11065	76	175	670	3.73	53	20	34.97	317.000
21065	75	185	66	3.86	53	20	35.39	33.000
31065	75	194	110	3.98	53	20	35.72	58.000
41065	75	200	715	4.06	53	20	35.92	386.000
51065	69	203	711	4.10	53	20	36.02	390.000
61065	67	204	670	4.11	53	20	36.07	369.000
71065	67	207	529	4.15	53	20	36.16	295.000
81065	68	208	407	4.16	53	20	36.22	229.000
91065	66	206	89	4.14	53	20	36.11	50.000
101065	65	209	103	4.18	53	20	36.20	58.000
111065	65	195	440	4.00	53	20	35.70	232.000
121065	65	185	733	3.86	53	20	35.39	366.000
131065	65	176	942	3.74	53	20	35.04	448.000
141065	65	170	99	3.66	53	20	34.79	504.000
151065	66	164	127	3.58	53	20	34.52	499.000
161065	66	158	99	3.49	53	20	34.31	469.000
171065	65	152	38	3.41	53	20	34.01	456.000
181065	65	148	905	3.35	53	20	33.85	362.000
191065	65	143	710	3.27	53	20	33.69	274.000
201065	64	137	567	3.19	53	20	33.33	210.000
211065	65	131	460	3.10	53	20	33.04	163.000
221065	64	125	383	3.00	53	20	32.81	129.000
231065	64	120	312	2.93	53	20	32.48	101.000
241065	65	116	271	2.86	53	20	32.34	85.000
251065	63	113	240	2.82	53	20	32.10	73.000
261065	65	111	215	2.78	53	20	32.06	64.000
271065	63	110	205	2.77	53	20	31.95	61.000
281065	67	110	194	2.77	53	20	31.95	58.000
291065	67	110	189	2.77	53	20	31.95	56.000
301065	65	110	194	2.77	53	20	31.95	58.000
311065	64	110	189	2.77	53	20	31.95	56.000
11165	64	109	189	2.75	53	20	31.93	55.000
21165	64	105	193	2.69	53	20	31.65	55.000
31165	64	101	193	2.62	53	20	31.45	53.000
41165	64	97	188	2.55	53	20	31.23	49.000
51165	64	93	183	2.49	53	20	30.89	46.000
61165	64	90	178	2.43	53	20	30.79	43.000
71165	64	87	173	2.38	53	20	30.56	41.000
81165	64	82	163	2.29	53	20	30.22	36.000
91165	64	81	153	2.27	53	20	30.17	33.000
101165	64	80	143	2.26	53	20	30.01	31.000
111165	63	79	138	2.24	53	20	29.96	29.000
121165	65	79	133	2.24	53	20	29.96	28.000
131165	64	78	128	2.22	53	20	29.90	27.000
141165	67	78	124	2.22	53	20	29.90	26.000
151165	65	77	118	2.20	53	20	29.85	25.000
161165	67	77	119	2.20	53	20	29.85	25.000
171165	67	77	119	2.20	53	20	29.85	25.000

SIMMESPORT

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
181165	66	76	114	2.18	53	20	29.79	23.000
191165	68	77	113	2.20	53	20	29.85	23.000
201165	68	76	104	2.18	53	20	29.79	21.000
211165	61	76	94	2.18	53	20	29.79	19.000
221165	55	76	89	2.18	53	20	29.79	18.000
231165	68	76	88	2.18	53	20	29.79	18.000
241165	65	77	89	2.20	53	20	29.85	19.000
251165	60	79	91	2.24	53	20	29.96	19.000
261165	57	81	96	2.27	53	20	30.17	21.000
271165	57	82	100	2.29	53	20	30.22	22.000
281165	57	83	107	2.31	53	20	30.27	24.000
291165	56	83	113	2.31	53	20	30.27	25.000
301165	53	82	118	2.29	53	20	30.22	26.000
11265	53	82	124	2.29	53	20	30.22	27.000
21265	49	81	125	2.27	53	20	30.17	27.000
31265	53	79	128	2.24	53	20	29.96	27.000
41265	54	78	132	2.22	53	20	29.90	28.000
51265	53	77	134	2.20	53	20	29.85	28.000
61265	50	77	135	2.20	53	20	29.85	28.000
71265	50	80	137	2.26	53	20	30.01	30.000
81265	52	85	133	2.35	53	20	30.36	31.000
91265	51	87	134	2.38	53	20	30.56	31.000
101265	50	89	131	2.42	53	20	30.64	31.000
111265	50	88	125	2.40	53	20	30.60	30.000
121265	50	87	120	2.38	53	20	30.56	28.000
131265	50	84	117	2.33	53	20	30.32	27.000
141265	49	82	114	2.29	53	20	30.22	25.000
151265	50	80	115	2.26	53	20	30.01	25.000
161265	49	80	117	2.26	53	20	30.01	25.000
171265	50	79	145	2.24	53	20	29.96	31.000
181265	47	81	174	2.27	53	20	30.17	38.000
191265	47	89	188	2.42	53	20	30.64	45.000
201265	50	97	202	2.55	53	20	31.23	53.000
211265	49	97	207	2.55	53	20	31.23	54.000
221265	50	90	207	2.43	53	20	30.79	50.000
231265	49	88	201	2.40	53	20	30.60	48.000
241265	50	86	196	2.36	53	20	30.52	46.000
251265	51	84	186	2.33	53	20	30.32	42.000
261265	55	81	152	2.27	53	20	30.17	33.000
271265	47	79	137	2.24	53	20	29.96	29.000
281265	47	77	128	2.20	53	20	29.85	27.000
291265	50	75	123	2.17	53	20	29.62	25.000
301265	47	73	124	2.13	53	20	29.49	24.000
311265	50	71	130	2.09	53	20	29.36	25.000
10166	50	99	137	3.16	53	20	28.36	23.000
20166	50	72	149	2.65	53	20	25.96	29.000
30166	57	82	165	2.85	53	20	26.89	37.000
40166	50	88	180	2.96	53	20	27.46	43.000
50166	51	98	210	3.14	53	20	28.30	56.000
60166	51	110	260	3.35	53	20	29.20	77.000
70166	50	120	327	3.52	53	20	29.88	6.000
80166	51	139	370	3.81	53	20	31.19	39.000
90166	47	155	436	4.05	53	20	32.12	82.000
100166	49	168	494	4.23	53	20	32.88	24.000
110166	49	186	525	4.48	53	20	33.79	64.000
120166	49	202	550	4.69	53	20	34.57	0.0
130166	50	213	570	4.83	53	20	35.08	28.000
140166	49	220	590	4.91	53	20	35.45	56.000
150166	49	229	590	5.02	53	20	35.84	65.000
160166	49	232	585	5.06	53	20	35.95	66.000
170166	46	230	580	5.04	53	20	35.83	60.000
180166	44	224	570	4.96	53	20	35.62	45.000
190166	46	217	565	4.88	53	20	35.26	31.000
200166	40	209	535	4.78	53	10	34.89	2.000
210166	38	200	505	4.66	53	10	34.50	73.000
220166	47	148	485	3.95	53	20	31.69	94.000
230166	42	119	470	3.50	53	20	29.84	51.000
240166	43	109	450	3.33	53	20	29.16	32.000
250166	48	98	430	3.14	53	20	28.30	14.000
260166	39	96	410	3.11	53	10	28.09	6.000
270166	38	99	390	3.16	53	10	28.36	4.000
280166	40	73	370	2.67	53	10	26.06	73.000
290166	40	105	355	3.27	53	10	28.78	1.000
300166	38	108	350	3.32	53	10	29.02	2.000
310166	39	89	350	2.98	53	10	27.53	84.000
10266	43	90	345	3.00	53	20	27.60	84.000
20266	39	99	348	3.16	53	10	28.36	93.000
30266	39	89	348	2.98	53	10	27.53	84.000
40266	48	77	347	2.75	53	20	26.45	72.000
50266	38	71	346	2.63	53	10	25.85	66.000
60266	40	75	344	2.71	53	10	26.26	70.000
70266	42	74	333	2.69	53	20	26.16	67.000
80266	43	69	345	2.59	53	20	25.64	64.000
90266	39	70	365	2.61	53	10	25.75	69.000
100266	43	95	530	3.09	53	20	28.03	36.000
110266	44	159	720	4.11	53	20	32.33	9.000
120266	46	167	800	4.22	53	20	32.80	61.000
130266	46	180	860	4.40	53	20	33.48	18.000
140266	48	185	935	4.46	53	20	33.79	67.000
150266	48	193	50	4.57	53	20	34.16	47.000
160266	49	192	150	4.56	53	20	34.08	96.000
170266	49	187	555	4.49	53	20	33.86	85.000
180266	49	184	21	4.45	53	20	33.71	4.000
190266	47	179	905	4.38	53	20	33.48	21.000
200266	46	175	750	4.33	53	20	33.23	27.000
210266	47	169	645	4.25	53	20	32.89	51.000
220266	45	163	440	4.16	53	20	32.61	34.000
230266	41	160	235	4.12	53	20	32.42	34.000
240266	44	156	130	4.06	53	20	32.21	76.000
250266	43	152	65	4.01	53	20	31.92	37.000
260266	43	149	20	3.96	53	20	31.79	10.000
270266	43	145	980	3.90	53	20	31.56	84.000
10366	44	136	921	3.77	53	20	30.95	38.000
20366	44	129	860	3.66	53	20	30.51	0.0

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
30366	43	122	747	3.55	53	20	30.03	46.000
40366	44	119	675	3.50	53	16	29.84	217.000
50366	44	110	583	3.35	53	20	29.20	73.000
60366	45	105	531	3.27	53	20	28.78	51.000
70366	48	102	479	3.21	53	20	28.62	32.000
80366	47	103	425	3.23	53	20	28.68	18.000
90366	46	100	411	3.18	53	20	28.42	11.000
100366	46	101	385	3.20	53	20	28.48	5.000
110366	47	90	360	3.00	53	20	27.60	87.000
120366	47	84	332	2.89	53	20	27.05	75.000
130366	46	76	316	2.73	53	20	26.36	65.000
140366	48	64	317	2.48	53	20	25.15	55.000
150366	48	66	330	2.53	53	20	25.29	59.000
160366	48	91	390	3.02	53	20	27.67	96.000
170366	48	72	468	2.65	53	20	25.96	91.000
180366	51	182	525	4.42	53	20	33.64	58.000
190366	52	198	560	4.64	53	20	34.36	99.000
200366	51	199	630	4.65	53	20	34.43	39.000
210366	54	199	710	4.65	53	20	34.43	81.000
220366	52	200	685	4.66	53	20	34.50	70.000
230366	55	194	650	4.58	53	20	34.23	40.000
240366	47	189	610	4.52	53	20	33.94	11.000
250366	54	185	550	4.46	53	20	33.79	75.000
260366	55	181	470	4.41	53	20	33.56	30.000
270366	49	177	405	4.36	53	20	33.32	94.000
280366	57	172	270	4.29	53	20	33.06	25.000
290366	57	160	195	4.12	53	20	32.42	84.000
300366	56	149	164	3.96	53	20	31.79	66.000
310366	56	137	152	3.78	53	20	31.06	56.000
10466	56	127	149	3.63	53	20	30.37	51.000
20466	57	132	152	3.71	53	20	30.68	54.000
30466	59	137	178	3.78	53	20	31.06	65.000
40466	58	143	235	3.87	53	20	31.44	91.000
50466	56	138	385	3.80	53	20	31.08	43.000
60466	55	135	470	3.75	53	20	30.93	71.000
70466	57	131	520	3.69	53	20	30.66	84.000
80466	57	126	540	3.61	53	20	30.34	84.000
90466	57	120	565	3.52	53	20	29.88	83.000
100466	56	115	580	3.43	53	20	29.60	80.000
110466	58	111	575	3.37	53	20	29.25	172.000
120466	57	108	560	3.32	53	20	29.02	163.000
130466	53	105	545	3.27	53	20	28.78	155.000
140466	59	113	525	3.40	53	20	29.42	160.000
150466	59	121	511	3.53	53	20	30.00	167.000
160466	59	121	510	3.53	53	20	30.00	167.000
170466	63	121	515	3.53	53	20	30.00	168.000
180466	60	124	530	3.58	53	20	30.19	177.000
190466	60	128	565	3.64	53	20	30.48	195.000
200466	59	136	625	3.77	53	20	30.95	230.000
210466	60	159	860	4.11	53	20	32.33	309.000
220466	60	182	868	4.42	53	20	33.64	918.000
230466	60	190	650	4.53	53	20	34.01	846.000
240466	60	197	150	4.62	53	20	34.37	612.000
250466	59	204	710	4.71	53	20	34.70	391.000
260466	61	224	567	4.96	53	20	35.62	343.000
270466	63	245	539	5.21	53	20	36.53	357.000
280466	65	267	570	5.47	53	20	37.37	411.000
290466	64	294	920	5.77	53	20	38.38	750.000
300466	64	309	450	5.93	53	20	38.92	210.000
10566	64	321	590	6.05	53	20	39.38	378.000
20566	65	347	690	6.32	53	20	40.22	583.000
30566	64	335	780	6.20	53	20	39.81	610.000
40566	65	341	800	6.26	53	20	40.02	657.000
50566	64	349	750	6.34	53	20	40.28	649.000
60566	65	357	710	6.42	53	20	40.54	648.000
70566	65	365	850	6.50	53	20	40.78	823.000
80566	66	372	950	6.57	53	20	40.99	959.000
90566	66	379	967	6.64	53	20	41.19	13.000
110566	65	387	600	6.71	53	20	41.47	672.000
120566	66	392	410	6.76	53	20	41.61	492.000
130566	67	391	270	6.75	53	20	41.58	341.000
140566	67	388	120	6.72	53	20	41.50	173.000
160566	69	381	920	6.65	53	20	41.31	946.000
170566	69	378	867	6.63	53	20	41.16	885.000
180566	69	378	815	6.63	53	20	41.16	832.000
190566	69	377	760	6.62	53	20	41.13	774.000
200566	69	376	735	6.61	53	20	41.10	746.000
210566	69	376	720	6.61	53	20	41.10	731.000
220566	68	372	705	6.57	53	20	40.99	708.000
230566	69	368	689	6.53	53	20	40.87	685.000
240566	70	354	635	6.39	53	20	40.44	607.000
250566	70	340	575	6.25	53	20	39.98	528.000
260566	69	341	535	6.26	53	20	40.02	493.000
270566	70	344	505	6.29	53	20	40.12	469.000
280566	70	346	480	6.31	53	20	40.18	448.000
290566	70	348	455	6.33	53	20	40.25	428.000
300566	70	349	440	6.34	53	20	40.28	415.000
310566	70	348	470	6.33	53	20	40.25	442.000
10666	70	345	492	6.30	53	20	40.15	458.000
20666	70	333	445	6.18	53	20	39.74	400.000
30666	71	318	400	6.02	53	20	39.27	343.000
40666	75	303	390	5.86	53	20	38.75	319.000
50666	74	302	380	5.85	53	20	38.71	310.000
60666	75	269	375	5.49	53	20	37.47	272.000
70666	75	253	366	5.31	53	20	36.81	250.000
80666	75	236	355	5.11	53	20	36.10	213.000
90666	76	219	305	4.90	53	20	35.38	180.000
100666	76	204	236	4.71	53	20	34.70	130.000
110666	77	194	238	4.58	53	20	34.23	125.000
120666	77	185	258	4.46	53	20	33.79	129.000
130666	78	177	238	4.36	53	20	33.32	142.000
140666	77	170	299	4.26	53	20	32.97	137.000
150666	78	164	290	4.18	53	20	32.62	128.000
160666	78	161	276	4.13	53	20	32.51	120.000

