

OPERATIONAL ANALYSIS OF A FLOOD IN THE LOWER
KISSIMMEE RIVER BASIN

Prepared by the Engineering Department
Central and Southern Florida Flood Control District

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1. INTRODUCTION

1.1 General Background

The Central and Southern Florida Flood Control District is responsible for the management and operation of a water resource system which extends over eighteen counties of the State of Florida and covers approximately 16,000 square miles in area. One of the major natural drainage areas within the District boundaries is the Kissimmee River - Lake Okeechobee - Everglades system, which includes a range of land use from the sprawl of cities to the wilderness of the Everglades. Inevitably, varieties of competing interests concerned with water and water-related problems tend to exert pressure on the management of the District water resource system.

Initial emphasis on Project works was flood control. To ensure it the Corps of Engineers in consultation with the Flood Control District improved channels and built control structures where necessary to serve flood control objectives. Some of the recent construction in the lower Kissimmee River Basin has already been subjected to the tests of nature under high flow conditions. In the early part of October 1969 a flood event in the lower Kissimmee River Basin occurred which caused considerable damage to Project facilities; i.e., the rip-rap channel protection downstream of several of the gated spillways. Consequently, analyses of the flood were made to find out the probable causes of damage and make recommendations to prevent such occurrences in the future. However, before going into the details of analysis, it is desirable to briefly describe the physical system itself.

1.2 Physical System

The Kissimmee River Basin (Figure 1) of the Kissimmee River - Lake Okeechobee - Everglades system is located in central Florida and includes most of Osceola and Okeechobee and parts of Orange, Polk, and Highlands Counties. It is bounded on the north by the lakes of the Orlando area, on the west by the Peace River watershed, on the south by Lake Okeechobee and the Lake Istokpoga - Indian Prairie area, and on the east by the Upper St. Johns River Basin.

The entire Kissimmee River Basin is approximately 3,000 square miles in area and it may be broadly divided into two parts: the upper basin and the lower basin. The upper basin consists of the lakes portion of the drainage area north of and including Lake Kissimmee, and totals approximately 1,600 square miles in area. The lower basin consists of the drainage area of the Kissimmee River itself and the Lake Istokpoga drainage, for a total of approximately 1,400 square miles. The study area, the lower Kissimmee River Basin, is described below in some detail.

The lower Kissimmee River Basin, excluding the Lake Istokpoga area, between the outlet of Lake Kissimmee and Lake Okeechobee, has a drainage area of 758 square miles. The easterly divide separating that basin from the Upper St. Johns River Basin is low and poorly defined with ground elevations up to 75 ft. msl. For the most part, the westerly divide is a well-defined ridge with elevations ranging up to 130 feet. The main natural channel of the river meanders extremely. The straight line distance between Lake Kissimmee and Lake Okeechobee is about 52 miles, but the actual river distance is about 90 miles, with a total fall of about 35 feet. Maximum flows are experienced in September and October, while

lowest flows occur during the spring. Lands in the lower basin are generally grassy prairies with scattered pinewoods and palmetto growths. There are some large citrus areas, tracts of improved pasture and small acreages of truck crops scattered through the basin.

1.2.1 Canals: The total length of Canal 38 is about 58.3 miles, out of which approximately 8.6 miles are between S-65E and S-65D, 9 miles are between S-65D and S-65C, 7.4 miles are between S-65C and S-65B, and the remainder is between S-65B, S-65A and S-65 and downstream of S-65E. Canal 38 has, in general, a bottom width between 90 feet and 425 feet, bottom elevations between -13.5 ft. and 18.0 ft. msl., and five control structures with navigation locks. A description of the control structures is given below.

1.2.2 Control Structures: There are five gated spillway structures: 65A, 65B, 65C, 65D and 65E on Canal 38. The details of these structures are available in the Design Memoranda but some pertinent information about them is given below.

| | <u>S-65A</u> | <u>S-65B</u> | <u>S-65C</u> | <u>S-65D</u> | <u>S-65E</u> |
|---------------------|--------------|--------------|--------------|--------------|--------------|
| Control Gates | Vert-Lift | Vert-Lift | Vert-Lift | Vert-Lift | Vert-Lift |
| No. of Gates | 3 | 3 | 4 | 4 | 6 |
| Net Width of a Gate | 27'x13.7' | 27'x13.7' | 27x13.7' | 27'x13.7' | 27'x13.7' |
| Crest Elev. (msl.) | 34.5' | 26.3' | 20.8' | 13.1' | 9.7' |
| Apron Elev. (msl.) | 28.6' | 19.4' | 13.4' | 5.3' | -1.6' |
| Discharge | 11,000cfs | 14,000cfs | 18,000cfs | 21,300cfs | 24,000cfs |
| HWE(msl.) | 46.3' | 40.0' | 34.0' | 28.0' | 22.0' |
| TWE(msl.) | 42.9' | 35.7' | 30.1' | 23.4' | 19.3' |

Each of the foregoing structures is associated with a lock for navigational purposes. The lock size is 30'x90' with 6 ft. normal depth of water over the sill.

1.2.3 Transient Situations: The transient physical situations that existed in the lower Kissimmee River Basin during the occurrence of the event were as follows: first, the dredge by-pass channel closures at the structures were not built to the tie-back levee elevation; second, the embankments were not covered with vegetation and were, therefore, totally exposed to the hazards of erosion; third, the channels above S-65C were not dredged to final design cross-section.

1.3 Normal Climatology

The normal climate over the basin is of the tropical type. Of the 50-55 inch average yearly rainfall over the basin, approximately 70 percent occurs in the five-month period of June through October. The other seven months account for the remaining 30 percent of the average yearly rainfall. The region is also subject to tropical storms and hurricanes which generally occur during the rainy season period of June through October. These hurricanes bring intense rainfall which often aggravates a flood situation already serious from heavy seasonal rainfall. Highest flows are generally experienced in September and October, while lowest flows occur during spring. Pertinent information concerning rainfall stations in the lower Kissimmee River Basin and neighboring areas is presented in Table 1.

1.4 Normal Operation

The gates of the control structures are operated by a lock-tender who resides at the site. The gates are usually operated in such a way that the headwater stage stays within two-tenths of a foot from its optimum value. This is done manually by the operator.

For flood control regulation the gate operation is obtained from an appropriate structure rating curve provided by the Office of the Corps of Engineers at Jacksonville, Florida. Insofar as possible all the gates are opened gradually and uniformly so that all the gates have the same opening. The gates which can be opened automatically are not allowed to exceed about two feet before all gates are opened.

When all gates are discharging, the difference in gate opening between the manually operated and automatic gates is not allowed to exceed one foot. The prescribed operation limits for the structures in question are presented in the section entitled "Analysis of the Event."

Also, when Structures 65A, 65B, 65C, 65D and 65E are discharging at their full capacity, a normal recommended operating practice is that Structure 65 be completely closed; that is, discharge through Structure 65 is zero.

2. THE EVENT

2.1 General Description

Tropical Storm Jenny first appeared as a threat to the mainland of Florida on October 1, 1969 as it appeared in the Gulf of Mexico approximately 30 miles west of Naples. It entered the mainland in the vicinity of Fort Myers on the afternoon of October 2, 1969, and proceeded north-northeastward over the Kissimmee and St. Johns basins at approximately 15 miles per hour, leaving the mainland in the vicinity of Titusville at approximately 10:00AM on October 3, 1969. Winds averaged 25 miles per hour with gusts of 40 to 50 miles per hour.

The heaviest rainfall during the October 1-3, 1969 occurrence was concentrated in the lower Kissimmee River Basin between Lakes Kissimmee and Okeechobee. Within this area of heavy rainfall the maximum concentration was in an approximate 200 square mile area centered almost exactly on the River and extending from S-65A to S-65D. The accumulated rainfall for this event, as measured by FCD raingages numbered 35, 38 and 43, at Structures 65B, 65C and 65D, were 9.33, 9.66 and 8.82 inches, respectively. Isohyetal maps for the periods of September 6 through 17, 1969; September 18 through 30, 1969; October 1 through 3, 1969; October 1, 2 and 3, 1969 are presented in the appendix. Rainfall values used in developing these isohyets (see appendix) were those available at stations listed in Table 1. It is estimated that in this area the rainfall occurrence was of about a 1 in 15 years frequency.

2.2 Structure Operation

The structure operations were greatly handicapped due to a combination of the transient situations and the effects of unusual rainfall occurrence on the transient situations. However, in order to maintain the design stages and discharges at each of the five structures in the lower Kissimmee River during the flood period, the gates were accordingly opened. This operation resulted in sufficiently high stages behind some of the structures to cause concern. The concern was that the plugs could go off because the fill materials on the plugs were already severely eroded from heavy rainfall and the river was rising. Therefore, it was necessary to increase the discharge through these structures and place additional fill on the by-pass channel closures at the structures.

An increase in discharge through the structures created a further concern that high flows could severely damage the banks. Consequently, at Structure 65C, gates in the middle were opened higher than the gates on the sides. To lessen the critical conditions at the by-pass channel closures at the structures, a minimum discharge of 4,500 cfs was maintained at S-65 because of an abnormal condition that occurred in the Upper Kissimmee River Basin about a week before this event. The Kissimmee River discharge at S-65E rapidly reduced from October 7-8, 1969. This reduction enabled discharge at S-65 to be increased to 7,000 cfs. A listing of hourly gate operations performed at the problem Structures 65B, 65C, 65D and 65E during the period October 1 (8:00AM) through October 15 (1:00PM), 1969 is presented in the appendix.

2.3 Results

An antecedent condition of saturated ground caused the basin to produce relatively heavy runoff from Tropical Storm Jenny. This heavy runoff occurred primarily in the area south of Lake Cypress beginning with the Kissimmee-Hatchineha-Cypress Lake complex regulated by S-65 at the outlet of Lake Kissimmee. This complex rose 1.5 feet between October 1 and October 8, 1969 when stages in the Kissimmee River had reduced sufficiently to permit increased discharge rates at S-65. Lake Kissimmee peaked on October 8, 1969 at 54.15 feet while the maximum stages in this lake in 1953 and 1960 were 56.64 feet and 55.84 feet respectively.

Rather extensive flooding of pasture occurred in the area of the heaviest rainfall due to an inability of existing drainage ways to accommodate this type of rainfall occurrence. Some flooding was experienced in the flood plain of the Kissimmee River. Nevertheless, the present channelization was sufficient to materially reduce the length of flooding over that experienced under pre-Project conditions.

Damages were considerable to the channel rip-rap downstream of those control structures between S-65B and S-65E. Within the S-65B and S-65E reach the maximum damage was experienced at S-65D. A pattern of the damage that occurred at S-65D is presented in the appendix in the form of a river bed contour map. This contour map was prepared from the data collected from soundings taken shortly after the high flows of October 1969. In order to understand the extent of damage very broadly, a few design elevations are also shown (in red) on this map. These led to an analysis of the event which is presented in the next Section.

3. ANALYSIS OF THE EVENT

3.1 Objectives

The damages caused to the channel rip-rap, particularly at Structure 65D, created some concern to the Flood Control District. Consequently, the District undertook an analysis of the event with the following objectives:

1. Within the limits of available data, could reasonable assumptions be made to show if the District clearly violated the operational limits on the structures in question?
2. If the answer to objective one is yes, what should have been the proper way to operate the structures?
3. If the answer to objective one is no, could other reasons for rip-rap movement be determined in order that measures could be taken to prevent damages in the future?

3.2 Data Collection and Preparation

The data available were channel cross-sections (S-65B to S-65C, design; others, as built) along the reach from S-65B to S-65E; tail-and-headwater elevations and gate operations for the period 8:00AM October 1, 1969 through 1:00PM October 15, 1969; and Corps of Engineers (Jacksonville District, Florida) discharge rating curves received by the Flood Control District at West Palm Beach, Florida, on October 20, 1969.

The channel cross-sections data contained some negative elevations (mean sea level elevation = 0 was used as reference) and the computer program which existed at the time of analysis for the processing of cross-section data could not utilize negative elevations. Therefore, a constant of twelve feet was added to make every elevation a positive number greater than zero. An over bank capacity of the design channel cross-sections was arbitrarily limited to an extension (1:100 slope) of the channel section beyond its top elevation. The data available on tailwater elevations, TWE, at S-65E and on headwater elevations, HWE, at S-65B, S-65C, S-65D and S-65E were assumed to be satisfactory. The gate operations data were linearly interpolated at one hour intervals. The discharge rating curves for the structures received from the Corps of Engineers, Jacksonville District, Florida, were also assumed to be satisfactory. It was found from the stage records that, at times, reverse water slope and a high drop or rise of water surface elevation values at the control points along the reaches (which are fairly long) occurred with the one-hour interval basis. This was assumed to be due

to a combination of surges in the tailwater and errors in datum. Therefore, a datum correction of 0.1, 0.5 and 0.4 foot was applied to headwater stages (HWE) at S-65D, S-65C and S-65B, respectively. It was also decided to establish tailwater elevations at S-65D, S-65C, and S-65B. The computation of TWE is discussed below.

3.3 Tailwater Computation

The tailwater computation was based essentially upon the principles of gradually varied flow which utilized an equation of the form

$$\frac{dy}{dx} = PC \left[\frac{S_0 - S_E}{1 - \alpha \frac{Q^2 T}{gA^3}} \right] \quad (1)$$

where y = depth of water,

S₀ = slope along the channel bed,

S_E = energy gradient,

α = velocity head coefficient,

Q = discharge,

T = top width,

g = acceleration due to gravity,

A = cross-sectional area of the channel,

PC = -1, if the computation proceeds upstream, and

= 1, if computation proceeds downstream.

The three reaches (S-65B to S-65C, S-65C to S-65D, and S-65D to S-65E) were divided into several sub-reaches and use of Equation 1 necessarily required that bed elevations at various points along each of the reaches be known. To eliminate doubts as to the values of bed elevations and thereby in the computed S₀ values, it was decided to work directly in terms of water surface elevations (WSE) rather than the depth

of water. Further, the term $\alpha \frac{Q^2 T}{g A^3}$ in Equation 1 was assumed to be negligible. Thus, Equation 1 could be re-written as

$$\frac{d(WSE)}{dx} = PC(-SE) \quad (2)$$

where WSE = water surface elevation.

Energy gradient, SE, was determined as

$$SE = \frac{(RN)^2 Q^2}{2.22(CON)^2} \quad (3)$$

where RN = Manning's roughness coefficient, and

$$CON = \frac{A^{5/3}}{p^{2/3}} = \text{section factor in which } p = \text{wetted perimeter.}$$

The section factor for each of the sections along the reach was estimated with the help of a generalized computer program developed for estimating geometric elements of natural channel sections. The program utilized available section data and yielded a functional relationship between the section factor and WSE at each of the sections along the reach. The functional relationship between CON and WSE was based upon Legendre Polynomial approximation. A six-order polynomial, in general, produced a best fit between CON and WSE at each of the sections along the reach.

Using available discharge rating curves, functional relationships for estimating discharge through each of the structures were developed. An equation, in its general form, representing the relationship, is as follows:

$$Q_n = a(GO)^b(EH)^c, \quad 0 < GO < Y, \quad EH > 0 \quad (4)$$

where n = structure number,
 G_0 = effective gate opening,
 E_H = effective head, i.e., difference in head across the
structure,
 Y = depth of water at the weir crest or maximum limit on
gate opening, and
 a, b, c = constants.

The value of Q that should reflect into the change of WSE within a reach at any time could be estimated very well by an equation

$$Q_{NET} = Q_D - (Q_U + Q_L) + W_L \quad (5)$$

where Q_{NET} = net discharge in the reach,

Q_D = discharge through downstream structure,

Q_U = discharge through upstream structure,

Q_L = local inflow into the reach, and

W_L = water loss from the reach.

Due to the unavailability of time distribution of rainfall within each reach and reliable tailwater elevations (TWE), it is difficult to obtain reliable estimates of Q_L and W_L with time. However, if W_L is assumed to be negligible, Q_L may be approximated for wet or flood periods by an equation, given below:

$$Q_L = Q_D - Q_U \quad (6)$$

It should be noted that Equation 6 is based essentially upon individual "feel" that during flood or wet periods, for Q_{NET} in Equation 5 to be zero, the downstream structure may be operated in a manner to carry

QU and surface and sub-surface discharges in the channel from the flood plain of the reach in question (i.e., flood water or local inflow) to a downstream reservoir (Lake Okeechobee in our case).

The values of QL obtained by Equation 6 were distributed along the reach as

$$\frac{QL \times DIS}{DIST}$$

where DIS and DIST are the lengths of the sub-reach and the whole reach, respectively.

A constant Manning's roughness value of 0.029 was initially assumed to exist throughout the reach between S-65B and S-65E. The solution to Equation 2 was then obtained by an iterative procedure which used an equation based upon a numerical integration technique. The equation is

$$WSE_{i+1} = WSE_i + \frac{WSE_i + WSE_{i+1}}{2} dx \quad (7)$$

where WSE = water surface elevation,

$$WSE = d(WSE)/dx$$

dx = horizontal distance between i^{th} and $(i+1)^{th}$ position along the channel bed.

The TWE values computed at one hour intervals were fitted to the highest water mark (HWS) recorded during the flood period in each reach. The HWS values for reaches S-65E to S-65D, S-65D to S-65C, and S-65C to S-65B were 23.8, 32.2 and 39.85 feet, respectively. The fitting criterion was:

$$ABS(HWS_i - CTWE_i) \leq 0.1$$

where ABS = absolute value

i = 1,2,3 = reach number

CTWE = computed TWE.

In order to be able to do the fitting, the Manning's roughness values of the reach S-65D to S-65C and S-65C to S-65B were changed to 0.034 and 0.036, respectively. The fitting criterion was not met in the reach S-65C to S-65B and the ABS (HWS3-CTWE3) was ≤ 0.21 instead of 0.1. The hourly computed TWE values together with recorded HWE values for Structures 65B, 65C, 65D and 65E are presented in the appendix. Also, the computed fall, difference between TWE value of the upstream structure and the HWE value of the downstream structure, is presented in the appendix.

3.4 Discharge Computation

Equation 4 is logarithmically transformed as

$$\ln(Q_N) = \ln a + b \ln(GO) + c \ln(EH) \quad (8)$$

in which \ln represents the natural logarithm. Using the data from the discharge rating curves, a multiple regression and correlation technique was employed to determine the constants, a , b , and c in Equation 8. The discharge equations thus developed for Structures 65E, 65D, 65C and 65B are presented in Table 2 together with their pertinent statistics. The synthesized values of TWE at S-65B, S-65C and S-65D and recorded values of TWE at S-65E together with recorded HWE at S-65B, S-65C, S-65D and S-65E were used to compute EH values for determining discharges through the respective structures. The hourly discharge through the structures, as computed by the equations presented in Table 2, are enclosed herewith in the appendix.

3.5 Storage Computation

The total storage (WATER) for any of the reaches at any time is computed by multiplying the appropriate area by the WSE values. The computation of area involved use of Simpson's rule, which did the integration along the section at 20 foot intervals. The computer outputs, consisting of QD-QU, DSTORE, QLAT and SUM for each of the three reaches at one-hour intervals, are enclosed herewith. The column QD-QU represents the average QL of two consecutive hours, DSTORE is the change in the water storage of the reach between two consecutive hours, QLAT represents the sum of QD-QU and DSTORE, and SUM is the cumulative sum of QLAT. All the units are in acre feet (AF).

3.6 Prescribed Operational Limits vs. Operations Performed

The limits within which operations should have been performed at the structures in question are as presented below:

| <u>Prescribed Operational Limits</u> | | | |
|--------------------------------------|-------------------------------------|---------------------------------|--|
| <u>Structure Number</u> | <u>Structure Discharge QLIMIT**</u> | <u>Maximum Headwater, HWM**</u> | <u>Maximum Difference in Head(EHL)* across the Structure</u> |
| S-65B | QLIMIT \leq 587(TW-19.8') | \leq 44.9' | \leq 9.4' |
| S-65C | QLIMIT \leq 1020(TW-13.9') | \leq 38.1' | \leq 9.0' |
| S-65D | QLIMIT \leq 1127(TW-5.4') | \leq 32.5' | \leq 8.0' |
| S-65E | QLIMIT \leq 1453(TW+1.6') | \leq 24.2' | \leq 10.5' |

* EHL is equal to the difference between maximum headwater (HWM) and minimum tailwater (TW).

** Elevations include appropriate datum corrections.

The basis used in developing the above limits are given in the appendix.

The results of operations performed, such as discharge through the structures (Q), headwater elevations (HWE) and difference in head across the structure (EH) were checked at one-hour intervals for the entire period (8:00AM October 1, 1969 through 1:00PM October 15, 1969) to find out the violations, if any, of the prescribed operational limits. The detected violations of the prescribed operational limits are given below. The design discharge through S-65B, S-65C, S-65D and S-65E is 14,000, 18,000, 21,300, and 24,000 cfs, respectively.

| (1) <u>Structure Number</u> | (2) <u>Violation date and time</u> | (3) <u>Q>QLIMIT by (cfs)</u> | (4) <u>Col. 3 as % of design discharge</u> | (5) <u>HWE>HWM by (ft)</u> | (6) <u>EH>EHL by (ft)</u> |
|------------------------------------|---|--|---|--------------------------------------|-------------------------------------|
| S-65B | Oct. 2, 10PM | 297 | 2.12 | | |
| | Oct. 3, 2AM | 72 | 0.51 | | |
| | 9AM | 320 | 2.29 | | |
| | 10AM | 551 | 3.94 | | |
| | 11AM | 53 | 0.38 | | |
| | 8PM | 34 | 0.24 | | |
| | 9PM | 58 | 0.41 | | |
| | 11PM | 4 | 0.03 | | |
| | 12AM | 30 | 0.21 | | |
| | Oct. 4, 1AM | 3 | 0.03 | | |
| | 6AM | 622 | 4.44 | | |
| | 7AM | 47 | 0.34 | | |
| | 8AM | 119 | 0.85 | | |
| | 11AM | 11 | 0.08 | | |
| | 12PM | 47 | 0.34 | | |
| | 1PM | 55 | 0.39 | | |
| | 10PM | 50 | 0.36 | | |
| | Oct. 5, 8AM | 10 | 0.07 | | |
| | 9AM | 37 | 0.26 | | |
| | 10AM | 56 | 0.40 | | |
| 11AM | 44 | 0.31 | | | |
| 12PM | 33 | 0.24 | | | |
| S-65C | None | | | | |

| <u>(1)</u> Structure Number | <u>(2)</u> Violation date and time | <u>(3)</u> Q>QLIMIT by (cfs) | <u>(4)</u> Col. 3 as % of design discharge | <u>(5)</u> HWE>HWM by (ft) | <u>(6)</u> EH>EHL by (ft) | |
|-----------------------------------|---|------------------------------------|---|----------------------------------|---------------------------------|------|
| S-65D | Oct. 4, 8AM | 78 | 0.37 | | | |
| | 9AM | 236 | 1.11 | | | |
| | 10AM | 380 | 1.78 | | | |
| | 11AM | 514 | 2.41 | | | |
| | 12PM | 672 | 3.15 | | | |
| | 1PM | 804 | 3.77 | | | |
| | 2PM | | | | | 0.29 |
| | 3PM | | | | | 0.05 |
| S-65E | None | | | | | |

The magnitude of the violations in discharge rates through S-65B and S-65D, expressed as percent of design discharge in column 4 above, is for all practical purposes within the limits of calculation error. This is also true for the violations in difference in head across Structure S-65D. Therefore, further efforts were made to evaluate the damages with an intention of pointing out the possible causes for such damages and, if possible, to make recommendations for prevention of damages in the future.

3.7 Damage Evaluation

The damage to the rip-rap downstream of S-65D was severe in comparison with that at the other structures (S-65B, S-65C and S-65E). Therefore, attempted evaluation of damages was limited only to S-65D. The damage pattern at S-65D presented in appendix 7.9 clearly indicates that rip-rap materials were transported from near the end of the apron and were accumulated at approximately 100+ feet distance from the end of the apron. A circle formed by the red dots on the left hand corner is simply to point out an approximate region where not only the cut-off wall was very much exposed but also the wing-wall was severely damaged. Another thing found by sending down a scuba diver was that the eroded surface had also caved in underneath the apron. Such damages are of major concern to the Flood Control District because of the effect of loss of rip-rap materials on the safety and integrity of the structures. Therefore, further efforts were made to investigate, qualitatively and quantitatively, into the causes of such damages.

3.7.1 Qualitative: The rip-rap displacement which occurred downstream of S-65D was apparently caused by an unusual high flow during the period of October 1 through October 15, 1969. The factors commonly expected to affect movement of rip-rap materials are gradation of stone sizes, depth of flow over stone, unit weight of stone and shape of individual stones. An underlying assumption here is that placement of the rip-rap materials was done and inspected under ideal conditions.

Inevitably, a better understanding is needed of the flow phenomena, specifically energy dissipation, which occur at these structures and onto the bed and bank protection below them at high discharges. Critically, but qualitatively speaking, the movement of rip-rap must also be

a function of the interactions among the factors affecting it. An ideal rip-rap composition, sizewise, would be a gradation which allows the large and small particles to interlock as much as possible. The resulting rock matrix would be more resistant than even one consisting of large uniform size stone. On the other hand, if a poor gradation were used, such as a few large boulders mixed with a majority of small crushed rock, an equivalent resistance would be for a uniform blanket of stone of smaller size. An example of this is given by Izbash and Khaldre (17) "fill material consisting of rocks of 1-2 ton size and occasional boulders up to 5 tons mixed with crushed rock and stone of various sizes --- this mass was equivalent to a uniform fill of stone 100-200kg size (equivalent velocity resistance)."

It is likely that the rip-rap held to its design expectations and an interlocking effect of gradation resisted until the velocities in the vicinity of the rip-rap reached or even far exceeded those the largest stone could resist individually. Then, the largest stones were finally displaced and rolled away at a rapid transport rate for some distance. The smaller stone immediately was transported along with a considerable depth of underlying sand. An alternative case would be that of a velocity segregated removal of rip-rap materials starting with relatively small rock, say 25-50 lbs. As the velocity or intensity of flow increased, the size of the rip-rap stone transported increased. Finally, the largest stones were left on various portions of the bed relatively unprotected and were moved at their expected critical velocities. These thoughts led to further search into the literature so that

some theoretical approaches could be utilized for quantitatively estimating the flow phenomena occurring downstream from S-65D.

3.7.2 Quantitative:

3.7.2.1 - Energy Dissipation.

An intensive review of the literature was undertaken concerning energy dissipation and the velocity of water needed to move the rip-rap materials. A listing of the references is enclosed herewith. Based upon the literature review a conceptual definition of the energy dissipation problem was made (Figure 2). The submerged jet and submerged hydraulic jump concepts are used when the water efflux through the gate is sub-critical and super-critical, respectively. The flow is sub-critical when the water efflux through the gate has a Froude number (F1) less than unity and the flow is super-critical when the water efflux through the gate has a Froude number greater than unity.

Figure 2 illustrates the case of a jet with uniform velocity (assumed) U_1 , and depth, GOAV (average gate opening), issuing through a vertical lift gate situated over an ogee weir at a height, H, above the apron, where difference in head (Headwater elevation, HWE - Tailwater elevation, TWE) across the weir is the driving force and YT is the tailwater depth over the downstream apron. As water passes the gate, the jet curves towards the solid boundary due to the reduction of pressure below the jet, which is called the Coanda effect, and re-attaches to the bed at a certain section enclosing a region of separated flow. The pressure inside the eddying region (EL) will be less than

the hydrostatic pressure. Downstream of the re-attachment line, there will be an impingement zone where the pressure will be higher than the hydrostatic pressure. Due to the steep favorable pressure gradients existing in the impingement zone, the flow is accelerated and the high velocity filaments will be in the neighborhood of the bed. At the end of the impingement zone, the acceleration ceases and the high velocity stream undergoes turbulent walljet. This flow beyond the impingement region is designated herein as the "re-attached wall jet." The wall jet is defined as a jet of fluid impinging tangentially or at an angle on a boundary surrounded by stationary or moving fluid. The deflected jet impinges on the bed in the region surrounding the re-attachment line. In this region the pressures in excess of the hydrostatic pressure are built up over the bed. According to Rajaratnam and Subramanya (25) the position of the re-attachment line coincides fairly well with the position of the maximum pressure. The position would occur approximately at $(9.5 \times GOAV)$ feet downstream from the position of the jet. The velocity distribution at any point, x , downstream from the gate is assumed as shown in Figure 2a. Figure 2b illustrates the case of a super-critical stream discharging from a slot, $GOAV$ (average gate opening) situated in the same way as shown in Figure 2a. If a normal hydraulic jump is to be formed at the efflux section where the depth is $GOAV$ and the Froude number is $F1$, the tailwater depth, YT , should be equal to the sub-critical sequent depth, $Y2$, given by the momentum equation. If YT is less than $Y2$, the jump is swept

downstream and is called a repelled jump. If Y_T is greater than Y_2 , the jump gets submerged or drowned as shown in Figure 2b and is called a submerged hydraulic jump, a drowned jump, or simply a submerged jump.