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
170666	78	159	262	4.11	53	20	32.33	112.000
180666	78	159	244	4.11	53	20	32.33	105.000
190666	78	159	226	4.11	53	20	32.33	97.000
200666	79	160	208	4.12	53	20	32.42	90.000
210666	78	158	200	4.09	53	20	32.32	85.000
220666	78	155	207	4.05	53	20	32.12	87.000
230666	78	154	224	4.03	53	20	32.11	93.000
240666	78	163	315	4.16	53	20	32.61	139.000
250666	79	155	370	4.05	53	20	32.12	155.000
260666	79	156	440	4.06	53	20	32.21	185.000
270666	78	156	550	4.06	53	20	32.21	232.000
280666	78	150	635	3.98	53	20	31.81	257.000
290666	78	142	713	3.86	53	20	31.34	273.000
300666	79	135	690	3.75	53	20	30.93	252.000
10766	83	127	655	3.63	53	20	30.37	225.000
20766	83	117	615	3.47	53	20	29.68	194.000
30766	83	109	560	3.33	53	20	29.16	165.000
40766	85	102	505	3.21	53	30	28.62	139.000
50766	82	97	445	3.13	53	20	28.15	117.000
60766	81	93	390	3.05	53	20	27.90	98.000
70766	85	90	350	3.00	53	30	27.60	85.000
80766	86	88	310	2.96	53	30	27.46	74.000
90766	81	85	280	2.91	53	20	27.13	64.000
100766	84	85	262	2.91	53	30	27.13	60.000
110766	85	86	235	2.92	53	30	27.31	55.000
120766	85	87	220	2.94	53	30	27.38	52.000
130766	85	87	209	2.94	53	30	27.38	49.000
140766	85	85	174	2.91	53	30	27.13	40.000
150766	86	83	169	2.87	53	30	26.97	38.000
160766	86	79	175	2.79	53	30	26.63	37.000
170766	86	76	240	2.73	53	30	26.36	49.000
180766	86	74	300	2.69	53	30	26.16	60.000
190766	86	74	298	2.69	53	30	26.16	60.000
200766	80	74	265	2.69	53	20	26.16	53.000
210766	86	76	252	2.73	53	30	26.36	52.000
220766	86	78	231	2.77	53	30	26.54	49.000
230766	86	81	211	2.83	53	30	26.81	46.000
240766	86	82	189	2.85	53	30	26.89	42.000
250766	86	83	74	2.87	53	30	26.97	17.000
260766	86	82	59	2.85	53	30	26.89	13.000
270766	87	81	49	2.83	53	30	26.81	11.000
280766	87	77	45	2.75	53	30	26.45	9.000
290766	86	72	35	2.65	53	30	25.96	7.000
300766	87	69	31	2.59	53	30	25.64	6.000
310766	87	67	27	2.55	53	30	25.41	5.000
10866	87	64	124	2.48	53	30	25.15	21.000
20866	86	63	125	2.46	53	30	25.03	21.000
30866	85	64	131	2.48	53	30	25.15	23.000
40866	84	64	137	2.48	53	30	25.15	24.000
50866	84	65	146	2.51	53	30	25.17	26.000
60866	85	66	143	2.53	53	30	25.29	25.000
70866	84	67	138	2.55	53	30	25.41	25.000
80866	85	67	132	2.55	53	30	25.41	24.000
90866	84	66	127	2.53	53	30	25.29	23.000
100866	84	67	126	2.55	53	30	25.41	23.000
110866	84	65	120	2.51	53	30	25.17	21.000
120866	84	65	119	2.51	53	30	25.17	21.000
130866	84	63	117	2.46	53	30	25.03	20.000
140866	83	60	114	2.40	53	20	24.63	18.000
150866	83	57	118	2.33	53	20	24.31	18.000
160866	83	57	123	2.33	53	20	24.31	19.000
170866	82	57	128	2.33	53	20	24.31	20.000
180866	82	60	133	2.40	53	20	24.63	22.000
190866	82	64	141	2.48	53	20	25.15	24.000
200866	83	70	154	2.61	53	20	25.75	29.000
210866	83	74	159	2.69	53	20	26.16	32.000
220866	83	80	165	2.81	53	20	26.72	36.000
230866	83	82	166	2.85	53	20	26.89	37.000
240866	82	82	173	2.85	53	20	26.89	38.000
250866	81	81	174	2.83	53	20	26.81	38.000
260866	82	80	170	2.81	53	20	26.72	37.000
270866	81	79	171	2.79	53	20	26.63	36.000
280866	82	79	167	2.79	53	20	26.63	36.000
290866	81	78	162	2.77	53	20	26.54	34.000
300866	81	79	162	2.77	53	20	26.54	34.000
310866	81	79	157	2.79	53	20	26.63	33.000
10966	81	78	152	2.77	53	20	26.54	32.000
20966	81	76	137	2.73	53	20	26.36	28.000
30966	83	73	131	2.67	53	20	26.06	26.000
40966	83	69	125	2.59	53	20	25.64	23.000
50966	82	65	130	2.51	53	20	25.17	23.000
60966	82	62	129	2.44	53	20	24.90	22.000
70966	82	60	129	2.40	53	20	24.63	21.000
80966	82	59	135	2.37	53	20	24.60	21.000
90966	83	59	135	2.37	53	20	24.60	22.000
100966	83	57	137	2.33	53	20	24.31	21.000
110966	82	57	135	2.33	53	20	24.31	21.000
120966	81	56	140	2.31	53	20	24.17	21.000
130966	80	56	143	2.31	53	20	24.17	22.000
140966	80	57	140	2.33	53	20	24.31	22.000
150966	79	57	137	2.33	53	20	24.31	21.000
160966	79	56	139	2.31	53	20	24.17	21.000
170966	78	56	134	2.31	53	20	24.17	20.000
180966	78	55	131	2.28	53	20	24.12	19.000
190966	77	56	127	2.31	53	20	24.17	19.000
200966	77	54	122	2.26	53	20	23.97	18.000
210966	76	51	117	2.19	53	20	23.58	16.000
220966	74	50	114	2.17	53	20	23.41	15.000
230966	76	50	111	2.17	53	20	23.41	15.000
240966	75	50	108	2.17	53	20	23.41	15.000
250966	75	50	105	2.17	53	20	23.41	14.000
260966	75	50	103	2.17	53	20	23.41	14.000
270966	75	52	104	2.21	53	20	23.75	15.000
280966	75	53	104	2.24	53	20	23.81	15.000

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
290966	75	54	104	2.26	53	20	23.97	15.000
300966	74	55	109	2.28	53	20	24.12	16.000
11066	74	54	108	2.26	53	20	23.97	16.000
21066	73	53	106	2.24	53	20	23.81	15.000
31066	72	53	104	2.24	53	20	23.81	15.000
41066	71	52	101	2.21	53	20	23.75	14.000
51066	71	49	100	2.14	53	20	23.35	13.000
61066	69	47	101	2.09	53	20	23.09	13.000
71066	69	48	104	2.12	53	20	23.16	13.000
81066	68	51	108	2.19	53	20	23.58	15.000
91066	68	53	114	2.24	53	20	23.81	16.000
101066	69	52	122	2.21	53	20	23.75	17.000
111066	69	53	128	2.24	53	20	23.81	18.000
121066	69	58	137	2.35	53	20	24.46	21.000
131066	69	63	146	2.46	53	20	25.03	25.000
141066	69	65	151	2.51	53	20	25.17	27.000
151066	69	60	147	2.40	53	20	24.63	24.000
161066	69	54	142	2.26	53	20	23.97	21.000
171066	68	50	135	2.17	53	20	23.41	18.000
181066	68	50	119	2.17	53	20	23.41	16.000
191066	68	48	113	2.12	53	20	23.16	15.000
201066	68	51	114	2.19	53	20	23.58	16.000
211066	67	53	114	2.24	53	20	23.81	16.000
221066	65	55	115	2.28	53	20	24.12	17.000
231066	65	56	118	2.31	53	20	24.17	18.000
241066	65	56	120	2.31	53	20	24.17	18.000
251066	63	56	124	2.31	53	20	24.17	19.000
261066	63	56	126	2.31	53	20	24.17	19.000
271066	65	57	127	2.33	53	20	24.31	20.000
281066	63	58	125	2.35	53	20	24.46	20.000
291066	63	60	124	2.40	53	20	24.63	20.000
301066	62	62	119	2.44	53	20	24.90	20.000
311066	62	64	116	2.48	53	20	25.15	20.000
11166	63	62	111	2.44	53	20	24.90	19.000
21166	61	56	106	2.31	53	20	24.17	16.000
31166	65	53	102	2.24	53	20	23.81	15.000
41166	61	51	102	2.19	53	20	23.58	14.000
51166	61	48	103	2.12	53	20	23.16	13.000
61166	61	47	106	2.09	53	20	23.09	13.000
71166	62	44	111	2.02	53	20	22.62	13.000
81166	62	43	114	1.99	53	20	22.52	13.000
91166	62	45	120	2.04	53	20	22.82	15.000
101166	62	47	131	2.09	53	20	23.09	17.000
111166	64	50	137	2.17	53	20	23.41	18.000
121166	64	59	147	2.37	53	20	24.60	23.000
131166	63	58	163	2.35	53	20	24.46	26.000
141166	62	58	178	2.35	53	20	24.46	28.000
151166	60	60	201	2.40	53	20	24.63	33.000
161166	63	63	214	2.46	53	20	25.03	36.000
171166	63	67	224	2.55	53	20	25.41	41.000
181166	63	69	230	2.59	53	20	25.64	43.000
191166	63	72	240	2.65	53	20	25.96	47.000
201166	61	75	244	2.71	53	20	26.26	49.000
211166	63	79	246	2.79	53	20	26.63	52.000
221166	63	83	247	2.87	53	20	26.97	56.000
231166	62	86	247	2.92	53	20	27.31	57.000
241166	62	89	239	2.98	53	20	27.53	57.000
251166	60	90	230	3.00	53	20	27.60	56.000
261166	62	90	226	3.00	53	20	27.60	55.000
271166	60	86	212	2.92	53	20	27.31	49.000
281166	58	79	199	2.79	53	20	26.63	42.000
291166	58	71	176	2.63	53	20	25.85	34.000
301166	57	66	166	2.53	53	20	25.29	30.000
11266	57	62	146	2.44	53	20	24.90	24.000
21266	52	60	132	2.40	53	20	24.63	21.000
31266	53	58	123	2.35	53	20	24.46	19.000
41266	55	55	121	2.28	53	20	24.12	18.000
51266	53	55	120	2.28	53	20	24.12	18.000
61266	52	57	123	2.33	53	20	24.31	19.000
71266	53	59	128	2.37	53	20	24.60	20.000
81266	54	61	140	2.42	53	20	24.77	23.000
91266	54	68	146	2.57	53	20	25.52	27.000
101266	54	76	158	2.73	53	20	26.36	32.000
111266	53	35	169	1.78	53	20	21.22	39.000
121266	53	89	180	2.98	53	20	27.53	43.000
131266	52	91	191	3.02	53	20	27.67	47.000
141266	53	92	202	3.04	53	20	27.74	50.000
151266	55	93	224	3.05	53	20	27.90	56.000
161266	51	97	245	3.13	53	20	28.15	64.000
171266	52	108	296	3.32	53	20	29.02	86.000
181266	51	124	388	3.58	53	20	30.19	130.000
191266	50	140	469	3.83	53	20	31.21	177.000
201266	49	154	480	4.03	53	20	32.11	100.000
211266	48	165	472	4.19	53	20	32.70	210.000
221266	50	173	453	4.30	53	20	33.15	212.000
231266	49	178	445	4.37	53	20	33.40	214.000
241266	48	180	428	4.40	53	20	33.48	208.000
251266	48	182	401	4.42	53	20	33.64	197.000
261266	49	183	385	4.44	53	20	33.64	190.000
271266	47	182	360	4.42	53	20	33.64	177.000
281266	49	185	345	4.46	53	20	33.79	172.000
291266	48	185	340	4.46	53	20	33.79	170.000
301266	53	185	334	4.46	53	20	33.79	167.000
311266	50	188	340	4.50	53	20	33.94	173.000
10167	44	99	345	3.04	51	20	23.62	162.000
20167	44	171	365	3.99	53	20	30.99	169.000
30167	43	169	382	3.96	53	20	31.05	174.000
40167	43	165	399	3.92	53	20	30.44	178.000
50167	43	158	402	3.83	53	20	30.02	171.000
60167	43	154	402	3.78	53	20	29.69	167.000
70167	43	155	384	3.80	53	20	29.50	161.000
80167	43	156	370	3.81	53	20	29.68	156.000
90167	43	157	358	3.82	53	20	29.85	150.000
100167	42	157	329	3.82	53	20	29.85	139.000

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
110167	41	152	303	3.76	53	20	29.33	124.000
120167	41	147	276	3.70	53	20	28.78	110.000
130167	44	141	268	3.62	53	20	28.33	102.000
140167	45	135	253	3.54	53	20	27.82	92.000
150167	45	129	242	3.46	53	20	27.22	84.000
160167	43	123	238	3.38	53	20	26.55	79.000
170167	43	116	229	3.29	53	20	25.53	72.000
180167	42	109	214	3.17	53	20	24.82	62.000
190167	42	100	206	3.05	53	20	23.92	56.000
200167	42	94	197	2.96	53	20	23.11	50.000
210167	43	90	190	2.90	53	20	22.50	46.000
220167	43	86	183	2.83	53	20	22.18	42.000
230167	44	82	180	2.77	53	20	21.43	40.000
240167	46	80	169	2.73	53	20	21.39	37.000
250167	45	78	161	2.70	53	20	20.97	34.000
260167	47	76	154	2.66	53	20	20.90	32.000
270167	46	74	140	2.63	53	20	20.44	28.000
280167	47	71	133	2.57	53	20	20.25	26.000
290167	47	69	120	2.54	53	20	19.74	22.000
300167	48	67	107	2.50	53	20	19.57	19.000
310167	47	67	102	2.50	53	20	19.57	18.000
10267	48	68	105	2.52	53	20	19.66	19.000
20267	48	71	120	2.57	53	20	20.25	23.000
30267	50	74	142	2.63	53	20	20.44	28.000
40267	52	81	155	2.75	53	20	21.41	34.000
50267	50	89	177	2.88	53	20	22.51	43.000
60267	48	99	199	3.04	53	20	23.62	53.000
70267	50	108	217	3.17	53	20	24.82	63.000
80267	47	115	235	3.29	53	20	25.53	74.000
90267	49	123	242	3.38	53	20	26.55	80.000
100267	48	130	250	3.48	53	20	27.09	88.000
110267	47	136	256	3.56	53	20	27.67	94.000
120267	46	140	257	3.61	53	20	28.13	97.000
130267	46	143	258	3.65	53	20	28.37	0.0
140267	45	146	254	3.68	53	20	28.95	100.000
150267	46	145	254	3.67	53	20	28.76	99.000
160267	46	143	253	3.65	53	20	28.37	98.000
170267	47	140	253	3.61	53	20	28.13	96.000
180267	47	135	223	3.54	53	20	27.82	81.000
190267	46	129	205	3.46	53	20	27.22	71.000
200267	47	124	201	3.40	53	20	26.43	67.000
210267	48	125	199	3.41	53	20	26.66	67.000
220267	47	125	207	3.41	53	20	26.66	70.000
230267	48	125	221	3.41	53	20	26.66	75.000
240267	47	125	236	3.41	53	20	26.66	80.000
250267	46	127	241	3.44	53	20	26.77	83.000
260267	47	122	246	3.37	53	20	26.31	81.000
270267	47	121	237	3.36	53	20	26.07	77.000
280267	48	122	208	3.37	53	20	26.31	69.000
10367	46	123	169	3.38	53	20	26.55	56.000
20367	49	127	159	3.44	53	20	26.77	55.000
30367	47	132	156	3.50	53	20	27.53	56.000
40367	46	133	139	3.52	53	20	27.39	50.000
50367	48	134	133	3.53	53	20	27.60	48.000
60367	46	135	133	3.54	53	20	27.82	48.000
70367	47	135	133	3.54	53	20	27.82	48.000
80367	48	134	132	3.53	53	20	27.60	48.000
90367	49	133	132	3.52	53	20	27.39	47.000
100367	49	132	127	3.50	53	20	27.53	45.000
110367	49	132	128	3.50	53	20	27.53	46.000
120367	50	134	212	3.53	53	20	27.60	77.000
130367	51	139	290	3.60	53	20	27.93	109.000
140367	51	151	375	3.75	53	20	29.15	153.000
150367	51	170	456	3.97	53	20	31.20	209.000
160367	52	188	533	4.18	53	20	32.58	271.000
170367	53	206	573	4.37	53	20	34.26	319.000
180367	53	222	572	4.54	53	20	35.41	343.000
190367	53	235	580	4.67	53	20	36.44	368.000
200367	53	249	580	4.81	53	20	37.37	390.000
210367	50	254	566	4.85	53	20	38.03	388.000
220367	55	257	530	4.88	53	20	38.19	368.000
230367	52	262	469	4.93	53	20	38.45	332.000
240367	52	266	459	4.97	53	20	38.65	330.000
250367	54	266	449	4.97	53	20	38.65	322.000
260367	55	269	439	4.99	53	20	39.14	319.000
270367	53	271	419	5.01	53	20	39.23	307.000
280367	53	272	385	5.02	53	20	39.27	283.000
290367	54	272	355	5.02	53	20	39.27	261.000
300367	56	272	321	5.02	53	20	39.27	236.000
310367	56	272	302	5.02	53	20	39.27	222.000
10467	58	273	305	5.03	53	20	39.32	225.000
20467	59	273	355	5.03	53	20	39.32	262.000
30467	59	271	395	5.01	53	20	39.23	289.000
40467	59	269	431	4.99	53	20	39.14	313.000
50467	59	268	419	4.98	53	20	39.10	303.000
60467	60	266	410	4.97	53	20	38.65	294.000
70467	62	257	375	4.88	53	20	38.19	260.000
80467	62	246	293	4.78	53	20	37.19	195.000
90467	63	234	278	4.66	53	20	36.37	176.000
100467	64	224	255	4.56	53	20	35.58	154.000
110467	64	215	244	4.47	53	20	34.78	142.000
120467	64	211	233	4.43	53	20	34.41	133.000
130467	66	210	234	4.41	53	20	34.67	133.000
140467	65	213	242	4.45	53	20	34.60	139.000
150467	65	224	271	4.56	53	20	35.58	164.000
160467	67	224	321	4.56	53	20	35.58	194.000
170467	67	219	341	4.51	53	20	35.15	202.000
180467	67	215	355	4.47	53	20	34.78	206.000
190467	67	214	370	4.46	53	20	34.69	214.000
200467	67	219	390	4.51	53	20	35.15	231.000
210467	67	223	444	4.55	53	20	35.49	267.000
220467	67	227	464	4.59	53	20	35.82	284.000
230467	69	230	464	4.62	53	20	36.06	288.000
240467	69	233	449	4.65	53	20	36.29	282.000

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
250467	69	235	424	4.67	53	20	36.44	269.000
260467	69	240	414	4.72	53	20	36.79	268.000
270467	67	253	429	4.84	53	20	37.97	293.000
280467	67	246	459	4.78	53	20	37.19	305.000
290467	65	243	509	4.75	53	20	36.99	334.000
300467	67	239	539	4.71	53	20	36.72	348.000
10567	67	237	556	4.69	53	20	36.58	356.000
20567	66	245	566	4.77	53	20	37.12	374.000
30567	65	248	564	4.80	53	20	37.31	378.000
40567	65	254	552	4.85	53	20	38.03	379.000
50567	61	264	526	4.95	53	20	38.55	375.000
60567	61	268	494	4.98	53	20	39.10	357.000
70567	65	273	426	5.03	53	20	39.32	314.000
80567	64	278	392	5.08	53	20	39.52	294.000
90567	66	283	389	5.12	53	20	40.06	297.000
100567	67	283	388	5.12	53	20	40.06	294.000
110567	67	282	387	5.11	53	20	40.02	295.000
120567	67	288	387	5.17	53	20	40.22	301.000
130567	68	285	389	5.14	53	20	40.12	299.000
140567	68	288	404	5.17	53	20	40.22	314.000
150567	68	290	408	5.18	53	20	40.64	319.000
160567	65	290	418	5.18	53	20	40.64	328.000
170567	64	291	424	5.19	53	20	40.67	333.000
180567	66	294	427	5.22	53	20	40.75	339.000
190567	68	297	425	5.25	53	20	40.83	341.000
200567	67	300	410	5.27	53	20	41.26	332.000
210567	67	306	397	5.32	53	20	41.75	328.000
220567	70	313	392	5.38	53	20	42.23	331.000
230567	69	320	392	5.44	53	20	42.68	339.000
240567	67	325	396	5.49	53	20	42.73	347.000
250567	60	330	400	5.53	53	20	43.12	356.000
260567	62	336	399	5.58	53	20	43.50	362.000
270567	65	346	398	5.66	53	20	44.21	372.000
280567	67	353	393	5.72	53	20	44.54	375.000
290567	68	359	378	5.76	53	20	45.20	366.000
300567	61	359	368	5.76	53	20	45.20	357.000
310567	61	360	370	5.77	53	20	45.19	360.000
10667	65	362	376	5.79	53	20	45.17	366.000
20667	63	367	380	5.83	53	20	45.47	377.000
30667	65	370	378	5.85	53	20	45.79	378.000
40667	65	368	375	5.84	53	20	45.46	373.000
50667	64	366	390	5.82	53	20	45.48	385.000
60667	64	360	568	5.77	53	20	45.15	552.000
70667	67	349	645	5.68	53	20	44.56	608.000
80667	66	334	662	5.56	53	20	43.50	597.000
90667	65	311	644	5.37	53	20	41.84	541.000
100667	66	297	624	5.25	53	20	40.83	500.000
110667	67	281	584	5.10	53	20	39.99	443.000
120667	68	266	550	4.97	53	20	38.65	395.000
130667	69	253	500	4.84	53	20	37.97	342.000
140667	70	240	448	4.72	53	20	36.79	290.000
150667	72	229	412	4.61	53	20	35.98	255.000
160667	73	219	382	4.51	53	20	35.15	226.000
170667	73	209	363	4.40	53	20	34.57	205.000
180667	73	200	339	4.31	53	20	33.63	183.000
190667	72	192	291	4.22	53	20	33.07	151.000
200667	72	185	238	4.15	53	20	32.21	119.000
210667	73	183	226	4.12	53	20	32.31	112.000
220667	73	183	274	4.12	53	20	32.31	135.000
230667	73	185	323	4.15	53	20	32.21	161.000
240667	74	188	413	4.18	53	20	32.58	210.000
250667	74	189	497	4.19	53	20	32.71	254.000
260667	74	192	557	4.22	53	20	33.07	289.000
270667	74	195	567	4.26	53	20	33.07	299.000
280667	74	198	557	4.29	53	20	33.41	298.000
290667	74	200	547	4.31	53	20	33.63	295.000
300667	75	202	535	4.33	53	20	33.84	292.000
10767	81	202	527	4.33	53	20	33.84	287.000
20767	82	202	518	4.33	53	20	33.84	283.000
30767	73	203	498	4.34	53	20	33.95	273.000
40767	73	207	469	4.38	53	20	34.37	262.000
50767	74	211	440	4.43	53	20	34.41	251.000
60767	74	214	452	4.46	53	20	34.69	261.000
70767	73	219	474	4.51	53	20	35.15	280.000
80767	73	224	477	4.56	53	20	35.58	288.000
90767	73	230	470	4.62	53	20	36.06	292.000
100767	73	235	414	4.67	53	20	36.44	263.000
110767	74	238	353	4.70	53	20	36.65	227.000
120767	74	243	351	4.75	53	20	36.99	230.000
130767	70	246	402	4.78	53	20	37.19	267.000
140767	70	248	449	4.80	53	20	37.31	300.000
150767	78	247	432	4.79	53	20	37.25	288.000
160767	78	246	416	4.78	53	20	37.19	276.000
170767	78	244	389	4.76	53	20	37.06	256.000
180767	79	242	357	4.74	53	20	36.93	233.000
190767	80	241	329	4.73	53	20	36.86	214.000
200767	80	241	297	4.73	53	20	36.86	193.000
210767	80	240	269	4.72	53	20	36.79	174.000
220767	81	237	252	4.69	53	20	36.58	161.000
230767	82	231	246	4.63	53	20	36.14	153.000
240767	82	222	257	4.54	53	20	35.41	154.000
250767	82	212	272	4.44	53	20	34.50	156.000
260767	82	196	288	4.27	53	20	33.18	152.000
270767	82	180	295	4.09	53	20	31.91	143.000
280767	82	165	300	3.92	53	20	30.44	134.000
290767	82	153	300	3.77	53	20	29.51	124.000
300767	82	145	290	3.67	53	20	28.76	114.000
310767	82	137	279	3.57	53	20	27.88	103.000
10867	82	132	273	3.50	53	20	27.53	97.000
20867	82	130	267	3.48	53	20	27.09	94.000
30867	83	129	261	3.46	53	20	27.22	91.000
40867	83	129	263	3.46	53	20	27.22	92.000
50867	83	131	270	3.49	53	20	27.31	96.000
60867	84	135	290	3.54	53	30	27.82	102.000

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
70867	84	141	285	3.62	53	30	28.33	109.000
80867	85	146	285	3.68	53	20	28.95	112.000
90867	84	150	280	3.73	53	30	29.33	113.000
100867	84	151	276	3.75	53	30	29.15	113.000
110867	83	151	277	3.75	53	20	29.15	113.000
120867	83	149	284	3.72	53	20	29.15	114.000
130867	84	145	306	3.67	53	30	28.76	120.000
140867	84	140	348	3.61	53	30	28.13	132.000
150867	84	136	388	3.56	53	30	27.67	142.000
160867	84	134	420	3.53	53	30	27.60	152.000
170867	82	132	435	3.50	53	20	27.53	155.000
180867	81	130	442	3.48	53	20	27.09	155.000
190867	81	125	446	3.41	53	20	26.66	151.000
200867	81	121	442	3.36	53	20	26.07	144.000
210867	80	116	429	3.29	53	20	25.53	134.000
220867	80	111	412	3.21	53	20	25.29	123.000
230867	81	105	384	3.13	53	20	24.33	109.000
240867	80	98	352	3.02	53	20	23.67	93.000
250867	80	93	319	2.94	53	20	23.14	80.000
260867	80	90	290	2.90	53	20	22.50	70.000
270867	80	88	302	2.86	53	20	22.52	72.000
280867	80	86	321	2.83	53	20	22.18	75.000
290867	79	81	322	2.75	53	20	21.41	70.000
300867	79	80	305	2.73	53	20	21.39	65.000
310867	78	79	273	2.71	53	20	21.37	58.000
10967	79	79	242	2.71	53	20	21.37	52.000
20967	79	77	212	2.68	53	20	20.94	44.000
30967	78	77	186	2.68	53	20	20.94	39.000
40967	77	77	141	2.68	53	20	20.94	29.000
50967	78	76	125	2.66	53	20	20.90	26.000
60967	78	77	118	2.68	53	20	20.94	25.000
70967	78	78	113	2.70	53	20	20.97	24.000
80967	79	76	108	2.66	53	20	20.90	22.000
90967	76	76	103	2.66	53	20	20.90	21.000
100967	76	75	95	2.65	53	20	20.49	19.000
110967	76	75	88	2.65	53	20	20.49	18.000
120967	76	75	82	2.65	53	20	20.49	17.000
130967	76	75	77	2.65	53	20	20.49	16.000
140967	76	79	79	2.71	53	20	21.37	17.000
150967	75	87	174	2.85	53	20	22.17	41.000
160967	75	90	414	2.90	53	20	22.50	101.000
170967	76	89	474	2.88	53	20	22.51	114.000
180967	77	87	444	2.85	53	20	22.17	104.000
190967	77	84	384	2.80	53	20	21.81	87.000
200967	76	81	309	2.75	53	20	21.41	68.000
210967	77	78	264	2.70	53	20	20.97	56.000
220967	77	76	232	2.66	53	20	20.90	48.000
230967	76	75	194	2.65	53	20	20.49	39.000
240967	76	77	170	2.68	53	20	20.94	35.000
250967	76	81	176	2.75	53	20	21.41	38.000
260967	76	86	182	2.83	53	20	22.18	42.000
270967	76	88	182	2.86	53	20	22.52	43.000
280967	76	86	173	2.83	53	20	22.18	40.000
290967	74	85	163	2.82	53	20	21.82	37.000
300967	74	85	158	2.82	53	20	21.82	36.000
11067	73	83	180	2.78	53	20	21.80	40.000
21067	72	81	173	2.75	53	20	21.41	38.000
31067	71	79	168	2.71	53	20	21.37	36.000
41067	71	76	161	2.66	53	20	20.90	33.000
51067	72	73	152	2.61	53	20	20.39	30.000
61067	73	71	148	2.57	53	20	20.25	28.000
71067	73	71	133	2.57	53	20	20.25	26.000
81067	72	72	126	2.59	53	20	20.32	24.000
91067	72	72	125	2.59	53	20	20.32	24.000
101067	72	74	127	2.63	53	20	20.44	25.000
111067	72	75	141	2.65	53	20	20.49	29.000
121067	72	75	176	2.65	53	20	20.49	36.000
131067	72	73	194	2.61	53	20	20.38	38.000
141067	72	72	204	2.59	53	20	20.32	40.000
151067	72	71	208	2.57	53	20	20.25	40.000
161067	72	71	207	2.57	53	20	20.25	40.000
171067	72	69	207	2.54	53	20	19.74	39.000
181067	70	68	206	2.52	53	20	19.66	38.000
191067	68	70	204	2.56	53	20	19.82	39.000
201067	68	72	203	2.59	53	20	20.32	39.000
211067	67	73	200	2.61	53	20	20.38	39.000
221067	67	69	203	2.54	53	20	19.74	38.000
231067	67	73	208	2.61	53	20	20.38	41.000
241067	64	75	218	2.65	53	20	20.49	44.000
251067	63	78	231	2.70	53	20	20.97	49.000
261067	63	81	247	2.75	53	20	21.41	54.000
271067	63	85	265	2.82	53	20	21.82	61.000
281067	62	87	281	2.85	53	20	22.17	66.000
291067	62	90	291	2.90	53	20	22.50	71.000
301067	62	94	294	2.96	53	20	23.11	75.000
311067	61	95	290	2.98	53	20	23.08	74.000
11167	60	94	277	2.96	53	20	23.11	70.000
21167	59	94	257	2.96	53	20	23.11	65.000
31167	59	92	232	2.93	53	20	22.81	58.000
41167	59	89	220	2.88	53	20	22.51	53.000
51167	58	88	216	2.86	53	20	22.52	51.000
61167	58	92	221	2.93	53	20	22.81	55.000
71167	58	103	260	3.10	53	20	24.10	72.000
81167	58	115	307	3.27	53	20	25.61	95.000
91167	60	123	353	3.38	53	20	26.55	117.000
101167	60	131	381	3.49	53	20	27.31	135.000
111167	59	141	402	3.62	53	20	28.33	153.000
121167	62	150	414	3.73	53	20	29.33	168.000
131167	59	154	404	3.78	53	20	29.69	168.000
141167	59	156	386	3.81	53	20	29.68	163.000
151167	59	156	360	3.81	53	20	29.68	152.000
161167	58	153	303	3.77	53	20	29.51	126.000
171167	59	149	234	3.72	53	20	29.15	94.000
181167	59	141	212	3.62	53	20	28.33	81.000

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DATE	TM #	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
191167	59	132	197	3.50	53	20	27.53	70.000
221167	59	126	188	3.42	53	20	26.90	64.000
211167	58	122	182	3.37	53	20	26.31	60.000
221167	58	119	174	3.33	53	19	25.93	55.910
231167	59	116	169	3.29	53	20	25.53	53.000
241167	59	113	165	3.24	53	20	25.47	50.000
251167	60	113	161	3.20	53	20	25.02	48.000
261167	58	105	160	3.13	53	20	24.33	45.000
271167	57	100	158	3.05	53	20	23.92	43.000
281167	55	96	157	2.99	53	20	23.39	41.000
291167	55	95	159	2.98	53	20	23.08	41.000
301167	55	95	161	2.98	53	20	23.08	41.000
11267	55	95	162	2.98	53	20	23.08	42.000
21267	55	96	165	2.99	53	20	23.39	43.000
31267	54	96	170	2.99	53	20	23.39	44.000
41267	54	95	176	2.98	53	20	23.08	45.000
51267	54	98	195	3.02	53	20	23.67	54.000
61267	55	103	225	3.10	53	20	24.10	63.000
71267	56	110	266	3.20	53	20	25.02	79.000
81267	56	118	326	3.31	53	20	26.04	104.000
91267	56	128	381	3.45	53	20	27.00	132.000
101267	55	142	446	3.63	53	20	28.53	171.000
111267	54	156	509	3.81	53	20	29.68	214.000
121267	53	168	581	3.95	53	20	30.90	264.000
131267	50	177	660	4.06	53	20	31.50	315.000
141267	50	185	758	4.15	53	20	32.21	379.000
151267	48	201	830	4.32	53	20	33.74	450.000
161267	49	213	845	4.45	53	20	34.60	486.000
171267	48	223	858	4.55	53	20	35.49	517.000
181267	47	238	853	4.70	53	20	36.65	588.000
191267	48	249	835	4.81	53	20	37.37	561.000
201267	48	255	790	4.86	53	20	38.08	544.000
211267	48	262	746	4.93	53	20	38.45	528.000
221267	46	269	708	4.99	53	20	39.14	514.000
231267	48	273	673	5.03	53	20	39.32	496.000
241267	48	273	646	5.03	53	20	39.32	476.000
251267	45	273	617	5.03	53	20	39.32	455.000
261267	45	274	591	5.04	53	20	39.36	437.000
271267	45	276	570	5.06	53	20	39.44	425.000
281267	44	281	545	5.10	53	20	39.99	413.000
291267	44	287	524	5.16	53	20	40.19	406.000
301267	43	291	466	5.19	53	20	40.67	366.000
311267	43	295	416	5.23	53	20	40.78	331.000
10168	44	99	371	2.83	53	20	21.06	307.000
20168	44	309	338	4.73	53	20	36.82	282.000
30168	42	310	313	4.74	53	20	36.85	262.000
40168	42	310	293	4.74	53	20	36.85	245.000
50168	42	310	275	4.74	53	20	36.85	230.000
60168	42	311	263	4.75	53	20	36.89	221.000
70168	42	309	259	4.73	53	20	36.82	216.000
80168	41	306	256	4.71	53	20	36.64	212.000
90168	40	305	272	4.71	53	10	36.53	224.000
100168	39	310	316	4.74	53	10	36.85	264.000
110168	38	309	334	4.73	53	10	36.82	279.000
120168	38	305	339	4.71	53	10	36.53	279.000
130168	38	302	338	4.68	53	10	36.42	276.000
140168	36	299	326	4.66	53	10	36.23	263.000
150168	35	297	308	4.65	53	10	36.08	247.000
160168	36	295	292	4.64	53	10	35.93	233.000
170168	36	294	277	4.63	53	10	35.89	220.000
180168	36	292	256	4.61	53	10	35.82	202.000
190168	36	290	244	4.60	53	10	35.66	191.000
200168	36	288	221	4.59	53	10	35.51	172.000
210168	36	286	199	4.57	53	10	35.43	154.000
220168	37	284	174	4.56	53	10	35.28	133.000
230168	38	283	162	4.55	53	10	35.23	124.000
240168	38	280	152	4.53	53	10	35.04	115.000
250168	38	276	144	4.50	53	10	34.80	107.000
260168	40	271	140	4.46	53	10	34.51	102.000
270168	40	261	146	4.39	53	10	33.84	103.000
280168	40	251	156	4.31	53	10	33.22	106.000
290168	40	239	182	4.22	53	10	32.40	117.000
300168	41	234	202	4.18	53	20	32.06	128.000
310168	42	230	230	4.14	53	20	31.85	143.000
10268	42	229	270	4.14	53	20	31.72	167.000
20268	43	233	362	4.17	53	20	32.01	228.000
30268	44	245	473	4.26	53	20	32.85	313.000
40268	44	259	575	4.37	53	20	33.75	402.000
50268	44	272	677	4.47	53	20	34.55	497.000
60268	43	282	725	4.54	53	20	35.19	552.000
70268	44	288	742	4.59	53	20	35.51	577.000
80268	43	293	719	4.62	53	20	35.85	569.000
90268	43	298	658	4.66	53	20	36.12	529.000
100268	44	303	596	4.69	53	20	36.45	488.000
110268	44	308	531	4.73	53	20	36.71	442.000
120268	44	313	482	4.76	53	20	37.03	407.000
130268	42	318	437	4.79	53	20	37.35	375.000
140268	42	322	412	4.82	53	20	37.56	358.000
150268	42	325	386	4.84	53	20	37.74	339.000
160268	41	327	361	4.86	53	20	37.80	319.000
170268	41	327	344	4.86	53	20	37.80	304.000
180268	41	326	329	4.85	53	20	37.77	290.000
190268	41	323	315	4.83	53	20	37.60	75.000
200268	41	317	313	4.79	53	20	37.25	268.000
210268	40	310	298	4.74	53	10	36.85	249.000
220268	40	302	285	4.68	53	10	36.42	232.000
230268	40	292	273	4.61	53	10	35.82	215.000
240268	39	280	259	4.53	53	10	35.04	196.000
250268	39	266	243	4.42	53	10	34.21	175.000
260268	39	251	233	4.31	53	10	33.22	158.000
270268	39	237	220	4.20	53	10	32.30	141.000
280268	39	227	218	4.12	53	10	31.61	129.000
290268	39	215	200	4.02	53	10	30.78	116.000
10368	40	205	190	3.93	53	10	30.10	5.000