At the inlet section, there is a backing up and the depth is Y_3 . From this section forward, there is a continuous drop in water surface to a section of minimum depth of Y_5 , beyond which it increases continuously to the tailwater depth, Y_T . An intermediate drop in water surface is distinct for smaller submergences and levels off slowly for higher submergences; becoming almost level for the case of the submerged jet when the submergence factor is infinity.

3.7.2.1.1 - Mathematical Development

The submergence factor S for the submerged jump of supercritical depth $GOAV$ and Froude number F_1 is defined as

$$S = \frac{Y_T - Y_2}{Y_2} \quad (9)$$

If $S = 0$ normal jump would occur, $S \rightarrow \infty$ meaning the tailwater is too high as compared with Y_2 , and $S < 0$ meaning the tailwater is too low as compared with Y_2 and the jump would be swept downstream.

The Froude number, F_1 , is determined as

$$F_1 = \frac{U_1}{\sqrt{GXGOAV}} \quad (10)$$

where G is acceleration due to gravity. If $F_1 = 1$, Equation 10 for $S=65D$ becomes

$$\frac{U1}{\sqrt{G \times GOAV}} = 1$$

$$GOAV = \frac{(U1)^2}{32.2} = \frac{(162 \times GOAV \times EH^{0.5})^2}{L^2 \times (GOAV)^2 \times 32.2} \quad (11)$$

where L = average net width of the gate = 27 feet for S-65D.

Simplifying Equation 11 yields $GOAV = 1.118(EH)$. (12)

Figure 3 is a graphical representation of Equation 12. The regions above and below the line representing Equation 12 will be the regions of occurrences of the submerged jet ($F1 < 1.0$) and submerged hydraulic jump ($F1 > 1.0$), respectively. The sub-critical sequent depth, $Y2$, is determined from an equation based upon the momentum principle. The equation is

$$Y2 = 1/2 (\sqrt{1 + 8(F1)^2} - 1) GOAV \quad (13)$$

or

$$\frac{Y2}{GOAV} = 1/2 (\sqrt{1 + 8(F1)^2} - 1) \quad (14)$$

The tailwater depth, YT , is obtained as

$$YT = TWE - APE \quad (15)$$

where TWE is the tailwater elevation and APE is the apron elevation.

(a) Backed-up depth ($Y3$): Define an inlet depth factor, ψ , as the ratio of backed-up depth $Y3$ to the supercritical depth $GOAV$. Thus

$$\psi = \frac{Y3}{GOAV} \quad (16)$$

Using the principles of continuity and momentum, ψ , can be shown to be a function of only $F1$ and S .

Applying the momentum equation to the efflux section and

the end of the jump,

$$\frac{\gamma(Y_3)}{2} - \frac{\gamma(Y_T)}{2} = \frac{q\gamma}{G} \left[\frac{q}{Y_T} - \frac{q}{GOAV} \right] \quad (17)$$

in which γ is the specific weight of water, q is the discharge per unit total net width of the gates. Mathematically, q is expressed as

$$q = \frac{Q}{\sum_{i=1}^N B_i} \quad (18)$$

in which Q is the total discharge through the structure, N is the total number of gates and B_i is the net width of the i^{th} gate. The total discharge through the structure is obtained as

$$Q = \sum_{i=1}^N a(GO_i)^b (HWE - TWE)^c \quad (19)$$

in which (GO_i) is the opening of the i^{th} gate and a , b , and c are constants. Substituting Equations 9 and 14 into Equation 17, using the equation of continuity, and simplifying results

$$\Psi = \left[\frac{(1+S)^2}{4} (\sqrt{1+8(F1)^2} - 1)^2 - 2(F1)^2 + \frac{4(F1)^2}{(1+S)(\sqrt{1+8(F1)^2} - 1)} \right]^{0.5} = \Psi(F1, S) \quad (20)$$

Then the backed-up depth Y_3 is obtained from Equation 16 as

$$Y_3 = \Psi \times GOAV \quad (21)$$

(b) Minimum depth (Y_5): Figure 4 is a plot of $Y_5/GOAV$ against $F1$. The data was obtained from Figure 10 of Rao

and Rajaratnam (30). From Figure 4 data presented in Table 3 was obtained. This was necessary because the relationship given by Rao and Rajaratnam (30) could not be applied to the range of F1 and S values occurring at Structure 65D during the period of investigation. Using the data in Table 3 an equation was developed by a multiple regression and correlation technique to determine Y5/GOAV as a function of F1 and S. The equation is

$$Y5/GOAV = -0.6297 - 0.9498F1 + 1.3171S + 0.3754(F1)^2 - 1.6S^2 + 2.2906(F1)S \quad (22)$$

which has a coefficient of multiple determination, $R^2 = 0.997$ with a standard deviation, $\delta = 0.075$.

Then Y5 is determined as

$$Y5 = (Y5/GOAV) GOAV \quad (23)$$

(c) Length of the Submerged Jump: (SJL) is determined by an equation due to Rao and Rajaratnam (30). The equation is

$$SJL = (4.9S + 6.1) Y2 \quad (24)$$

(d) Energy Loss in the Submerged Jump: From Figure 2b, energy (E1) at the efflux section could be written as

$$E1 = Y3 + \frac{U1^2}{2G} \quad (25)$$

where $U1 = q/GOAV$

The energy (E4) at the end of jump is written as

$$E4 = Y4 + \frac{(U4)^2}{2G} \quad (26)$$

In which U_4 is the mean velocity at the end of the jump. Equation 26 can be expressed in terms of sequent depth, Y_2 , submergence factor, S , and discharge, q , per unit of total net width of the gate as

$$E_4 = (1 + S)Y_2 + \frac{1}{2G} \left\{ \frac{q}{(1+S) Y_2} \right\}^2 \quad (27)$$

The energy loss (E) in the submerged jump is then given by

$$E = E_1 - E_4 \quad (28)$$

(e) Length of Eddy Region: The length of eddy region (EL) has been presented in Figure 4 of Rajaratnam and Subramanya (25) as a dimensionless plot against the nozzle size. The data was extracted from this figure and is presented in Table 4. Using this data an equation was developed as

$$\frac{EL}{H} = 3.7 (H/GOAV)^{-0.302} \quad (29)$$

which has a R^2 value of 0.93 and a standard deviation, σ , of 0.095.

Then EL is obtained as

$$EL = (EL/H)H \quad (30)$$

The height above the apron, H , is determined as

$$H = CREL - APE \quad (31)$$

where $CREL$ is the crest elevation.

(f) Velocity Decay: An excellent discussion about velocity decay of wall jets with downstream distance is available in (25). Therefore, only the equations used in determining

velocity at any downstream point are presented here. The data presented in Table 2 of Rajaratnam and Subramanya (25) were used in the development of the following equations. In the classical wall jet the minimum distance (X_1) beyond which the velocity profiles are similar is

$$X_1 = (13.0 + 2.83 \frac{H}{GOAV}) GOAV \quad (32)$$

In this region maximum velocity at any downstream point from the gate is determined by an equation developed by applying Legendre polynomial approximation. The equation is a fifth order polynomial and is

$$\begin{aligned} \frac{U_m}{U_T} = & 0.99155 + 0.00598 \frac{X_1}{GOAV} - 0.00192 \left(\frac{X_1}{GOAV} \right)^2 + \\ & 0.000077 \left(\frac{X_1}{GOAV} \right)^3 - 0.00000127 \left(\frac{X_1}{GOAV} \right)^4 + 0.0000000076 \\ & \left(\frac{X_1}{GOAV} \right)^5 \end{aligned} \quad (33)$$

where U_m is the maximum velocity at a downstream distance of X_1 from the gate.

In the region of re-attachment the emerging stream is not a wall jet but a curved plan turbulent free jet. The distance from the gate, X_2 , beyond which the decay of velocity would follow the same curve as that of classical wall jet is based upon the ratio of $H/GOAV$.

$$\begin{aligned} \text{For } \frac{H}{GOAV} \leq 1.0 \\ \frac{X_2}{GOAV} = 25.28 \left(\frac{H}{GOAV} \right)^{0.4277} \end{aligned} \quad (34)$$

For $\frac{H}{GOAV} > 1.0$

$$\frac{X2}{GOAV} = 20.0 + \frac{50}{7} \cdot \frac{H}{GOAV} \quad (35)$$

The maximum velocity at any point between the region of X1 and X2 is determined as follows

For $\frac{H}{GOAV} \leq 1.4$

$$\begin{aligned} \frac{Um}{UT} = & 1.0663 - 0.04484 \frac{X}{GOAV} + 0.00263 \left(\frac{X}{GOAV} \right)^2 - \\ & 0.0000778 \left(\frac{X}{GOAV} \right)^3 + 0.00000097 \left(\frac{X}{GOAV} \right)^4 - 0.0000000038 \\ & \left(\frac{X}{GOAV} \right)^5 \end{aligned} \quad (36)$$

where X is any point in the region X1 and X2.

$$\begin{aligned} \frac{Um}{UT} = & 1.0754 - 0.0354 \left(\frac{X}{GOAV} \right) - 0.001103 \left(\frac{X}{GOAV} \right)^2 + \\ & 0.000204 \left(\frac{X}{GOAV} \right)^3 - 0.00000711 \left(\frac{X}{GOAV} \right)^4 + 0.0000000767 \\ & \left(\frac{X}{GOAV} \right)^5 \end{aligned} \quad (37)$$

Height from the bottom of the bed, YX, at which the Um at any downstream point is determined, is as follows

For $\frac{H}{GOAV} > 1.4$

$$\frac{\delta l}{GOAV} = 2.2558 - 0.3784 \frac{X3}{GOAV} + 0.00205 \left(\frac{X3}{GOAV} \right)^2 \quad (38)$$

in which X3 is any downstream point from the gate and δl is the height from the bottom of the bed at which the velocity equals $\frac{Um}{2}$.

For $\frac{H}{GOAV} \leq 1.4$

$$\frac{\delta l}{GOAV} = 3.3195 - 0.048 \frac{X3}{GOAV} + 0.00188 \left(\frac{X3}{GOAV} \right)^2 \quad (39)$$

$$\text{Then } \delta l = \left(\frac{\delta l}{GOAV} \right) GOAV \quad (40)$$

$$\text{and } YX = 0.2\delta \quad (41)$$

3.7.2.1.2 - Computation of Velocity for Moving Rip-Rap Materials

A considerable body of work is available which could help in computing or inferring the velocity of water needed for moving rip-rap materials. One of the commonly used relations is the formula of Izbash (17). The formula is

$$V_{cr} = 0.86 \sqrt{\frac{2G(W_s - W)}{W} ds} \quad (42)$$

where V_{cr} = the maximum velocity a given size and characteristic stone can endure and still remain in place, in ft/sec.

G = acceleration due to gravity, in ft/sec/sec,

W_s = unit weight of the stone, in lbs/ft³,

W = unit weight of water, in lbs/ft³,

ds = diameter of the stone, in ft.

If $W_s = 160$ lbs/ft³, $w = 62.4$ lbs/ft³, $G = 32.2$ ft/sec.² and

$ds = 1.5$ ft, then $V_{cr} = 10.6$ ft/sec (from Equation 42).

Mean velocity for 'first displacement' of bed material is determined with an equation developed by Neill (22). The equation is

$$\frac{(VMC)^2}{G(SG-1)DG} = 2.5 \left(\frac{d}{DG} \right)^{0.2} \quad (43)$$

where VMC = competent mean velocity for 'first displacement' of bed material,

SG = specific gravity,

DG = effective diameter of bed grains, and

d = depth of flow.

The velocity that would roll the first rock was found from the nomogram of Equation 43 to be 12.7 ft/sec to 13.2 ft/sec depending upon the values used for specific gravity, size of rip-rap materials and the depth of flow. An effective specific gravity of the rip-rap materials was found to be 2.0 to 2.4. Similarly, effective size of the rip-rap materials was found to be 14 to 12 inches. An average value for the depth of flow used in the computation was tailwater depth, YT, of 16 to 17 ft. Neill (22) has discussed the limitations of Equation 43.

3.8 Results and Discussion

The computed TWE at S-65D, S-65C and S-65B are consistent with the computed QL values, that is, increases and decreases in QL values reflect increases and decreases in computed fall (COMP DH = difference in computed TWE values of upstream structure and observed HWE values of downstream structure) values for the reach. The observed fall (OBS DH = difference in observed TWE values of upstream structure and observed HWE values of downstream structure) values do not show such a consistency with the QL values. This may be because of the discharges through Structures 65D, 65C and 65B are computed by using the computed TWE values.

A simultaneous occurrence of negative values in QD - QU and DSTORE columns seem to contradict the fact that additions of water into the reach should reflect an increase in WSE values if the WL values are negligible. However, such occurrences are only four (October 4 on the 14th hour, and October 12 on the 17th, 18th, and 19th hours). Also, it seems that estimation of QL by Equation 6 may not be too far from reality particularly during wet or flood periods in controlled systems like the lower Kissimmee River Basin.

Investigations concerning energy dissipation and velocity for moving rip-rap materials were limited to S-65D only. Almost all the mathematical relationships presented concerning energy dissipation and velocity for moving rip-rap materials are based upon model studies. Thus a main assumption involved herein is that information obtained from the model could be applied to S-65D without introducing much error

in the results. One of the major questionable aspects may be the variation in surface roughness characteristics of the prototype and the model. However, Rouse (32) indicates that effects of surface roughness on the behavior of the submerged jump or jet is not well understood and information available pertains only to smooth surfaces. The computation was done at one hour intervals. Whenever the jump occurred the Froude number, F_1 , was never greater than 1.3 indicating a minimum jump condition. The energy loss in the jump was in the neighborhood of 10%. The length of the jump varied between 83 to 87 feet indicating that if the jump occurred immediately past the gate, then the sub-critical sequent depth, Y_2 , was occurring on the level portion of the rip-rap. The results may appear a little too much biased against using the submerged jump as the energy dissipator, but the literature (10) seems to support the fact that a submerged jump may be a poor energy dissipator as compared with a free jump. Also, Elevatorski (13) indicates a fear with the submerged jump that a high velocity might travel along the bed, without much retardation, to considerable distances, thereby causing scour.

Using the plane turbulent jet concept, velocities at 78 and 97 ft. distances from the gate were computed. The 78 foot distance from the gate means 6 1/2 inches past the end sill on the level rip-rap section, and 97 feet from the gate means 6 1/2 inches before the end of the level rip-rap section.

The point at 78 ft. distance was assumed to represent the channel condition of the apron and the point at 97 ft. distance was assumed to represent the channel condition of the rip-rap section. The maximum

velocities that occurred at the point 97 feet from the gate during the flood period (October 3 through October 7, 1969) were in the order of 13 to 15.8 feet per second with 15+ feet per second, which is greater than the upper limit (13.2 ft/sec) of velocity needed to roll the rocks, occurring during 6:00AM through 5:00PM on October 4, 1969. The maximum velocities occurring at the point 78 feet from the gate were greater by 0.3 to 0.4 ft/sec than those occurring at 97 feet.

The heights from the bed at which the above referred maximum velocities occurred at 97 feet distance varied between 4 to 7.3 feet. These heights were always less by 0.1 foot as compared with those at 78 ft. distance. Therefore, it appears that at distances, X_1 , greater than 97 ft. the maximum velocity would occur still closer to the bed if there were no change in the channel configuration. If the area of the channel increased due to channel expansion, then depth of flow would be smaller which would further push the maximum velocity closer to the bed. However, the magnitude of the maximum velocity would tend to decrease with increasing downstream distance. Also, there may be some effect of increasing bed slope and changing roughness. It would be difficult to guess the effect on the magnitude of the maximum velocities and the heights from the bed at which they would occur.

4. SUMMARY AND CONCLUSIONS

An unusual rainfall event (9.33, 9.66 and 8.82 inches at Structures 65B, 65C, 65D, respectively) which resulted in a severe flood during the first week of October 1969, caused considerable damage to the rip-rap channel sections downstream of the control structures, particularly at S-65D, in Canal 38. To analyze the situation data were collected, assumptions were made and mathematical relationships were developed.

Due to the inability of the computer program to handle negative elevations, a constant of twelve feet was added to each elevation in the cross-sections data (S-65B to S-65C, design; and S-65C to S-65D and S-65D to S-65E, as built). Using a sixth order Legendre polynomial approximation, functional relationships were developed between section factor and water surface elevation for each of the cross-sections. A datum correction of 0.1, 0.5 and 0.4 foot was applied at Structures 65D, 65C and 65B, respectively. The recorded TWE at S-65E and the recorded HWE at S-65E, S-65D, S-65C and S-65B were assumed satisfactory. Assuming the structure discharge rating curves provided by the Corps of Engineers at Jacksonville, Florida, to be satisfactory, equations were developed to compute discharge through each of the structures as a function of gate operation and difference in head across the structures.

The TWE values were computed at S-65D, S-65C, and S-65B at one hour intervals for the period 8:00AM October 1, 1969 through 1:00PM October 15, 1969 by employing the mathematical relationships based upon the principles of gradually varied flow. The Manning's roughness values of 0.029, 0.034 and 0.036 were used for reaches S-65E to S-65D, S-65D

to S-65C and S-65C to S-65B, respectively. The computed TWE values were fitted to the highest water mark (HWS) values of 23.8, 32.2, and 39.85 feet for reaches S-65E to S-65D, S-65D to S-65C, and S-65C to S-65B, respectively.

A comparison of the operations performed with the prescribed operational limits led to further investigation of energy dissipation phenomena and the velocity required for moving rip-rap materials at S-65D only. Two phenomena of energy dissipation, submerged hydraulic jump and submerged jet, were investigated. A submerged jump occurred if the Froude number, F_1 , of water efflux through the gate was greater than unity. It was assumed that a submerged jet would occur if F_1 was less than unity. Appropriate mathematical relationships were developed to compute the velocity of water at distances of 78 and 97 feet downstream of the gate. The 78 ft. distance downstream means 6 1/2 inches past the end sill on the level rip-rap section and the 97 ft. distance downstream means 6 1/2 inches before the end of the level rip-rap section. The 78 and 97 ft. distances were assumed to represent the channel conditions of the apron and rip-rap, respectively. The works of Rajaratnam and Subramanya (25) and Rao and Rajaratnam (30) were assumed to be applicable without introducing much error in this investigation.

The computation of velocity for moving the rip-rap materials was based upon a combination of such factors as size and weight or specific gravity of the rip-rap materials and depth of flow of water on the bed.

A very high correlation coefficient, R^2 , value and a very low standard error of estimate associated with each of the discharge equations indicate that they approximate the structure discharge rating curves very

well. The computed TWE values in reaches S-65E to S-65D and S-65D to S-65C are within 0.1 foot of the observed high water marks whereas in the reach S-65C to S-65B the TWE values are within 0.21 foot of the observed high water mark. The computed TWE values at S-65D, S-65C and S-65B are consistent with the computed QL values; that is, increases or decreases in QL values reflect increases and decreases in computed fall (COMP DH) values for the reach.

The magnitude of violation in discharges through S-65B and S-65D, expressed as a percent of design discharge, is for all practical purposes within the limits of calculation error. This is also true for the violations in difference in head across S-65D.

Whenever the jump occurred the Froude number, F_1 , was never greater than 1.3 indicating a minimum jump condition. The energy loss in the jump was computed to be in the neighborhood of 10 percent. The length of the jump varied between 83 and 87 feet indicating that if the jump occurred immediately past the gate, the sub-critical sequent depth, Y_2 , was occurring on the level portion of the rip-rap.

The maximum velocities that occurred at the point 97 feet downstream from the gate during the flood period (October 3 through October 7, 1969) were in the order of 13 to 15.8 feet per second with 15+ feet per second occurring during the period 6:00AM through 5:00PM on October 4, 1969. The maximum velocities occurring at the point 78 feet from the gate were greater by 0.3 to 0.4 feet per second than those occurring at 97 feet. The heights from the bed at which the above maximum velocities occurred at 97 feet distance varied between 4 to 7.3 feet. These heights were always less by 0.1 foot as compared with those at 78 feet distance.

Depending upon the method or equation used, the rip-rap materials at S-65D would start rolling with water velocities between 10.6 to 13.2 feet per second.

Based upon the above findings the following conclusions can be drawn:

1. Within the limits of the data used and assumptions made, it is clear that for all practical purposes the Flood Control District did not violate the prescribed operational limits on any of the structures (S-65B, S-65C, S-65D or S-65E) in question.
2. Water velocities greater than that required to displace the rip-rap materials at S-65D apparently occurred for several days.

In order to prevent such damages in the future, some recommendations for further investigations are made in the next section.

5. RECOMMENDATIONS

Based upon the results of this analysis, it is recommended that further investigations be made, as follows:

1. Investigation of energy dissipation phenomena such as submerged hydraulic jump and submerged jet for spillway structures having low head, high discharge, and high tailwater conditions for submerged flow.
2. Review of the structure discharge rating curves. It may be likely that the structures are discharging at rates in excess of those values indicated by the rating curves under a given set of conditions.
3. Investigation of the life of rip-rap materials as affected by time and flow conditions.
4. Alternative ways of laying the rip-rap blankets.
5. Effects of channel transitions (expansion and contractions) and channel surface roughness created by rip-rap materials on flow phenomena.

These investigations can best be undertaken by means of conducting an appropriate series of model studies.

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A P P E N D I C E S

Explanatory notes for Appendices

7.1 through 7.6

X^i = Rainfall stations where $i = 1, 2, \dots, 21, 22$, with 17 and 18 missing. A listing of these rainfall stations are as below:

| i | Station Name | i | Station Name |
|-----|-------------------------|-----|--------------------------|
| 1 | Structure 65 | 11 | Structure 65D |
| 2 | Yeehaw Jct.-7W | 12 | Okeechobee Field Station |
| 3 | Structure 65A | 13 | Structure 65E |
| 4 | Lake Arbuckle | 14 | Brighton |
| 5 | Avon Park Bombing Range | 15 | Hurricane Gate H.G.S.#6 |
| 6 | Structure 65B | 16 | Rocking K Ranch |
| 7 | Fort Pierce-3W | 19 | Lake Placid-25W |
| 8 | Structure 65C | 20 | Cornwell-4NW |
| 9 | Structure 68 | 21 | Fort Drum-5NW |
| 10 | Highland Park Estates | 22 | Avon Park |

X^1 = Structure 65

X^3 = Structure 65A

X^6 = Structure 65B

X^8 = Structure 65C

X^{11} = Structure 65D

X^{13} = Structure 65E

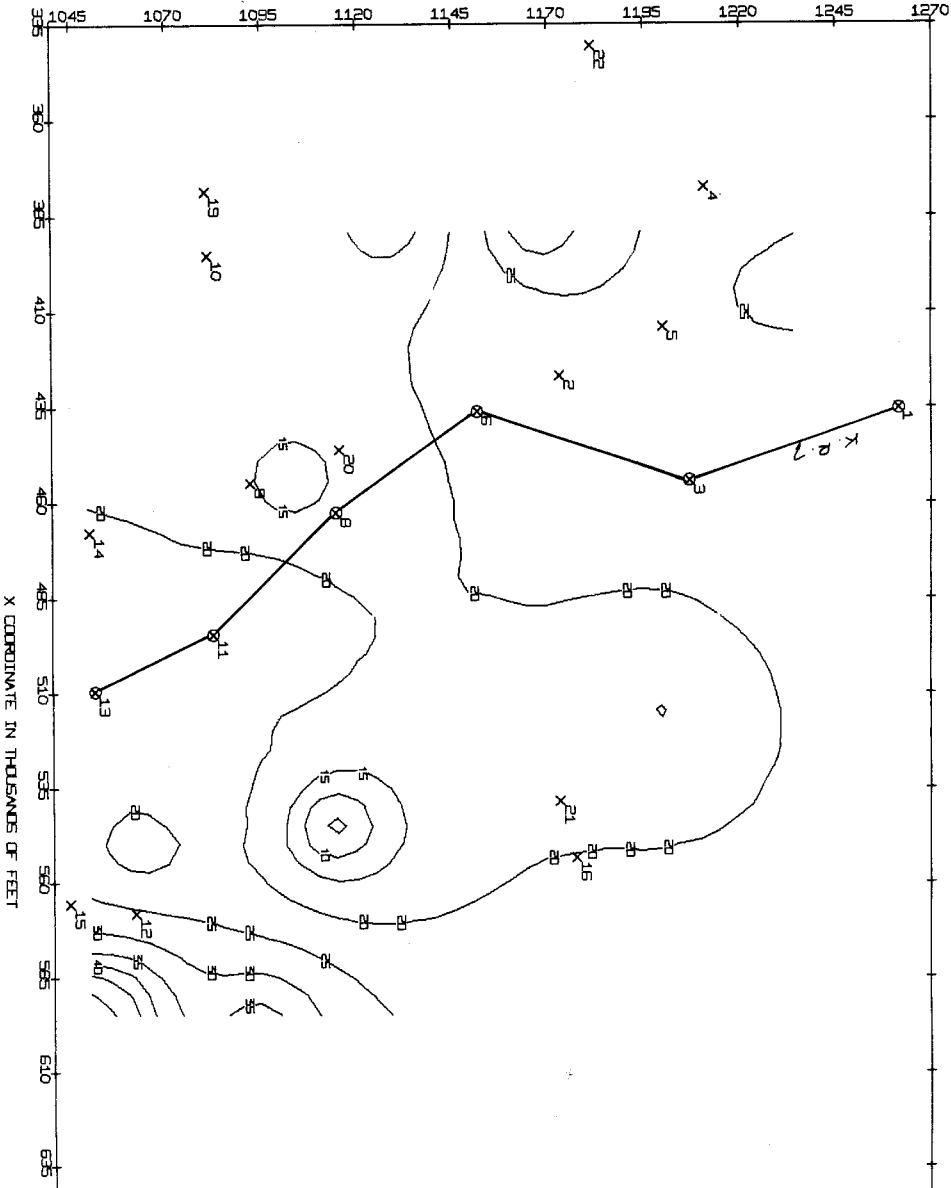
Contour annotations are to be divided by 10 and they are in inches.

Contour interval is 0.5 inch.

Contours not annotated are either equal to the first neighboring annotated contour or are greater than or less than the first neighboring contour by the contour interval.

K.R. = Kissimmee River

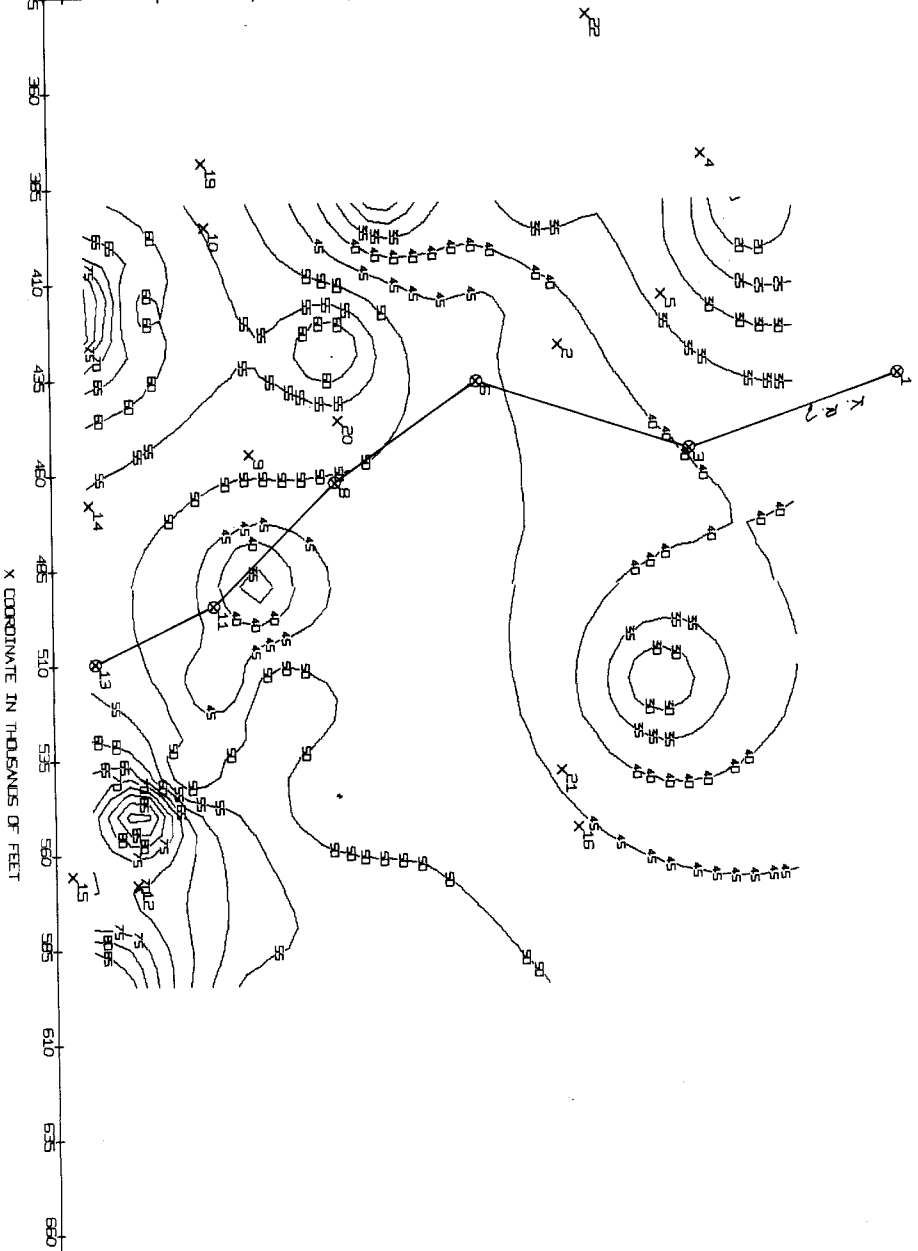
Y COORDINATE IN THOUSANDS OF FEET



X COORDINATE IN THOUSANDS OF FEET

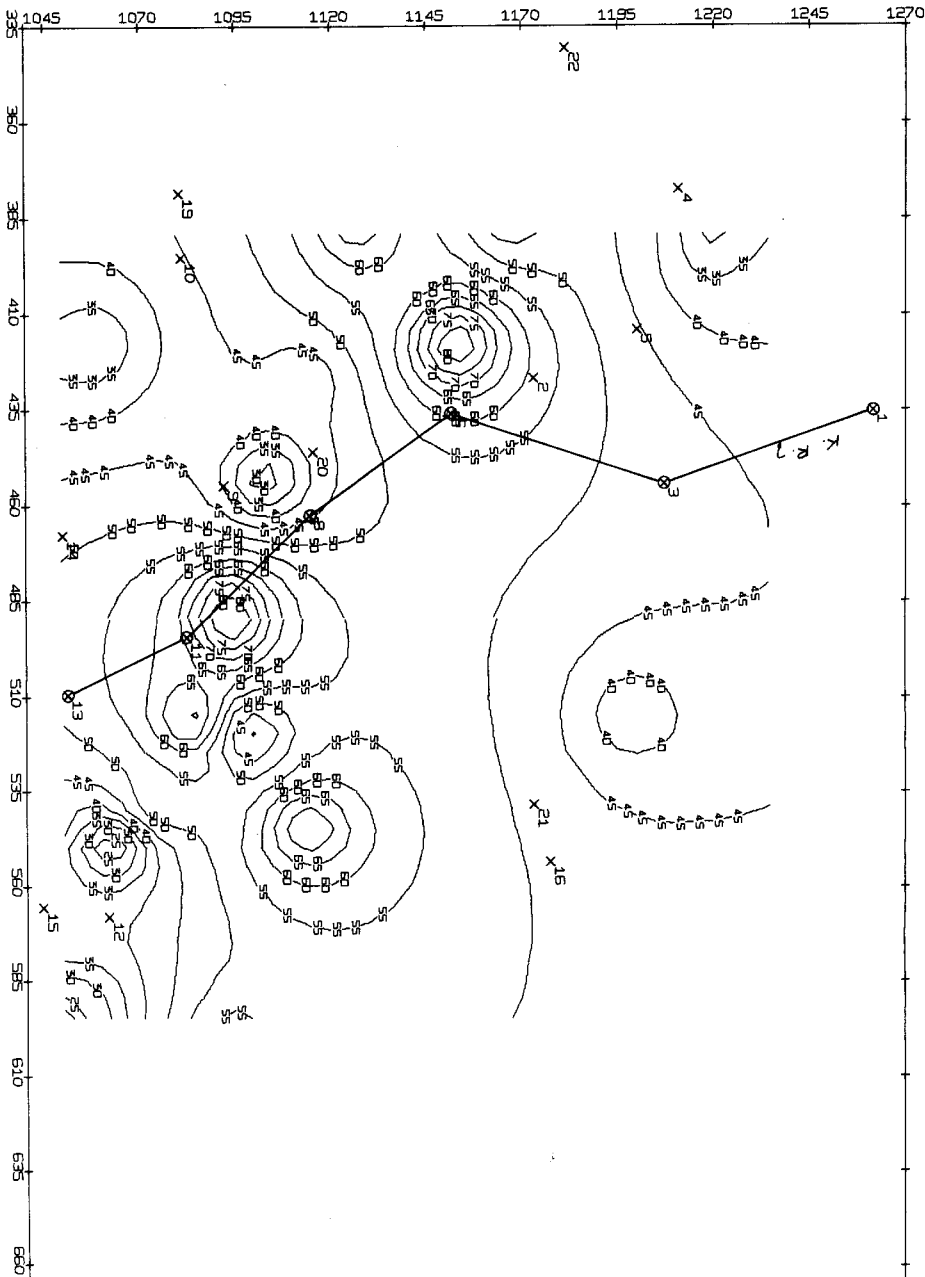
Y COORDINATE IN THOUSANDS OF FEET

1045 1070 1095 1120 1145 1170 1195 1220 1245 1270



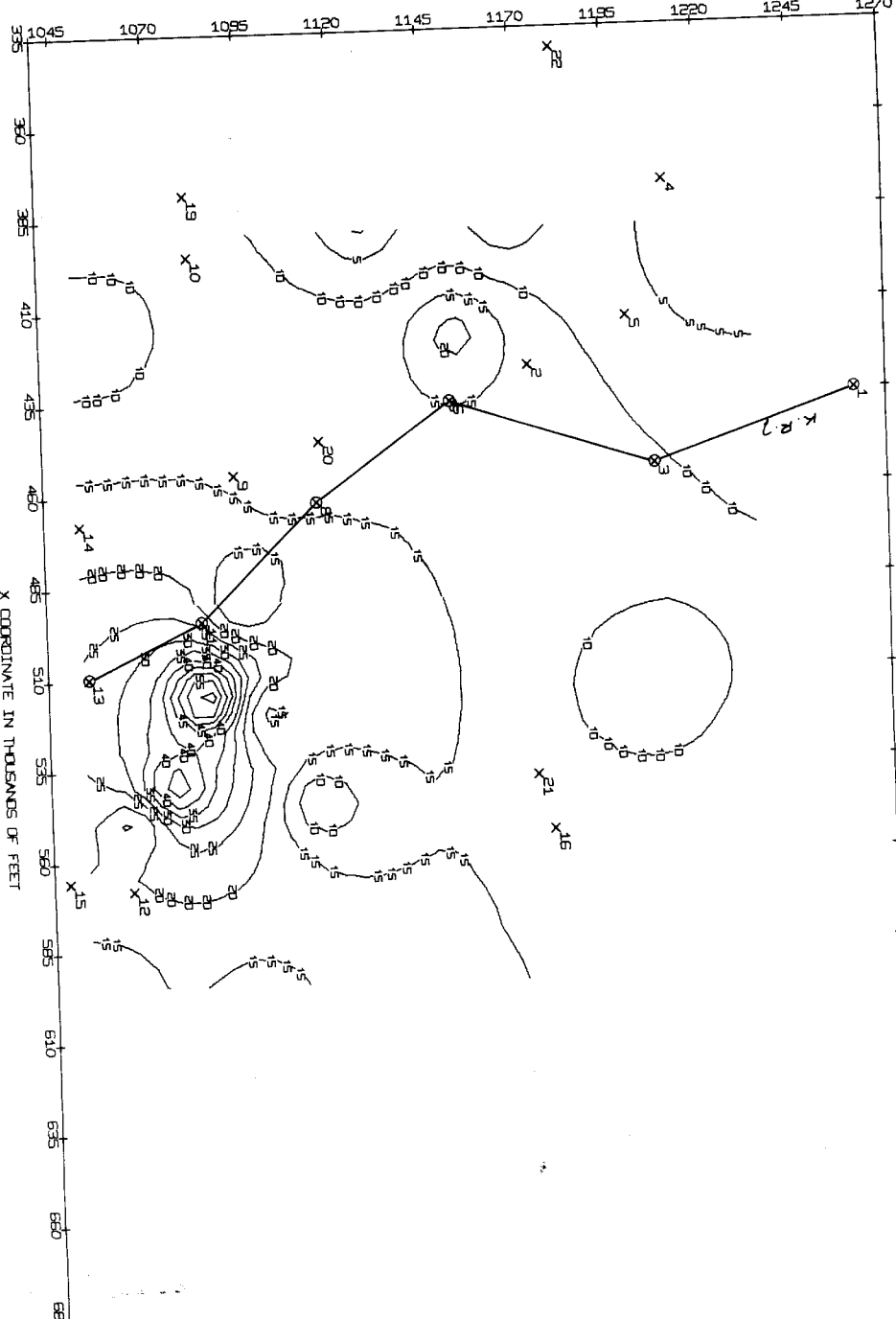
7.2 ISOHYETAL GRAPH FOR SEPT 18 THRU SEPT 30 - 1969 CUMULATED RAINFALL

Y COORDINATE IN THOUSANDS OF FEET



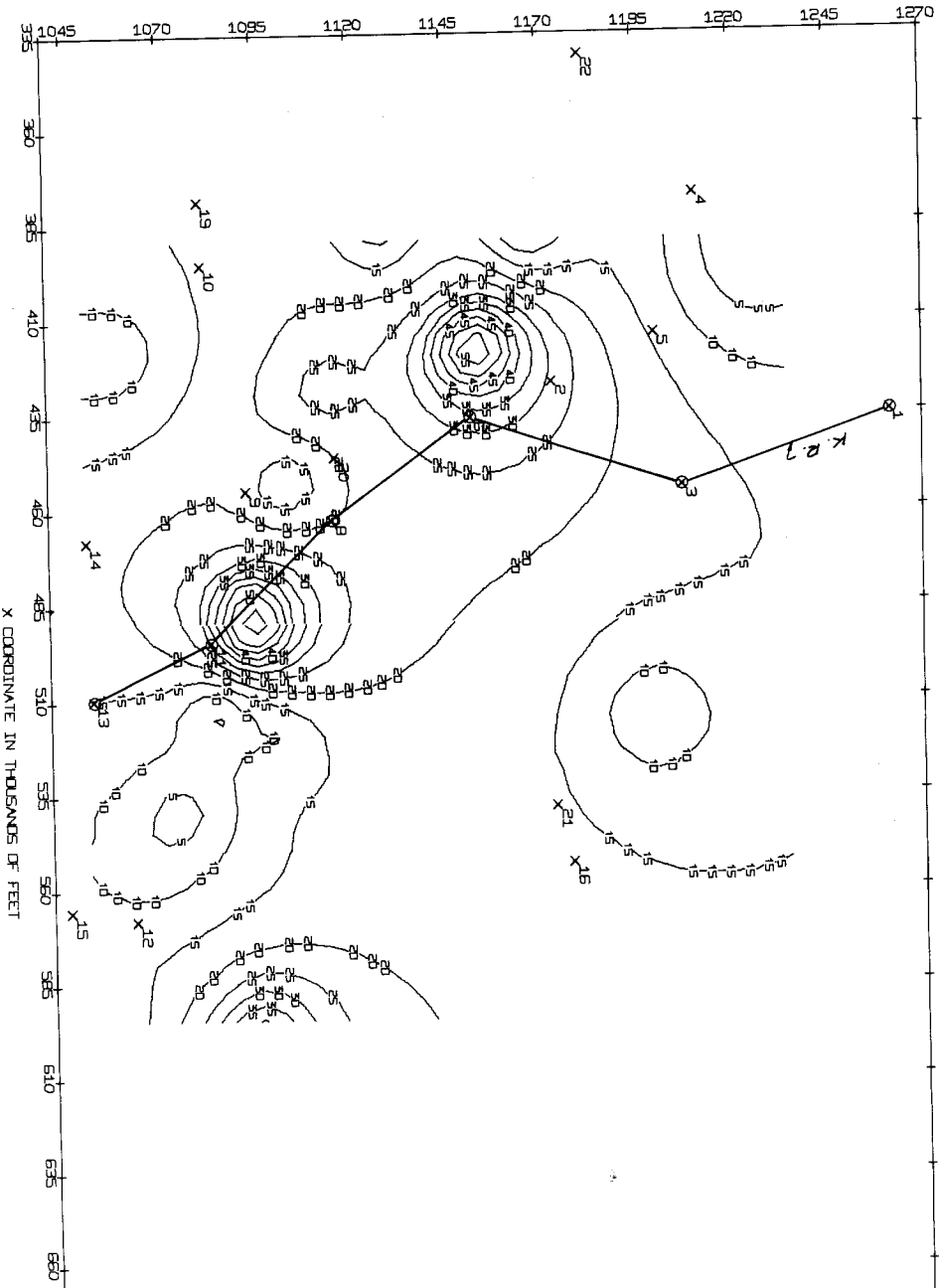
7.3 ISOHYETAL GRAPH FOR OCT 1 THRU OCT 3 - 1969 CUMULATED RAINFALL

Y COORDINATE IN THOUSANDS OF FEET



7.4 ISOHYETAL GRAPH FOR OCT 1, 1969 - DAILY RAINFALL

Y COORDINATE IN THOUSANDS OF FEET



7. ISOMYETAL GRAPH FOR OCT 2, 1969 - DAILY RAINFALL

Y COORDINATE IN THOUSANDS OF FEET

1045 1070 1095 1120 1145 1170 1195 1220 1245 1270

360

385

410

435

460

485

510

535

560

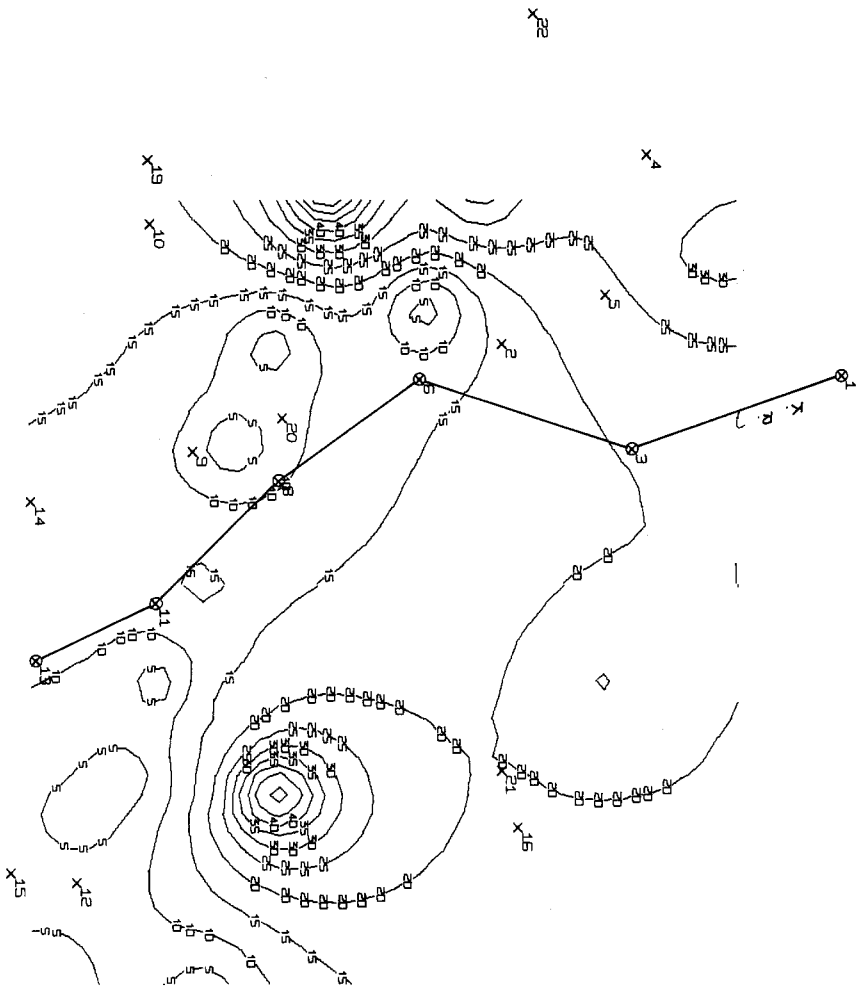
585

610

635

660

X COORDINATE IN THOUSANDS OF FEET



7.7 Data Used in Developing Isohyetal Maps

| Rainfall Station | Cumulative | Cumulative | Cumulative | Rainfall | Rainfall | Rainfall | Rainfall |
|-------------------------------|---------------------------------------|--|--|-----------------------|-----------------------|-----------------------|-----------------------|
| | Rainfall (in.) Sept. 6-17, 1969 | Rainfall (in.) Sept. 18-30, 1969 | Rainfall (in.) October 1-3, 1969 | (in.) Oct. 1, 1969 | (in.) Oct. 2, 1969 | (in.) Oct. 3, 1969 | (in.) Oct. 3, 1969 |
| Structure 65 | 3.95 | 5.08 | 5.83 | 1.19 | 4.64 | | 0.00 |
| Structure 65A | 0.00 | 4.32 | 8.00 | 0.20 | 1.70 | | 6.10 |
| Lake Arbuckle | 1.61 | 10.40 | 1.32 | 0.92 | 0.40 | | 0.00 |
| Ft. Pierce | 4.25 | 6.91 | 1.40 | 0.10 | 1.30 | | 0.00 |
| Brighton | 1.13 | 2.23 | 6.79 | 0.00 | 1.02 | | 5.77 |
| Okeechobee Field Sta. | 2.86 | 2.08 | 3.93 | 0.00 | 0.15 | | 3.78 |
| Highlands Park Estates | 1.50 | 10.98 | 3.39 | 0.61 | 0.72 | | 2.06 |
| Structure 65E | 3.44 | 3.11 | 4.33 | 0.17 | 0.63 | | 3.53 |
| Indian Lake Forestry Tower | 5.44 | 9.37 | 2.16 | 1.03 | 1.13 | | 0.00 |
| Avon Park Bombing Range | 2.23 | 3.71 | 5.83 | 5.83 | 0.00 | | 0.00 |
| Yee-Haw Junction | 2.63 | 3.69 | 7.75 | 7.75 | 0.00 | | 0.00 |
| Structure 65B | 2.43 | 2.84 | 9.45 | 0.65 | 7.15 | | 1.65 |
| Structure 65D | 2.15 | 4.64 | 8.95 | 2.35 | 6.55 | | 0.05 |
| Structure 68 | 1.97 | 6.83 | 4.06 | 1.20 | 2.80 | | 0.06 |
| Avon Park | 1.91 | 5.80 | 3.12 | 0.57 | 0.85 | | 1.70 |
| Cornwell | 1.00 | 5.08 | 2.42 | 1.42 | 1.00 | | 0.00 |
| Fort Drum | 1.44 | 2.46 | 3.57 | 0.51 | 0.49 | | 2.57 |
| Lake Placid | 1.98 | 3.97 | 2.92 | 0.86 | 0.69 | | 1.37 |
| HGS-6 | 2.18 | 1.15 | 2.58 | 0.00 | 0.06 | | 2.52 |

7.8 Hourly gate operations at S-65B, S-65C, S-65D and S-65E
for the period October 1 (8:00AM) through October 15,
(1:00PM), 1969.

Explanatory notes pertaining to the listings.

S-65E refers to the specific structure name.

Gate No. refers to the number of gates = 1, 2, 3, 4, 5, 6

S-65E has 6 gates; S-65D and S-65C have 4 gates and S-65B
has 3 gates.

Time = 1, 2, 3, ..., 340, 341, 342 hours.

1st hour corresponds to 8:00AM of October 1, 1969, and 342nd
hour corresponds to 1:00PM of October 15, 1969.

Data listing is of gate operations in feet.

S-65B

| Time | Gate 1 | Gate 2 | Gate 3 | | | |
|------|-----------|-----------|-----------|------|------|------|
| 1 | 3.25 | 3.25 | 3.25 | 0.00 | 0.00 | 0.00 |
| 2 | 3.25 | 3.25 | 3.25 | 0.00 | 0.00 | 0.00 |
| 3 | 3.25 | 3.25 | 3.25 | 0.00 | 0.00 | 0.00 |
| 4 | 3.25 | 3.25 | 3.25 | 0.00 | 0.00 | 0.00 |
| 5 | 3.25 | 3.25 | 3.25 | 0.00 | 0.00 | 0.00 |
| 6 | 3.25 | 3.25 | 3.25 | 0.00 | 0.00 | 0.00 |
| 7 | 3.25 | 3.25 | 3.25 | 0.00 | 0.00 | 0.00 |
| 8 | 3.25 | 3.25 | 3.25 | 0.00 | 0.00 | 0.00 |
| 9 | 3.25 | 3.25 | 3.25 | 0.00 | 0.00 | 0.00 |
| 10 | 3.50 | 3.50 | 3.50 | 0.00 | 0.00 | 0.00 |
| 11 | 3.75 | 4.00 | 4.00 | 0.00 | 0.00 | 0.00 |
| 12 | 3.75 | 4.00 | 4.00 | 0.00 | 0.00 | 0.00 |
| 13 | 3.75 | 4.00 | 4.00 | 0.00 | 0.00 | 0.00 |
| 14 | 4.00 | 4.50 | 4.00 | 0.00 | 0.00 | 0.00 |
| 15 | 4.00 | 4.50 | 4.00 | 0.00 | 0.00 | 0.00 |
| 16 | 4.00 | 4.50 | 4.00 | 0.00 | 0.00 | 0.00 |
| 17 | 4.00 | 4.50 | 4.00 | 0.00 | 0.00 | 0.00 |
| 18 | 4.00 | 4.50 | 4.00 | 0.00 | 0.00 | 0.00 |
| 19 | 4.00 | 4.50 | 4.00 | 0.00 | 0.00 | 0.00 |
| 20 | 4.00 | 4.50 | 4.00 | 0.00 | 0.00 | 0.00 |
| 21 | 4.00 | 4.50 | 4.00 | 0.00 | 0.00 | 0.00 |
| 22 | 4.00 | 4.50 | 4.00 | 0.00 | 0.00 | 0.00 |
| 23 | 4.00 | 4.50 | 4.00 | 0.00 | 0.00 | 0.00 |
| 24 | 4.50 | 5.00 | 4.50 | 0.00 | 0.00 | 0.00 |
| 25 | 4.50 | 5.00 | 4.50 | 0.00 | 0.00 | 0.00 |
| 26 | 4.50 | 5.00 | 4.50 | 0.00 | 0.00 | 0.00 |
| 27 | 4.50 | 5.00 | 4.50 | 0.00 | 0.00 | 0.00 |
| 28 | 4.50 | 5.00 | 4.50 | 0.00 | 0.00 | 0.00 |
| 29 | 4.50 | 5.00 | 4.50 | 0.00 | 0.00 | 0.00 |
| 30 | 4.50 | 5.00 | 4.50 | 0.00 | 0.00 | 0.00 |
| 31 | 4.50 | 5.00 | 4.50 | 0.00 | 0.00 | 0.00 |
| 32 | 4.50 | 5.00 | 4.50 | 0.00 | 0.00 | 0.00 |
| 33 | 4.50 | 5.00 | 4.50 | 0.00 | 0.00 | 0.00 |
| 34 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 | 0.00 |
| 35 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 36 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 37 | 8.00 | 8.00 | 8.00 | 0.00 | 0.00 | 0.00 |
| 38 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 | 0.00 |
| 39 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 | 0.00 |
| 40 | 12.00 | 12.00 | 12.00 | 0.00 | 0.00 | 0.00 |
| 41 | 12.00 | 12.00 | 12.00 | 0.00 | 0.00 | 0.00 |
| 42 | 12.00 | 12.00 | 12.00 | 0.00 | 0.00 | 0.00 |
| 43 | 12.00 | 12.00 | 12.00 | 0.00 | 0.00 | 0.00 |
| 44 | 13.00 | 13.00 | 13.00 | 0.00 | 0.00 | 0.00 |
| 45 | 13.00 | 13.00 | 13.00 | 0.00 | 0.00 | 0.00 |
| 46 | 13.00 | 13.00 | 13.00 | 0.00 | 0.00 | 0.00 |

| S-65B(Contd) | Gate 1 | Gate 2 | Gate 3 | | | |
|--------------|--------|--------|--------|------|------|------|
| 106 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 | 0.00 |
| 107 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 | 0.00 |
| 108 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 | 0.00 |
| 109 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 | 0.00 |
| 110 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 | 0.00 |
| 111 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 | 0.00 |
| 112 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 | 0.00 |
| 113 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 | 0.00 |
| 114 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 | 0.00 |
| 115 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 | 0.00 |
| 116 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 | 0.00 |
| 117 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 | 0.00 |
| 118 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 | 0.00 |
| 119 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 | 0.00 |
| 120 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 | 0.00 |
| 121 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 | 0.00 |
| 122 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 | 0.00 |
| 123 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 | 0.00 |
| 124 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 | 0.00 |
| 125 | 10.50 | 10.50 | 10.50 | 0.00 | 0.00 | 0.00 |
| 126 | 10.50 | 10.50 | 10.50 | 0.00 | 0.00 | 0.00 |
| 127 | 10.50 | 10.50 | 10.50 | 0.00 | 0.00 | 0.00 |
| 128 | 10.50 | 10.50 | 10.50 | 0.00 | 0.00 | 0.00 |
| 129 | 10.50 | 10.50 | 10.50 | 0.00 | 0.00 | 0.00 |
| 130 | 10.50 | 10.50 | 10.50 | 0.00 | 0.00 | 0.00 |
| 131 | 10.50 | 10.50 | 10.50 | 0.00 | 0.00 | 0.00 |
| 132 | 10.50 | 10.50 | 10.50 | 0.00 | 0.00 | 0.00 |
| 133 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 | 0.00 |
| 134 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 | 0.00 |
| 135 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 | 0.00 |
| 136 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 | 0.00 |
| 137 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 | 0.00 |
| 138 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 | 0.00 |
| 139 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 | 0.00 |
| 140 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 | 0.00 |
| 141 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 | 0.00 |
| 142 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 | 0.00 |
| 143 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 | 0.00 |
| 144 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 | 0.00 |
| 145 | 8.50 | 8.50 | 8.50 | 0.00 | 0.00 | 0.00 |
| 146 | 8.00 | 8.00 | 8.00 | 0.00 | 0.00 | 0.00 |
| 147 | 8.00 | 8.00 | 8.00 | 0.00 | 0.00 | 0.00 |
| 148 | 8.00 | 8.00 | 8.00 | 0.00 | 0.00 | 0.00 |
| 149 | 8.00 | 8.00 | 8.00 | 0.00 | 0.00 | 0.00 |
| 150 | 8.00 | 8.00 | 8.00 | 0.00 | 0.00 | 0.00 |
| 151 | 8.00 | 8.00 | 8.00 | 0.00 | 0.00 | 0.00 |
| 152 | 8.00 | 8.00 | 8.00 | 0.00 | 0.00 | 0.00 |
| 153 | 7.50 | 7.50 | 7.50 | 0.00 | 0.00 | 0.00 |
| 154 | 7.50 | 7.50 | 7.50 | 0.00 | 0.00 | 0.00 |
| 155 | 7.50 | 7.50 | 7.50 | 0.00 | 0.00 | 0.00 |
| 156 | 7.50 | 7.50 | 7.50 | 0.00 | 0.00 | 0.00 |
| 157 | 7.50 | 7.50 | 7.50 | 0.00 | 0.00 | 0.00 |
| 158 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 159 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 160 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 161 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 162 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 163 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 164 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |

S-65B(Contd)Gate 1Gate 3Gate 3

| | | | | | | |
|-----|------|------|------|------|------|------|
| 165 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 166 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 167 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 168 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 169 | 6.50 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 170 | 6.50 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 171 | 6.50 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 172 | 6.50 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 173 | 6.50 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 174 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 175 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 176 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 177 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 178 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 179 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 180 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 181 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 182 | 6.50 | 7.50 | 6.50 | 0.00 | 0.00 | 0.00 |
| 183 | 6.50 | 7.50 | 6.50 | 0.00 | 0.00 | 0.00 |
| 184 | 6.50 | 7.50 | 6.50 | 0.00 | 0.00 | 0.00 |
| 185 | 6.50 | 7.50 | 6.50 | 0.00 | 0.00 | 0.00 |
| 186 | 6.50 | 7.50 | 6.50 | 0.00 | 0.00 | 0.00 |
| 187 | 6.50 | 7.50 | 6.50 | 0.00 | 0.00 | 0.00 |
| 188 | 6.50 | 7.50 | 6.50 | 0.00 | 0.00 | 0.00 |
| 189 | 6.50 | 7.50 | 6.50 | 0.00 | 0.00 | 0.00 |
| 190 | 6.50 | 7.50 | 6.50 | 0.00 | 0.00 | 0.00 |
| 191 | 6.50 | 7.50 | 6.50 | 0.00 | 0.00 | 0.00 |
| 192 | 6.00 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 193 | 6.00 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 194 | 6.00 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 195 | 6.00 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 196 | 6.00 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 197 | 6.00 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 198 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 199 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 200 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 201 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 202 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 203 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 204 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 205 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 206 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 207 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 208 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 209 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 210 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 211 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 212 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 213 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 214 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 215 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 216 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 217 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 218 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 219 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 220 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 221 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 222 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 223 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |