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DATE	TM #	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
20368	40	195	183	3.85	53	10	29.32	96.000
30368	40	186	177	3.77	53	10	28.64	89.000
40368	40	177	172	3.68	53	10	27.99	82.000
50368	40	170	168	3.62	53	10	27.40	77.000
60368	41	160	166	3.52	53	20	26.61	72.000
70368	41	151	166	3.43	53	20	25.86	68.000
80368	41	144	167	3.36	53	20	25.25	65.000
90368	41	138	173	3.29	53	20	24.77	64.000
100368	44	132	181	3.23	53	20	24.20	65.000
110368	45	129	198	3.19	53	20	23.97	69.000
120368	46	128	229	3.18	53	20	23.87	79.000
130368	46	126	281	3.16	53	20	23.67	96.000
140368	45	131	616	3.22	53	20	24.10	218.000
150368	42	142	331	3.33	53	20	25.14	510.000
160368	47	149	750	3.41	53	20	25.69	704.000
170368	48	157	87	3.49	53	20	26.37	885.000
180368	48	165	280	3.57	53	20	27.01	16.000
190368	49	176	417	3.67	53	20	27.92	149.000
200368	50	186	419	3.77	53	20	28.64	215.000
210368	51	195	420	3.85	53	20	29.32	274.000
220368	50	209	355	3.97	53	20	30.35	329.000
230368	50	236	267	4.19	53	20	32.24	445.000
240368	50	265	169	4.42	53	20	34.09	552.000
250368	50	293	0	4.62	53	17	35.85	582.000
260368	48	319	838	4.80	53	20	37.39	583.000
270368	48	332	664	4.89	53	20	38.11	492.000
280368	49	342	500	4.95	53	20	38.71	385.000
290368	50	347	300	4.99	53	20	38.93	218.000
300368	50	351	115	5.01	53	20	39.20	57.000
310368	50	354	990	5.03	53	20	39.36	946.000
10468	50	355	921	5.04	53	20	39.38	863.000
20468	50	357	675	5.05	53	20	39.51	843.000
30468	51	359	866	5.06	53	20	39.64	839.000
40468	51	362	870	5.08	53	20	39.80	850.000
50468	53	367	889	5.11	53	20	40.08	881.000
60468	53	370	978	5.13	53	20	40.23	947.000
70468	54	374	130	5.16	53	20	40.40	141.000
80468	54	377	261	5.18	53	20	40.55	284.000
90468	54	386	307	5.23	53	20	41.07	362.000
100468	55	391	196	5.26	53	20	41.33	263.000
110468	55	395	80	5.29	53	20	41.49	152.000
120468	55	401	941	5.32	53	20	41.85	19.000
130468	56	408	740	5.36	53	20	42.22	815.000
140468	57	415	542	5.41	53	20	42.51	607.000
150468	57	419	359	5.43	53	20	42.73	406.000
160468	58	424	298	5.46	53	20	42.98	341.000
170468	59	423	281	5.45	53	20	42.96	321.000
180468	59	419	264	5.43	53	20	42.73	299.000
190468	59	414	246	5.40	53	20	42.49	275.000
200468	60	411	234	5.38	53	20	42.35	260.000
210468	61	409	220	5.37	53	20	42.24	243.000
220468	62	405	212	5.35	53	20	42.01	232.000
230468	62	399	201	5.31	53	20	41.73	217.000
240468	63	400	207	5.32	53	20	41.75	224.000
250468	63	401	216	5.32	53	20	41.85	234.000
260468	64	392	231	5.27	53	20	41.35	244.000
270468	64	383	253	5.21	53	20	40.92	262.000
280468	64	375	295	5.16	53	20	40.50	289.000
290468	63	368	317	5.12	53	20	40.10	315.000
300468	64	359	352	5.06	53	20	39.64	341.000
10568	64	350	389	5.01	53	20	39.09	368.000
20568	64	339	430	4.93	53	20	38.55	394.000
30568	64	329	500	4.87	53	20	37.94	444.000
40568	65	321	580	4.81	53	20	37.53	503.000
50568	65	313	665	4.76	53	20	37.03	562.000
60568	66	305	760	4.71	53	20	36.53	626.000
70568	66	298	840	4.66	53	20	36.12	676.000
80568	66	288	910	4.57	53	20	35.43	703.000
90568	67	275	985	4.49	53	20	34.75	731.000
100568	67	266	59	4.42	53	20	34.21	761.000
110568	67	265	100	4.42	53	20	34.09	787.000
120568	67	265	85	4.42	53	20	34.09	776.000
130568	68	268	60	4.44	53	20	34.30	767.000
140568	68	272	10	4.47	53	20	34.55	742.000
150568	68	276	915	4.50	53	20	34.80	682.000
160568	70	278	880	4.51	53	20	34.95	661.000
170568	71	284	875	4.56	53	20	35.28	671.000
180568	71	294	866	4.63	53	20	35.89	687.000
190568	71	305	859	4.71	53	20	36.53	707.000
200568	70	316	850	4.78	53	20	37.21	725.000
210568	70	325	842	4.84	53	20	37.74	739.000
220568	70	333	831	4.90	53	20	38.14	747.000
230568	70	341	840	4.95	53	20	38.61	746.000
240568	70	347	788	4.99	53	20	38.93	738.000
250568	71	348	768	4.99	53	20	39.04	722.000
260568	71	349	754	5.00	53	20	39.07	710.000
270568	72	349	729	5.00	53	20	39.07	687.000
280568	71	347	707	4.99	53	20	38.93	662.000
290568	72	344	680	4.97	53	20	38.77	632.000
300568	72	342	641	4.95	53	20	38.71	592.000
310568	72	340	615	4.94	53	20	38.58	565.000
10668	73	346	592	4.98	53	20	38.90	553.000
20668	73	354	570	5.03	53	20	39.36	545.000
30668	73	364	560	5.10	53	20	39.85	550.000
40668	72	376	543	5.17	53	20	40.53	551.000
50668	72	390	553	5.26	53	20	40.70	567.000
60668	72	393	565	5.21	53	20	40.92	584.000
70668	72	384	572	5.22	53	20	40.94	593.000
80668	72	384	575	5.22	53	20	40.94	596.000
90668	72	384	570	5.22	53	20	40.94	591.000
100668	72	386	563	5.23	53	20	41.07	587.000
110668	72	386	563	5.23	53	20	41.07	566.000
120668	73	394	520	5.28	53	20	41.47	553.000
130668	73	403	480	5.33	53	20	41.96	522.000

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
140668	74	402	430	5.33	53	20	41.87	467.000
150668	74	401	315	5.32	53	20	41.85	341.000
160668	75	399	281	5.31	53	20	41.73	303.000
170668	75	396	249	5.29	53	20	41.59	266.000
180668	75	392	218	5.27	53	20	41.35	231.000
190668	76	390	203	5.26	53	20	41.23	214.000
200668	76	386	198	5.23	53	20	41.07	206.000
210668	75	374	197	5.16	53	20	40.40	199.000
220668	79	360	203	5.07	53	20	39.67	197.000
230668	79	341	215	4.95	53	20	38.61	198.000
240668	80	321	248	4.81	53	20	37.53	215.000
250668	80	301	272	4.68	53	20	36.31	221.000
260668	80	282	298	4.54	53	20	35.19	227.000
270668	80	264	334	4.41	53	20	34.05	238.000
280668	80	249	385	4.29	53	20	33.12	259.000
290668	80	237	493	4.20	53	20	32.30	315.000
300668	80	227	609	4.12	53	20	31.61	373.000
10768	80	222	695	4.08	53	20	31.26	417.000
20768	80	221	752	4.07	53	20	31.20	449.000
30768	80	221	748	4.07	53	20	31.20	446.000
40768	80	221	715	4.07	53	20	31.20	427.000
50768	80	220	653	4.06	53	20	31.15	388.000
60768	80	218	590	4.04	53	20	31.03	347.000
70768	80	214	488	4.01	53	20	30.72	282.000
80768	80	210	379	3.98	53	20	30.41	215.000
90768	80	204	317	3.93	53	20	29.97	175.000
100768	80	199	282	3.88	53	20	29.65	152.000
110768	80	196	258	3.86	53	20	29.38	137.000
120768	81	193	244	3.83	53	20	29.19	127.000
130768	81	191	233	3.81	53	20	29.05	120.000
140768	81	188	226	3.78	53	20	28.85	115.000
150768	81	186	222	3.77	53	20	28.64	111.000
160768	81	182	219	3.73	53	20	28.36	108.000
170768	81	180	219	3.71	53	20	28.21	106.000
180768	81	178	220	3.69	53	20	28.07	106.000
190768	82	176	224	3.67	53	20	27.92	106.000
200768	82	175	227	3.66	53	20	27.85	107.000
210768	83	173	233	3.64	53	20	27.70	109.000
220768	83	170	235	3.62	53	20	27.40	108.000
230768	83	167	233	3.59	53	20	27.17	105.000
240768	83	162	229	3.54	53	20	26.77	100.000
250768	83	157	224	3.49	53	20	26.37	95.000
260768	83	152	215	3.44	53	20	25.95	88.000
270768	83	148	208	3.40	53	20	25.60	83.000
280768	84	143	201	3.35	53	30	25.16	78.000
290768	85	138	198	3.29	53	30	24.77	74.000
300768	85	133	199	3.24	53	30	24.29	71.000
310768	85	127	203	3.17	53	30	23.77	70.000
10868	85	123	206	3.13	53	30	23.36	68.000
20868	85	120	211	3.09	53	30	23.12	68.000
30868	86	120	211	3.09	53	30	23.12	68.000
40868	85	121	210	3.10	53	30	23.22	69.000
50868	85	123	207	3.13	53	30	23.36	69.000
60868	85	126	205	3.16	53	30	23.67	70.000
70868	86	127	199	3.17	53	30	23.77	68.000
80868	86	128	191	3.18	53	30	23.87	66.000
90868	86	127	185	3.17	53	30	23.77	63.000
100868	86	125	184	3.15	53	30	23.57	62.000
110868	86	124	183	3.14	53	30	23.46	61.000
120868	85	125	185	3.15	53	30	23.57	62.000
130868	86	130	192	3.20	53	30	24.07	67.000
140868	86	136	202	3.27	53	30	24.58	74.000
150868	86	140	222	3.31	53	30	24.95	84.000
160868	85	141	246	3.32	53	30	25.05	94.000
170868	85	143	279	3.35	53	30	25.16	108.000
180868	84	143	282	3.35	53	30	25.16	109.000
190868	84	142	283	3.33	53	30	25.14	109.000
200868	84	141	273	3.32	53	30	25.05	104.000
210868	85	140	204	3.31	53	30	24.95	0.0
220868	85	141	249	3.32	53	30	25.05	95.000
230868	85	141	242	3.32	53	30	25.05	93.000
240868	85	141	238	3.32	53	30	25.05	91.000
250868	85	140	242	3.31	53	30	24.95	91.000
260868	85	137	247	3.28	53	30	24.67	91.000
270868	85	132	262	3.23	53	30	24.20	93.000
280868	85	126	282	3.16	53	30	23.67	96.000
290868	85	120	288	3.09	53	30	23.12	93.000
310868	84	110	272	2.97	53	30	22.16	81.000
10968	84	106	260	2.92	53	30	21.76	74.000
20968	84	102	246	2.87	53	30	21.35	68.000
30968	84	99	226	2.83	53	30	21.06	60.000
40968	82	95	205	2.78	53	20	20.62	53.000
50968	81	91	189	2.73	53	20	20.16	46.000
60968	81	88	76	2.69	53	20	19.83	42.000
70968	81	88	165	2.69	53	20	19.83	46.000
80968	81	88	157	2.69	53	20	19.83	37.000
90968	81	86	147	2.66	53	20	19.62	34.000
100968	81	83	140	2.62	53	20	19.26	31.000
110968	80	79	134	2.56	53	20	18.82	29.000
120968	79	74	129	2.49	53	20	18.19	26.000
130968	79	70	127	2.42	53	20	17.76	24.000
140968	79	66	119	2.36	53	20	17.23	21.000
150968	79	65	112	2.35	53	20	17.06	20.000
160968	79	65	110	2.35	53	20	17.06	19.000
170968	79	67	114	2.38	53	20	17.33	21.000
180968	79	77	118	2.53	53	20	18.59	25.000
190968	78	88	125	2.69	53	20	19.83	30.000
200968	78	96	129	2.80	53	20	20.68	33.000
210968	78	98	131	2.82	53	20	20.93	35.000
220968	78	99	132	2.83	53	20	21.06	35.000
230968	78	99	132	2.83	53	20	21.06	35.000
240968	78	98	132	2.82	53	20	20.93	35.000
250968	78	96	132	2.80	53	20	20.68	34.000
260968	78	94	130	2.77	53	20	20.49	33.000