S-65B(Contd)Gate 1Gate 2Gate 3

| | | | | | | |
|-----|------|------|------|------|------|------|
| 224 | 6.50 | 7.00 | 7.00 | 0.00 | 0.00 | 0.00 |
| 225 | 6.50 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 226 | 6.50 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 227 | 6.50 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 228 | 6.50 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 229 | 6.50 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 230 | 6.50 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 231 | 6.50 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 232 | 6.50 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 233 | 6.50 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 234 | 6.50 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 235 | 6.50 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 236 | 6.50 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 237 | 6.50 | 7.00 | 6.50 | 0.00 | 0.00 | 0.00 |
| 238 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 239 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 240 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 241 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 242 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 243 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 244 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 245 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 246 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 247 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 248 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 249 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 250 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 251 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 252 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 253 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 254 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 255 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 256 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 257 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 258 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 259 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 260 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 261 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 262 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 263 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 264 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 265 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 266 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 267 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 268 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 269 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 270 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 271 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 272 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 273 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 274 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 275 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 276 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 277 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 278 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 279 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 280 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 281 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 282 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |

S-65B(Contd)Gate 1Gate 2Gate 3

| | | | | | | |
|-----|------|------|------|------|------|------|
| 283 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 284 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 285 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 286 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 287 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 288 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 289 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 290 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 291 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 292 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 293 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 294 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 295 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 296 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 297 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 298 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 299 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 300 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 301 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 302 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 303 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 304 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 305 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 306 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 307 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 308 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 309 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 310 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 311 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 312 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 313 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 314 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 315 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 316 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 317 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 318 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 319 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 320 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 321 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 322 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 323 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 324 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 325 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 326 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 327 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 328 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 329 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 330 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 331 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 332 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 333 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 334 | 6.00 | 6.50 | 6.00 | 0.00 | 0.00 | 0.00 |
| 335 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 336 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 337 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 338 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 339 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 340 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 341 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| 342 | 6.00 | 6.00 | 6.00 | | | |

Time

Time

S-65C

| | <u>Gate 1</u> | <u>Gate 2</u> | <u>Gate 3</u> | <u>Gate 4</u> | | |
|----|---------------|---------------|---------------|---------------|------|------|
| -1 | 3.25 | 3.00 | 3.00 | 3.00 | 0.00 | 0.00 |
| 2 | 3.25 | 3.00 | 3.00 | 3.00 | 0.00 | 0.00 |
| 3 | 3.25 | 3.00 | 3.00 | 3.00 | 0.00 | 0.00 |
| 4 | 3.25 | 3.00 | 3.00 | 3.00 | 0.00 | 0.00 |
| 5 | 3.00 | 3.00 | 3.00 | 3.00 | 0.00 | 0.00 |
| 6 | 3.00 | 3.00 | 3.00 | 3.00 | 0.00 | 0.00 |
| 7 | 3.00 | 3.00 | 3.00 | 3.00 | 0.00 | 0.00 |
| 8 | 3.00 | 3.00 | 3.00 | 3.00 | 0.00 | 0.00 |
| 9 | 3.00 | 3.00 | 3.00 | 3.00 | 0.00 | 0.00 |
| 10 | 3.00 | 3.00 | 3.00 | 3.00 | 0.00 | 0.00 |
| 11 | 3.00 | 3.00 | 3.00 | 3.00 | 0.00 | 0.00 |
| 12 | 3.00 | 3.00 | 3.00 | 3.00 | 0.00 | 0.00 |
| 13 | 3.25 | 3.25 | 3.25 | 3.25 | 0.00 | 0.00 |
| 14 | 3.25 | 3.25 | 3.25 | 3.25 | 0.00 | 0.00 |
| 15 | 3.50 | 3.50 | 3.50 | 3.50 | 0.00 | 0.00 |
| 16 | 3.50 | 3.50 | 3.50 | 3.50 | 0.00 | 0.00 |
| 17 | 3.75 | 3.75 | 3.75 | 3.75 | 0.00 | 0.00 |
| 18 | 3.75 | 3.75 | 3.75 | 3.75 | 0.00 | 0.00 |
| 19 | 3.75 | 3.75 | 3.75 | 3.75 | 0.00 | 0.00 |
| 20 | 3.75 | 3.75 | 3.75 | 3.75 | 0.00 | 0.00 |
| 21 | 3.75 | 3.75 | 3.75 | 3.75 | 0.00 | 0.00 |
| 22 | 3.75 | 3.75 | 3.75 | 3.75 | 0.00 | 0.00 |
| 23 | 3.75 | 3.75 | 3.75 | 3.75 | 0.00 | 0.00 |
| 24 | 3.75 | 3.75 | 3.75 | 3.75 | 0.00 | 0.00 |
| 25 | 4.25 | 4.25 | 4.25 | 4.25 | 0.00 | 0.00 |
| 26 | 4.25 | 4.25 | 4.25 | 4.25 | 0.00 | 0.00 |
| 27 | 4.25 | 4.25 | 4.25 | 4.25 | 0.00 | 0.00 |
| 28 | 4.25 | 4.25 | 4.25 | 4.25 | 0.00 | 0.00 |
| 29 | 4.25 | 4.25 | 4.25 | 4.25 | 0.00 | 0.00 |
| 30 | 4.25 | 4.25 | 4.25 | 4.25 | 0.00 | 0.00 |
| 31 | 4.25 | 4.25 | 4.25 | 4.25 | 0.00 | 0.00 |
| 32 | 4.25 | 4.25 | 4.25 | 4.25 | 0.00 | 0.00 |
| 33 | 4.25 | 4.25 | 4.25 | 4.25 | 0.00 | 0.00 |
| 34 | 4.50 | 4.50 | 4.75 | 4.75 | 0.00 | 0.00 |

| S-65C (Contd) | Gate 1 | Gate 2 | Gate 3 | Gate 4 | | |
|---------------|--------|--------|--------|--------|------|------|
| 35 | 4.50 | 4.50 | 4.75 | 4.75 | 0.00 | 0.00 |
| 36 | 5.00 | 5.00 | 5.25 | 5.25 | 0.00 | 0.00 |
| 37 | 5.50 | 5.50 | 5.75 | 6.00 | 0.00 | 0.00 |
| 38 | 7.00 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 |
| 39 | 7.50 | 7.50 | 7.50 | 7.50 | 0.00 | 0.00 |
| 40 | 9.00 | 9.00 | 9.00 | 9.00 | 0.00 | 0.00 |
| 41 | 9.00 | 9.00 | 9.00 | 9.00 | 0.00 | 0.00 |
| 42 | 9.00 | 9.00 | 9.00 | 9.00 | 0.00 | 0.00 |
| 43 | 9.00 | 9.00 | 9.00 | 9.00 | 0.00 | 0.00 |
| 44 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 45 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 46 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 47 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 48 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 49 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 50 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 51 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 52 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 53 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 54 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 55 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 56 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 57 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 58 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 59 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 60 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 61 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 62 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 63 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 64 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 65 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 66 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 67 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 68 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 69 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 70 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 71 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 72 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 73 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 74 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 75 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 76 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 77 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 78 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 79 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 80 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 81 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 82 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 83 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 84 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 85 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 86 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 87 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 88 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 89 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 90 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 91 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 92 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 93 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |

| <u>S-65C(Contd)</u> | <u>Gate 1</u> | <u>Gate 2</u> | <u>Gate 3</u> | <u>Gate 4</u> | | |
|---------------------|---------------|---------------|---------------|---------------|------|------|
| 94 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 95 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 96 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 97 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 98 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 99 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 100 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 101 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 102 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 103 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 104 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 105 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 106 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 107 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 108 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 109 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 110 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 111 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 112 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 113 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 114 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 115 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 116 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 117 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 118 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 119 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 120 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 121 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 122 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 123 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 124 | 8.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 125 | 7.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 126 | 6.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 127 | 5.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 128 | 5.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 129 | 5.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 130 | 5.00 | 10.00 | 10.00 | 9.00 | 0.00 | 0.00 |
| 131 | 5.00 | 10.00 | 10.00 | 8.00 | 0.00 | 0.00 |
| 132 | 5.00 | 10.00 | 10.00 | 8.00 | 0.00 | 0.00 |
| 133 | 5.00 | 10.00 | 10.00 | 8.00 | 0.00 | 0.00 |
| 134 | 5.00 | 10.00 | 10.00 | 8.00 | 0.00 | 0.00 |
| 135 | 5.00 | 10.00 | 10.00 | 8.00 | 0.00 | 0.00 |
| 136 | 5.00 | 10.00 | 10.00 | 8.00 | 0.00 | 0.00 |
| 137 | 5.00 | 10.00 | 10.00 | 8.00 | 0.00 | 0.00 |
| 138 | 5.00 | 10.00 | 10.00 | 8.00 | 0.00 | 0.00 |
| 139 | 5.00 | 10.00 | 10.00 | 8.00 | 0.00 | 0.00 |
| 140 | 5.00 | 10.00 | 10.00 | 8.00 | 0.00 | 0.00 |
| 141 | 5.00 | 10.00 | 10.00 | 8.00 | 0.00 | 0.00 |
| 142 | 5.00 | 10.00 | 10.00 | 8.00 | 0.00 | 0.00 |
| 143 | 5.00 | 10.00 | 10.00 | 8.00 | 0.00 | 0.00 |
| 144 | 5.00 | 10.00 | 10.00 | 8.00 | 0.00 | 0.00 |
| 145 | 5.00 | 10.00 | 10.00 | 6.00 | 0.00 | 0.00 |
| 146 | 5.00 | 10.00 | 10.00 | 6.00 | 0.00 | 0.00 |
| 147 | 5.00 | 10.00 | 10.00 | 5.00 | 0.00 | 0.00 |
| 148 | 5.00 | 10.00 | 10.00 | 5.00 | 0.00 | 0.00 |
| 149 | 5.00 | 10.00 | 10.00 | 5.00 | 0.00 | 0.00 |
| 150 | 5.00 | 10.00 | 10.00 | 5.00 | 0.00 | 0.00 |
| 151 | 5.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 152 | 5.00 | 9.00 | 9.00 | 5.00 | 0.00 | 0.00 |

| <u>S-65C(Contd)</u> | <u>Gate 1</u> | <u>Gate 2</u> | <u>Gate 3</u> | <u>Gate 4</u> | | |
|---------------------|---------------|---------------|---------------|---------------|------|------|
| 153 | 5.00 | 6.00 | 8.00 | 5.00 | 0.00 | 0.00 |
| 154 | 5.00 | 6.00 | 6.00 | 5.00 | 0.00 | 0.00 |
| 155 | 5.00 | 6.00 | 6.00 | 5.00 | 0.00 | 0.00 |
| 156 | 5.00 | 8.00 | 6.00 | 5.00 | 0.00 | 0.00 |
| 157 | 5.00 | 6.00 | 6.00 | 5.00 | 0.00 | 0.00 |
| 158 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 159 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 160 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 161 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 162 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 163 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 164 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 165 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 166 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 167 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 168 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 169 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 170 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 171 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 172 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 173 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 174 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 175 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 176 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 177 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 178 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 179 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 180 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 181 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 182 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 183 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 184 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 185 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 186 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 187 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 188 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 189 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 190 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 191 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 192 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 193 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 194 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 195 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 196 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 197 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 198 | 5.50 | 5.50 | 5.50 | 5.50 | 0.00 | 0.00 |
| 199 | 5.50 | 5.50 | 5.50 | 5.50 | 0.00 | 0.00 |
| 200 | 5.50 | 5.50 | 5.50 | 5.50 | 0.00 | 0.00 |
| 201 | 5.50 | 5.50 | 5.50 | 5.50 | 0.00 | 0.00 |
| 202 | 5.50 | 5.50 | 5.50 | 5.50 | 0.00 | 0.00 |
| 203 | 5.50 | 5.50 | 5.50 | 5.50 | 0.00 | 0.00 |
| 204 | 5.50 | 5.50 | 5.50 | 5.50 | 0.00 | 0.00 |
| 205 | 5.50 | 5.50 | 5.50 | 5.50 | 0.00 | 0.00 |
| 206 | 5.50 | 5.50 | 5.50 | 5.50 | 0.00 | 0.00 |
| 207 | 5.50 | 5.50 | 5.50 | 5.50 | 0.00 | 0.00 |
| 208 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 209 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 210 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 211 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |

S-65C (Contd)Gate 1Gate 2Gate 3Gate 4

| | | | | | | |
|-----|------|------|------|------|------|------|
| 212 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 213 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 214 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 215 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 216 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 217 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 218 | 5.25 | 5.25 | 5.25 | 5.00 | 0.00 | 0.00 |
| 219 | 5.25 | 5.25 | 5.25 | 5.00 | 0.00 | 0.00 |
| 220 | 5.25 | 5.25 | 5.25 | 5.00 | 0.00 | 0.00 |
| 221 | 5.25 | 5.25 | 5.25 | 5.00 | 0.00 | 0.00 |
| 222 | 5.25 | 5.25 | 5.25 | 5.25 | 0.00 | 0.00 |
| 223 | 5.25 | 5.25 | 5.25 | 5.25 | 0.00 | 0.00 |
| 224 | 5.25 | 5.25 | 5.25 | 5.25 | 0.00 | 0.00 |
| 225 | 5.25 | 5.25 | 5.25 | 5.25 | 0.00 | 0.00 |
| 226 | 5.00 | 5.25 | 5.00 | 5.00 | 0.00 | 0.00 |
| 227 | 5.00 | 5.25 | 5.00 | 5.00 | 0.00 | 0.00 |
| 228 | 5.00 | 5.25 | 5.00 | 5.00 | 0.00 | 0.00 |
| 229 | 5.00 | 5.25 | 5.00 | 5.00 | 0.00 | 0.00 |
| 230 | 5.00 | 5.25 | 5.00 | 5.00 | 0.00 | 0.00 |
| 231 | 5.00 | 5.25 | 5.00 | 5.00 | 0.00 | 0.00 |
| 232 | 5.00 | 5.25 | 5.00 | 5.00 | 0.00 | 0.00 |
| 233 | 5.00 | 5.25 | 5.00 | 5.00 | 0.00 | 0.00 |
| 234 | 5.00 | 5.25 | 5.00 | 5.00 | 0.00 | 0.00 |
| 235 | 5.00 | 5.25 | 5.00 | 5.00 | 0.00 | 0.00 |
| 236 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 237 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 238 | 5.00 | 5.00 | 5.00 | 5.00 | 0.00 | 0.00 |
| 239 | 4.50 | 4.75 | 4.75 | 4.50 | 0.00 | 0.00 |
| 240 | 4.50 | 4.75 | 4.75 | 4.50 | 0.00 | 0.00 |
| 241 | 4.50 | 4.75 | 4.75 | 4.50 | 0.00 | 0.00 |
| 242 | 4.50 | 4.75 | 4.75 | 4.50 | 0.00 | 0.00 |
| 243 | 4.50 | 4.75 | 4.75 | 4.50 | 0.00 | 0.00 |
| 244 | 4.50 | 4.75 | 4.75 | 4.50 | 0.00 | 0.00 |
| 245 | 4.50 | 4.75 | 4.75 | 4.50 | 0.00 | 0.00 |
| 246 | 4.50 | 4.75 | 4.75 | 4.50 | 0.00 | 0.00 |
| 247 | 4.50 | 4.75 | 4.75 | 4.50 | 0.00 | 0.00 |
| 248 | 4.50 | 4.75 | 4.75 | 4.50 | 0.00 | 0.00 |
| 249 | 4.50 | 4.75 | 4.75 | 4.50 | 0.00 | 0.00 |
| 250 | 4.50 | 4.75 | 4.75 | 4.50 | 0.00 | 0.00 |
| 251 | 4.50 | 4.75 | 4.75 | 4.50 | 0.00 | 0.00 |
| 252 | 4.50 | 4.75 | 4.75 | 4.50 | 0.00 | 0.00 |
| 253 | 4.50 | 4.75 | 4.75 | 4.50 | 0.00 | 0.00 |
| 254 | 4.50 | 4.75 | 4.75 | 4.50 | 0.00 | 0.00 |
| 255 | 4.50 | 4.75 | 4.75 | 4.50 | 0.00 | 0.00 |
| 256 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 257 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 258 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 259 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 260 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 261 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 262 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 263 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 264 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 265 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 266 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 267 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 268 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 269 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 270 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |

S-65C(Contd)Gate 1Gate 2Gate 3Gate 4

| | | | | | | |
|-----|------|------|------|------|------|------|
| 271 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 272 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 273 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 274 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 275 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 276 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 277 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 278 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 279 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 280 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 281 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 282 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 283 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 284 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 285 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 286 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 287 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 288 | 4.50 | 4.50 | 4.50 | 4.50 | 0.00 | 0.00 |
| 289 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 290 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 291 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 292 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 293 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 294 | 4.50 | 4.75 | 4.50 | 4.50 | 0.00 | 0.00 |
| 295 | 4.50 | 4.75 | 4.50 | 4.50 | 0.00 | 0.00 |
| 296 | 4.50 | 4.75 | 4.50 | 4.50 | 0.00 | 0.00 |
| 297 | 4.50 | 4.75 | 4.50 | 4.50 | 0.00 | 0.00 |
| 298 | 4.50 | 4.75 | 4.50 | 4.50 | 0.00 | 0.00 |
| 299 | 4.50 | 4.75 | 4.50 | 4.50 | 0.00 | 0.00 |
| 300 | 4.50 | 4.75 | 4.50 | 4.50 | 0.00 | 0.00 |
| 301 | 4.50 | 4.75 | 4.50 | 4.50 | 0.00 | 0.00 |
| 302 | 4.50 | 4.75 | 4.50 | 4.50 | 0.00 | 0.00 |
| 303 | 4.50 | 4.75 | 4.50 | 4.50 | 0.00 | 0.00 |
| 304 | 4.50 | 4.75 | 4.50 | 4.50 | 0.00 | 0.00 |
| 305 | 4.50 | 4.75 | 4.50 | 4.50 | 0.00 | 0.00 |
| 306 | 4.50 | 4.75 | 4.50 | 4.50 | 0.00 | 0.00 |
| 307 | 4.50 | 4.75 | 4.50 | 4.50 | 0.00 | 0.00 |
| 308 | 4.50 | 4.75 | 4.50 | 4.50 | 0.00 | 0.00 |
| 309 | 4.50 | 4.75 | 4.50 | 4.50 | 0.00 | 0.00 |
| 310 | 4.50 | 4.75 | 4.50 | 4.50 | 0.00 | 0.00 |
| 311 | 4.50 | 4.75 | 4.50 | 4.50 | 0.00 | 0.00 |
| 312 | 4.50 | 4.75 | 4.50 | 4.50 | 0.00 | 0.00 |
| 313 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 314 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 315 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 316 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 317 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 318 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 319 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 320 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 321 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 322 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 323 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 324 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 325 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 326 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 327 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 328 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 329 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |

| <u>S-65C (Contd)</u> | <u>Gate 1</u> | <u>Gate 2</u> | <u>Gate 3</u> | <u>Gate 4</u> | | |
|----------------------|---------------|---------------|---------------|---------------|------|------|
| 330 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 331 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 332 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 333 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 334 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 335 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 336 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 337 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 338 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 339 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 340 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 341 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |
| 342 | 4.25 | 4.25 | 4.50 | 4.50 | 0.00 | 0.00 |

Time.

S-65D

| Time | Gate <u>1</u> | Gate <u>2</u> | Gate <u>3</u> | Gate <u>4</u> | | |
|------|------------------|------------------|------------------|------------------|------|------|
| 1 | 3.50 | 3.50 | 4.25 | 3.50 | 0.00 | 0.00 |
| 2 | 3.50 | 3.50 | 4.25 | 3.50 | 0.00 | 0.00 |
| 3 | 3.50 | 3.50 | 4.25 | 3.50 | 0.00 | 0.00 |
| 4 | 3.50 | 3.50 | 4.25 | 3.50 | 0.00 | 0.00 |
| 5 | 3.50 | 3.50 | 4.25 | 3.50 | 0.00 | 0.00 |
| 6 | 3.50 | 3.50 | 4.25 | 3.50 | 0.00 | 0.00 |
| 7 | 3.50 | 3.50 | 4.25 | 3.50 | 0.00 | 0.00 |
| 8 | 3.50 | 3.50 | 4.25 | 3.50 | 0.00 | 0.00 |
| 9 | 3.50 | 3.50 | 4.25 | 3.50 | 0.00 | 0.00 |
| 10 | 3.50 | 4.50 | 4.25 | 3.50 | 0.00 | 0.00 |
| 11 | 3.50 | 4.50 | 4.25 | 3.50 | 0.00 | 0.00 |
| 12 | 3.50 | 4.50 | 4.25 | 3.50 | 0.00 | 0.00 |
| 13 | 3.50 | 5.00 | 4.50 | 3.50 | 0.00 | 0.00 |
| 14 | 3.50 | 5.00 | 4.50 | 3.50 | 0.00 | 0.00 |
| 15 | 4.00 | 4.50 | 4.75 | 4.75 | 0.00 | 0.00 |
| 16 | 4.00 | 4.50 | 4.75 | 4.75 | 0.00 | 0.00 |
| 17 | 5.00 | 4.75 | 4.75 | 4.75 | 0.00 | 0.00 |
| 18 | 5.00 | 4.75 | 4.75 | 4.75 | 0.00 | 0.00 |
| 19 | 5.00 | 4.75 | 4.75 | 4.75 | 0.00 | 0.00 |
| 20 | 5.00 | 4.75 | 4.75 | 4.75 | 0.00 | 0.00 |
| 21 | 5.00 | 4.75 | 4.75 | 4.75 | 0.00 | 0.00 |
| 22 | 5.00 | 4.75 | 4.75 | 4.75 | 0.00 | 0.00 |

S-65D(Contd)Gate 1Gate 2Gate 3Gate 4

| | | | | | | |
|----|-------|-------|-------|-------|------|------|
| 23 | 5.00 | 4.75 | 4.75 | 4.75 | 0.00 | 0.00 |
| 24 | 5.00 | 4.75 | 4.75 | 4.75 | 0.00 | 0.00 |
| 25 | 5.00 | 7.00 | 4.75 | 4.75 | 0.00 | 0.00 |
| 26 | 5.00 | 7.00 | 4.75 | 4.75 | 0.00 | 0.00 |
| 27 | 5.00 | 7.00 | 4.75 | 4.75 | 0.00 | 0.00 |
| 28 | 5.00 | 7.00 | 4.75 | 4.75 | 0.00 | 0.00 |
| 29 | 5.00 | 7.00 | 4.75 | 4.75 | 0.00 | 0.00 |
| 30 | 5.00 | 6.25 | 4.75 | 4.75 | 0.00 | 0.00 |
| 31 | 5.00 | 6.25 | 4.75 | 4.75 | 0.00 | 0.00 |
| 32 | 5.00 | 6.25 | 4.75 | 4.75 | 0.00 | 0.00 |
| 33 | 5.00 | 6.25 | 4.75 | 4.75 | 0.00 | 0.00 |
| 34 | 6.00 | 6.25 | 6.00 | 4.75 | 0.00 | 0.00 |
| 35 | 6.00 | 6.25 | 6.00 | 4.75 | 0.00 | 0.00 |
| 36 | 6.75 | 6.25 | 6.75 | 6.25 | 0.00 | 0.00 |
| 37 | 8.75 | 8.75 | 8.75 | 8.75 | 0.00 | 0.00 |
| 38 | 8.75 | 8.75 | 8.75 | 8.75 | 0.00 | 0.00 |
| 39 | 10.75 | 10.75 | 10.75 | 10.75 | 0.00 | 0.00 |
| 40 | 10.75 | 10.75 | 10.75 | 10.75 | 0.00 | 0.00 |
| 41 | 11.50 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 |
| 42 | 11.50 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 |
| 43 | 11.50 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 |
| 44 | 11.50 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 |
| 45 | 11.50 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 |
| 46 | 11.50 | 11.50 | 11.50 | 11.50 | 0.00 | 0.00 |
| 47 | 12.00 | 12.00 | 12.00 | 12.00 | 0.00 | 0.00 |
| 48 | 12.00 | 12.00 | 12.00 | 12.00 | 0.00 | 0.00 |
| 49 | 12.00 | 12.00 | 12.00 | 12.00 | 0.00 | 0.00 |
| 50 | 12.00 | 12.00 | 12.00 | 12.00 | 0.00 | 0.00 |
| 51 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 52 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 53 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 54 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 55 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 56 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 57 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 58 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 59 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 60 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 61 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 62 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 63 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 64 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 65 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 66 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 67 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 68 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 69 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 70 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 71 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 72 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 73 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 74 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 75 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 76 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 77 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 78 | 11.00 | 11.00 | 11.00 | 11.00 | 0.00 | 0.00 |
| 79 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 80 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 81 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |

| <u>S-65D(Contd)</u> | <u>Gate 1</u> | <u>Gate 2</u> | <u>Gate 3</u> | <u>Gate 4</u> | | |
|---------------------|---------------|---------------|---------------|---------------|------|------|
| 82 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 83 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 84 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 85 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 86 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 87 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 88 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 89 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 90 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 91 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 92 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 93 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 94 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 95 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 96 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 97 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 98 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 99 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 100 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 101 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 102 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 103 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 104 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 105 | 9.50 | 9.50 | 9.50 | 9.50 | 0.00 | 0.00 |
| 106 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 107 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 108 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 109 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 110 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 111 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 112 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 113 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 114 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 115 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 116 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 117 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 118 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 119 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 120 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 121 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 122 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 123 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 124 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 125 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 126 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 127 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 128 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 129 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 130 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 131 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 132 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 133 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 134 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 135 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 136 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 137 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 138 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 139 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 140 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |

| <u>S-65D (Contd)</u> | <u>Gate 1</u> | <u>Gate 2</u> | <u>Gate 3</u> | <u>Gate 4</u> | | |
|----------------------|---------------|---------------|---------------|---------------|------|------|
| 141 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 142 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 143 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 144 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 145 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 146 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 147 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 148 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 149 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 150 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 151 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 152 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 | 0.00 |
| 153 | 9.00 | 9.00 | 9.00 | 9.00 | 0.00 | 0.00 |
| 154 | 8.00 | 8.00 | 8.00 | 8.00 | 0.00 | 0.00 |
| 155 | 8.00 | 8.00 | 8.00 | 8.00 | 0.00 | 0.00 |
| 156 | 8.00 | 8.00 | 8.00 | 8.00 | 0.00 | 0.00 |
| 157 | 8.00 | 8.00 | 8.00 | 8.00 | 0.00 | 0.00 |
| 158 | 7.00 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 |
| 159 | 7.00 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 |
| 160 | 7.00 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 |
| 161 | 7.00 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 |
| 162 | 7.00 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 |
| 163 | 7.00 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 |
| 164 | 7.00 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 |
| 165 | 7.00 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 |
| 166 | 7.00 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 |
| 167 | 7.00 | 7.00 | 7.00 | 7.00 | 0.00 | 0.00 |
| 168 | 6.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 169 | 6.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 170 | 6.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 171 | 6.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 172 | 6.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 173 | 6.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 174 | 6.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 175 | 6.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 176 | 6.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 177 | 6.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 178 | 6.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 179 | 6.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 180 | 6.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 181 | 6.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 182 | 6.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 183 | 5.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 184 | 5.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 185 | 5.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 186 | 5.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 187 | 5.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 188 | 5.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 189 | 5.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 190 | 5.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 191 | 5.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 192 | 5.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 193 | 5.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 194 | 5.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 195 | 5.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 196 | 5.50 | 6.50 | 6.50 | 6.00 | 0.00 | 0.00 |
| 197 | 5.50 | 6.50 | 6.50 | 6.00 | 0.00 | 0.00 |
| 198 | 5.50 | 6.50 | 6.50 | 6.00 | 0.00 | 0.00 |
| 199 | 6.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |