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
270968	78	91	126	2.73	53	20	20.16	31.000
280968	76	90	122	2.72	53	20	20.03	30.000
290968	77	88	120	2.69	53	20	19.83	29.000
300968	77	99	117	2.83	53	20	21.06	27.000
11068	77	83	102	2.62	53	24	19.26	22.860
21068	77	84	104	2.63	53	24	19.41	23.590
31068	77	85	106	2.65	53	24	19.48	24.330
41068	77	87	109	2.67	53	24	19.76	25.600
51068	77	88	113	2.69	53	24	19.83	26.850
61068	76	89	114	2.70	53	24	19.96	27.390
71068	76	88	115	2.69	53	24	19.83	27.320
81068	76	87	116	2.67	53	24	19.76	27.250
91068	74	86	118	2.66	53	23	19.62	27.400
101068	73	85	120	2.65	53	23	19.48	27.540
111068	72	83	120	2.62	53	23	19.26	26.890
121068	72	83	120	2.62	53	23	19.26	26.890
131068	72	82	121	2.60	53	23	19.19	26.790
141068	72	82	121	2.60	53	23	19.19	26.790
151068	71	82	122	2.60	53	22	19.19	23.010
161068	72	82	123	2.60	53	23	19.19	27.230
171068	72	83	126	2.62	53	23	19.26	28.240
181068	72	82	128	2.60	53	23	19.19	28.340
191068	72	82	130	2.60	53	23	19.19	28.780
201068	71	82	129	2.60	53	22	19.19	28.560
211068	70	81	126	2.59	53	22	19.04	27.560
221068	70	82	121	2.60	53	22	19.19	26.790
231068	70	84	117	2.63	53	22	19.41	26.540
241068	69	87	116	2.67	53	22	19.76	27.260
251068	69	89	119	2.70	53	22	19.96	28.600
261068	68	90	123	2.72	53	22	20.03	29.890
271068	68	92	131	2.74	53	22	20.30	32.540
281068	68	93	139	2.76	53	22	20.36	34.900
291068	68	93	149	2.76	53	22	20.36	37.410
301068	68	92	160	2.74	53	22	20.30	39.740
311068	65	92	169	2.74	53	21	20.30	41.980
11168	65	91	183	2.73	53	21	20.16	44.960
21168	64	91	186	2.73	53	21	20.16	45.700
31168	64	90	193	2.72	53	21	20.03	46.900
41168	64	88	194	2.69	53	21	19.83	46.090
51168	64	87	210	2.67	53	21	19.76	47.210
61168	62	88	203	2.69	53	20	19.83	48.230
71168	62	87	204	2.67	53	20	19.76	47.920
81168	61	86	205	2.66	53	20	19.62	47.600
91168	60	85	205	2.65	53	20	19.48	47.050
101168	59	88	203	2.69	53	19	19.83	48.230
111168	58	89	199	2.70	53	19	19.96	47.820
121168	57	89	195	2.70	53	19	19.96	46.860
131168	56	89	186	2.70	53	19	19.96	44.700
141168	56	89	172	2.70	53	19	19.96	41.330
151168	56	90	164	2.72	53	19	20.03	39.850
161168	56	92	146	2.74	53	19	20.30	36.270
171168	56	94	137	2.77	53	19	20.49	34.770
181168	55	97	127	2.81	53	18	20.80	33.260
191168	56	100	117	2.85	53	19	21.11	31.590
201168	54	103	86	2.89	53	18	21.41	31.430
211168	54	106	112	2.92	53	18	21.76	32.050
221168	54	106	110	2.92	53	18	21.76	31.480
231168	54	106	110	2.92	53	18	21.76	31.480
241168	54	106	111	2.92	53	18	21.76	31.770
251168	53	109	112	2.96	53	18	22.04	32.960
261168	53	115	115	3.03	53	18	22.65	35.710
271168	53	121	122	3.10	53	18	23.22	39.860
281168	53	128	133	3.18	53	18	23.87	45.960
291168	53	139	147	3.30	53	18	24.86	55.170
301168	53	150	169	3.42	53	18	25.78	68.440
11268	53	168	195	3.60	53	18	27.25	88.490
21268	52	186	234	3.77	53	18	28.64	117.510
31268	52	205	271	3.93	53	18	30.10	150.000
41268	51	219	310	4.05	53	18	31.09	183.300
51268	51	225	270	4.10	53	18	31.50	225.770
61268	50	230	432	4.14	53	17	31.85	268.270
71268	50	233	492	4.17	53	17	32.01	309.520
81268	50	238	517	4.21	53	17	32.35	329.430
91268	50	237	536	4.20	53	17	32.30	342.990
101268	50	238	543	4.21	53	17	32.35	348.930
111268	48	237	540	4.20	53	17	32.30	345.450
121268	47	236	526	4.19	53	16	32.24	335.170
131268	47	237	510	4.20	53	16	32.30	326.350
141268	47	235	498	4.18	53	16	32.19	315.980
151268	46	233	486	4.17	53	16	32.01	305.740
161268	46	229	475	4.14	53	16	31.72	293.690
171268	45	224	464	4.09	53	16	31.45	280.630
181268	46	220	446	4.06	53	16	31.15	264.920
191268	45	212	448	3.99	53	16	30.60	256.440
201268	45	205	530	3.93	53	16	30.10	238.000
211268	45	200	413	3.89	53	16	29.72	223.020
221268	46	194	402	3.84	53	16	29.25	210.570
231268	44	489	393	5.82	53	16	46.12	200.550
241268	44	185	391	3.76	53	16	28.57	195.300
251268	44	189	396	3.79	53	16	28.92	202.080
261268	44	197	411	3.86	53	16	29.52	218.610
271268	45	200	438	3.89	53	16	29.72	236.520
281268	44	201	464	3.90	53	16	29.78	251.810
291268	44	200	475	3.89	53	16	29.72	256.500
301268	45	200	471	3.89	53	16	29.72	254.340
311268	44	200	460	3.89	53	16	29.72	248.400
10169	45	210	444	3.85	53	16	76.91	251.750
20169	45	221	416	3.95	53	16	75.39	248.230
30169	44	233	384	4.05	53	16	74.55	241.570
40169	45	240	379	4.11	53	16	73.94	245.590
50169	43	248	367	4.17	53	15	73.62	245.740
60169	43	254	357	4.22	53	15	73.13	244.830
70169	41	260	349	4.27	53	15	72.63	245.000
80169	41	264	340	4.30	53	15	72.44	242.350

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
90169	41	264	329	4.30	53	15	72.44	234.510
100169	39	261	318	4.28	53	14	72.47	224.390
110169	39	258	307	4.25	53	14	72.95	213.860
120169	39	252	300	4.20	53	14	73.45	204.120
130169	39	246	293	4.16	53	14	73.47	194.610
140169	39	238	279	4.09	53	14	74.25	179.290
150169	39	228	268	4.01	53	14	74.82	164.980
160169	39	219	258	3.93	53	14	75.69	152.560
170169	39	210	252	3.85	53	14	76.51	142.880
180169	39	200	243	3.76	53	14	77.42	131.220
190169	41	190	240	3.67	53	15	78.26	123.120
200169	39	180	235	3.58	53	14	79.01	114.210
210169	39	172	234	3.50	53	14	80.01	108.670
220169	41	166	234	3.44	53	15	80.72	104.880
230169	43	163	239	3.41	53	15	81.06	105.180
240169	45	165	239	3.43	53	16	80.84	106.470
250169	43	174	250	3.52	53	15	79.77	117.450
260169	43	189	267	3.66	53	15	78.40	136.250
270169	43	206	287	3.82	53	15	76.56	159.630
280169	43	221	311	3.95	53	15	75.39	185.570
290169	43	234	339	4.06	53	15	74.39	214.180
300169	43	244	378	4.14	53	15	73.79	249.030
310169	43	252	428	4.20	53	15	73.45	291.210
10269	43	260	489	4.27	53	15	72.63	343.280
20269	43	277	572	4.40	53	15	71.65	427.830
30269	43	303	678	4.59	53	15	70.33	554.670
40269	43	326	811	4.76	53	15	68.92	713.840
50269	43	344	916	4.88	53	15	68.24	850.760
60269	43	357	939	4.97	53	15	67.57	905.100
70269	43	368	921	5.04	53	15	67.20	915.110
80269	43	376	878	5.10	53	15	66.60	911.650
90269	43	383	867	5.14	53	15	66.50	896.560
100269	43	390	828	5.19	53	15	66.05	871.480
110269	45	396	792	5.22	53	16	66.09	846.810
120269	45	403	770	5.27	53	16	65.63	837.840
130269	46	407	737	5.29	53	16	65.64	809.590
140269	45	415	730	5.34	53	16	65.34	817.960
150269	45	420	718	5.37	53	16	65.18	814.210
160269	45	425	707	5.41	53	16	64.71	811.240
170269	45	429	690	5.43	53	16	64.71	799.230
180269	45	432	672	5.45	53	16	64.55	783.820
190269	43	436	661	5.47	53	15	64.54	778.130
200269	43	437	634	5.48	53	15	64.38	748.060
210269	43	439	614	5.49	53	15	64.38	727.770
220269	43	443	595	5.51	53	15	64.36	711.630
230269	43	443	586	5.51	53	15	64.36	700.910
240269	43	440	887	5.50	53	15	64.22	53.760
250269	44	436	591	5.47	53	16	64.54	695.730
260269	43	640	640	6.58	53	15	58.98	739.580
270269	43	420	692	5.37	53	15	65.18	784.710
280269	45	415	844	5.34	53	16	65.34	945.730
10369	45	408	68	5.30	53	16	65.49	176.510
20369	45	399	155	5.24	53	16	65.94	244.280
30369	45	389	270	5.18	53	16	66.21	333.880
40369	45	375	360	5.09	53	16	66.76	377.000
50369	46	365	455	5.02	53	16	67.34	433.900
60369	47	355	506	4.96	53	16	67.54	443.500
70369	46	346	415	4.90	53	16	67.91	321.890
80369	46	337	270	4.84	53	16	68.27	155.570
90369	46	329	98	4.78	53	16	68.82	975.350
100369	46	322	955	4.73	53	16	69.19	830.280
110369	46	318	835	4.70	53	16	69.46	716.930
120369	45	308	755	4.63	53	16	69.91	627.860
130369	45	298	692	4.56	53	16	70.34	556.780
140369	47	289	645	4.49	53	16	70.98	503.290
150369	45	284	645	4.45	53	16	71.37	494.590
160369	45	281	655	4.43	53	16	71.43	496.950
170369	45	280	673	4.42	53	16	71.59	508.790
180369	45	281	702	4.43	53	16	71.43	532.610
190369	46	278	738	4.41	53	16	71.49	553.940
200369	46	271	778	4.35	53	16	72.19	569.260
210369	46	265	822	4.31	53	16	72.28	588.140
220369	46	257	855	4.24	53	16	73.11	600.220
230369	46	252	900	4.20	53	16	73.45	612.360
240369	46	250	943	4.19	53	16	73.31	636.520
250369	48	244	11	4.14	53	17	73.79	666.050
260369	50	237	20	4.08	53	17	74.41	652.700
270369	50	233	51	4.05	53	17	74.55	661.180
280369	55	237	72	4.08	53	18	74.41	685.970
290369	55	242	91	4.12	53	18	74.10	712.860
300369	55	266	107	4.32	53	18	72.12	741.250
310369	55	266	110	4.32	53	18	72.12	797.200
10469	55	284	100	4.45	53	18	71.37	843.480
20469	55	300	75	4.57	53	18	70.42	870.750
30469	54	313	56	4.67	53	18	69.49	892.430
40469	54	323	31	4.74	53	18	69.03	899.140
50469	54	333	990	4.81	53	18	68.54	890.110
60469	54	339	949	4.85	53	18	68.31	868.620
70469	55	345	917	4.89	53	18	68.07	854.190
80469	55	350	893	4.92	53	18	67.99	834.430
90469	55	345	850	4.89	53	18	68.07	791.770
100469	55	340	810	4.86	53	18	68.15	743.580
110469	55	335	787	4.82	53	18	68.59	711.840
120469	55	329	747	4.78	53	18	68.82	663.560
130469	57	329	724	4.78	53	19	68.82	643.130
140469	57	331	677	4.79	53	19	68.87	605.030
150469	55	334	649	4.81	53	18	68.75	585.270
160469	55	339	627	4.85	53	18	68.31	573.890
170469	58	344	609	4.88	53	19	68.24	565.640
180469	57	352	568	4.94	53	19	67.66	539.830
190469	58	361	541	5.00	53	19	67.28	527.310
200469	59	369	505	5.05	53	19	67.04	903.130
210469	61	376	476	5.10	53	20	66.60	483.240
220469	61	381	445	5.13	53	20	66.48	457.770

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
230469	63	387	422	5.17	53	20	66.20	440.950
240469	63	394	415	5.21	53	20	66.08	441.480
250469	63	393	410	5.21	53	20	65.91	435.050
260469	63	394	409	5.21	53	20	66.08	435.090
270469	64	393	408	5.21	53	21	65.91	432.930
280469	64	393	411	5.21	53	21	65.91	436.110
290469	64	394	389	5.21	53	21	66.08	413.820
300469	64	394	377	5.21	53	21	66.08	401.050
10569	64	394	368	5.21	53	21	66.08	391.480
20569	64	394	362	5.21	53	21	66.08	385.100
30569	64	395	356	5.22	53	21	65.92	379.670
40569	64	396	360	5.22	53	21	66.09	384.910
50569	64	824	279	7.43	53	21	55.61	620.720
60569	64	398	380	5.24	53	21	65.77	408.350
70569	64	403	520	5.27	53	21	65.63	565.810
80569	64	407	562	5.29	53	21	65.64	617.580
90569	66	408	605	5.30	53	21	65.49	666.470
100569	66	407	628	5.29	53	21	65.64	690.110
110569	66	407	639	5.29	53	21	65.64	702.200
120569	66	404	644	5.28	53	21	65.47	702.480
130569	67	400	630	5.25	53	21	65.78	680.400
140569	68	394	621	5.21	53	22	66.08	660.620
150569	68	387	613	5.17	53	22	66.20	640.520
160569	70	379	604	5.12	53	22	66.46	618.070
170569	70	372	590	5.07	53	22	66.90	592.600
180569	70	364	589	5.02	53	22	67.15	578.870
190569	70	357	580	4.97	53	22	67.57	559.060
200569	70	351	580	4.93	53	22	67.83	549.670
210569	70	348	584	4.91	53	22	67.95	548.730
220569	72	345	589	4.89	53	23	68.07	548.650
230569	72	341	594	4.86	53	23	68.36	546.900
240569	72	340	599	4.86	53	23	68.15	549.880
250569	72	340	605	4.86	53	23	68.15	555.390
260569	72	339	611	4.85	53	23	68.31	559.250
270569	73	338	616	4.84	53	23	68.47	562.160
280569	73	335	620	4.82	53	23	68.59	560.790
290569	73	333	625	4.81	53	23	68.54	561.940
300569	75	327	627	4.77	53	24	68.76	553.580
310569	75	320	623	4.72	53	24	69.13	538.270
10669	75	314	613	4.67	53	24	69.72	519.700
20669	75	306	605	4.62	53	24	69.84	499.850
30669	75	296	591	4.54	53	24	70.66	472.330
40669	75	292	568	4.51	53	24	70.90	447.810
50669	75	285	538	4.46	53	24	71.21	413.990
60669	75	276	510	4.39	53	24	71.81	380.050
70669	75	266	483	4.32	53	24	72.12	346.890
80669	75	255	456	4.23	53	24	72.97	313.960
90669	75	245	422	4.15	53	24	73.63	279.150
100669	77	237	395	4.08	53	24	74.41	252.760
110669	77	232	367	4.04	53	24	74.70	229.890
120669	77	229	340	4.02	53	24	74.67	210.220
130669	78	226	320	3.99	53	24	75.13	195.260
140669	79	207	295	3.83	53	24	76.42	164.880
150669	77	207	295	3.83	53	24	76.42	150.290
160669	77	196	284	3.73	53	24	77.44	150.290
170669	77	184	273	3.61	53	24	79.07	135.630
180669	79	178	266	3.56	53	25	79.27	127.840
190669	79	178	260	3.56	53	25	79.27	122.850
200669	79	174	254	3.52	53	25	79.77	119.330
210669	79	175	251	3.53	53	25	79.64	118.600
220669	79	176	247	3.54	53	25	79.52	117.370
230669	79	178	242	3.56	53	25	79.27	116.310
240669	81	181	241	3.59	53	25	78.89	117.780
250669	81	180	241	3.58	53	25	79.01	117.130
260669	81	179	239	3.57	53	25	79.14	115.510
270669	81	176	241	3.54	53	25	79.52	114.520
280669	81	173	244	3.51	53	25	79.89	113.970
290669	81	172	250	3.50	53	25	80.01	116.190
300669	81	174	256	3.52	53	25	79.77	120.270
10769	81	178	274	3.56	53	25	79.27	131.680
20769	81	188	316	3.65	53	25	78.54	160.400
30769	81	199	388	3.75	53	25	77.57	208.470
40769	82	208	449	3.83	53	25	76.80	252.160
50769	82	216	481	3.90	53	25	76.14	280.520
60769	82	222	493	3.96	53	25	75.24	295.500
70769	82	228	505	4.01	53	25	74.82	310.880
80769	82	232	517	4.04	53	25	74.70	323.850
90769	82	235	529	4.07	53	25	74.24	335.650
100769	82	238	536	4.09	53	25	74.25	344.430
110769	84	241	548	4.12	53	26	73.79	356.580
120769	84	240	556	4.11	53	26	73.94	360.230
130769	84	239	570	4.10	53	26	74.10	367.820
140769	84	236	577	4.07	53	26	74.56	367.660
150769	84	234	585	4.06	53	26	74.39	369.600
160769	84	236	597	4.07	53	26	74.56	380.410
170769	84	238	614	4.09	53	26	74.25	394.560
180769	84	240	620	4.11	53	26	73.94	401.760
190769	84	246	632	4.16	53	26	73.47	419.770
200769	84	253	638	4.21	53	26	73.29	435.820
210769	84	257	635	4.24	53	26	73.11	440.630
220769	84	261	626	4.28	53	26	72.47	441.140
230769	84	267	606	4.32	53	26	72.40	436.870
240769	84	274	549	4.38	53	26	71.71	406.150
250769	84	277	496	4.40	53	26	71.65	370.960
260769	84	276	446	4.39	53	26	71.81	332.360
270769	84	274	406	4.38	53	26	71.71	300.360
280769	84	270	376	4.35	53	26	71.92	274.100
290769	84	265	355	4.31	53	26	72.28	254.000
300769	84	261	331	4.28	53	26	72.47	233.260
310769	84	257	318	4.24	53	26	73.11	220.640
10869	83	252	296	4.20	53	25	73.45	201.420
20869	84	245	294	4.15	53	26	73.63	194.440
30869	82	238	288	4.09	53	25	74.25	185.070
40869	84	230	279	4.02	53	26	75.01	173.260

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
50869	82	223	275	3.96	53	25	75.59	165.580
60869	82	213	268	3.88	53	25	76.07	154.130
70869	82	203	263	3.79	53	25	76.99	144.150
80869	82	194	259	3.71	53	25	77.72	135.660
90869	84	184	253	3.61	53	26	79.07	125.690
100869	84	175	218	3.53	53	26	79.64	117.180
110869	84	166	244	3.44	53	26	80.72	109.360
120869	84	158	241	3.36	53	26	81.61	102.810
130869	84	149	239	3.27	53	26	82.51	96.150
150869	82	228	268	4.01	53	25	74.82	164.980
140869	82	238	279	4.09	53	25	74.25	179.290
160869	82	219	258	3.93	53	26	75.69	152.560
170869	84	210	252	3.85	53	26	76.51	142.880
180869	84	200	243	3.76	53	25	77.42	131.220
190869	82	190	240	3.67	53	25	78.26	123.120
200869	82	180	235	3.58	53	25	79.01	114.210
210869	82	172	234	3.50	53	25	80.01	108.670
220869	82	166	234	3.44	53	25	80.72	104.880
230869	84	163	239	3.41	53	26	81.06	105.180
240869	84	165	239	3.43	53	26	80.84	106.470
250869	84	174	250	3.52	53	26	79.77	117.450
260869	82	189	267	3.66	53	25	78.40	136.250
270869	82	206	289	3.82	53	25	76.56	159.630
280869	82	221	311	3.95	53	25	75.39	185.570
290869	82	234	339	4.06	53	25	74.39	214.180
300869	82	244	378	4.14	53	25	73.79	249.030
10969	81	123	165	2.98	53	25	86.43	54.860
20969	81	123	160	2.98	53	25	86.43	53.140
30969	81	123	158	2.98	53	25	86.43	51.190
40969	81	113	156	2.86	53	25	88.23	47.600
50969	81	104	156	2.75	53	25	89.79	43.800
60969	81	99	153	2.68	53	25	91.33	40.900
70969	81	93	149	2.60	53	25	92.73	37.410
80969	81	89	147	2.55	53	25	93.26	35.320
90969	81	86	142	2.51	53	25	93.84	32.970
100969	82	85	136	2.49	53	25	94.69	31.210
110969	82	86	133	2.51	53	25	93.84	30.880
120969	82	88	128	2.54	53	25	93.14	30.410
130969	84	88	123	2.54	53	26	93.14	29.220
140969	84	88	116	2.54	53	26	93.14	27.560
150969	82	88	112	2.54	53	25	93.14	26.610
160969	81	89	106	2.55	53	25	93.26	25.470
170969	79	90	101	2.56	53	25	93.38	24.540
180969	79	91	100	2.58	53	25	92.53	24.570
190969	79	92	99	2.59	53	25	92.64	24.590
200969	79	92	96	2.59	53	25	92.64	23.850
210969	81	91	94	2.58	53	25	92.53	23.100
220969	81	89	93	2.55	53	25	93.26	22.350
230969	79	87	93	2.52	53	25	93.98	21.850
240969	79	85	94	2.49	53	25	94.69	21.570
250969	77	84	96	2.48	53	24	94.54	21.770
260969	75	85	99	2.49	53	24	94.69	22.720
270969	75	88	103	2.54	53	24	93.14	24.470
280969	75	92	108	2.59	53	24	92.64	26.830
290969	73	95	116	2.63	53	23	91.97	29.750
300969	73	97	125	2.66	53	23	91.21	32.740
11069	73	97	135	2.66	53	23	91.21	48.450
21069	75	95	187	2.63	53	24	91.97	47.970
31069	75	90	190	2.56	53	24	93.38	46.170
41069	75	86	187	2.51	53	24	93.84	43.420
51069	73	84	180	2.48	53	23	94.54	40.820
61069	73	85	175	2.49	53	23	94.69	40.160
71069	73	92	175	2.59	53	23	92.64	43.470
81069	73	91	176	2.58	53	23	92.53	43.240
91069	75	89	178	2.55	53	24	93.26	42.770
101069	75	88	182	2.54	53	24	93.14	43.240
111069	75	89	182	2.55	53	24	93.26	43.730
121069	75	89	178	2.55	53	24	93.26	42.770
131069	75	88	174	2.54	53	24	93.14	41.340
141069	70	85	171	2.42	53	22	94.69	39.240
151069	70	80	167	2.42	53	22	95.88	36.070
161069	75	79	163	2.41	53	24	95.68	34.770
171069	70	77	157	2.38	53	22	96.30	32.640
181069	70	79	161	2.41	53	22	95.68	34.340
191069	70	83	165	2.47	53	22	94.37	36.980
201069	70	92	171	2.59	53	22	92.64	42.480
211069	70	107	183	2.79	53	22	89.02	52.870
221069	66	128	199	3.04	53	21	85.45	68.770
231069	66	149	216	3.27	53	21	82.51	86.900
241069	66	135	235	3.11	53	21	85.03	104.690
251069	64	177	255	3.65	53	21	79.39	121.680
261069	63	184	279	3.61	53	20	79.07	138.610
271069	63	186	291	3.63	53	20	78.80	146.140
281069	61	182	296	3.60	53	20	78.76	145.450
291069	61	173	291	3.51	53	20	79.89	135.930
301069	61	164	276	3.42	53	20	80.95	122.210
311069	61	156	274	3.34	53	20	81.82	115.410
11169	59	150	267	3.28	53	19	82.41	108.130
21169	59	144	262	3.21	53	19	83.63	101.870
31169	59	138	259	3.15	53	19	84.11	96.500
41169	57	132	252	3.08	53	19	85.23	89.810
51169	57	127	246	3.02	53	19	86.25	84.350
61169	57	121	234	2.95	53	19	87.27	76.450
71169	59	117	222	2.91	53	19	87.38	70.130
81169	59	113	207	2.86	53	19	88.23	63.160
91169	57	109	191	2.81	53	19	89.05	56.210
101169	57	107	175	2.79	53	19	89.02	50.560
111169	57	107	164	2.79	53	19	89.02	47.380
121169	59	108	153	2.80	53	19	89.03	44.610
131169	59	113	142	2.86	53	19	88.23	43.320
141169	57	115	136	2.88	53	19	88.21	42.240
151169	55	111	128	2.83	53	18	89.06	38.360
161169	57	108	126	2.80	53	19	89.03	36.740
171169	57	104	122	2.75	53	19	89.79	34.260

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
181169	55	99	120	2.68	53	18	91.33	32.080
191169	55	97	115	2.66	53	18	91.21	30.120
201169	54	96	113	2.64	53	18	92.05	29.290
211169	54	99	111	2.68	53	18	91.33	29.670
221169	54	107	112	2.75	53	18	89.02	32.360
231169	54	116	114	2.90	53	18	87.40	35.760
241169	54	123	116	2.98	53	18	86.43	38.520
251169	54	127	126	3.02	53	18	86.25	43.210
261169	54	131	152	3.07	53	18	85.29	53.760
271169	52	134	166	3.10	53	18	85.10	60.060
281169	50	137	175	3.14	53	17	84.18	64.730
291169	48	139	182	3.16	53	17	84.03	68.300
301169	52	139	186	3.16	53	18	84.03	69.810
11269	55	137	187	3.14	53	18	84.18	69.170
21269	54	136	186	3.13	53	18	84.25	68.300
31269	54	135	183	3.11	53	18	85.03	66.700
41269	54	133	180	3.09	53	18	85.17	64.640
51269	50	130	179	3.06	53	17	85.35	62.830
61269	48	130	178	3.06	53	17	85.35	62.490
71269	50	135	176	3.11	53	17	85.03	64.150
81269	48	135	175	3.11	53	17	85.03	63.790
91269	46	135	173	3.11	53	16	85.03	63.060
101269	46	134	171	3.10	53	16	85.10	61.870
111269	46	132	170	3.08	53	16	85.23	60.590
121269	46	131	165	3.07	53	16	85.29	58.360
131269	46	129	163	3.05	53	16	85.40	56.770
141269	45	128	158	3.04	53	16	85.45	54.600
151269	45	127	155	3.02	53	16	86.25	53.150
161269	46	126	151	3.01	53	16	86.30	51.370
171269	46	125	148	3.00	53	16	86.35	49.960
181269	46	124	145	2.99	53	16	86.39	48.550
191269	46	123	143	2.98	53	16	86.43	47.490
201269	46	121	146	2.95	53	16	87.27	47.750
211269	50	121	154	2.95	53	17	87.27	50.310
221269	46	121	163	2.95	53	16	87.27	53.250
231269	40	122	167	2.97	53	16	86.46	55.010
241269	46	123	181	2.98	53	16	86.43	60.110
251269	46	126	195	3.01	53	16	86.30	66.340
261269	46	130	209	3.06	53	16	85.35	73.360
271269	48	133	232	3.09	53	17	85.17	83.310
281269	48	134	257	3.10	53	17	85.10	92.940
291269	48	135	283	3.11	53	17	85.03	103.150
301269	43	141	299	3.18	53	15	83.88	113.830
311269	43	153	318	3.31	53	15	82.12	131.370
10170	43	157	322	3.28	53	15	36.35	136.500
20170	43	164	333	3.35	53	15	37.10	147.450
30170	43	177	342	3.48	53	15	38.40	163.440
40170	43	195	358	3.64	53	15	40.27	188.490
50170	43	210	378	3.77	53	15	41.72	214.330
60170	43	228	410	3.92	53	15	43.40	252.460
70170	43	244	480	4.05	53	15	44.80	316.220
80170	39	254	525	4.13	53	14	45.65	360.040
90170	41	263	555	4.20	53	15	46.40	394.110
100170	43	272	575	4.27	53	15	47.12	422.280
110170	43	280	590	4.33	53	15	47.77	446.040
120170	39	287	600	4.38	53	14	48.35	464.940
130170	39	291	615	4.41	53	14	48.66	483.210
140170	41	291	615	4.41	53	15	48.66	483.210
150170	43	285	612	4.37	53	15	48.14	470.930
160170	41	279	600	4.32	53	15	47.72	451.980
170170	39	269	585	4.25	53	14	46.85	424.890
180170	37	258	570	4.16	53	13	46.00	397.060
190170	39	245	552	4.06	53	14	44.87	365.150
200170	39	233	540	3.96	53	14	43.85	339.710
210170	37	218	525	3.84	53	13	42.44	309.790
220170	37	203	505	3.71	53	13	41.05	276.790
230170	36	192	475	3.61	53	13	40.01	246.240
240170	37	182	445	3.52	53	13	38.99	218.670
250170	37	174	435	3.45	53	13	38.11	190.270
260170	43	168	370	3.39	53	15	37.52	187.830
270170	43	163	330	3.34	53	15	37.00	145.230
280170	45	158	300	3.29	53	16	36.46	127.980
290170	45	153	282	3.24	53	16	35.91	116.490
300170	45	148	267	3.19	53	16	35.34	106.690
310170	45	144	253	3.15	53	16	34.86	98.370
10270	43	143	240	3.14	53	15	34.74	92.660
20270	43	142	234	3.13	53	15	34.62	89.720
30270	41	138	227	3.09	53	15	34.12	84.580
40270	39	137	220	3.08	53	14	34.00	81.380
50270	39	139	216	3.10	53	14	34.25	81.060
60270	45	145	215	3.16	53	16	34.98	84.170
70270	45	156	218	3.27	53	16	36.24	91.820
80270	45	173	224	3.44	53	16	38.02	104.630
90270	45	188	230	3.58	53	16	39.54	116.750
100270	43	200	242	3.69	53	15	40.69	130.680
110270	43	209	255	3.76	53	15	41.64	143.900
120270	43	218	265	3.84	53	15	42.44	155.980
130270	43	224	278	3.89	53	15	43.00	168.130
140270	43	229	287	3.93	53	15	43.46	177.450
150270	43	233	291	3.96	53	15	43.85	183.070
160270	43	234	294	3.97	53	15	43.92	185.750
170270	41	233	295	3.96	53	15	43.85	185.580
180270	41	234	296	3.97	53	15	43.92	187.010
190270	43	236	296	3.99	53	15	44.05	188.610
200270	41	239	300	4.01	53	15	44.37	193.590
210270	39	243	303	4.05	53	14	44.62	198.800
220270	39	247	310	4.08	53	14	44.99	206.740
230270	41	250	325	4.10	53	15	45.29	219.370
240270	39	251	343	4.11	53	14	45.35	232.450
250270	39	252	367	4.12	53	14	45.41	249.710
260270	39	252	410	4.12	53	14	45.41	278.960
270270	39	254	405	4.13	53	14	45.65	318.900
280270	43	256	540	4.15	53	15	45.76	373.250
290270	43	257	715	4.16	53	15	45.82	496.140

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
20370	43	258	770	4.16	53	15	46.00	536.380
40370	46	268	870	4.24	53	16	46.79	629.530
30370	45	262	825	4.19	53	16	46.34	583.600
50370	46	272	892	4.27	53	16	47.12	655.080
60370	46	273	905	4.28	53	16	47.18	667.080
70370	46	275	885	4.29	53	16	47.40	657.110
80370	46	275	864	4.29	53	16	47.40	641.520
90370	46	275	832	4.29	53	16	47.40	617.760
100370	46	275	765	4.29	53	16	47.40	568.010
110370	46	274	715	4.28	53	16	47.35	528.960
120370	50	274	670	4.28	53	17	47.35	495.670
130370	50	275	615	4.29	53	17	47.40	456.640
140370	46	278	560	4.31	53	16	47.67	420.340
150370	46	281	523	4.34	53	16	47.82	396.800
160370	46	285	498	4.37	53	16	48.14	383.210
170370	48	288	475	4.39	53	17	48.40	369.360
180370	48	291	462	4.41	53	17	48.66	362.990
190370	48	294	450	4.43	53	17	48.91	357.210
200370	48	296	440	4.45	53	17	49.01	351.650
210370	50	298	440	4.46	53	17	49.21	354.020
220370	46	300	445	4.47	53	16	49.42	360.450
230370	46	304	450	4.50	53	16	49.71	369.360
240370	46	304	455	4.50	53	16	49.71	373.460
250370	46	302	460	4.49	53	16	49.51	375.080
260370	48	300	465	4.47	53	17	49.42	376.650
270370	48	297	470	4.45	53	17	49.17	376.890
280370	48	296	470	4.45	53	17	49.01	375.620
290370	48	294	467	4.43	53	17	48.91	370.700
300370	48	292	490	4.42	53	17	48.70	370.550
310370	50	291	470	4.41	53	17	48.66	369.280
10470	54	291	465	4.41	53	18	48.66	365.350
20470	54	289	460	4.40	53	18	48.44	358.940
30470	52	288	454	4.39	53	18	48.40	353.030
40470	52	288	438	4.39	53	18	48.40	340.590
50470	52	288	426	4.39	53	18	48.40	331.260
60470	52	288	414	4.39	53	18	48.40	321.930
70470	52	288	400	4.39	53	18	48.40	311.040
80470	54	288	385	4.39	53	18	48.40	299.380
90470	55	291	370	4.41	53	18	48.66	290.710
100470	57	297	347	4.45	53	19	49.17	278.260
110470	55	304	325	4.50	53	18	49.71	266.760
120470	55	311	317	4.55	53	18	50.24	266.180
130470	55	318	313	4.60	53	18	50.76	268.740
140470	55	324	312	4.64	53	18	51.23	272.940
150470	55	328	312	4.67	53	18	51.50	276.310
160470	55	332	314	4.70	53	18	51.76	281.470
170470	55	336	319	4.72	53	18	52.14	289.400
180470	57	339	325	4.74	53	19	52.36	297.470
190470	57	342	338	4.76	53	19	52.58	312.110
200470	59	344	350	4.78	53	19	52.64	325.080
210470	63	344	364	4.78	53	20	52.64	338.080
220470	63	343	384	4.77	53	20	52.61	355.620
230470	64	343	411	4.77	53	21	52.61	380.630
240470	64	343	453	4.77	53	21	52.61	419.520
250470	63	344	512	4.78	53	20	52.64	475.550
260470	64	343	560	4.77	53	21	52.61	518.620
270470	64	344	635	4.78	53	21	52.64	589.790
280470	64	346	695	4.79	53	21	52.83	649.270
290470	66	353	755	4.84	53	21	53.28	719.590
300470	66	366	810	4.92	53	21	54.26	806.440
10570	64	379	845	5.00	53	21	55.20	864.690
20570	64	391	877	5.08	53	21	55.96	925.950
30570	63	400	890	5.13	53	20	56.63	961.230
40570	64	406	902	5.17	53	21	56.99	988.770
50570	64	410	918	5.20	53	21	57.19	16.230
60570	64	416	907	5.23	53	21	57.66	19.740
70570	66	420	880	5.26	53	21	57.85	997.920
80570	66	424	837	5.28	53	21	58.16	958.200
90570	66	426	770	5.29	53	21	58.31	865.650
100570	68	429	665	5.31	53	22	58.48	770.270
110570	68	434	560	5.34	53	22	58.80	656.210
120570	70	437	484	5.36	53	22	58.96	571.070
130570	70	440	453	5.37	53	22	59.24	538.160
140570	72	442	421	5.39	53	23	59.27	502.420
150570	72	445	390	5.40	53	23	59.55	468.580
160570	70	447	368	5.41	53	22	59.69	444.140
170570	68	449	347	5.43	53	22	59.72	420.670
180570	70	450	336	5.43	53	22	59.85	409.240
190570	70	450	333	5.43	53	22	59.85	404.590
200570	72	450	327	5.43	53	23	59.85	397.300
210570	72	448	330	5.42	53	23	59.71	399.170
220570	73	445	335	5.40	53	23	59.55	402.500
230570	73	442	355	5.39	53	23	59.27	423.660
240570	75	438	365	5.36	53	24	59.09	431.650
250570	73	433	370	5.33	53	23	58.78	432.570
260570	73	427	367	5.30	53	23	58.33	423.110
270570	73	422	365	5.27	53	23	58.01	415.880
280570	73	416	352	5.23	53	23	57.66	395.170
290570	75	410	339	5.20	53	24	57.19	375.270
300570	75	403	316	5.15	53	24	56.81	343.840
310570	72	395	292	5.10	53	23	56.29	311.420
10670	73	386	282	5.05	53	23	55.61	293.900
20670	73	376	270	4.98	53	23	55.00	274.100
30670	72	363	275	4.90	53	23	54.05	269.530
40670	73	346	282	4.79	53	23	52.83	263.440
50670	73	330	294	4.68	53	23	51.69	261.950
60670	73	316	316	4.59	53	23	50.56	269.610
70670	73	304	338	4.50	53	23	49.71	277.430
80670	75	293	350	4.42	53	24	48.87	276.880
90670	73	283	362	4.35	53	23	48.04	276.600
100670	75	278	374	4.31	53	24	47.67	280.720
110670	75	276	374	4.30	53	24	47.45	279.700
120670	77	277	375	4.31	53	24	47.50	280.460
130670	77	279	375	4.32	53	24	47.72	282.490