| <u>s-65D(Contd)</u> | <u>Gate 1</u> | <u>Gate 2</u> | <u>Gate 3</u> | <u>Gate 4</u> | | |
|---------------------|---------------|---------------|---------------|---------------|------|------|
| 200 | 6.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 201 | 6.50 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 202 | 6.25 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 203 | 6.25 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 204 | 6.25 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 205 | 6.25 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 206 | 6.25 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 207 | 6.25 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 208 | 6.25 | 6.50 | 6.50 | 6.50 | 0.00 | 0.00 |
| 209 | 5.50 | 6.50 | 5.50 | 5.25 | 0.00 | 0.00 |
| 210 | 5.50 | 6.50 | 5.50 | 5.25 | 0.00 | 0.00 |
| 211 | 5.50 | 6.50 | 5.50 | 5.25 | 0.00 | 0.00 |
| 212 | 5.50 | 6.50 | 5.50 | 5.25 | 0.00 | 0.00 |
| 213 | 5.50 | 6.50 | 5.50 | 5.25 | 0.00 | 0.00 |
| 214 | 5.50 | 6.50 | 5.50 | 5.25 | 0.00 | 0.00 |
| 215 | 5.50 | 6.50 | 5.50 | 5.25 | 0.00 | 0.00 |
| 216 | 5.50 | 6.50 | 5.50 | 5.25 | 0.00 | 0.00 |
| 217 | 5.50 | 6.50 | 5.50 | 5.25 | 0.00 | 0.00 |
| 218 | 5.50 | 6.50 | 5.50 | 5.25 | 0.00 | 0.00 |
| 219 | 5.50 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 220 | 5.50 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 221 | 5.50 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 222 | 5.50 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 223 | 5.50 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 224 | 5.50 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 225 | 5.50 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 226 | 5.00 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 227 | 5.00 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 228 | 5.00 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 229 | 5.00 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 230 | 5.00 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 231 | 5.00 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 232 | 5.00 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 233 | 5.00 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 234 | 5.00 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 235 | 5.00 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 236 | 5.00 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 237 | 5.00 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 238 | 5.00 | 7.00 | 7.00 | 5.25 | 0.00 | 0.00 |
| 239 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 240 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 241 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 242 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 243 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 244 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 245 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 246 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 247 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 248 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 249 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 250 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 251 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 252 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 253 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 254 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 255 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 256 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 257 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 258 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |

| <u>S-65D (Contd)</u> | <u>Gate 1</u> | <u>Gate 2</u> | <u>Gate 3</u> | <u>Gate 4</u> | | |
|----------------------|---------------|---------------|---------------|---------------|------|------|
| 259 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 260 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 261 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 262 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 263 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 264 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 265 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 266 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 267 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 268 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 269 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 270 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 271 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 272 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 273 | 5.00 | 6.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 274 | 6.77 | 6.77 | 6.77 | 6.77 | 0.00 | 0.00 |
| 275 | 6.77 | 6.77 | 6.77 | 6.77 | 0.00 | 0.00 |
| 276 | 6.77 | 6.77 | 6.77 | 6.77 | 0.00 | 0.00 |
| 277 | 6.77 | 6.77 | 6.77 | 6.77 | 0.00 | 0.00 |
| 278 | 6.77 | 6.77 | 6.77 | 6.77 | 0.00 | 0.00 |
| 279 | 6.77 | 6.77 | 6.77 | 6.77 | 0.00 | 0.00 |
| 280 | 6.77 | 6.77 | 6.77 | 6.77 | 0.00 | 0.00 |
| 281 | 6.77 | 6.77 | 6.77 | 6.77 | 0.00 | 0.00 |
| 282 | 6.77 | 6.77 | 6.77 | 6.77 | 0.00 | 0.00 |
| 283 | 6.77 | 6.77 | 6.77 | 6.77 | 0.00 | 0.00 |
| 284 | 6.77 | 6.77 | 6.77 | 6.77 | 0.00 | 0.00 |
| 285 | 6.77 | 6.77 | 6.77 | 6.77 | 0.00 | 0.00 |
| 286 | 6.77 | 6.77 | 6.77 | 6.77 | 0.00 | 0.00 |
| 287 | 6.77 | 6.77 | 6.77 | 6.77 | 0.00 | 0.00 |
| 288 | 6.77 | 6.77 | 6.77 | 6.77 | 0.00 | 0.00 |
| 289 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 290 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 291 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 292 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 293 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 294 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 295 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 296 | 5.00 | 5.50 | 5.75 | 5.25 | 0.00 | 0.00 |
| 297 | 5.00 | 5.50 | 5.75 | 5.25 | 0.00 | 0.00 |
| 298 | 5.00 | 5.50 | 5.75 | 5.25 | 0.00 | 0.00 |
| 299 | 5.00 | 5.50 | 5.75 | 5.25 | 0.00 | 0.00 |
| 300 | 5.00 | 5.50 | 5.75 | 5.25 | 0.00 | 0.00 |
| 301 | 5.00 | 5.50 | 5.75 | 5.25 | 0.00 | 0.00 |
| 302 | 5.00 | 5.50 | 5.75 | 5.25 | 0.00 | 0.00 |
| 303 | 5.00 | 5.50 | 5.75 | 5.25 | 0.00 | 0.00 |
| 304 | 5.00 | 5.50 | 5.75 | 5.25 | 0.00 | 0.00 |
| 305 | 5.00 | 5.50 | 5.75 | 5.25 | 0.00 | 0.00 |
| 306 | 5.00 | 5.50 | 5.75 | 5.25 | 0.00 | 0.00 |
| 307 | 5.00 | 5.50 | 5.75 | 5.25 | 0.00 | 0.00 |
| 308 | 5.00 | 5.50 | 5.75 | 5.25 | 0.00 | 0.00 |
| 309 | 5.00 | 5.50 | 5.75 | 5.25 | 0.00 | 0.00 |
| 310 | 5.00 | 5.50 | 5.75 | 5.25 | 0.00 | 0.00 |
| 311 | 5.00 | 5.50 | 5.75 | 5.25 | 0.00 | 0.00 |
| 312 | 5.00 | 5.50 | 5.75 | 5.25 | 0.00 | 0.00 |
| 313 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 314 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 315 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 316 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 317 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |

| <u>S-65D (Contd)</u> | <u>Gate 1</u> | <u>Gate 2</u> | <u>Gate 3</u> | <u>Gate 4</u> | | |
|----------------------|---------------|---------------|---------------|---------------|------|------|
| 318 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 319 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 320 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 321 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 322 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 323 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 324 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 325 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 326 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 327 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 328 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 329 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 330 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 331 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 332 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 333 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 334 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 335 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 336 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 337 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 338 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 339 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 340 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 341 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |
| 342 | 5.00 | 5.50 | 5.00 | 5.25 | 0.00 | 0.00 |

Time

S-65E

| <u>Time</u> | <u>Gate</u> <u>1</u> | <u>Gate</u> <u>2</u> | <u>Gate</u> <u>3</u> | <u>Gate</u> <u>4</u> | <u>Gate</u> <u>5</u> | <u>Gate</u> <u>6</u> |
|-------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 1 | 1.50 | 3.00 | 3.00 | 3.50 | 2.75 | 2.75 |
| 2 | 1.50 | 3.00 | 3.00 | 3.50 | 2.75 | 2.75 |
| 3 | 1.50 | 3.00 | 3.00 | 3.50 | 2.75 | 2.75 |
| 4 | 1.50 | 3.00 | 3.00 | 2.50 | 2.75 | 2.75 |
| 5 | 1.50 | 3.00 | 3.00 | 2.50 | 2.75 | 2.75 |
| 6 | 1.50 | 3.00 | 3.00 | 2.50 | 2.75 | 2.75 |
| 7 | 1.50 | 3.00 | 3.00 | 2.50 | 2.75 | 2.75 |
| 8 | 1.50 | 3.00 | 3.00 | 2.50 | 2.75 | 2.75 |
| 9 | 1.50 | 3.00 | 3.00 | 2.50 | 2.75 | 2.75 |
| 10 | 3.00 | 3.00 | 3.00 | 3.00 | 2.75 | 2.75 |

S-65E(Contd.)Gate 1Gate 2Gate 3Gate 4Gate 5Gate 6

| | | | | | | |
|----|-------|-------|-------|-------|-------|-------|
| 11 | 3.00 | 3.00 | 3.00 | 3.00 | 2.75 | 2.75 |
| 12 | 3.00 | 3.00 | 3.00 | 3.00 | 2.75 | 2.75 |
| 13 | 3.00 | 3.00 | 3.00 | 3.00 | 2.75 | 2.75 |
| 14 | 3.00 | 3.00 | 3.00 | 3.00 | 3.50 | 2.75 |
| 15 | 3.00 | 3.00 | 3.00 | 4.25 | 3.50 | 2.75 |
| 16 | 3.00 | 3.00 | 3.00 | 4.25 | 3.50 | 2.75 |
| 17 | 3.00 | 3.00 | 3.00 | 4.25 | 3.50 | 2.75 |
| 18 | 3.00 | 3.00 | 3.00 | 4.25 | 3.50 | 2.75 |
| 19 | 3.00 | 3.00 | 3.00 | 4.25 | 3.50 | 2.75 |
| 20 | 3.00 | 3.00 | 3.00 | 4.25 | 3.50 | 2.75 |
| 21 | 3.00 | 3.00 | 3.00 | 4.25 | 3.50 | 2.75 |
| 22 | 3.00 | 3.00 | 3.00 | 4.25 | 3.50 | 2.75 |
| 23 | 3.00 | 3.00 | 3.00 | 4.25 | 3.50 | 2.75 |
| 24 | 3.00 | 3.00 | 3.00 | 4.25 | 3.50 | 2.75 |
| 25 | 3.00 | 4.50 | 4.50 | 4.25 | 4.50 | 2.75 |
| 26 | 3.00 | 4.50 | 4.50 | 4.25 | 4.50 | 2.75 |
| 27 | 3.00 | 4.50 | 4.50 | 4.25 | 4.50 | 2.75 |
| 28 | 3.00 | 4.50 | 4.50 | 4.25 | 4.50 | 3.25 |
| 29 | 3.00 | 3.00 | 4.50 | 4.25 | 3.50 | 2.75 |
| 30 | 3.00 | 3.00 | 4.50 | 4.25 | 3.50 | 2.75 |
| 31 | 3.00 | 3.00 | 4.50 | 4.25 | 3.50 | 2.75 |
| 32 | 3.00 | 3.00 | 4.50 | 4.25 | 3.50 | 2.75 |
| 33 | 3.00 | 3.00 | 4.50 | 4.25 | 3.50 | 2.75 |
| 34 | 5.00 | 4.50 | 4.50 | 6.00 | 4.50 | 3.25 |
| 35 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 36 | 6.00 | 8.00 | 8.00 | 6.00 | 6.00 | 6.00 |
| 37 | 6.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 |
| 38 | 6.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 |
| 39 | 8.00 | 10.00 | 8.00 | 8.00 | 8.00 | 8.00 |
| 40 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 |
| 41 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 |
| 42 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 |
| 43 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 |
| 44 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 |
| 45 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 |
| 46 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 |
| 47 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 |
| 48 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 |
| 49 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 |
| 50 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 |
| 51 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 52 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 |
| 53 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 |
| 54 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 |
| 55 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 56 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 57 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 58 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 |
| 59 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 60 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 61 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 62 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 63 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 64 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 65 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 66 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 67 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 68 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 69 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |

| <u>S-65E(Contd)</u> | <u>Gate 1</u> | <u>Gate 2</u> | <u>Gate 3</u> | <u>Gate 4</u> | <u>Gate 5</u> | <u>Gate 6</u> |
|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 70 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 71 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 72 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 73 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 74 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 75 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 76 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 77 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 78 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 79 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 80 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 81 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 82 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 83 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 84 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 85 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 86 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 87 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 88 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 89 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 90 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 91 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 92 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 93 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 94 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 95 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| 96 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| 97 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| 98 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| 99 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| 100 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| 101 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| 102 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| 103 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| 104 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| 105 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| 106 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| 107 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| 108 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| 109 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 110 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 111 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 112 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 113 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 114 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 115 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 116 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 117 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 118 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 119 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 120 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 121 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 122 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 123 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 124 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 125 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 126 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 127 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 128 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |

| S-65E(Contd) | Gate 1 | Gate 2 | Gate 3 | Gate 4 | Gate 5 | Gate 6 |
|--------------|--------|--------|--------|--------|--------|--------|
| 129 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 130 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 131 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 132 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 133 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 134 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 135 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 136 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 137 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 138 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 139 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 140 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 141 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 142 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 143 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 144 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 145 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 146 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 147 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 148 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 149 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 150 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 151 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 152 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 153 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 154 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| 155 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 156 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 157 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 158 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 159 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 160 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 161 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 162 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 163 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 164 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 165 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 166 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 167 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 168 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 169 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 170 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 171 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 172 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 173 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 174 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 175 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 176 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 177 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 178 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 179 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 180 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 181 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 182 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 183 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 184 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 185 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 186 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 187 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |

| <u>S-65E(Contd)</u> | <u>Gate 1</u> | <u>Gate 2</u> | <u>Gate 3</u> | <u>Gate 4</u> | <u>Gate 5</u> | <u>Gate 6</u> |
|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 188 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 189 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 190 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 191 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 192 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 193 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 194 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 195 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 196 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 197 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 198 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 199 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 200 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 201 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 202 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 203 | 5.00 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 204 | 5.00 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 205 | 5.00 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 206 | 5.00 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 207 | 5.00 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 208 | 5.00 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 |
| 209 | 5.00 | 5.00 | 5.00 | 5.00 | 4.75 | 4.75 |
| 210 | 5.00 | 5.00 | 5.00 | 5.00 | 4.75 | 4.75 |
| 211 | 5.00 | 5.00 | 5.00 | 5.00 | 4.75 | 4.75 |
| 212 | 5.00 | 5.00 | 5.00 | 5.00 | 4.75 | 4.75 |
| 213 | 5.00 | 5.00 | 5.00 | 5.00 | 4.75 | 4.75 |
| 214 | 5.00 | 5.00 | 5.00 | 5.00 | 4.75 | 4.75 |
| 215 | 5.00 | 5.00 | 5.00 | 5.00 | 4.75 | 4.75 |
| 216 | 5.00 | 5.00 | 5.00 | 5.00 | 4.75 | 4.75 |
| 217 | 5.00 | 5.00 | 4.50 | 5.00 | 4.75 | 4.75 |
| 218 | 5.00 | 5.00 | 4.50 | 5.00 | 4.75 | 4.75 |
| 219 | 5.00 | 5.00 | 4.50 | 5.00 | 4.75 | 4.75 |
| 220 | 5.00 | 5.00 | 4.50 | 5.00 | 4.75 | 4.75 |
| 221 | 5.00 | 5.00 | 4.50 | 5.00 | 4.75 | 4.75 |
| 222 | 5.00 | 5.00 | 4.50 | 5.00 | 4.75 | 4.75 |
| 223 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 224 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 225 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 226 | 4.25 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 227 | 4.25 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 228 | 4.25 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 229 | 4.25 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 230 | 4.25 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 231 | 4.25 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 232 | 4.25 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 233 | 4.25 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 234 | 4.25 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 235 | 4.25 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 236 | 4.25 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 237 | 4.25 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 238 | 4.25 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 239 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 240 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 241 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 242 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 243 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 244 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 245 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 246 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |

NO. 1000-101 N. 101 P. 101 P.

| <u>S-65E(Contd)</u> | <u>Gate 1</u> | <u>Gate 2</u> | <u>Gate 3</u> | <u>Gate 4</u> | <u>Gate 5</u> | <u>Gate 6</u> |
|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 247 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 248 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 249 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 250 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 251 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 252 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 253 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 254 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 255 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 256 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 257 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 258 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 259 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 260 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 261 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 262 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 263 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 264 | 4.25 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 |
| 265 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 4.50 |
| 266 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 4.50 |
| 267 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 4.50 |
| 268 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 4.50 |
| 269 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 4.50 |
| 270 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 4.50 |
| 271 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 4.50 |
| 272 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 4.50 |
| 273 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 4.50 |
| 274 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 4.50 |
| 275 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 4.50 |
| 276 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 3.75 |
| 277 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 3.75 |
| 278 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 3.75 |
| 279 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 3.75 |
| 280 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 3.75 |
| 281 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 3.75 |
| 282 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 3.75 |
| 283 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 3.75 |
| 284 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 3.75 |
| 285 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 3.75 |
| 286 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 3.75 |
| 287 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 3.75 |
| 288 | 4.25 | 4.50 | 3.75 | 4.50 | 4.50 | 3.75 |
| 289 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 3.75 |
| 290 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 3.75 |
| 291 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 3.75 |
| 292 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 3.75 |
| 293 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 3.75 |
| 294 | 4.25 | 4.25 | 3.75 | 4.50 | 4.00 | 3.75 |
| 295 | 4.25 | 4.25 | 3.75 | 4.50 | 4.00 | 3.75 |
| 296 | 4.25 | 4.25 | 3.75 | 4.50 | 4.00 | 3.75 |
| 297 | 4.25 | 4.25 | 3.75 | 4.50 | 4.00 | 3.75 |
| 298 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 4.00 |
| 299 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 4.00 |
| 300 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 4.00 |
| 301 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 4.00 |
| 302 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 4.00 |
| 303 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 4.00 |
| 304 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 4.00 |
| 305 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 4.00 |

| <u>S-65E(Contd).</u> | <u>Gate 1</u> | <u>Gate 2</u> | <u>Gate 3</u> | <u>Gate 4</u> | <u>Gate 5</u> | <u>Gate 6</u> |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 306 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 4.00 |
| 307 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 4.00 |
| 308 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 4.00 |
| 309 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 4.00 |
| 310 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 4.00 |
| 311 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 4.00 |
| 312 | 4.25 | 4.25 | 3.75 | 4.50 | 4.50 | 4.00 |
| 313 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 314 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 315 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 316 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 317 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 318 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 319 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 320 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 321 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 322 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 323 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 324 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 325 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 326 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 327 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 328 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 329 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 330 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 331 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 332 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 333 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 334 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 335 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 336 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 337 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 338 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 339 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 340 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 341 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |
| 342 | 4.25 | 4.25 | 3.75 | 4.25 | 4.00 | 4.00 |

Time

7.9 Damage Pattern Downstream of S-65D

Explanatory notes pertaining to the figure.

Numbers in red are the design elevation.

Numbers in blue are the soundings taken shortly after
high flows.



7.10 Hourly Stage and Discharge Values for S-65E, S-65D, S-65C
and S-65B.

Explanatory notes pertaining to the listings.

CANAL C-38 ED: Identification of the reach between S-65E and S-65D.

CANAL C-38 DC: Identification of the reach between S-65D and S-65C.

CANAL C-38 CB: Identification of the reach between S-65C and S-65B.

DAY: The calendar day number of the month of October in the year
1969.

TIME: Actual clock time of the day = 1, 2, ..., 23, 24.

1 corresponds to 1:00AM of the day and 24 corresponds to
Midnight of the day.

HWEU: Recorded headwater elevation at the upstream structure for
the reach, ft.

TWED: Recorded tailwater elevation in the case of S-65E and com-
puted tailwater elevation in case of S-65D, S-65C and S-65B,
ft.

HWED: Recorded headwater elevation at the downstream structure for
the reach, ft.

COMP TWEU: Computed tailwater elevation at the upstream structure
for the reach, ft.

COMP DH: COMP TWEU - HWED, in ft.

OBS TWEU: Recorded tailwater elevation at the upstream structure
for the reach, ft.

OBS DH: OBS TWEU - HWED, in ft.

DIFF: COMP TWEU - OBS TWEU, in ft.

QUP: Discharge through the upstream structure for the reach, cfs.

QDN: Discharge through the downstream structure for the reach,
cfs.

QL: Lateral inflow = QDN - QUP in cfs.

All the stage values are adjusted for error in datum plus a
constant of 12 feet.

CANGL C-38ED

✓

| DAY | TIME | HWBU | THED | CDMP | PH | DMS | TWEM | QMS | DH | DIFF | GUP | QDI | QL |
|-----|-------|-------|-------|-------|---------|-------|---------|---------|---------|---------|--------|-----|----|
| 1 | 8:00 | 38:87 | 71:15 | 33:03 | 0:07:37 | 33:15 | 0:1200 | -0.0402 | 5699.9 | 6471.6 | 771.7 | | |
| 2 | 9:00 | 38:87 | 71:14 | 33:06 | 0:07:47 | 33:12 | 0:1500 | -0.0702 | 5714.7 | 6454.8 | 740.1 | | |
| 1 | 10:00 | 38:87 | 71:13 | 33:02 | 0:07:37 | 33:12 | 0:1739 | -0.1002 | 5734.3 | 6436.0 | 703.6 | | |
| 1 | 11:00 | 38:87 | 71:13 | 32:98 | 0:07:10 | 33:12 | 0:1839 | -0.1490 | 5750.2 | 6409.0 | 596.0 | | |
| 1 | 12:00 | 38:87 | 71:13 | 32:93 | 0:07:10 | 33:12 | 0:2139 | -0.1199 | 5748.4 | 6379.4 | 508.4 | | |
| 1 | 13:00 | 38:87 | 71:13 | 32:92 | 0:07:10 | 33:11 | 0:1639 | -0.0999 | 5738.5 | 6347.5 | 328.3 | | |
| 1 | 14:00 | 38:87 | 71:13 | 32:97 | 0:07:11 | 33:04 | 0:1399 | -0.0688 | 5728.7 | 6317.5 | 343.8 | | |
| 1 | 15:00 | 38:87 | 71:14 | 32:99 | 0:07:10 | 33:11 | 0:1200 | -0.0499 | 5718.9 | 6287.5 | 364.2 | | |
| 1 | 16:00 | 38:87 | 71:14 | 32:91 | 0:07:11 | 33:10 | 0:0990 | -0.0194 | 5709.0 | 6257.2 | 401.7 | | |
| 1 | 17:00 | 38:87 | 71:15 | 33:08 | 0:08:37 | 33:10 | 0:0600 | 0:0277 | 5693.5 | 6230.9 | 438.9 | | |
| 1 | 18:00 | 38:87 | 71:15 | 33:12 | 0:09:03 | 33:10 | 0:0203 | 0:1018 | 6104.6 | 6190.9 | 478.3 | | |
| 1 | 19:00 | 38:94 | 27:11 | 33:10 | 0:09:16 | 33:10 | 0:0800 | 0:1018 | 6140.9 | 6148.9 | 499.7 | | |
| 1 | 20:00 | 39:06 | 27:08 | 33:11 | 0:09:04 | 33:10 | 0:0900 | 0:10014 | 6495.2 | 6221.8 | 442.3 | | |
| 1 | 21:00 | 39:06 | 27:05 | 33:01 | 0:09:46 | 33:11 | 0:0939 | -0.0081 | 6677.8 | 6283.8 | 519.7 | | |
| 1 | 22:00 | 39:10 | 27:20 | 33:00 | 0:11:12 | 33:12 | 0:1299 | -0.0189 | 7075.8 | 7519.8 | 544.9 | | |
| 1 | 23:00 | 39:10 | 27:19 | 33:01 | 0:11:12 | 33:11 | 0:0939 | -0.0112 | 7065.9 | 7520.3 | 777.7 | | |
| 1 | 24:00 | 39:10 | 27:18 | 33:02 | 0:11:27 | 33:10 | 0:0800 | 0:0329 | 7533.5 | 7637.4 | 1031.0 | | |
| 1 | 1:00 | 39:06 | 27:17 | 33:04 | 0:11:33 | 33:14 | 0:0999 | 0:1065 | 7514.2 | 7657.2 | 1366.5 | | |
| 1 | 2:00 | 39:06 | 27:15 | 33:04 | 0:11:33 | 33:15 | 0:0800 | 0:0553 | 7520.6 | 7633.5 | 149.5 | | |
| 1 | 3:00 | 39:07 | 27:14 | 33:04 | 0:11:34 | 33:15 | 0:0999 | -0.0179 | 7494.9 | 7683.5 | 188.6 | | |
| 1 | 4:00 | 39:07 | 27:13 | 33:06 | 0:11:37 | 33:19 | 0:1199 | -0.0182 | 7469.1 | 7739.8 | 240.6 | | |
| 1 | 5:00 | 39:05 | 27:12 | 33:06 | 0:11:41 | 33:20 | 0:1399 | -0.0358 | 7469.1 | 7739.8 | 240.6 | | |
| 1 | 6:00 | 39:04 | 27:11 | 33:08 | 0:11:41 | 33:20 | 0:1179 | -0.0163 | 8270.1 | 9181.6 | 1039.5 | | |
| 1 | 7:00 | 39:03 | 27:10 | 33:09 | 0:16:36 | 33:26 | 0:1500 | -0.0094 | 8283.0 | 9444.0 | 1210.9 | | |
| 1 | 8:00 | 39:03 | 27:10 | 33:20 | 0:16:55 | 33:27 | 0:1739 | -0.0456 | 7486.2 | 7772.9 | 266.6 | | |
| 1 | 9:00 | 39:00 | 27:02 | 33:10 | 0:16:55 | 33:27 | 0:1839 | -0.0456 | 7486.2 | 7772.9 | 266.6 | | |
| 1 | 10:00 | 38:96 | 26:94 | 33:10 | 0:16:75 | 33:26 | 0:1800 | 0:0259 | 8205.2 | 9708.7 | 1503.4 | | |
| 1 | 11:00 | 38:95 | 26:87 | 33:11 | 0:17:59 | 33:26 | 0:1839 | -0.0616 | 8251.9 | 8492.9 | 239.0 | | |
| 1 | 12:00 | 38:92 | 26:81 | 33:05 | 0:1888 | 33:26 | 0:1919 | -0.0636 | 7951.9 | 8417.4 | 482.2 | | |
| 1 | 13:00 | 38:90 | 26:89 | 33:05 | 0:1863 | 33:25 | 0:1919 | -0.0636 | 7951.9 | 8417.4 | 482.2 | | |
| 2 | 14:00 | 38:89 | 26:98 | 33:06 | 0:1845 | 33:25 | 0:1890 | -0.0554 | 7943.0 | 8313.6 | 438.5 | | |
| 2 | 15:00 | 38:87 | 27:06 | 33:06 | 0:1826 | 33:25 | 0:1890 | -0.0571 | 7937.2 | 8325.4 | 388.1 | | |
| 2 | 16:00 | 38:87 | 27:15 | 33:07 | 0:1810 | 33:25 | 0:1739 | -0.0489 | 7924.5 | 8268.8 | 344.3 | | |
| 2 | 17:00 | 38:99 | 27:24 | 33:08 | 0:21:08 | 33:29 | -0:0300 | 0:1699 | 8793.7 | 10957.7 | 2061.7 | | |
| 2 | 18:00 | 39:11 | 27:66 | 33:08 | 0:25:42 | 33:30 | -0:0300 | 0:3642 | 8627.0 | 13845.0 | 5217.9 | | |
| 2 | 19:00 | 39:30 | 27:60 | 33:16 | 0:27:01 | 33:30 | 0:1399 | 0:2710 | 9911.4 | 15215.6 | 5360.9 | | |
| 2 | 20:00 | 39:30 | 27:38 | 33:07 | 0:28:01 | 33:30 | 0:2239 | 0:3401 | 13314.6 | 17779.2 | 4464.6 | | |
| 2 | 21:00 | 39:41 | 27:69 | 33:13 | 0:29:01 | 33:30 | 0:1099 | 0:4242 | 13404.2 | 17378.1 | 3973.8 | | |
| 2 | 22:00 | 39:73 | 28:02 | 33:19 | 0:31:42 | 33:30 | -0:0600 | 0:5014 | 16703.6 | 18410.1 | 1700.4 | | |
| 2 | 23:00 | 39:91 | 28:25 | 33:38 | 0:33:35 | 33:35 | -0:0600 | 0:8918 | 16390.2 | 22013.0 | 5622.6 | | |
| 2 | 24:00 | 40:10 | 28:35 | 33:42 | 0:34:46 | 33:44 | -0:1600 | 0:9868 | 17675.5 | 22076.6 | 4381.0 | | |
| 3 | 1:00 | 40:21 | 28:45 | 33:60 | 0:37:06 | 33:44 | -0:1600 | 1:0008 | 17115.2 | 22100.1 | 4386.6 | | |
| 3 | 2:00 | 40:35 | 28:94 | 33:71 | 0:42:06 | 33:52 | -0:2100 | 1:0226 | 17742.8 | 22121.8 | 4378.9 | | |
| 3 | 3:00 | 40:48 | 28:65 | 33:83 | 0:48:46 | 33:54 | -0:1519 | 0:9938 | 17832.5 | 22471.6 | 4655.0 | | |
| 3 | 4:00 | 40:60 | 28:52 | 33:87 | 0:53:46 | 33:57 | -0:1200 | 0:9740 | 17922.8 | 22871.7 | 4929.8 | | |
| 3 | 5:00 | 40:73 | 28:40 | 33:92 | 0:58:36 | 33:56 | -0:0600 | 0:9740 | 17922.8 | 22871.7 | 4929.8 | | |
| 3 | 6:00 | 40:86 | 28:27 | 33:96 | 0:61:46 | 33:90 | -0:0600 | 0:9737 | 18796.9 | 23514.9 | 4465.2 | | |
| 3 | 7:00 | 40:92 | 28:15 | 34:01 | 0:63:07 | 33:93 | -0:0800 | 0:9737 | 18782.7 | 23514.9 | 4465.2 | | |