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
140670	77	281	376	4.34	53	24	47.82	285.270
150670	77	281	374	4.34	53	24	47.82	283.750
160670	79	281	368	4.34	53	25	47.82	379.200
170670	79	279	362	4.32	53	25	47.72	272.690
180670	79	275	356	4.29	53	25	47.40	264.330
190670	79	269	350	4.25	53	25	46.85	254.200
200670	79	262	345	4.19	53	25	46.34	244.050
210670	79	259	341	4.17	53	25	46.06	238.460
220670	79	257	338	4.16	53	25	45.82	234.540
230670	79	257	336	4.16	53	25	45.82	233.150
240670	79	257	334	4.16	53	25	45.82	231.760
250670	81	258	333	4.16	53	25	46.00	231.970
260670	81	256	331	4.15	53	25	45.76	228.790
270670	81	254	330	4.13	53	25	45.65	226.310
280670	81	251	328	4.11	53	25	45.35	222.290
290670	81	248	327	4.08	53	25	45.17	218.960
300670	81	244	324	4.05	53	25	44.80	213.450
10770	81	239	322	4.01	53	25	44.37	207.790
20770	81	235	322	3.98	53	25	43.99	204.310
30770	81	228	321	3.92	53	25	43.40	197.610
40770	82	219	317	3.85	53	25	42.52	187.440
50770	81	209	312	3.76	53	25	41.64	175.220
60770	82	197	308	3.66	53	25	40.44	163.830
70770	82	184	304	3.54	53	25	39.18	151.030
80770	82	172	300	3.43	53	25	37.92	139.320
90770	82	161	294	3.32	53	25	36.79	127.800
100770	82	152	285	3.23	53	25	35.80	116.960
110770	82	145	278	3.16	53	25	34.98	108.840
120770	82	136	272	3.06	53	25	33.99	101.350
130770	82	132	262	3.02	53	25	33.47	93.380
140770	82	121	252	2.90	53	25	32.08	86.410
150770	82	123	242	2.92	53	25	32.37	80.370
160770	82	119	222	2.87	53	25	31.91	71.330
170770	82	116	211	2.84	53	25	31.47	66.090
180770	82	111	196	2.78	53	25	30.83	58.740
190770	84	108	186	2.74	53	26	30.48	54.240
200770	84	105	181	2.71	53	26	29.99	51.310
210770	82	105	176	2.71	53	25	29.99	49.900
220770	82	105	170	2.71	53	25	29.99	48.190
230770	79	102	160	2.67	53	25	29.62	44.000
240770	79	100	151	2.65	53	25	29.28	40.770
250770	79	98	145	2.62	53	25	29.05	38.370
260770	79	97	141	2.61	53	25	28.88	36.930
270770	81	98	138	2.62	53	25	29.05	36.510
280770	81	98	137	2.62	53	25	29.05	36.250
290770	81	97	132	2.61	53	25	28.88	34.570
300770	81	95	131	2.58	53	25	28.65	33.600
310770	81	94	129	2.57	53	25	28.47	32.740
10870	84	92	129	2.54	53	26	28.22	32.040
20870	84	89	124	2.50	53	26	27.78	29.800
30870	84	89	124	2.50	53	26	27.78	29.800
40870	84	88	122	2.49	53	26	27.69	28.990
50870	84	85	120	2.46	53	26	27.13	27.540
60870	84	84	119	2.43	53	26	27.05	26.990
70870	84	83	118	2.42	53	26	26.85	26.440
80870	84	84	117	2.43	53	26	27.05	26.540
90870	84	86	119	2.46	53	26	27.33	27.630
100870	84	89	122	2.50	53	26	27.78	29.320
110870	84	92	123	2.54	53	26	28.22	30.550
120870	84	95	127	2.58	53	26	28.65	32.580
130870	86	100	131	2.65	53	26	29.28	35.370
140870	86	106	137	2.72	53	26	30.16	39.210
150870	84	113	142	2.80	53	26	31.14	43.320
160870	86	119	155	2.87	53	26	31.91	49.800
170870	82	124	162	2.93	53	25	32.51	54.240
180870	82	130	174	3.00	53	25	33.21	61.070
190870	82	134	180	3.04	53	25	33.73	65.120
200870	81	135	190	3.05	53	25	33.86	69.250
210870	81	134	194	3.04	53	25	33.73	70.190
220870	81	129	192	2.99	53	25	33.07	66.870
230870	81	123	180	2.92	53	25	32.37	59.780
240870	81	116	171	2.84	53	25	31.47	53.560
250870	81	109	160	2.76	53	25	30.52	47.090
260870	81	107	153	2.73	53	25	30.32	44.200
270870	81	108	154	2.74	53	25	30.48	44.910
280870	81	109	155	2.76	53	25	30.52	45.620
290870	81	110	153	2.77	53	25	30.68	45.440
300870	81	110	152	2.77	53	25	30.68	45.140
310870	81	109	151	2.76	53	25	30.52	44.440
10970	81	108	151	2.74	53	25	30.48	44.030
20970	81	105	146	2.71	53	25	29.99	41.390
30970	81	101	140	2.66	53	25	29.45	38.180
40970	81	97	137	2.61	53	25	28.88	35.880
50970	81	92	130	2.54	53	25	28.22	32.290
60970	81	86	127	2.46	53	25	27.33	29.490
70970	81	82	121	2.41	53	25	26.65	26.790
80970	81	78	119	2.35	53	25	26.06	25.060
90970	81	76	113	2.32	53	25	25.76	23.190
100970	81	75	104	2.30	53	25	25.66	21.060
110970	81	75	99	2.30	53	25	25.66	20.050
120970	81	77	96	2.33	53	25	25.97	19.960
130970	81	79	94	2.36	53	25	26.27	20.050
140970	81	79	96	2.36	53	25	26.27	20.480
150970	81	79	99	2.36	53	25	26.27	21.120
160970	81	80	106	2.38	53	25	26.36	22.900
170970	81	78	111	2.35	53	25	26.06	23.380
180970	81	76	114	2.32	53	25	25.76	23.390
190970	81	74	114	2.29	53	25	25.44	22.780
200970	81	74	114	2.29	53	25	25.44	22.780
210970	81	74	119	2.29	53	25	25.44	23.780
220970	81	78	124	2.35	53	25	26.06	26.110
230970	79	85	129	2.45	53	25	27.13	29.610
240970	81	91	134	2.53	53	25	28.04	32.920
250970	81	95	142	2.58	53	25	28.65	36.420

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
260970	79	101	155	2.66	53	25	29.45	42.270
270970	79	109	164	2.76	53	25	30.52	48.270
280970	79	118	179	2.86	53	25	31.77	57.030
290970	79	126	187	2.95	53	25	32.78	63.620
300970	75	132	194	3.02	53	24	33.47	69.140
11070	82	140	261	3.11	53	25	34.37	98.660
21070	82	149	302	3.20	53	25	35.45	121.490
31070	82	160	342	3.31	53	25	36.68	147.740
41070	82	172	396	3.43	53	25	37.92	183.900
51070	82	183	433	3.53	53	25	39.09	213.950
61070	81	192	468	3.61	53	25	40.01	242.610
71070	75	197	487	3.66	53	24	40.44	259.040
81070	75	197	463	3.66	53	24	40.44	246.270
91070	73	193	469	3.62	53	23	40.10	244.400
101070	73	183	446	3.53	53	23	39.09	220.370
111070	73	174	435	3.45	53	23	38.11	204.360
121070	73	173	438	3.44	53	23	38.02	204.590
131070	72	174	446	3.45	53	23	38.11	209.530
141070	72	171	446	3.42	53	23	37.82	205.920
151070	72	165	441	3.36	53	23	37.21	196.470
161070	68	159	425	3.30	53	22	36.57	182.450
171070	68	154	395	3.25	53	22	36.02	164.240
181070	68	152	382	3.23	53	22	35.80	156.770
191070	68	157	387	3.28	53	22	36.35	164.050
201070	68	168	405	3.39	53	22	37.52	183.710
211070	66	178	423	3.49	53	21	38.50	203.290
221070	66	186	440	3.56	53	21	39.36	220.970
231070	66	190	456	3.60	53	21	39.72	231.930
241070	66	190	448	3.60	53	21	39.72	229.820
251070	66	187	441	3.57	53	21	39.45	222.660
261070	66	181	423	3.51	53	21	38.90	206.720
271070	64	175	397	3.46	53	21	38.21	187.590
281070	64	171	377	3.42	53	21	37.82	174.060
291070	64	169	362	3.40	53	21	37.62	165.180
301070	64	168	349	3.39	53	21	37.52	158.310
311070	64	172	344	3.43	53	21	37.92	159.750
11170	64	180	356	3.50	53	21	38.81	173.020
21170	64	187	362	3.57	53	21	39.45	182.770
31170	63	189	360	3.59	53	20	39.63	183.710
41170	63	189	359	3.59	53	20	39.63	183.200
51170	63	186	350	3.56	53	20	39.36	175.770
61170	63	184	338	3.54	53	20	39.18	167.920
71170	63	183	333	3.53	53	20	39.09	164.540
81170	63	183	334	3.53	53	20	39.09	165.030
91170	61	184	338	3.54	53	20	39.18	167.920
101170	61	183	331	3.53	53	20	39.09	163.550
111170	61	181	308	3.51	53	20	38.90	150.520
121170	61	180	301	3.50	53	20	38.81	146.290
131170	59	182	295	3.52	53	19	38.99	144.960
141170	59	189	300	3.59	53	19	39.63	153.090
151170	57	193	299	3.62	53	19	40.10	155.810
161170	57	194	290	3.63	53	19	40.18	151.900
171170	55	195	278	3.64	53	18	40.27	146.370
181170	57	196	267	3.65	53	19	40.35	141.300
191170	57	197	259	3.66	53	19	40.44	137.760
201170	55	197	253	3.66	53	18	40.44	134.570
211170	57	194	241	3.63	53	19	40.18	126.240
221170	57	190	231	3.60	53	19	39.72	118.500
231170	55	185	221	3.55	53	18	39.27	110.390
241170	54	181	219	3.51	53	18	38.90	107.030
251170	55	178	219	3.49	53	18	38.50	105.250
261170	54	175	224	3.46	53	18	38.21	105.840
271170	54	173	226	3.44	53	18	38.02	105.560
281170	54	171	224	3.42	53	18	37.82	103.420
291170	54	170	218	3.41	53	18	37.72	100.060
301170	54	170	206	3.41	53	18	37.72	94.550
11270	54	171	195	3.42	53	18	37.82	90.030
21270	52	171	181	3.42	53	18	37.82	83.570
31270	54	169	170	3.40	53	18	37.62	77.570
41270	54	166	161	3.37	53	18	37.31	72.160
51270	54	161	154	3.32	53	18	36.79	66.940
61270	54	156	150	3.27	53	18	36.24	63.180
71270	52	149	148	3.20	53	18	35.45	59.540
81270	52	141	140	3.12	53	18	34.50	53.300
91270	54	133	138	3.03	53	18	33.60	49.560
101270	54	126	136	2.95	53	18	32.78	46.270
111270	54	122	136	2.91	53	18	32.23	44.800
121270	54	118	136	2.86	53	18	31.77	43.330
131270	54	116	136	2.84	53	18	31.47	42.600
141270	52	116	139	2.84	53	18	31.47	43.530
151270	52	117	141	2.85	53	18	31.62	44.540
161270	54	119	145	2.87	53	18	31.91	46.590
171270	54	120	149	2.89	53	18	31.94	48.280
181270	54	120	153	2.89	53	18	31.94	49.570
191270	54	120	159	2.89	53	18	31.94	51.520
201270	54	121	160	2.90	53	18	32.08	52.270
211270	54	123	160	2.92	53	18	32.37	53.140
221270	54	128	162	2.98	53	18	32.94	55.990
231270	52	139	168	3.10	53	18	34.25	63.050
241270	52	150	174	3.21	53	18	35.57	70.470
251270	52	159	185	3.30	53	18	36.57	79.420
261270	50	164	196	3.39	53	17	37.52	88.910
271270	50	177	213	3.48	53	17	38.40	101.790
281270	52	187	230	3.57	53	18	39.45	116.130
291270	52	198	258	3.67	53	18	40.52	137.930
301270	50	208	292	3.76	53	17	41.45	163.990
10171	43	244	356	3.90	53	15	60.48	234.530
20171	43	246	370	3.91	53	15	64.93	245.750
30171	43	246	392	3.91	53	15	64.93	260.370
40171	43	242	402	3.88	53	15	64.32	265.920
50171	43	242	403	3.88	53	15	64.32	263.320
60171	43	243	402	3.89	53	15	62.38	263.750
70171	42	245	401	3.91	53	15	58.64	265.260
80171	41	245	393	3.91	53	15	58.64	252.210

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
90171	40	242	386	3.88	53	14	64.32	252.210
100171	40	238	385	3.85	53	14	63.49	247.400
110171	41	235	382	3.83	53	15	60.62	242.380
120171	41	232	376	3.81	53	15	57.72	235.530
130171	41	230	364	3.79	53	15	61.12	226.040
140171	41	229	362	3.78	53	15	62.89	223.820
150171	42	230	359	3.79	53	15	61.12	222.940
160171	41	230	351	3.79	53	15	61.12	217.970
170171	42	230	343	3.79	53	15	61.12	213.000
180171	44	231	333	3.80	53	16	59.40	207.690
190171	41	235	333	3.83	53	15	60.62	211.290
200171	41	238	331	3.85	53	15	63.49	212.700
210171	41	239	333	3.86	53	15	61.61	214.880
220171	41	238	331	3.85	53	15	63.49	212.700
230171	41	231	333	3.80	53	15	59.40	207.690
240171	42	226	335	3.76	53	15	59.59	204.420
250171	42	224	343	3.75	53	15	54.80	207.450
260171	42	225	353	3.75	53	15	61.26	214.450
270171	41	225	358	3.75	53	15	61.26	217.480
280171	41	222	351	3.73	53	15	57.84	210.390
290171	42	220	342	3.71	53	15	61.00	203.150
300171	43	170	332	3.29	53	15	50.03	194.520
310171	43	214	320	3.67	53	15	53.70	184.900
10271	43	209	309	3.62	53	15	60.68	174.370
20271	42	204	302	3.58	53	15	59.03	166.340
30271	42	194	294	3.50	53	15	54.42	154.000
40271	45	187	289	3.44	53	16	53.36	145.920
50271	44	183	282	3.40	53	16	57.10	139.340
60271	44	183	278	3.40	53	16	57.10	137.360
70271	44	183	280	3.40	53	16	57.10	138.350
80271	42	181	281	3.39	53	15	50.56	137.320
90271	41	179	278	3.37	53	15	52.10	134.360
100271	41	175	270	3.33	53	15	55.09	127.570
110271	42	171	264	3.30	53	15	49.48	121.890
120271	43	172	263	3.31	53	15	48.91	122.140
130271	40	178	266	3.36	53	14	52.86	127.840
140271	40	185	277	3.42	53	14	55.23	138.360
150271	40	199	294	3.54	53	14	56.94	157.950
160271	40	216	320	3.68	53	14	58.81	186.620
170271	42	233	345	3.82	53	15	56.08	217.040
180271	42	248	376	3.93	53	15	60.97	251.770
190271	42	260	397	4.02	53	15	61.21	278.690
200271	42	269	414	4.08	53	15	66.33	300.690
210271	43	276	422	4.13	53	15	66.92	318.950
220271	42	282	441	4.17	53	15	69.40	335.780
230271	44	287	472	4.21	53	16	65.56	365.750
240271	45	289	497	4.22	53	16	68.93	387.810
250271	45	297	528	4.28	53	16	65.47	423.400
260271	46	316	573	4.41	53	16	65.10	488.880
270271	46	332	630	4.51	53	16	69.74	564.730
280271	46	349	654	4.62	53	16	69.42	616.260
10371	46	349	654	4.62	53	16	69.42	616.260
20371	47	365	714	4.72	53	16	69.92	703.650
30371	46	384	805	4.83	53	16	75.03	834.620
40371	42	398	892	4.91	53	15	78.18	958.540
50371	46	399	950	4.92	53	16	74.88	23.430
60371	46	400	0	4.92	53	16	79.71	80.000
70371	46	402	37	4.93	53	16	81.25	125.560
80371	46	402	58	4.93	53	16	81.25	148.350
90371	46	402	65	4.93	53	16	81.25	155.950
100371	46	401	64	4.93	53	16	76.35	151.990
110371	46	400	62	4.92	53	16	79.71	146.960
120371	50	402	56	4.93	53	17	81.25	146.180
130371	50	403	45	4.94	53	17	77.81	137.060
140371	64	404	969	4.95	53	21	74.52	56.990
150371	64	405	936	4.95	53	21	79.27	23.520
160371	64	404	973	4.95	53	21	74.52	61.350
170371	64	403	945	4.94	53	21	77.81	28.250
180371	64	402	910	4.93	53	21	81.25	987.710
190371	64	404	878	4.95	53	21	74.52	957.720
200371	61	403	851	4.94	53	20	77.81	925.970
210371	64	399	820	4.92	53	21	74.88	883.390
220371	66	396	786	4.90	53	21	76.64	840.390
230371	66	391	762	4.87	53	21	76.76	804.440
240371	68	385	713	4.84	53	22	71.91	741.160
250371	68	378	672	4.79	53	22	78.00	685.440
260371	66	373	647	4.76	53	21	77.52	651.590
270371	66	368	620	4.73	53	21	76.85	616.030
280371	64	360	595	4.68	53	21	77.09	578.340
290371	64	352	559	4.64	53	21	68.69	531.270
300371	63	344	560	4.59	53	20	67.91	520.130
310371	64	334	530	4.52	53	21	72.23	477.950
10471	54	324	500	4.46	53	18	67.68	437.400
20471	54	315	465	4.40	53	18	67.68	395.440
30471	52	307	435	4.35	53	18	64.45	360.570
40471	52	299	406	4.29	53	18	68.58	327.760
50471	52	292	372	4.24	53	18	69.79	293.260
60471	53	283	339	4.18	53	18	66.94	259.030
70471	52	273	336	4.11	53	18	65.54	247.670
80471	54	263	322	4.04	53	18	63.00	224.650
90471	55	254	308	3.97	53	18	65.46	211.230
100471	57	249	300	3.94	53	19	59.08	201.690
110471	55	245	287	3.91	53	18	58.64	189.350
120471	55	242	278	3.88	53	18	64.32	181.650
130471	55	238	268	3.85	53	18	63.49	172.220
140471	55	236	262	3.84	53	18	58.86	166.950
150471	55	229	251	3.78	53	18	62.89	155.190
160471	55	223	243	3.74	53	18	56.30	146.310
170471	55	216	236	3.68	53	18	58.81	137.640
180471	57	209	230	3.62	53	19	60.64	129.790
190471	57	202	224	3.57	53	19	53.37	122.170
200471	59	195	216	3.51	53	19	53.35	113.720
210471	63	191	213	3.47	53	20	57.67	109.840
220471	62	187	209	3.44	53	20	53.36	105.520
230471	64	184	210	3.41	53	21	56.16	104.330

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DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
240471	64	183	210	3.40	53	21	57.10	103.760
250471	64	180	215	3.38	53	21	51.33	104.490
260471	65	199	219	3.54	53	21	56.94	105.840
270471	66	177	225	3.35	53	21	53.61	107.530
280471	66	174	228	3.32	53	21	55.82	107.110
290471	68	176	223	3.34	53	22	54.35	110.720
300471	68	177	237	3.35	53	22	53.61	113.260
10571	67	177	240	3.35	53	21	53.61	114.700
20571	67	176	246	3.34	53	21	54.35	116.900
30571	68	176	247	3.34	53	22	54.35	117.370
40571	68	175	249	3.33	53	22	55.09	117.650
50571	68	175	251	3.33	53	22	55.09	118.600
60571	68	173	252	3.32	53	22	48.33	117.710
70571	68	173	255	3.32	53	22	48.33	199.110
80571	69	174	258	3.32	53	22	55.82	121.210
90571	68	175	259	3.33	53	22	55.09	122.380
100571	69	175	260	3.33	53	22	55.09	122.850
110571	70	177	261	3.35	53	22	53.61	124.730
110571	70	177	261	3.35	53	22	53.61	124.730
120571	70	191	269	3.47	53	22	57.67	138.720
130571	69	207	288	3.61	53	22	55.09	160.960
140571	69	213	306	3.66	53	22	55.05	175.980
150571	68	219	325	3.71	53	22	54.44	192.170
160571	68	229	355	3.78	53	22	62.89	219.500
170571	69	240	390	3.87	53	22	59.78	252.720
180571	69	249	430	3.94	53	22	59.08	289.090
190571	70	263	460	4.04	53	22	63.00	326.650
200571	70	277	490	4.14	53	22	64.60	366.470
210571	69	288	511	4.22	53	22	63.21	397.350
220571	70	292	549	4.24	53	22	69.79	432.830
230571	71	296	562	4.27	53	22	67.96	449.150
240571	71	296	559	4.27	53	22	67.96	446.750
250571	71	296	551	4.27	53	22	67.96	440.360
260571	72	292	530	4.24	53	23	69.79	417.850
270571	72	288	505	4.22	53	23	63.21	392.690
280571	73	281	478	4.17	53	23	63.51	362.660
290571	73	275	443	4.13	53	23	61.12	328.930
300571	72	267	403	4.07	53	23	62.53	290.520
310571	72	257	361	4.00	53	23	59.35	250.500
10671	73	247	312	3.92	53	23	62.92	208.070
20671	73	236	271	3.84	53	23	58.86	172.680
30671	73	221	242	3.72	53	23	59.40	144.400
40671	74	207	206	3.61	53	23	55.09	115.130
50671	73	200	192	3.55	53	23	55.73	103.680
60671	73	192	189	3.48	53	23	56.58	97.980
70671	74	186	187	3.43	53	23	54.29	93.910
80671	74	180	184	3.38	53	23	51.33	89.420
90671	78	177	178	3.35	53	24	53.61	85.070
100671	76	175	177	3.33	53	24	53.09	83.630
110671	76	173	176	3.32	53	24	48.33	82.210
120671	77	171	176	3.30	53	24	49.48	81.260
130671	77	168	185	3.27	53	24	51.11	83.920
140671	79	167	196	3.26	53	25	51.62	88.380
150671	80	166	210	3.25	53	25	52.12	94.120
160671	79	167	237	3.26	53	25	51.62	106.860
170671	79	166	249	3.25	53	25	52.12	111.600
180671	79	163	254	3.22	53	25	53.51	111.790
190671	79	159	254	3.19	53	25	46.78	109.040
200671	79	155	252	3.15	53	25	47.69	105.460
210671	82	153	250	3.13	53	25	48.00	103.270
220671	82	153	251	3.13	53	25	48.00	103.690
230671	82	156	263	3.16	53	25	47.49	110.780
240671	82	160	273	3.20	53	25	46.50	117.940
250671	82	164	285	3.23	53	25	53.06	126.200
260671	83	167	288	3.26	53	25	51.62	129.860
270671	83	168	288	3.27	53	25	51.11	130.640
280671	83	167	282	3.26	53	25	51.62	127.150
290671	84	164	273	3.23	53	26	53.06	120.880
300671	84	158	264	3.18	53	26	47.04	112.620
10771	84	153	253	3.13	53	26	48.00	104.510
20771	84	148	240	3.08	53	26	48.32	95.900
30771	84	144	227	3.04	53	26	48.07	88.260
40771	84	140	220	3.00	53	26	47.33	83.160
50771	81	137	212	2.97	53	25	46.44	78.420
60771	82	134	213	2.94	53	25	45.27	77.060
70771	82	132	204	2.92	53	25	44.33	72.710
80771	82	129	200	2.89	53	25	42.69	69.660
90771	86	125	199	2.84	53	26	48.13	67.160
100771	82	122	192	2.81	53	25	45.55	63.240
110771	82	118	183	2.77	53	25	41.72	58.300
120771	87	113	174	2.71	53	26	44.13	53.090
130771	87	109	169	2.67	53	26	38.84	49.740
140771	87	105	163	2.62	53	26	40.77	46.210
150771	88	101	158	2.57	53	27	42.05	43.090
160771	88	98	153	2.54	53	27	36.44	40.480
170771	88	96	153	2.51	53	27	40.36	39.660
180771	88	97	158	2.52	53	27	42.53	41.380
190771	88	100	165	2.56	53	27	40.15	44.550
200771	87	105	178	2.62	53	26	40.77	50.460
210771	86	110	189	2.68	53	26	40.18	56.130
220771	86	114	202	2.72	53	26	45.42	62.180
230771	85	119	213	2.78	53	26	42.71	68.440
240771	84	123	225	2.82	53	26	46.44	74.720
250771	79	125	229	2.84	53	25	48.13	77.290
260771	79	127	240	2.87	53	25	41.44	82.300
270771	81	130	267	2.90	53	25	43.26	93.720
280771	81	142	289	3.02	53	25	47.76	110.800
290771	82	156	316	3.16	53	25	47.49	133.100
300771	81	162	332	3.21	53	25	53.93	145.220
310771	81	166	353	3.25	53	25	52.12	158.210
10871	84	167	368	3.26	53	26	51.62	165.930
20871	84	166	383	3.25	53	26	52.12	171.660
30871	84	163	393	3.22	53	26	53.51	172.960
40871	84	158	396	3.18	53	26	47.04	168.930

SIMMESPORT

DATE	TM F	DIS CFS 1000	SED PPM	VEL F/S	SLP 10-7	SVEL F/S 10-3	DEP FT	TSED T/D 1000
50871	84	155	396	3.15	53	26	47.69	165.730
60871	84	152	392	3.12	53	26	48.11	160.880
70871	84	151	379	3.11	53	26	48.21	154.520
80871	84	151	375	3.11	53	26	48.21	152.890
90871	84	154	377	3.14	53	26	47.85	156.760
100871	84	157	382	3.17	53	26	47.28	161.930
110871	83	159	393	3.19	53	25	46.78	168.710
120871	84	161	400	3.20	53	26	54.33	173.880
130871	86	161	415	3.20	53	26	54.33	180.400
140871	86	163	425	3.22	53	26	53.51	187.040
150871	84	164	426	3.23	53	26	53.06	188.630
160871	86	166	427	3.25	53	26	52.12	191.390
170871	82	165	421	3.24	53	25	52.60	187.560
180871	82	162	408	3.21	53	25	53.93	178.660
190871	82	156	386	3.16	53	25	47.49	162.540
200871	81	149	352	3.09	53	25	48.31	141.410
210871	81	137	324	2.97	53	25	46.44	119.850
220871	81	126	292	2.86	53	25	40.78	99.340
230871	81	117	262	2.76	53	25	40.70	82.770
240871	81	108	234	2.65	53	25	45.61	68.230
250871	81	103	213	2.60	53	25	37.54	59.240
260871	81	99	192	2.55	53	25	38.28	51.320
270871	85	97	180	2.52	53	26	42.53	47.140
280871	81	96	171	2.51	53	25	40.36	44.320
290871	81	96	171	2.51	53	25	40.36	44.320
300871	81	98	171	2.54	53	25	36.44	45.250
310871	81	99	174	2.55	53	25	38.28	46.510
10971	81	100	178	2.56	53	25	40.15	48.060
20971	81	101	180	2.57	53	25	42.05	49.090
30971	81	103	181	2.60	53	25	37.54	50.340
40971	81	105	178	2.62	53	25	40.77	50.460
50971	81	107	172	2.64	53	25	44.00	49.690
60971	81	106	164	2.63	53	25	42.38	46.940
70971	81	103	150	2.60	53	25	37.54	41.710
80971	81	99	135	2.55	53	25	38.28	36.090
90971	81	93	118	2.47	53	25	42.09	29.630
100971	83	89	112	2.42	53	25	40.61	26.910
110971	81	90	112	2.44	53	25	35.00	27.220
120971	81	91	113	2.45	53	25	37.29	27.760
130971	81	92	116	2.46	53	25	39.65	28.610
140971	81	92	123	2.46	53	25	39.65	30.550
150971	81	94	132	2.49	53	25	36.15	33.500
160971	81	102	143	2.58	53	25	43.96	39.380
170971	81	106	151	2.63	53	25	42.38	43.220
180971	81	101	153	2.57	53	25	42.05	41.720
190971	81	98	152	2.54	53	25	36.44	40.220
200971	81	98	151	2.54	53	25	36.44	39.350
210971	81	97	150	2.52	53	25	42.53	39.240
220971	81	97	152	2.52	53	25	42.53	39.810
230971	79	99	156	2.55	53	25	38.28	41.760
240971	81	102	166	2.58	53	25	43.96	45.720
250971	81	105	178	2.62	53	25	40.77	50.460
260971	79	109	191	2.67	53	25	38.84	56.210
270971	77	112	197	2.70	53	24	42.83	59.570
280971	79	112	201	2.70	53	25	42.83	60.780
290971	79	110	203	2.68	53	25	40.18	60.290
300971	75	109	203	2.67	53	24	38.84	59.740
151071	72	76	230	2.25	53	23	34.60	47.192
41171	69	104	244	2.61	53	22	39.15	68.972
191171	60	113	189	2.71	53	20	44.13	57.948
71271	50	187	938	3.44	53	17	53.36	979.300
301271	52	307	746	4.35	53	18	64.45	619.790
140172	48	325	540	4.46	53	17	73.10	475.158
30272	45	275	471	4.13	53	16	61.12	350.555
40272	41	499	313	5.46	53	15	89.27	422.527
180272	42	382	339	4.82	53	15	73.34	350.972
160372	48	693	616	6.38	53	17	99.98	153.716
290372	54	274	576	4.12	53	18	63.29	426.602
310372	53	274	356	4.12	53	18	63.29	264.575
130472	57	451	446	5.21	53	19	81.49	543.523
140472	58	217	220	3.69	53	19	57.33	129.315
270472	63	682	399	6.33	53	20	100.89	735.737
280472	63	327	506	4.48	53	20	67.53	448.124
150572	66	408	322	4.97	53	21	77.31	354.864
160572	66	798	259	6.82	53	21	106.05	558.534
310572	75	277	277	4.14	53	24	64.60	207.985
150672	80	127	267	2.87	53	25	41.44	92.081
160672	80	248	349	3.93	53	25	60.97	234.024
290672	82	300	250	4.30	53	25	66.06	211.000
300672	82	149	233	3.09	53	25	48.31	93.902
130772	79	426	341	5.07	53	25	80.73	392.570
270772	84	315	255	4.40	53	26	67.68	216.858
280772	85	135	201	2.95	53	26	45.69	73.435
90872	85	302	408	4.31	53	26	69.12	332.652
100872	85	151	235	3.11	53	26	48.21	91.230
240872	84	301	333	4.31	53	26	63.62	270.820
80972	84	112	240	2.70	53	26	42.03	72.969
210972	81	243	176	3.89	53	25	62.38	115.777
220972	81	108	281	2.65	53	25	45.61	82.338
61072	75	126	253	2.86	53	24	40.78	85.960
191072	71	322	238	4.44	53	22	73.23	207.746
201072	70	145	233	3.05	53	22	48.18	91.839
31172	62	165	205	3.24	53	20	52.60	91.437
21172	61	302	276	4.31	53	20	69.12	224.994
171172	54	328	628	4.48	53	19	72.88	556.956