CANAL C-38E)

| LAY | TIME | HWE | TWE | TWEED | COMP TWE | COMP UN | URS TWE | URS TWEW | OBS BH | DIFF | UDP | QD | QL |
|-----|-------|-------|-------|-------|----------|---------|---------|----------|---------|---------|---------|---------|---------|
| 3 | 8:00 | 40.98 | 27.93 | 34.06 | 34.97 | 0.9174 | 33.76 | 1.0074 | -0.0900 | 1.0074 | 18769.3 | 23836.5 | 5127.1 |
| 3 | 9:00 | 41.05 | 28.03 | 34.09 | 35.02 | 0.9376 | 34.01 | -0.0773 | -0.0773 | 1.0164 | 18800.5 | 24056.8 | 5348.4 |
| 3 | 10:00 | 41.23 | 27.83 | 34.13 | 34.90 | 0.7762 | 34.10 | -0.0800 | -0.0800 | 0.8582 | 19311.7 | 24765.8 | 4474.3 |
| 3 | 11:00 | 41.22 | 27.75 | 34.07 | 34.70 | 0.6386 | 34.16 | 0.6386 | 0.6386 | 1.9256 | 19526.4 | 19470.0 | 1621.6 |
| 3 | 12:00 | 41.35 | 27.40 | 34.25 | 34.88 | 0.6382 | 34.28 | -0.0239 | -0.0239 | 0.6052 | 18957.3 | 19773.5 | 1913.6 |
| 3 | 13:00 | 41.46 | 27.86 | 34.43 | 35.06 | 0.6754 | 34.39 | -0.0339 | -0.0339 | 0.6774 | 18757.3 | 19494.5 | 2194.0 |
| 3 | 14:00 | 41.58 | 27.92 | 34.61 | 35.11 | 0.5010 | 34.51 | -0.0939 | -0.0939 | 0.5058 | 17681.6 | 17821.1 | 2850.2 |
| 3 | 15:00 | 41.69 | 27.87 | 34.79 | 35.29 | 0.5058 | 34.55 | -0.2300 | -0.2300 | 0.4859 | 17508.9 | 17226.2 | 2444.7 |
| 3 | 16:00 | 41.69 | 27.83 | 34.97 | 35.47 | 0.5059 | 34.62 | -0.3500 | -0.3500 | 0.4859 | 17508.9 | 17226.2 | 2444.7 |
| 3 | 17:00 | 41.75 | 27.79 | 35.16 | 35.81 | 0.6501 | 34.98 | -0.4800 | -0.4800 | 1.3301 | 17120.0 | 21159.0 | 4034.9 |
| 3 | 18:00 | 41.81 | 27.79 | 35.98 | 35.98 | 0.8024 | 34.74 | -0.4900 | -0.4900 | 1.2424 | 16960.2 | 23842.2 | 6882.2 |
| 3 | 19:00 | 41.87 | 27.93 | 35.08 | 35.87 | 0.7985 | 34.80 | -0.2800 | -0.2800 | 0.7765 | 17198.3 | 23111.8 | 6413.4 |
| 3 | 20:00 | 41.93 | 27.92 | 34.98 | 35.71 | 0.7942 | 34.85 | -0.2200 | -0.2200 | 0.7884 | 17609.7 | 23379.1 | 5946.6 |
| 3 | 21:00 | 41.95 | 27.92 | 34.88 | 35.66 | 0.7884 | 34.87 | -0.0600 | -0.0600 | 0.8496 | 17784.0 | 22867.1 | 4696.3 |
| 3 | 22:00 | 41.98 | 27.96 | 34.79 | 35.57 | 0.7834 | 34.84 | 0.2639 | 0.2639 | 0.8281 | 17970.8 | 22644.9 | 4281.2 |
| 3 | 23:00 | 42.01 | 28.00 | 34.69 | 35.46 | 0.7791 | 34.91 | 0.5241 | 0.5241 | 0.8016 | 18143.7 | 22644.9 | 4281.2 |
| 3 | 24:00 | 42.04 | 28.05 | 34.60 | 35.37 | 0.7716 | 34.84 | 0.3679 | 0.3679 | 0.8016 | 18143.7 | 22644.9 | 4281.2 |
| 4 | 1:00 | 42.07 | 28.05 | 34.52 | 35.29 | 0.7704 | 35.00 | 0.2904 | 0.2904 | 0.7942 | 18295.6 | 22125.4 | 3989.7 |
| 4 | 2:00 | 42.10 | 28.06 | 34.44 | 35.20 | 0.7689 | 35.03 | 0.5709 | 0.5709 | 0.7780 | 18446.7 | 22125.4 | 3989.7 |
| 4 | 3:00 | 42.12 | 28.07 | 34.36 | 35.12 | 0.7623 | 35.05 | 0.6800 | 0.6800 | 0.0852 | 18570.2 | 21948.3 | 3398.1 |
| 4 | 4:00 | 42.12 | 28.08 | 34.28 | 35.04 | 0.7623 | 35.05 | 0.7700 | 0.7700 | -0.0076 | 18693.2 | 21808.1 | 3114.8 |
| 4 | 5:00 | 42.14 | 28.09 | 34.16 | 34.91 | 0.7583 | 35.06 | 0.8939 | 0.8939 | -0.1416 | 18881.4 | 21574.7 | 2693.7 |
| 4 | 6:00 | 42.15 | 28.11 | 34.04 | 34.79 | 0.7528 | 35.08 | -0.2871 | -0.2871 | 1.9057 | 19057.8 | 21330.5 | 2262.6 |
| 4 | 7:00 | 42.16 | 28.13 | 33.92 | 34.66 | 0.7469 | 35.09 | 1.1699 | 1.1699 | -0.2530 | 19233.0 | 21023.3 | 1830.3 |
| 4 | 8:00 | 42.18 | 28.15 | 33.81 | 34.56 | 0.7411 | 35.11 | -0.5000 | -0.5000 | 0.4238 | 19400.5 | 20821.8 | 1415.3 |
| 4 | 9:00 | 42.19 | 28.14 | 33.75 | 34.43 | 0.7403 | 34.84 | 1.0899 | 1.0899 | -0.3476 | 19497.1 | 20778.2 | 1231.0 |
| 4 | 10:00 | 42.20 | 28.13 | 33.70 | 34.30 | 0.7380 | 34.57 | -0.8700 | -0.8700 | -0.1301 | 19573.5 | 20653.0 | 1079.5 |
| 4 | 11:00 | 42.21 | 28.13 | 33.59 | 34.18 | 0.7358 | 34.30 | 0.6500 | 0.6500 | 0.0880 | 19651.2 | 20584.6 | 907.3 |
| 4 | 12:00 | 42.21 | 28.13 | 33.59 | 34.33 | 0.7358 | 34.03 | 0.6399 | 0.6399 | 0.2958 | 19741.8 | 20444.8 | 703.0 |
| 4 | 13:00 | 42.23 | 28.12 | 33.54 | 34.27 | 0.7351 | 33.76 | 0.2139 | 0.2139 | 0.5151 | 19817.4 | 20308.6 | 551.1 |
| 4 | 14:00 | 42.25 | 28.12 | 33.49 | 33.95 | 0.4665 | 33.50 | 0.0099 | 0.0099 | 0.4545 | 1840.6 | 15759.9 | -2647.6 |
| 4 | 15:00 | 42.30 | 28.07 | 33.77 | 34.24 | 0.4733 | 33.60 | -0.1699 | -0.1699 | 0.6433 | 18140.6 | 16615.6 | -1925.0 |
| 4 | 16:00 | 42.35 | 28.01 | 34.05 | 34.53 | 0.4802 | 33.71 | -0.4300 | -0.4300 | 0.6202 | 17871.9 | 16645.1 | -1226.8 |
| 4 | 17:00 | 42.39 | 28.01 | 34.25 | 34.73 | 0.4877 | 33.82 | -0.6200 | -0.6200 | 0.9177 | 17676.3 | 17038.8 | -669.5 |
| 4 | 18:00 | 42.45 | 27.95 | 34.55 | 34.94 | 0.4904 | 33.93 | -0.5200 | -0.5200 | 1.0104 | 16643.3 | 17365.9 | 721.8 |
| 4 | 19:00 | 42.51 | 27.93 | 34.53 | 35.01 | 0.4876 | 33.99 | -0.5399 | -0.5399 | 1.0236 | 16621.8 | 17342.9 | 811.0 |
| 4 | 20:00 | 42.58 | 28.04 | 34.69 | 35.17 | 0.4888 | 34.06 | -0.3500 | -0.3500 | 1.0338 | 16611.7 | 17500.3 | 888.6 |
| 4 | 21:00 | 42.64 | 28.06 | 34.78 | 35.26 | 0.4864 | 34.12 | -0.5700 | -0.5700 | 1.0579 | 16590.4 | 17507.5 | 977.1 |
| 4 | 22:00 | 42.71 | 28.11 | 34.86 | 35.34 | 0.4859 | 34.19 | -0.5900 | -0.5900 | 1.0764 | 16569.8 | 17634.5 | 1068.4 |
| 4 | 23:00 | 42.65 | 28.15 | 34.95 | 35.43 | 0.4860 | 34.26 | -0.5200 | -0.5200 | 1.0855 | 16559.7 | 17701.2 | 1141.4 |
| 4 | 24:00 | 42.87 | 28.13 | 35.00 | 35.48 | 0.4858 | 34.33 | -0.6400 | -0.6400 | 1.1040 | 16539.1 | 17767.7 | 1258.5 |
| 5 | 1:00 | 42.91 | 28.13 | 35.00 | 35.54 | 0.4858 | 34.36 | -0.6699 | -0.6699 | 1.1258 | 16514.8 | 17850.3 | 1345.5 |
| 5 | 2:00 | 42.95 | 28.09 | 35.12 | 35.54 | 0.4876 | 34.48 | -0.6899 | -0.6899 | 1.1576 | 16479.2 | 17965.7 | 1486.5 |
| 5 | 3:00 | 42.98 | 28.06 | 35.18 | 35.61 | 0.4894 | 34.43 | -0.7199 | -0.7199 | 1.1774 | 16454.8 | 18070.4 | 1615.6 |
| 5 | 4:00 | 43.02 | 28.06 | 35.67 | 35.67 | 0.4917 | 34.63 | -0.8199 | -0.8199 | 1.2117 | 16416.5 | 18177.5 | 1769.0 |
| 5 | 5:00 | 43.01 | 28.04 | 35.73 | 35.73 | 0.4933 | 34.69 | -0.7500 | -0.7500 | 1.2443 | 16382.9 | 18271.1 | 1908.1 |
| 5 | 6:00 | 43.05 | 28.03 | 35.30 | 35.85 | 0.5532 | 34.53 | -0.7700 | -0.7700 | 1.3272 | 16285.6 | 18676.6 | 3411.1 |
| 5 | 7:00 | 43.07 | 28.05 | 35.27 | 35.82 | 0.5571 | 34.55 | -0.7199 | -0.7199 | 1.2778 | 16344.6 | 19277.9 | 3283.5 |

CANAL CRABPOT OBS. WHEN I WAS DOWN IN X DIFF

| DAY | TIME | HUBS | LITRE | HVED | COMP DWT | OBS. WHEN I WAS DOWN | X DIFF | QUP | ODN | QL |
|-----|-------|-------|-------|-------|----------|----------------------|---------|---------|---------|---------|
| 3 | 8:00 | 43:09 | 28:08 | 35:24 | 0.5556 | 34.77 | -0.6399 | 16402.5 | 19546.9 | 3142.3 |
| 3 | 8:00 | 43:11 | 28:09 | 35:24 | 0.5571 | 34.79 | -0.6399 | 16426.2 | 19547.0 | 3104.7 |
| 5 | 10:00 | 43:14 | 28:11 | 35:23 | 0.5573 | 34.80 | -0.6300 | 16468.4 | 19544.9 | 3096.4 |
| 5 | 11:00 | 43:15 | 28:11 | 35:23 | 0.5573 | 34.80 | -0.6300 | 16472.3 | 19517.1 | 3044.8 |
| 5 | 12:00 | 43:19 | 28:13 | 35:24 | 0.5542 | 34.67 | -0.5900 | 16494.4 | 19531.0 | 3036.5 |
| 5 | 13:00 | 43:19 | 28:13 | 35:24 | 0.5529 | 34.79 | -0.4699 | 16495.9 | 19503.2 | 3007.3 |
| 5 | 14:00 | 43:21 | 28:13 | 35:24 | 0.5529 | 34.92 | -0.3699 | 16507.0 | 19514.7 | 3010.3 |
| 5 | 15:00 | 43:21 | 28:13 | 35:24 | 0.5523 | 35.04 | -0.2399 | 16496.4 | 19517.1 | 3020.7 |
| 5 | 16:00 | 43:25 | 28:15 | 35:28 | 0.5517 | 35.83 | -0.1099 | 16519.6 | 19503.2 | 2983.6 |
| 5 | 17:00 | 43:25 | 28:15 | 35:28 | 0.5539 | 35.30 | 0.0099 | 0.5493 | 17379.2 | 19503.2 |
| 5 | 18:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | 0.0099 | 0.5539 | 17369.2 | 2123.9 |
| 5 | 19:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 19489.3 |
| 5 | 20:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 21:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 22:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 23:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 24:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 25:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 26:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 27:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 28:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 29:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 30:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 31:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 32:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 33:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 34:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 35:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 36:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 37:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 38:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 39:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 40:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 41:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 42:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 43:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 44:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 45:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 46:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 47:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 48:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 49:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 50:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 51:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 52:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 53:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 54:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 55:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 56:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 57:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 58:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 59:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |
| 5 | 60:00 | 43:25 | 28:18 | 35:29 | 0.5539 | 35.29 | -0.0099 | 0.5639 | 17357.4 | 2131.9 |

КАНАЛ С-38Е

| ЭТАП | TIME | WRSB | LITMED | HVED | CORP THEU | COMP.IMP | УРОВ.АТМ | КАН.ВН.Д.Ч.Х.ЭПФ | QUP | QDN | QL | |
|------|-------|--------|--------|-------|-----------|----------|----------|------------------|---------|---------|---------|--------|
| 7 | 8.00 | 61.777 | 28.52 | 34.84 | 32.40 | 0.5679 | 33.32 | -1.0199 | 1.5891 | 16118.1 | 19364.4 | 3246.2 |
| 7 | 9.00 | 61.58 | 28.52 | 34.50 | 32.56 | 0.5679 | 33.32 | -1.0800 | 1.6479 | 16030.8 | 18304.6 | 3273.8 |
| 7 | 10.00 | 61.45 | 28.52 | 34.15 | 32.72 | 0.5660 | 33.52 | -1.1400 | 1.7050 | 15956.7 | 18229.6 | 3272.8 |
| 7 | 12.00 | 61.35 | 28.57 | 34.66 | 32.20 | 0.5677 | 33.51 | -1.2100 | 1.7747 | 15868.4 | 18169.4 | 3301.0 |
| 7 | 13.00 | 61.24 | 28.58 | 34.65 | 32.54 | 0.5628 | 33.41 | -0.9099 | 1.8327 | 15793.6 | 18093.9 | 3300.2 |
| 7 | 14.00 | 61.14 | 28.58 | 34.61 | 32.21 | 0.5698 | 33.41 | -0.9099 | 1.8708 | 15692.2 | 18033.3 | 3341.1 |
| 7 | 15.00 | 61.03 | 28.59 | 34.51 | 35.15 | 0.5732 | 34.07 | -0.5399 | 1.9995 | 15615.7 | 18172.5 | 3356.7 |
| 7 | 16.00 | 60.93 | 28.50 | 34.54 | 35.08 | 0.5774 | 34.41 | -0.1800 | 0.7174 | 15526.6 | 18496.2 | 3369.6 |
| 7 | 17.00 | 60.76 | 28.29 | 34.71 | 34.71 | 0.5845 | 34.73 | 0.2099 | 0.3376 | 13911.9 | 18945.0 | 4923.1 |
| 7 | 18.00 | 60.67 | 28.28 | 34.41 | 34.32 | 0.5849 | 34.32 | 0.4999 | 0.2742 | 12501.9 | 18416.6 | 5911.7 |
| 7 | 19.00 | 60.58 | 28.25 | 33.90 | 34.33 | 0.4389 | 34.33 | 0.9099 | 0.0889 | 12800.3 | 18244.6 | 3444.2 |
| 7 | 20.00 | 60.49 | 28.43 | 34.2 | 34.25 | 0.4382 | 34.6 | 0.5999 | 0.1362 | 12780.5 | 16084.6 | 3075.0 |
| 7 | 21.00 | 60.37 | 28.08 | 33.73 | 34.05 | 0.3311 | 33.92 | 0.5700 | 0.0511 | 12695.9 | 13945.0 | 2850.4 |
| 7 | 22.00 | 60.28 | 28.08 | 33.65 | 33.97 | 0.3276 | 33.92 | 0.0276 | 0.1233 | 11233.5 | 15679.4 | 2452.2 |
| 7 | 23.00 | 60.20 | 28.09 | 33.54 | 33.91 | 0.3276 | 33.85 | 0.0845 | 0.1171 | 11179.0 | 13806.1 | 2397.8 |
| 7 | 24.00 | 60.12 | 28.09 | 33.47 | 33.86 | 0.3277 | 33.78 | 0.0845 | 0.0845 | 11201.3 | 13606.1 | 2397.8 |
| 8 | 1.00 | 60.04 | 28.10 | 33.47 | 33.79 | 0.3244 | 33.71 | 0.2399 | 0.0845 | 11179.0 | 13457.3 | 2498.5 |
| 8 | 2.00 | 59.96 | 28.11 | 33.42 | 33.74 | 0.3225 | 33.64 | 0.2199 | 0.1025 | 11153.3 | 13250.2 | 2498.5 |
| 8 | 3.00 | 59.87 | 28.11 | 33.42 | 33.74 | 0.3168 | 33.57 | 0.2100 | 0.1110 | 11179.0 | 13350.2 | 2498.5 |
| 8 | 4.00 | 59.79 | 28.12 | 33.29 | 33.60 | 0.3168 | 33.50 | 0.2099 | 0.1088 | 11146.4 | 13246.5 | 2498.5 |
| 8 | 5.00 | 59.71 | 28.12 | 33.24 | 33.54 | 0.3174 | 33.44 | 0.1999 | 0.1174 | 11120.5 | 13181.2 | 2060.7 |
| 8 | 6.00 | 59.62 | 28.13 | 33.18 | 33.49 | 0.3153 | 33.37 | 0.1899 | 0.1174 | 11104.4 | 13059.4 | 1985.0 |
| 8 | 7.00 | 59.55 | 28.14 | 33.12 | 33.34 | 0.2224 | 33.30 | 0.1800 | 0.0424 | 10376.9 | 10826.8 | 449.8 |
| 8 | 8.00 | 59.51 | 28.07 | 33.23 | 33.45 | 0.2267 | 33.30 | 0.0699 | 0.1567 | 10246.7 | 1023.8 | 777.1 |
| 8 | 9.00 | 59.46 | 28.14 | 33.28 | 33.50 | 0.2245 | 33.30 | 0.0200 | 0.2045 | 10172.3 | 11002.8 | 829.8 |
| 8 | 10.00 | 59.44 | 28.22 | 33.33 | 33.57 | 0.2425 | 33.30 | -0.0300 | 0.2725 | 10088.4 | 11519.1 | 1430.6 |
| 8 | 11.00 | 59.40 | 28.20 | 33.31 | 33.55 | 0.2429 | 33.30 | -0.0099 | 0.2529 | 10071.0 | 11519.1 | 1430.6 |
| 8 | 12.00 | 59.36 | 28.19 | 33.53 | 33.55 | 0.2429 | 33.30 | 0.0099 | 0.2329 | 10053.8 | 11507.6 | 1453.0 |
| 8 | 13.00 | 59.32 | 28.18 | 33.27 | 33.51 | 0.2429 | 33.30 | 0.0300 | 0.2129 | 10036.5 | 11476.1 | 1459.6 |
| 8 | 14.00 | 59.29 | 28.17 | 33.25 | 33.49 | 0.2429 | 33.30 | 0.0499 | 0.1929 | 10027.9 | 11476.1 | 1456.7 |
| 8 | 15.00 | 59.25 | 28.15 | 33.22 | 33.46 | 0.2432 | 33.30 | 0.0799 | 0.1632 | 10019.0 | 11473.2 | 1454.1 |
| 8 | 16.00 | 59.21 | 28.14 | 33.20 | 33.44 | 0.2432 | 33.30 | 0.0999 | 0.1432 | 10011.7 | 11461.7 | 1460.0 |
| 8 | 17.00 | 59.18 | 28.13 | 33.19 | 33.43 | 0.2434 | 33.30 | 0.1099 | 0.1334 | 9984.1 | 11461.7 | 1477.5 |
| 8 | 18.00 | 59.14 | 28.12 | 33.17 | 33.41 | 0.2434 | 33.30 | 0.1299 | 0.1134 | 9966.8 | 11450.2 | 1483.4 |
| 8 | 19.00 | 59.10 | 28.09 | 33.15 | 33.39 | 0.2434 | 33.30 | 0.1500 | 0.0934 | 9949.4 | 11438.6 | 1498.2 |
| 8 | 20.00 | 59.07 | 28.09 | 33.13 | 33.37 | 0.2438 | 33.30 | 0.1699 | 0.0738 | 9940.3 | 11438.6 | 1498.2 |
| 8 | 21.00 | 59.03 | 28.08 | 33.11 | 33.35 | 0.2438 | 33.30 | 0.1899 | 0.0538 | 9932.1 | 11427.5 | 1504.3 |
| 8 | 22.00 | 59.00 | 28.07 | 33.09 | 33.33 | 0.2424 | 33.30 | 0.2100 | 0.0338 | 9926.8 | 11415.6 | 1879.5 |
| 8 | 23.00 | 58.99 | 28.06 | 33.06 | 33.30 | 0.2423 | 33.30 | 0.2400 | 0.0023 | 9953.0 | 11392.4 | 1839.4 |
| 8 | 24.00 | 58.99 | 28.05 | 33.05 | 33.29 | 0.2426 | 33.30 | -0.0073 | 0.0073 | 9561.1 | 11324.4 | 1831.3 |
| 9 | 1.00 | 58.98 | 28.04 | 33.04 | 33.28 | 0.2426 | 33.31 | 0.2699 | -0.0271 | 9560.5 | 11302.0 | 1843.4 |
| 9 | 2.00 | 58.98 | 28.03 | 33.03 | 33.28 | 0.2433 | 33.31 | 0.2699 | -0.0266 | 9560.5 | 11405.0 | 1843.4 |
| 9 | 3.00 | 58.98 | 28.03 | 33.04 | 33.28 | 0.2433 | 33.31 | 0.2800 | -0.0362 | 9551.7 | 11415.6 | 1863.8 |
| 9 | 4.00 | 58.96 | 28.02 | 33.04 | 33.27 | 0.2437 | 33.32 | 0.2900 | -0.0459 | 9560.0 | 11415.6 | 1865.6 |
| 9 | 5.00 | 58.96 | 28.01 | 33.03 | 33.27 | 0.2440 | 33.32 | 0.3000 | -0.0555 | 9551.2 | 11427.1 | 1875.9 |
| 9 | 6.00 | 58.96 | 28.00 | 33.03 | 33.27 | 0.2444 | 33.33 | -0.0555 | -0.0555 | 9551.2 | 11427.1 | 1875.9 |

-90-

CANAL C-386P

| DAY | TIME | HWBU | J-TWED | HWED | COMP TIMEU | COMP DH | OBS-TWED | 0655 DH | X DIFF | QUP | QDN | QL |
|-----|-------|-------|--------|-------|------------|---------|----------|---------|---------|--------|---------|----|
| 11 | 8.00 | 38.80 | 28.10 | 32.87 | 33.04 | 0.1719 | 0.2800 | -0.1080 | 8369.1 | 9442.8 | 1073.6 | |
| 11 | 9.00 | 38.80 | 28.09 | 32.87 | 33.15 | 0.1722 | 0.2800 | -0.1077 | 8368.9 | 9452.8 | 1083.9 | |
| 11 | 10.00 | 38.81 | 28.09 | 32.88 | 33.05 | 0.1723 | 0.2599 | -0.0876 | 8368.8 | 9472.9 | 1094.0 | |
| 11 | 11.00 | 38.81 | 28.09 | 32.88 | 33.06 | 0.1725 | 0.2500 | -0.0774 | 8361.4 | 9472.9 | 1111.4 | |
| 11 | 12.00 | 38.81 | 28.09 | 32.90 | 33.07 | 0.1726 | 0.2400 | -0.0673 | 8354.1 | 9482.9 | 1128.8 | |
| 11 | 13.00 | 38.81 | 28.09 | 32.90 | 33.07 | 0.1726 | 0.2400 | -0.0673 | 8354.1 | 9482.9 | 1128.8 | |
| 11 | 14.00 | 38.81 | 28.09 | 32.91 | 33.08 | 0.1727 | 0.2300 | -0.0472 | 8346.7 | 9502.9 | 1156.3 | |
| 11 | 15.00 | 38.82 | 28.09 | 32.92 | 33.12 | 0.1729 | 0.2099 | -0.0370 | 8346.6 | 9522.9 | 1156.3 | |
| 11 | 16.00 | 38.82 | 28.09 | 32.93 | 33.10 | 0.1730 | 0.1999 | -0.0269 | 8339.2 | 9512.9 | 1173.7 | |
| 11 | 17.00 | 38.82 | 28.09 | 32.93 | 33.12 | 0.1730 | 0.1999 | -0.0269 | 8339.2 | 9512.9 | 1173.7 | |
| 11 | 18.00 | 38.82 | 28.09 | 32.94 | 33.11 | 0.1732 | 0.1899 | -0.0167 | 8331.8 | 9522.9 | 1191.4 | |
| 11 | 19.00 | 38.82 | 28.09 | 32.95 | 33.12 | 0.1733 | 0.1799 | -0.0066 | 8324.4 | 9532.9 | 1208.4 | |
| 11 | 20.00 | 38.83 | 28.08 | 32.95 | 33.12 | 0.1733 | 0.1799 | -0.0066 | 8321.7 | 9532.9 | 1208.4 | |
| 11 | 21.00 | 38.83 | 28.08 | 32.95 | 33.13 | 0.1738 | 0.1599 | 0.0138 | 8316.6 | 9522.9 | 1221.1 | |
| 11 | 22.00 | 38.83 | 28.08 | 32.97 | 33.14 | 0.1739 | 0.1499 | 0.0239 | 8308.2 | 9522.9 | 1246.0 | |
| 11 | 23.00 | 38.83 | 28.08 | 32.98 | 33.12 | 0.1740 | 0.1399 | 0.0340 | 8305.2 | 9522.9 | 1263.4 | |
| 11 | 24.00 | 38.84 | 28.08 | 32.99 | 33.16 | 0.1742 | 0.1299 | 0.0442 | 8305.1 | 9522.9 | 1277.4 | |
| 12 | 1.00 | 38.84 | 28.08 | 32.99 | 33.19 | 0.1742 | 0.1199 | 0.0542 | 8307.7 | 9522.9 | 1292.9 | |
| 12 | 2.00 | 38.84 | 28.08 | 33.00 | 33.12 | 0.1743 | 0.1099 | 0.0643 | 8291.7 | 9522.9 | 1307.7 | |
| 12 | 3.00 | 38.84 | 28.08 | 33.01 | 33.18 | 0.1744 | 0.0900 | 0.0744 | 8291.3 | 9522.9 | 1308.0 | |
| 12 | 4.00 | 38.85 | 28.08 | 33.02 | 33.19 | 0.1746 | 0.0800 | 0.0846 | 8291.2 | 9522.9 | 1318.0 | |
| 12 | 5.00 | 38.85 | 28.08 | 33.02 | 33.11 | 0.1746 | 0.0800 | 0.0846 | 8286.2 | 9622.3 | 1335.4 | |
| 12 | 6.00 | 38.85 | 28.08 | 33.03 | 33.19 | 0.1748 | 0.0800 | 0.0947 | 8278.7 | 9622.3 | 1352.4 | |
| 12 | 7.00 | 38.85 | 28.08 | 33.04 | 33.11 | 0.1748 | 0.0699 | 0.1048 | 8279.3 | 9632.0 | 1357.7 | |
| 12 | 8.00 | 38.85 | 28.08 | 33.05 | 33.11 | 0.1648 | 0.0600 | 0.1149 | 8278.4 | 9371.0 | 1092.6 | |
| 12 | 9.00 | 38.85 | 28.08 | 33.06 | 33.19 | 0.1659 | 0.0800 | 0.0854 | 8300.6 | 9342.3 | 1051.2 | |
| 12 | 10.00 | 38.86 | 28.08 | 33.07 | 33.18 | 0.1658 | 0.0900 | 0.0758 | 8308.0 | 9342.3 | 1051.2 | |
| 12 | 11.00 | 38.86 | 28.09 | 33.08 | 33.16 | 0.1652 | 0.0999 | 0.0652 | 8315.6 | 9323.0 | 1007.4 | |
| 12 | 12.00 | 38.86 | 28.09 | 33.09 | 33.17 | 0.1652 | 0.0999 | 0.0652 | 8315.6 | 9323.0 | 1007.4 | |
| 12 | 13.00 | 38.87 | 28.09 | 32.99 | 33.15 | 0.1651 | 0.1100 | 0.0551 | 8337.7 | 9303.8 | 966.0 | |
| 12 | 14.00 | 38.87 | 28.10 | 32.97 | 33.13 | 0.1646 | 0.1299 | 0.0446 | 8352.7 | 9274.8 | 922.1 | |
| 12 | 15.00 | 38.87 | 28.10 | 32.96 | 33.12 | 0.1644 | 0.1400 | 0.0244 | 8360.0 | 9265.1 | 905.0 | |
| 12 | 16.00 | 38.87 | 28.10 | 32.95 | 33.11 | 0.1643 | 0.1500 | 0.0143 | 8367.4 | 9254.4 | 888.0 | |
| 12 | 17.00 | 38.87 | 28.11 | 32.94 | 33.11 | 0.1703 | 0.1599 | 0.0102 | 10417.2 | 9236.0 | -1181.1 | |
| 12 | 18.00 | 38.87 | 28.11 | 32.93 | 33.10 | 0.1702 | 0.1599 | 0.0102 | 10426.4 | 9236.0 | -1200.0 | |
| 12 | 19.00 | 38.87 | 28.12 | 32.92 | 33.08 | 0.1612 | 0.1699 | -0.0087 | 10443.6 | 8940.7 | -1502.8 | |
| 12 | 20.00 | 38.89 | 28.12 | 32.92 | 33.09 | 0.1612 | 0.1699 | -0.0087 | 10452.5 | 8940.7 | -1511.7 | |
| 12 | 21.00 | 38.89 | 28.12 | 32.92 | 33.08 | 0.1612 | 0.1599 | 0.0012 | 10452.5 | 8940.7 | -1520.7 | |
| 12 | 22.00 | 38.90 | 28.12 | 32.92 | 33.08 | 0.1612 | 0.1599 | 0.0012 | 10461.5 | 8940.7 | -1520.7 | |
| 12 | 23.00 | 38.90 | 28.12 | 32.93 | 33.09 | 0.1612 | 0.1400 | 0.0214 | 10461.3 | 8950.2 | -1511.1 | |
| 12 | 24.00 | 38.91 | 28.12 | 32.93 | 33.09 | 0.1614 | 0.1400 | 0.0214 | 10461.3 | 8950.2 | -1511.1 | |
| 13 | 1.00 | 38.92 | 28.12 | 32.93 | 33.09 | 0.1614 | 0.1400 | 0.0214 | 10470.3 | 8950.2 | -1520.0 | |
| 13 | 2.00 | 38.92 | 28.12 | 32.94 | 33.09 | 0.1614 | 0.1299 | 0.0314 | 10470.3 | 8950.2 | -1520.0 | |
| 13 | 3.00 | 38.93 | 28.12 | 32.94 | 33.06 | 0.1615 | 0.1199 | 0.0415 | 10470.2 | 8959.6 | -1510.5 | |
| 13 | 4.00 | 38.93 | 28.12 | 32.94 | 33.10 | 0.1615 | 0.1099 | 0.0515 | 10470.2 | 8959.6 | -1510.5 | |
| 13 | 5.00 | 38.94 | 28.12 | 32.94 | 33.10 | 0.1615 | 0.1099 | 0.0515 | 10479.2 | 8959.6 | -1510.5 | |
| 13 | 6.00 | 38.94 | 28.12 | 32.94 | 33.10 | 0.1615 | 0.1099 | 0.0515 | 10479.1 | 8959.6 | -1510.5 | |
| 13 | 7.00 | 38.94 | 28.12 | 32.94 | 33.10 | 0.1615 | 0.1099 | 0.0515 | 10479.1 | 8959.6 | -1510.5 | |

CANAL C-38EC

| DAY | TIME | WHEU | TWED | HWED | COMP. TWEU | COMP. DH | OBS. TWEU | OBS. DH | DIFF. | QUP | QDN | OL |
|-----|-------|-------|-------|-------|------------|----------|-----------|---------|--------|--------|--------|----|
| 13. | 8.00 | 38.95 | 28.17 | 32.95 | 33.10 | 0.1514 | 0.0999 | 0.0514 | 8069.3 | 8850.1 | 839.7 | |
| 13. | 8.00 | 38.99 | 28.17 | 32.95 | 33.05 | 0.1514 | 0.0999 | 0.0514 | 8076.6 | 8850.1 | 802.4 | |
| 13. | 8.00 | 38.99 | 28.17 | 32.95 | 33.05 | 0.1519 | 0.1200 | 0.0681 | 8103.9 | 8870.8 | 766.4 | |
| 13. | 10.00 | 39.01 | 28.08 | 32.91 | 33.06 | 0.1521 | 0.1499 | 0.0019 | 8124.3 | 8870.8 | 709.4 | |
| 13. | 12.00 | 39.03 | 28.07 | 32.88 | 33.07 | 0.1522 | 0.1899 | -0.0377 | 8151.4 | 8861.9 | 8693.8 | |
| 13. | 12.00 | 39.05 | 28.06 | 32.87 | 33.01 | 0.1470 | 0.2100 | -0.0629 | 8175.4 | 8693.8 | 508.4 | |
| 13. | 14.00 | 39.10 | 28.13 | 32.92 | 33.04 | 0.1464 | 0.1999 | -0.0535 | 8175.7 | 8674.6 | 198.5 | |
| 13. | 16.00 | 39.09 | 28.18 | 32.94 | 33.09 | 0.1453 | 0.1499 | -0.0046 | 8449.0 | 8665.5 | 495.5 | |
| 13. | 17.00 | 39.09 | 28.22 | 32.97 | 33.12 | 0.1527 | 0.1099 | 0.0427 | 8422.7 | 8637.3 | 470.8 | |
| 13. | 19.00 | 39.08 | 28.20 | 32.96 | 33.11 | 0.1531 | 0.1200 | 0.0331 | 8422.4 | 8902.8 | 480.3 | |
| 13. | 20.00 | 39.08 | 28.19 | 32.96 | 33.11 | 0.1534 | 0.1100 | 0.0434 | 8422.2 | 8912.3 | 490.3 | |
| 13. | 21.00 | 39.07 | 28.16 | 32.95 | 33.10 | 0.1542 | 0.1099 | 0.0440 | 8421.8 | 8931.3 | 509.4 | |
| 13. | 22.00 | 39.07 | 28.14 | 32.95 | 33.10 | 0.1548 | 0.0999 | 0.0548 | 8421.3 | 8950.2 | 528.5 | |
| 13. | 23.00 | 39.07 | 28.13 | 32.95 | 33.10 | 0.1550 | 0.0999 | 0.0550 | 8421.3 | 8959.6 | 538.9 | |
| 14. | 1.00 | 39.06 | 28.11 | 32.95 | 33.10 | 0.1556 | 0.0900 | 0.0656 | 8413.6 | 8978.5 | 564.9 | |
| 14. | 3.00 | 39.06 | 28.10 | 32.94 | 33.09 | 0.1558 | 0.0999 | 0.0558 | 8420.5 | 8978.5 | 557.9 | |
| 14. | 3.00 | 39.05 | 28.07 | 32.94 | 33.09 | 0.1567 | 0.0799 | 0.0767 | 8420.1 | 8973.2 | 593.8 | |
| 14. | 4.00 | 39.05 | 28.05 | 32.94 | 33.09 | 0.1573 | 0.0799 | 0.0773 | 8412.8 | 9006.7 | 575.2 | |
| 14. | 5.00 | 39.05 | 28.04 | 32.93 | 33.08 | 0.1574 | 0.0800 | 0.0774 | 8419.4 | 9025.5 | 606.0 | |
| 14. | 6.00 | 39.04 | 28.02 | 32.93 | 33.08 | 0.1580 | 0.0800 | 0.0780 | 8419.4 | 9055.5 | 632.3 | |
| 14. | 7.00 | 39.04 | 28.01 | 32.93 | 33.08 | 0.1583 | 0.0699 | 0.0883 | 8411.7 | 9044.2 | 641.8 | |
| 14. | 8.00 | 39.04 | 28.00 | 32.93 | 33.07 | 0.1492 | 0.0699 | 0.0793 | 8125.6 | 8793.2 | 667.5 | |
| 14. | 9.00 | 39.04 | 28.00 | 32.92 | 33.06 | 0.1492 | 0.0799 | 0.0692 | 8133.1 | 8784.1 | 651.0 | |
| 14. | 10.00 | 39.03 | 28.00 | 32.92 | 33.06 | 0.1491 | 0.0799 | 0.0692 | 8133.1 | 8784.1 | 651.0 | |
| 14. | 11.00 | 39.03 | 28.00 | 32.92 | 33.06 | 0.1491 | 0.0799 | 0.0691 | 8126.3 | 8784.1 | 657.8 | |
| 14. | 12.00 | 39.03 | 28.00 | 32.92 | 33.06 | 0.1491 | 0.0691 | 0.0691 | 8126.3 | 8784.1 | 657.8 | |
| 14. | 14.00 | 39.03 | 28.01 | 32.91 | 33.05 | 0.1488 | 0.0899 | 0.0588 | 8133.4 | 8765.9 | 632.5 | |
| 14. | 15.00 | 39.03 | 28.01 | 32.91 | 33.05 | 0.1488 | 0.0899 | 0.0588 | 8133.3 | 8765.9 | 632.5 | |
| 14. | 16.00 | 39.03 | 28.01 | 32.91 | 33.05 | 0.1488 | 0.0899 | 0.0588 | 8133.3 | 8765.9 | 632.5 | |
| 14. | 17.00 | 39.03 | 28.01 | 32.91 | 33.05 | 0.1488 | 0.0899 | 0.0588 | 8133.3 | 8765.9 | 632.5 | |
| 14. | 18.00 | 39.03 | 28.01 | 32.91 | 33.05 | 0.1488 | 0.0899 | 0.0588 | 8133.3 | 8765.9 | 632.5 | |
| 14. | 19.00 | 39.03 | 28.01 | 32.91 | 33.05 | 0.1488 | 0.0899 | 0.0588 | 8133.3 | 8765.9 | 632.5 | |
| 14. | 20.00 | 39.02 | 28.02 | 32.90 | 33.04 | 0.1484 | 0.0999 | 0.0484 | 8133.6 | 8747.7 | 614.1 | |
| 14. | 21.00 | 39.02 | 28.02 | 32.90 | 33.04 | 0.1484 | 0.0999 | 0.0484 | 8133.6 | 8747.7 | 614.1 | |
| 14. | 22.00 | 39.02 | 28.02 | 32.90 | 33.04 | 0.1484 | 0.0999 | 0.0484 | 8133.6 | 8747.7 | 614.1 | |
| 14. | 23.00 | 39.02 | 28.02 | 32.90 | 33.04 | 0.1484 | 0.0999 | 0.0484 | 8133.6 | 8747.7 | 614.1 | |
| 14. | 24.00 | 39.02 | 28.02 | 32.90 | 33.04 | 0.1484 | 0.0999 | 0.0484 | 8133.6 | 8747.7 | 614.1 | |
| 15. | 1.00 | 39.02 | 28.02 | 32.90 | 33.04 | 0.1484 | 0.0999 | 0.0484 | 8133.6 | 8747.7 | 614.1 | |
| 15. | 2.00 | 39.02 | 28.02 | 32.90 | 33.04 | 0.1484 | 0.0999 | 0.0484 | 8133.6 | 8747.7 | 614.1 | |
| 15. | 3.00 | 39.02 | 28.03 | 32.89 | 33.03 | 0.1480 | 0.1099 | 0.0380 | 8140.7 | 8779.2 | 588.6 | |
| 15. | 4.00 | 39.02 | 28.03 | 32.89 | 33.03 | 0.1480 | 0.1099 | 0.0380 | 8140.7 | 8779.2 | 588.6 | |
| 15. | 5.00 | 39.02 | 28.03 | 32.89 | 33.03 | 0.1480 | 0.1099 | 0.0380 | 8140.7 | 8779.2 | 588.6 | |
| 15. | 6.00 | 39.02 | 28.03 | 32.89 | 33.03 | 0.1480 | 0.1099 | 0.0380 | 8140.7 | 8779.2 | 588.6 | |
| 15. | 7.00 | 39.01 | 28.03 | 32.89 | 33.03 | 0.1479 | 0.1099 | 0.0379 | 8139.7 | 8779.2 | 588.6 | |
| 15. | 8.00 | 39.01 | 28.04 | 32.89 | 33.02 | 0.1477 | 0.1099 | 0.0377 | 8139.7 | 8779.2 | 588.6 | |
| 15. | 9.00 | 39.01 | 28.04 | 32.89 | 33.02 | 0.1477 | 0.1199 | 0.0278 | 8140.8 | 8720.4 | 579.5 | |
| 15. | 10.00 | 39.01 | 28.02 | 32.88 | 33.02 | 0.1478 | 0.1199 | 0.0278 | 8140.8 | 8720.4 | 579.5 | |
| 15. | 11.00 | 39.01 | 28.02 | 32.87 | 33.01 | 0.1460 | 0.1299 | 0.0180 | 8147.5 | 8720.4 | 572.9 | |
| 15. | 12.00 | 39.01 | 28.02 | 32.87 | 33.01 | 0.1460 | 0.1299 | 0.0180 | 8147.5 | 8720.4 | 572.9 | |
| 15. | 13.00 | 39.01 | 28.02 | 32.87 | 33.01 | 0.1460 | 0.1299 | 0.0180 | 8147.5 | 8720.4 | 572.9 | |

CANAL C-380C

| DAY | TIME | WBU J FREQ | HUED | COMP THRU | COMP DM | QHS THRU | QHS DM | QHS DA | DIFF | QWP | ODH | OL |
|-----|-------|-------------|-------|-----------|---------|----------|---------|---------|---------|---------|--------|----|
| 1 | 8:00 | 45.21-32.19 | 38.89 | 39.00 | 0.2075 | 39.33 | 0.5039 | -0.3024 | 4974.0 | 5629.9 | 725.8 | |
| 1 | 9:00 | 45.20 | 38.87 | 39.08 | 0.2087 | 39.37 | 0.5000 | -0.2912 | 4973.6 | 5713.7 | 741.0 | |
| 1 | 10:00 | 45.20 | 38.87 | 39.09 | 0.2115 | 39.35 | 0.4800 | -0.2779 | 4973.3 | 5754.3 | 785.6 | |
| 1 | 11:00 | 45.20 | 38.87 | 39.08 | 0.2093 | 39.35 | 0.4700 | -0.2684 | 4912.2 | 5764.4 | 876.1 | |
| 1 | 12:00 | 45.23 | 38.87 | 39.08 | 0.2099 | 39.36 | 0.4800 | -0.2705 | 4884.1 | 5738.7 | 854.4 | |
| 1 | 13:00 | 45.27 | 38.87 | 39.08 | 0.2064 | 39.36 | 0.4600 | -0.2710 | 4899.4 | 5728.7 | 829.3 | |
| 1 | 14:00 | 45.60 | 38.87 | 39.08 | 0.2094 | 39.38 | 0.5000 | -0.2915 | 4910.9 | 5719.9 | 808.0 | |
| 1 | 15:00 | 45.64 | 38.87 | 39.08 | 0.2079 | 39.38 | 0.5000 | -0.2920 | 4926.1 | 5709.1 | 783.0 | |
| 1 | 16:00 | 45.68 | 38.87 | 39.11 | 0.2314 | 39.40 | 0.5200 | -0.2885 | 4932.2 | 6048.0 | 1135.8 | |
| 1 | 17:00 | 45.69 | 38.94 | 39.17 | 0.2315 | 39.38 | 0.4400 | -0.2084 | 4913.3 | 6104.5 | 1191.2 | |
| 1 | 18:00 | 45.70 | 38.90 | 39.23 | 0.2536 | 39.35 | 0.3600 | -0.1243 | 4894.5 | 6140.9 | 1246.4 | |
| 1 | 19:00 | 45.72 | 39.06 | 39.31 | 0.2552 | 39.35 | 0.2900 | -0.0346 | 5272.9 | 6460.8 | 1195.9 | |
| 1 | 20:00 | 45.80 | 39.08 | 39.33 | 0.2552 | 39.35 | 0.2700 | -0.0147 | 5297.5 | 6475.4 | 1177.8 | |
| 1 | 21:00 | 45.90 | 39.11 | 39.41 | 0.3014 | 39.37 | 0.2400 | 0.0614 | 5711.9 | 7077.8 | 1365.8 | |
| 1 | 22:00 | 46.05 | 39.10 | 39.40 | 0.3012 | 39.42 | 0.2699 | 0.0426 | 5736.3 | 7056.3 | 1327.5 | |
| 1 | 23:00 | 46.00 | 39.13 | 39.40 | 0.3420 | 39.41 | 0.2999 | 0.0426 | 6144.2 | 7546.3 | 1397.5 | |
| 2 | 1:00 | 45.88 | 39.09 | 39.42 | 0.3420 | 39.41 | 0.3200 | 0.0270 | 6144.2 | 7533.5 | 1389.3 | |
| 2 | 2:00 | 45.86 | 39.15 | 39.08 | 0.3415 | 39.42 | 0.3400 | 0.0015 | 6139.8 | 7520.6 | 1380.8 | |
| 2 | 3:00 | 45.84 | 39.07 | 39.41 | 0.3414 | 39.43 | 0.3599 | -0.0185 | 6135.1 | 7514.2 | 1379.0 | |
| 2 | 4:00 | 45.92 | 39.06 | 39.40 | 0.3404 | 39.45 | 0.3900 | -0.0495 | 6130.9 | 7494.9 | 1364.0 | |
| 2 | 5:00 | 46.90 | 39.17 | 39.05 | 0.3403 | 39.46 | 0.4099 | -0.0696 | 6126.2 | 7438.5 | 1347.1 | |
| 2 | 6:00 | 46.88 | 39.04 | 39.37 | 0.3393 | 39.47 | 0.4300 | -0.0906 | 6122.1 | 7469.2 | 1347.1 | |
| 2 | 7:00 | 46.86 | 39.20 | 39.36 | 0.3387 | 39.48 | 0.4700 | -0.1112 | 6117.6 | 7456.2 | 1338.6 | |
| 2 | 8:00 | 46.85 | 39.03 | 39.44 | 0.4158 | 39.50 | 0.4500 | -0.0541 | 6879.6 | 8279.1 | 1399.4 | |
| 2 | 9:00 | 46.83 | 39.26 | 39.00 | 0.4158 | 39.51 | 0.5100 | -0.0941 | 6885.1 | 8256.1 | 1371.0 | |
| 2 | 10:00 | 46.82 | 38.96 | 39.38 | 0.4158 | 39.52 | 0.5500 | -0.1341 | 6895.8 | 8233.1 | 1337.2 | |
| 2 | 11:00 | 46.81 | 38.96 | 39.36 | 0.4147 | 39.53 | 0.5799 | -0.1652 | 6901.7 | 8205.3 | 1303.6 | |
| 2 | 12:00 | 46.80 | 38.92 | 39.34 | 0.4209 | 39.54 | 0.6200 | -0.1990 | 6909.0 | 8253.8 | 1344.7 | |
| 2 | 13:00 | 46.79 | 38.90 | 39.29 | 0.3965 | 39.55 | 0.6500 | -0.2534 | 6927.4 | 7953.7 | 1028.3 | |
| 2 | 14:00 | 46.78 | 38.89 | 39.28 | 0.3965 | 39.55 | 0.6699 | -0.2738 | 6927.5 | 7953.2 | 1009.7 | |
| 2 | 15:00 | 46.77 | 38.87 | 39.27 | 0.3962 | 39.57 | 0.6900 | -0.2937 | 6927.5 | 7932.2 | 996.7 | |
| 2 | 16:00 | 46.76 | 38.87 | 39.26 | 0.3957 | 39.58 | 0.7100 | -0.3142 | 6927.8 | 7924.5 | 986.7 | |
| 2 | 17:00 | 46.75 | 38.89 | 39.26 | 0.4174 | 39.58 | 0.7385 | -0.1385 | 7413.8 | 8795.7 | 1381.8 | |
| 2 | 18:00 | 46.92 | 39.11 | 39.55 | 0.4485 | 39.67 | 0.5600 | -0.1114 | 7456.9 | 8627.6 | 1170.7 | |
| 2 | 19:00 | 46.10 | 39.57 | 39.24 | 0.5690 | 39.62 | 0.5100 | 0.0590 | 8209.9 | 9314.8 | 1704.3 | |
| 2 | 20:00 | 46.05 | 39.64 | 40.24 | 0.9401 | 39.75 | 0.5999 | 0.3401 | 8673.9 | 13407.9 | 2582.0 | |
| 2 | 21:00 | 46.05 | 39.73 | 40.37 | 0.9687 | 40.10 | 0.6900 | 0.2787 | 10621.0 | 16403.7 | 2762.0 | |
| 2 | 22:00 | 46.55 | 38.80 | 39.73 | 1.3435 | 40.30 | 0.6599 | 0.7735 | 11771.1 | 13700.9 | 2528.7 | |
| 2 | 23:00 | 46.88 | 34.21 | 41.22 | 1.3135 | 40.40 | 0.4900 | 0.6235 | 13609.8 | 16390.2 | 2781.3 | |
| 3 | 1:00 | 46.88 | 40.10 | 41.53 | 1.4939 | 40.41 | 0.3100 | 1.1259 | 15232.9 | 17684.8 | 4415.7 | |
| 3 | 2:00 | 46.88 | 40.21 | 41.63 | 1.6120 | 40.40 | 0.2000 | 1.2120 | 13111.1 | 16767.2 | 4584.0 | |
| 3 | 3:00 | 46.89 | 40.35 | 41.74 | 1.9901 | 40.43 | 0.0799 | 1.5101 | 12986.5 | 17114.8 | 4726.3 | |
| 3 | 4:00 | 46.89 | 40.48 | 41.89 | 1.4167 | 40.45 | -0.0300 | 1.4467 | 14467 | 17614.6 | 2085.3 | |
| 3 | 5:00 | 47.09 | 40.60 | 42.00 | 1.4056 | 40.59 | -0.0100 | 1.4156 | 13823.8 | 17921.9 | 2089.8 | |
| 3 | 6:00 | 47.25 | 40.73 | 42.12 | 1.3931 | 40.73 | 0.0200 | 1.3731 | 13872.9 | 18271.8 | 2077.7 | |
| 3 | 7:00 | 47.40 | 40.86 | 42.33 | 1.4741 | 40.90 | 0.0399 | 1.4571 | 15719.9 | 18741.8 | 3037.4 | |
| 3 | 8:00 | 47.34 | 40.92 | 42.37 | 1.4577 | 41.20 | 0.2800 | 1.1777 | 15550.2 | 18782.9 | 3224.0 | |

CANAL C-380C

| DAY | TIME | INFLU J | THREED | COMP TWEU | COMP DM | QRS THEM | OBST-DIUM | DIEEF | QUP | ODN | OL |
|-----|-------|---------|--------|-----------|---------|----------|-----------|---------|---------|---------|--------|
| 1 | 8:00 | 47.80 | 34.97 | 40.98 | 1.4419 | 41.50 | 0.5200 | 0.9219 | 15426.2 | 18769.3 | 3343.5 |
| 2 | 8:00 | 47.55 | 35.06 | 41.05 | 1.4326 | 41.50 | 0.4500 | 0.9826 | 15404.6 | 18808.1 | 3399.5 |
| 3 | 10:00 | 47.60 | 34.90 | 41.12 | 1.2479 | 41.70 | 0.7800 | 0.4679 | 14254.3 | 17511.6 | 3257.3 |
| 3 | 11:00 | 47.70 | 34.88 | 41.35 | 1.2817 | 41.40 | -0.1699 | 1.1117 | 17462.3 | 17942.4 | 3470.1 |
| 3 | 12:00 | 47.90 | 34.78 | 41.35 | 1.2537 | 41.40 | -0.9500 | 1.2037 | 14621.6 | 17365.4 | 3238.0 |
| 3 | 13:00 | 47.95 | 35.06 | 41.46 | 1.2236 | 41.45 | -1.0099 | 1.2336 | 14579.6 | 17766.0 | 3186.3 |
| 3 | 14:00 | 47.95 | 35.11 | 41.38 | 1.2525 | 41.40 | -0.1800 | 1.3925 | 14429.6 | 17870.5 | 3440.9 |
| 3 | 15:00 | 47.90 | 35.29 | 41.62 | 1.1823 | 41.45 | -0.1799 | 1.3623 | 14332.0 | 17683.3 | 3951.3 |
| 3 | 16:00 | 48.05 | 35.47 | 41.69 | 1.1563 | 41.50 | -0.1899 | 1.3463 | 14493.8 | 17509.7 | 3015.9 |
| 3 | 17:00 | 48.10 | 35.98 | 41.81 | 1.0813 | 41.50 | -0.2099 | 1.0913 | 14597.6 | 17124.0 | 2440.4 |
| 3 | 18:00 | 48.17 | 35.98 | 41.87 | 1.0947 | 41.80 | -0.0099 | 1.3587 | 14683.5 | 17261.4 | 2363.7 |
| 3 | 19:00 | 48.25 | 35.88 | 41.87 | 1.0947 | 41.80 | -0.0099 | 1.3587 | 14683.5 | 17261.4 | 2363.7 |
| 3 | 20:00 | 48.15 | 35.77 | 41.93 | 1.1082 | 41.75 | -0.0699 | 1.1667 | 14604.0 | 17198.3 | 2594.2 |
| 3 | 21:00 | 48.18 | 35.66 | 41.95 | 1.1082 | 41.75 | -0.1799 | 1.2882 | 14365.9 | 17433.4 | 3066.5 |
| 3 | 22:00 | 48.25 | 35.57 | 41.98 | 1.1233 | 42.00 | 0.5000 | 1.0733 | 14356.5 | 17509.7 | 3251.2 |
| 3 | 23:00 | 48.25 | 35.46 | 42.01 | 1.1371 | 42.00 | 0.0200 | 1.1171 | 14395.9 | 17784.0 | 3388.1 |
| 3 | 24:00 | 48.27 | 35.37 | 42.04 | 1.1504 | 42.50 | 0.4900 | 0.6609 | 14332.7 | 17970.8 | 3038.1 |
| 3 | 1:00 | 48.30 | 35.29 | 42.07 | 1.1636 | 42.60 | 0.5600 | 0.6016 | 14301.4 | 18143.7 | 3842.3 |
| 4 | 2:00 | 48.33 | 35.20 | 42.10 | 1.1742 | 42.71 | 0.6399 | 0.5342 | 14286.8 | 18294.4 | 4007.6 |
| 4 | 3:00 | 48.36 | 35.12 | 42.11 | 1.1848 | 42.82 | 0.7199 | 0.4648 | 14271.9 | 18445.5 | 4173.6 |
| 4 | 4:00 | 48.39 | 35.04 | 42.12 | 1.1962 | 42.92 | 0.8100 | 0.3852 | 14284.5 | 18509.2 | 4284.6 |
| 4 | 5:00 | 48.42 | 34.91 | 42.14 | 1.2076 | 43.02 | 0.9099 | 0.2976 | 14296.6 | 18692.3 | 4395.6 |
| 4 | 6:00 | 48.40 | 34.79 | 42.15 | 1.2239 | 43.14 | 1.0000 | 0.2239 | 14287.2 | 18881.5 | 4594.2 |
| 4 | 7:00 | 48.40 | 34.66 | 42.16 | 1.2358 | 43.25 | 1.1000 | 0.1358 | 13942.9 | 19051.8 | 5114.8 |
| 4 | 8:00 | 48.40 | 34.55 | 42.18 | 1.2501 | 43.25 | 1.0900 | 0.1661 | 14185.4 | 19233.0 | 5047.5 |
| 4 | 9:00 | 48.45 | 34.49 | 42.19 | 1.2787 | 43.25 | 1.0700 | 0.2003 | 14135.9 | 19406.5 | 5270.5 |
| 4 | 10:00 | 48.45 | 34.43 | 42.20 | 1.2847 | 43.30 | 1.1100 | 0.1687 | 14162.7 | 19496.4 | 5313.6 |
| 4 | 11:00 | 48.45 | 34.38 | 42.21 | 1.2909 | 43.35 | 1.1500 | 0.1347 | 14158.5 | 19572.9 | 5414.3 |
| 4 | 12:00 | 48.45 | 34.32 | 42.21 | 1.2984 | 43.35 | 1.1400 | 0.1509 | 14135.6 | 19650.6 | 5515.0 |
| 4 | 13:00 | 48.45 | 34.27 | 42.23 | 1.3043 | 43.35 | 1.1200 | 0.1684 | 14110.7 | 19741.1 | 5630.4 |
| 4 | 14:00 | 48.45 | 34.25 | 42.23 | 1.3043 | 43.35 | 1.1200 | 0.1684 | 14088.0 | 19816.8 | 5728.8 |
| 4 | 15:00 | 48.45 | 34.25 | 42.30 | 1.1562 | 43.40 | 0.0700 | 0.0962 | 14270.2 | 18407.5 | 4137.2 |
| 4 | 16:00 | 48.45 | 34.53 | 42.35 | 1.1207 | 43.35 | 1.0500 | 0.0707 | 14249.3 | 18140.6 | 3891.9 |
| 4 | 17:00 | 48.45 | 34.73 | 42.39 | 1.0858 | 43.40 | 1.0499 | 0.0358 | 14228.1 | 17871.9 | 3643.8 |
| 4 | 18:00 | 48.45 | 34.73 | 42.45 | 1.0604 | 43.45 | 1.0600 | 0.0004 | 14207.3 | 17679.4 | 3472.1 |
| 4 | 19:00 | 48.45 | 34.94 | 42.45 | 1.0532 | 43.50 | 1.0500 | -0.0967 | 14215.7 | 16643.2 | 2367.5 |
| 4 | 20:00 | 48.45 | 35.01 | 42.51 | 0.9421 | 43.50 | 1.0699 | -0.1278 | 14204.0 | 16622.0 | 2417.9 |
| 4 | 21:00 | 48.45 | 35.09 | 42.48 | 0.9307 | 43.56 | 1.0800 | -0.1492 | 14122.1 | 16621.8 | 2469.6 |
| 4 | 22:00 | 48.45 | 35.26 | 42.41 | 0.9199 | 43.75 | 1.1100 | -0.1100 | 14050.6 | 16590.5 | 2593.9 |
| 4 | 23:00 | 48.45 | 35.34 | 42.78 | 0.8667 | 43.70 | 1.0000 | -0.1021 | 13968.8 | 16565.9 | 2601.1 |
| 4 | 24:00 | 48.45 | 35.43 | 42.85 | 0.8849 | 43.70 | 0.8499 | -0.0232 | 13953.6 | 16539.2 | 2576.1 |
| 5 | 1:00 | 48.45 | 35.44 | 42.75 | 0.8705 | 43.70 | 0.8500 | 0.0365 | 13799.1 | 16575.7 | 2480.8 |
| 5 | 2:00 | 48.45 | 35.54 | 42.91 | 0.8712 | 43.70 | 0.7900 | 0.0365 | 13767.0 | 16575.7 | 2480.8 |
| 5 | 3:00 | 48.45 | 35.60 | 42.94 | 0.8694 | 43.70 | 0.7900 | 0.0365 | 13767.0 | 16575.7 | 2480.8 |
| 5 | 4:00 | 48.45 | 35.67 | 42.98 | 0.8362 | 43.70 | 0.7199 | 0.11467 | 13650.2 | 16457.3 | 2148.8 |
| 5 | 5:00 | 48.45 | 35.73 | 43.01 | 0.8390 | 43.70 | 0.6899 | 0.11590 | 13650.2 | 16481.7 | 2768.7 |
| 5 | 6:00 | 48.45 | 35.85 | 43.03 | 0.8374 | 43.70 | 0.6500 | 0.11854 | 13571.2 | 16288.2 | 2708.9 |
| 5 | 7:00 | 48.43 | 35.82 | 43.01 | 0.8372 | 43.75 | 0.6000 | 0.11572 | 13514.7 | 16344.3 | 2829.5 |

СВЕТОВОЙ РАДИОТЕЛЕГРАФ

| DAY | TIME | HWBD | TREED | HWED | CMP TWEU | CAMP. TH | URS TIME | 083 DH Э С Ч | Х ДИФФ | OUP | QON | QL |
|-----|-------|-------|-------|-------|----------|----------|----------|--------------|---------|---------|---------|--------|
| 5 | 9.00 | 48.40 | 35.79 | 43.09 | 43.92 | 0.8398 | 43.95 | 0.8400 | -0.0211 | 13438.7 | 16403.0 | 2964.2 |
| 5 | 9.00 | 48.38 | 35.79 | 43.11 | 43.94 | 0.8378 | 43.92 | 0.8400 | -0.0023 | 13379.3 | 16476.1 | 3046.7 |
| 5 | 10.00 | 48.37 | 35.80 | 43.14 | 43.97 | 0.8352 | 44.00 | 0.8400 | -0.0247 | 13322.7 | 16448.3 | 3125.6 |
| 5 | 11.00 | 48.37 | 35.81 | 43.16 | 44.03 | 0.8345 | 44.05 | 0.8900 | -0.0594 | 13294.1 | 16472.2 | 3178.5 |
| 5 | 12.00 | 48.37 | 35.81 | 43.19 | 44.02 | 0.8322 | 44.05 | 0.8600 | -0.0277 | 13251.8 | 16494.3 | 3242.5 |
| 5 | 13.00 | 48.38 | 35.81 | 43.19 | 44.02 | 0.8326 | 44.05 | 0.8700 | -0.0393 | 13267.5 | 16596.9 | 3228.3 |
| 5 | 14.00 | 48.37 | 35.82 | 43.21 | 44.04 | 0.8306 | 44.08 | 0.8700 | -0.0393 | 13223.9 | 16596.9 | 3282.9 |
| 5 | 15.00 | 48.37 | 35.83 | 43.21 | 44.04 | 0.8297 | 44.10 | 0.8900 | -0.0602 | 13226.0 | 16496.4 | 3270.4 |
| 5 | 16.00 | 48.37 | 35.83 | 43.21 | 44.05 | 0.8289 | 44.10 | 0.8700 | -0.0410 | 13196.3 | 16519.5 | 3323.7 |
| 5 | 17.00 | 48.38 | 35.84 | 43.24 | 44.13 | 0.8995 | 44.10 | 0.8600 | 0.0395 | 13088.7 | 17379.3 | 4290.5 |
| 5 | 18.00 | 48.38 | 35.84 | 43.24 | 44.13 | 0.8901 | 44.10 | 0.8700 | 0.0301 | 13103.4 | 17359.2 | 4268.8 |
| 5 | 19.00 | 48.38 | 35.85 | 43.23 | 44.13 | 0.8991 | 44.11 | 0.8700 | 0.0291 | 13104.7 | 17357.4 | 4252.7 |
| 5 | 20.00 | 48.39 | 35.85 | 43.23 | 44.12 | 0.8951 | 44.11 | 0.8799 | 0.0151 | 13126.5 | 17308.1 | 4181.5 |
| 5 | 21.00 | 48.36 | 35.82 | 43.21 | 44.11 | 0.8959 | 44.10 | 0.8800 | -0.0159 | 13093.5 | 17307.4 | 4213.8 |
| 5 | 22.00 | 48.26 | 35.87 | 43.21 | 44.11 | 0.8951 | 44.16 | 0.9400 | -0.0468 | 12940.9 | 17318.3 | 4377.4 |
| 5 | 23.00 | 48.25 | 35.86 | 43.21 | 44.11 | 0.8956 | 44.13 | 0.9200 | -0.0241 | 12823.8 | 17349.5 | 4405.4 |
| 6 | 1.00 | 48.22 | 35.82 | 43.21 | 44.10 | 0.8963 | 44.11 | 0.9100 | -0.0136 | 12891.5 | 17349.3 | 4448.8 |
| 6 | 2.00 | 48.22 | 35.82 | 43.21 | 44.10 | 0.8977 | 44.11 | 0.9000 | -0.0072 | 12871.6 | 17359.2 | 4438.9 |
| 6 | 3.00 | 48.21 | 35.83 | 43.21 | 44.09 | 0.8974 | 44.11 | 0.8799 | -0.0072 | 12871.6 | 17359.2 | 4438.9 |
| 6 | 4.00 | 48.18 | 35.83 | 43.20 | 44.09 | 0.8984 | 44.08 | 0.8799 | 0.0184 | 12857.2 | 17338.3 | 4481.5 |
| 6 | 5.00 | 48.18 | 35.84 | 43.20 | 44.08 | 0.8986 | 44.08 | 0.8700 | 0.0285 | 12857.2 | 17378.9 | 4468.9 |
| 6 | 6.00 | 48.16 | 35.84 | 43.19 | 44.08 | 0.8996 | 44.08 | 0.8600 | 0.0393 | 12824.5 | 17358.2 | 4513.7 |
| 6 | 7.00 | 48.15 | 35.82 | 43.19 | 44.09 | 0.9000 | 44.03 | 0.8400 | 0.0600 | 12807.7 | 17349.5 | 4543.2 |
| 6 | 8.00 | 48.14 | 35.81 | 43.17 | 44.07 | 0.9017 | 44.02 | 0.8499 | 0.0517 | 12821.3 | 17346.5 | 4615.1 |
| 6 | 9.00 | 48.14 | 35.80 | 43.16 | 44.06 | 0.9022 | 44.02 | 0.8600 | 0.0422 | 12836.3 | 17346.8 | 4688.4 |
| 6 | 10.00 | 48.14 | 35.79 | 43.14 | 44.04 | 0.9040 | 44.01 | 0.8700 | 0.0340 | 12865.0 | 17312.5 | 4647.3 |
| 6 | 11.00 | 48.15 | 35.79 | 43.12 | 44.03 | 0.9055 | 44.00 | 0.8900 | 0.0355 | 12878.1 | 17312.5 | 4634.3 |
| 6 | 12.00 | 48.15 | 35.78 | 43.11 | 44.00 | 0.8990 | 44.00 | 0.8700 | 0.0090 | 12922.9 | 17289.0 | 4996.0 |
| 6 | 13.00 | 48.20 | 35.78 | 43.10 | 43.99 | 0.8976 | 44.00 | 0.9000 | -0.0023 | 12059.5 | 17289.0 | 5229.1 |
| 6 | 14.00 | 48.21 | 35.77 | 43.04 | 43.93 | 0.8975 | 44.02 | 0.8824 | -0.0824 | 11832.4 | 17230.4 | 5398.0 |
| 6 | 15.00 | 48.22 | 35.76 | 42.98 | 43.87 | 0.8962 | 44.10 | 1.1200 | -0.2237 | 11601.3 | 17159.6 | 5559.3 |
| 6 | 16.00 | 48.24 | 35.75 | 42.92 | 43.82 | 0.9000 | 44.06 | 1.1399 | -0.2399 | 11701.2 | 17100.2 | 5393.2 |
| 6 | 17.00 | 48.21 | 35.75 | 42.86 | 43.76 | 0.9029 | 43.75 | 0.8500 | 0.0129 | 11737.4 | 17061.2 | 5303.7 |
| 6 | 18.00 | 48.26 | 35.73 | 42.75 | 43.65 | 0.9020 | 43.70 | 0.9000 | -0.0479 | 11546.3 | 17094.6 | 5425.2 |
| 6 | 19.00 | 48.31 | 35.72 | 42.68 | 43.58 | 0.9051 | 43.70 | 0.9500 | -0.0490 | 11283.0 | 16921.8 | 5638.7 |
| 6 | 20.00 | 48.28 | 35.72 | 42.61 | 43.51 | 0.9071 | 43.50 | 0.8200 | 0.0851 | 11411.0 | 16894.8 | 5438.8 |
| 6 | 21.00 | 48.26 | 35.71 | 42.55 | 43.45 | 0.9099 | 43.45 | 0.8400 | 0.0671 | 11457.3 | 16765.4 | 5203.9 |
| 6 | 22.00 | 48.24 | 35.71 | 42.44 | 43.39 | 0.9120 | 43.30 | 0.8399 | 0.0599 | 11501.8 | 16704.8 | 5060.4 |
| 6 | 23.00 | 48.19 | 35.68 | 42.41 | 43.32 | 0.9170 | 43.24 | 0.8100 | 0.0920 | 11559.1 | 16619.5 | 4995.6 |
| 6 | 24.00 | 48.14 | 35.65 | 42.35 | 43.27 | 0.9217 | 43.19 | 0.8400 | 0.0817 | 11582.4 | 16537.6 | 4955.2 |
| 7 | 1.00 | 48.09 | 35.62 | 42.28 | 43.20 | 0.9267 | 43.13 | 0.8500 | 0.0767 | 11600.3 | 16493.9 | 4889.6 |
| 7 | 2.00 | 48.05 | 35.59 | 42.21 | 43.15 | 0.9315 | 43.02 | 0.8600 | 0.0715 | 11618.3 | 16454.9 | 4836.2 |
| 7 | 3.00 | 48.00 | 35.55 | 42.16 | 43.09 | 0.9365 | 43.02 | 0.8600 | 0.0763 | 11624.2 | 16479.5 | 4795.6 |
| 7 | 4.00 | 47.95 | 35.52 | 42.10 | 43.04 | 0.9411 | 42.97 | 0.8700 | 0.0711 | 11630.4 | 16365.3 | 4750.8 |
| 7 | 5.00 | 47.91 | 35.49 | 42.04 | 42.98 | 0.9460 | 42.91 | 0.8700 | 0.0760 | 11648.5 | 16349.6 | 4701.1 |
| 7 | 6.00 | 47.86 | 35.46 | 41.98 | 42.93 | 0.9506 | 42.86 | 0.8799 | 0.0708 | 11658.4 | 16314.9 | 4660.5 |
| 7 | 7.00 | 47.81 | 35.43 | 41.87 | 42.83 | 0.9569 | 42.80 | 0.9300 | 0.0289 | 11718.6 | 16216.8 | 4498.1 |

| DAY | TIME | HHSB | LITED | HRED | COMP INEU | COMP DM | OBS TWEN | OBS HHT | X DIFF | QUP | GDN | QL |
|-----|-------|-------|-------|-------|-----------|---------|----------|---------|---------|---------|---------|--------|
| 6 | 8:00 | 47.77 | 35.50 | 41.77 | 42.72 | 0.9520 | 42.75 | 0.9800 | -0.0279 | 11083.4 | 16116.8 | 5035.3 |
| 7 | 9:00 | 47.85 | 35.56 | 41.66 | 42.62 | 0.9609 | 42.64 | 0.9400 | 0.0209 | 11279.6 | 15051.3 | 4751.6 |
| 7 | 10:00 | 47.76 | 35.32 | 41.56 | 42.52 | 0.9621 | 42.60 | 1.0400 | -0.0778 | 10926.9 | 15957.2 | 5030.2 |
| 7 | 11:00 | 47.70 | 35.28 | 41.53 | 42.41 | 0.9687 | 42.55 | 1.0599 | -0.1312 | 10972.5 | 15868.9 | 4896.4 |
| 7 | 12:00 | 47.65 | 35.24 | 41.53 | 42.32 | 0.9754 | 42.50 | 1.1500 | -0.1475 | 11017.3 | 15776.8 | 4776.8 |
| 7 | 13:00 | 47.59 | 35.21 | 41.54 | 42.22 | 0.9806 | 42.39 | 1.1500 | -0.1693 | 11063.3 | 15692.9 | 4629.9 |
| 7 | 14:00 | 47.55 | 35.16 | 41.44 | 42.15 | 1.0136 | 42.28 | 1.1399 | -0.1263 | 12900.0 | 15616.2 | 2716.1 |
| 7 | 15:00 | 47.47 | 35.12 | 41.03 | 42.01 | 0.9827 | 42.25 | 1.2200 | -0.2372 | 10416.8 | 19527.2 | 2716.1 |
| 7 | 16:00 | 47.62 | 35.08 | 40.93 | 41.75 | 0.8820 | 41.75 | 0.8200 | 0.0030 | 10034.9 | 19111.8 | 3076.8 |
| 7 | 17:00 | 47.70 | 34.79 | 40.76 | 41.44 | 0.6873 | 41.60 | 0.8400 | -0.1526 | 8778.6 | 12504.8 | 3276.2 |
| 7 | 18:00 | 47.75 | 34.41 | 40.67 | 41.39 | 0.7284 | 41.60 | 0.8000 | -0.0745 | 8836.1 | 12800.3 | 3964.2 |
| 7 | 19:00 | 47.78 | 34.25 | 40.58 | 41.35 | 0.7445 | 41.47 | 0.7700 | -0.0350 | 8912.0 | 12790.1 | 3878.0 |
| 7 | 20:00 | 47.79 | 34.25 | 40.49 | 41.23 | 0.7445 | 41.22 | 0.7300 | 0.0145 | 8987.7 | 12780.6 | 3792.8 |
| 7 | 21:00 | 47.82 | 34.05 | 40.31 | 40.97 | 0.7445 | 41.22 | 0.7300 | 0.0145 | 8987.7 | 12780.6 | 3792.8 |
| 7 | 22:00 | 47.81 | 33.97 | 40.28 | 40.88 | 0.6059 | 41.02 | 0.7400 | -0.1270 | 8956.7 | 11263.9 | 2913.1 |
| 7 | 23:00 | 47.80 | 33.91 | 40.29 | 40.84 | 0.6898 | 41.02 | 0.7400 | -0.1301 | 8401.3 | 11263.4 | 2852.4 |
| 7 | 24:00 | 47.79 | 33.86 | 40.81 | 40.74 | 0.6159 | 40.94 | 0.7400 | -0.1240 | 8439.9 | 11237.2 | 2797.3 |
| 8 | 1:00 | 47.78 | 33.79 | 40.74 | 40.66 | 0.6212 | 40.86 | 0.7400 | -0.1187 | 8478.8 | 11211.4 | 2732.6 |
| 8 | 2:00 | 47.77 | 33.74 | 40.64 | 40.59 | 0.6335 | 40.79 | 0.7500 | -0.1217 | 8516.4 | 11204.4 | 2687.9 |
| 8 | 3:00 | 47.77 | 33.68 | 39.81 | 40.51 | 0.6401 | 40.71 | 0.7500 | -0.1163 | 8554.8 | 11179.1 | 2624.2 |
| 8 | 4:00 | 47.76 | 33.60 | 39.77 | 40.43 | 0.6474 | 40.53 | 0.7600 | -0.1198 | 8604.4 | 11153.4 | 2549.0 |
| 8 | 5:00 | 47.75 | 33.59 | 39.74 | 40.36 | 0.6529 | 40.55 | 0.7599 | -0.1125 | 8641.2 | 11146.5 | 2505.2 |
| 8 | 6:00 | 47.74 | 33.59 | 39.73 | 40.36 | 0.6529 | 40.48 | 0.7700 | -0.1170 | 8679.1 | 11120.6 | 2441.5 |
| 8 | 7:00 | 47.73 | 33.56 | 39.62 | 40.28 | 0.6594 | 40.40 | 0.7700 | -0.1105 | 8716.1 | 11104.4 | 2388.3 |
| 8 | 8:00 | 47.73 | 33.55 | 39.63 | 40.16 | 0.5927 | 40.32 | 0.7700 | -0.1742 | 8793.4 | 10376.9 | 1983.4 |
| 8 | 9:00 | 47.70 | 33.50 | 39.71 | 40.10 | 0.5869 | 40.23 | 0.7400 | -0.1930 | 8821.8 | 10247.1 | 1425.3 |
| 8 | 10:00 | 47.67 | 33.57 | 39.86 | 40.05 | 0.5932 | 40.23 | 0.7600 | -0.1767 | 8829.5 | 10172.6 | 1425.3 |
| 8 | 11:00 | 47.64 | 33.55 | 39.91 | 40.21 | 0.5767 | 40.21 | 0.7700 | -0.1922 | 8832.6 | 10088.7 | 1258.0 |
| 8 | 12:00 | 47.61 | 33.53 | 39.94 | 40.17 | 0.5830 | 40.15 | 0.7700 | -0.2205 | 8837.4 | 10071.1 | 1233.6 |
| 8 | 13:00 | 47.58 | 33.51 | 39.92 | 39.90 | 0.5830 | 40.15 | 0.7700 | -0.2287 | 8842.1 | 10053.9 | 1211.7 |
| 8 | 14:00 | 47.55 | 33.49 | 39.79 | 39.87 | 0.5830 | 40.15 | 0.8209 | -0.2469 | 8846.8 | 10035.6 | 1189.7 |
| 8 | 15:00 | 47.52 | 33.46 | 39.25 | 39.83 | 0.5874 | 40.13 | 0.8400 | -0.2732 | 8855.8 | 10027.9 | 1182.1 |
| 8 | 16:00 | 47.50 | 33.44 | 39.79 | 39.89 | 0.5893 | 40.10 | 0.8900 | -0.3006 | 8860.5 | 10017.0 | 1168.9 |
| 8 | 17:00 | 47.47 | 33.43 | 39.18 | 39.77 | 0.5901 | 40.10 | 0.8799 | -0.3096 | 8850.5 | 9991.7 | 1141.2 |
| 8 | 18:00 | 47.45 | 33.41 | 39.10 | 39.73 | 0.5920 | 40.06 | 0.9009 | -0.3078 | 8879.2 | 9964.2 | 1124.2 |
| 8 | 19:00 | 47.43 | 33.39 | 39.10 | 39.69 | 0.5939 | 40.01 | 0.9099 | -0.3160 | 8880.7 | 9966.8 | 1098.8 |
| 8 | 20:00 | 47.41 | 33.37 | 39.66 | 39.67 | 0.5957 | 39.97 | 0.9200 | -0.3042 | 8885.4 | 9940.0 | 1068.0 |
| 8 | 21:00 | 47.39 | 33.35 | 39.03 | 39.62 | 0.5976 | 39.95 | 0.9300 | -0.3223 | 8895.4 | 9922.8 | 1027.0 |
| 8 | 22:00 | 47.36 | 33.33 | 38.99 | 39.52 | 0.5617 | 39.92 | 0.9200 | -0.3582 | 8916.3 | 9536.9 | 643.9 |
| 8 | 23:00 | 47.34 | 33.30 | 38.99 | 39.55 | 0.5641 | 39.88 | 0.9200 | -0.3258 | 8909.0 | 9541.1 | 663.9 |
| 8 | 24:00 | 47.32 | 33.29 | 38.99 | 39.55 | 0.5648 | 39.86 | 0.8700 | -0.3051 | 8891.1 | 9540.9 | 669.7 |
| 9 | 1:00 | 47.30 | 33.28 | 38.98 | 39.54 | 0.5655 | 39.83 | 0.8439 | -0.2844 | 8891.1 | 9540.9 | 669.7 |
| 9 | 2:00 | 47.28 | 33.28 | 38.98 | 39.79 | 0.5653 | 39.79 | 0.8100 | -0.2446 | 8879.8 | 9560.5 | 680.7 |
| 9 | 3:00 | 47.25 | 33.28 | 38.98 | 39.54 | 0.5651 | 39.77 | 0.7899 | -0.2248 | 8862.7 | 9560.5 | 680.7 |
| 9 | 4:00 | 47.23 | 33.28 | 38.96 | 39.53 | 0.5649 | 39.74 | 0.7700 | -0.2050 | 8851.8 | 9551.8 | 694.6 |
| 9 | 5:00 | 47.21 | 33.27 | 38.96 | 39.53 | 0.5656 | 39.70 | 0.7300 | -0.1643 | 8845.2 | 9559.9 | 674.6 |
| 9 | 6:00 | 47.19 | 33.27 | 38.96 | 39.52 | 0.5655 | 39.68 | 0.7199 | -0.1544 | 8839.6 | 9551.6 | 711.9 |
| 9 | 7:00 | 47.17 | 33.27 | 38.96 | 39.52 | 0.5653 | 39.65 | 0.6899 | -0.1246 | 8828.1 | 9551.2 | 723.0 |

CANAL C-380C

SOUTH BAY DIVISION

| DAY | TIME | H-BB1 | TWEED | HWED | COMP TWEU | COMP DH | DUES TIME | BAS DH | X DIFF | QUP | QDN | QL |
|-----|-------|-------|-------|-------|-----------|---------|-----------|--------|---------|--------|--------|--------|
| 9. | 8.00 | 47.15 | 33.25 | 38.96 | 39.52 | 0.5669 | 39.62 | 0.6599 | -0.0930 | 8815.3 | 9568.6 | 7533.3 |
| 9. | 8.30 | 47.13 | 33.24 | 38.95 | 39.51 | 0.5676 | 39.61 | 0.6599 | -0.0923 | 8809.6 | 9568.4 | 7568.8 |
| 9. | 10.00 | 47.12 | 33.23 | 38.95 | 39.51 | 0.5684 | 39.61 | 0.6599 | -0.0915 | 8803.4 | 9577.0 | 773.5 |
| 9. | 11.00 | 47.10 | 33.22 | 38.96 | 39.50 | 0.5704 | 39.60 | 0.6599 | -0.0895 | 8802.3 | 9395.5 | 9395.2 |
| 9. | 12.00 | 47.09 | 33.21 | 38.96 | 39.52 | 0.5729 | 39.60 | 0.6300 | -0.0790 | 8784.2 | 9420.1 | 635.6 |
| 9. | 13.00 | 47.08 | 33.20 | 38.94 | 39.55 | 0.5766 | 39.65 | 0.6100 | -0.0463 | 8628.2 | 9447.7 | 163.4 |
| 9. | 14.00 | 46.89 | 33.27 | 39.02 | 39.63 | 0.6130 | 39.65 | 0.6239 | -0.0169 | 9455.1 | 9395.0 | 529.9 |
| 9. | 15.00 | 46.87 | 33.25 | 39.00 | 39.61 | 0.6149 | 39.65 | 0.6500 | -0.0350 | 9453.8 | 9395.2 | 532.3 |
| 9. | 16.00 | 46.84 | 33.22 | 38.99 | 39.60 | 0.6186 | 39.66 | 0.6700 | -0.0533 | 9439.6 | 9396.0 | 556.4 |
| 9. | 17.00 | 46.83 | 33.20 | 38.98 | 39.58 | 0.6208 | 39.68 | 0.6999 | -0.0911 | 9444.8 | 9310.4 | 465.6 |
| 9. | 18.00 | 46.79 | 33.19 | 38.98 | 39.57 | 0.6108 | 39.66 | 0.6900 | -0.0801 | 9424.4 | 9141.3 | 489.9 |
| 9. | 19.00 | 46.76 | 33.18 | 38.96 | 39.57 | 0.6108 | 39.65 | 0.6899 | -0.0794 | 9411.0 | 9141.0 | 503.5 |
| 9. | 20.00 | 46.75 | 33.17 | 38.95 | 39.56 | 0.6112 | 39.65 | 0.6999 | -0.0887 | 9397.5 | 9141.7 | 517.2 |
| 9. | 21.00 | 46.70 | 33.17 | 38.94 | 39.56 | 0.6111 | 39.63 | 0.6900 | -0.0788 | 9385.5 | 9306.1 | 521.6 |
| 9. | 22.00 | 46.68 | 33.16 | 38.94 | 39.54 | 0.6119 | 39.63 | 0.7000 | -0.0880 | 9377.4 | 9306.7 | 529.2 |
| 9. | 23.00 | 46.65 | 33.15 | 38.94 | 39.52 | 0.6003 | 39.62 | 0.6999 | -0.0976 | 8526.8 | 9306.9 | 1380.0 |
| 9. | 24.00 | 46.66 | 33.12 | 38.94 | 39.41 | 0.4907 | 39.61 | 0.6800 | -0.1992 | 8598.3 | 8779.8 | 181.5 |
| 10. | 1.00 | 46.67 | 33.10 | 38.94 | 39.42 | 0.4921 | 39.61 | 0.6800 | -0.1878 | 8596.9 | 8802.2 | 205.2 |
| 10. | 2.00 | 46.68 | 33.08 | 38.95 | 39.43 | 0.4934 | 39.60 | 0.6600 | -0.1665 | 8566.1 | 8824.4 | 228.5 |
| 10. | 3.00 | 46.69 | 33.07 | 38.95 | 39.44 | 0.4940 | 39.60 | 0.6500 | -0.1559 | 8595.7 | 8839.3 | 243.5 |
| 10. | 4.00 | 46.70 | 33.06 | 38.95 | 39.46 | 0.4956 | 39.59 | 0.6200 | -0.1253 | 8589.5 | 8861.3 | 271.8 |
| 10. | 5.00 | 46.71 | 33.04 | 38.99 | 39.47 | 0.4959 | 39.59 | 0.6099 | -0.1140 | 8588.7 | 8883.4 | 294.6 |
| 10. | 6.00 | 46.72 | 33.03 | 38.99 | 39.48 | 0.4965 | 39.58 | 0.5900 | -0.0934 | 8584.4 | 8898.2 | 309.8 |
| 10. | 7.00 | 46.73 | 33.03 | 39.01 | 39.50 | 0.4977 | 39.58 | 0.5699 | -0.0722 | 8581.7 | 8927.6 | 345.9 |
| 10. | 8.00 | 46.73 | 33.02 | 39.02 | 39.53 | 0.4989 | 39.58 | 0.5600 | -0.0610 | 8587.0 | 8947.1 | 360.0 |
| 10. | 9.00 | 46.74 | 33.02 | 39.03 | 39.53 | 0.5018 | 39.58 | 0.5500 | -0.0481 | 8916.7 | 8939.4 | 22.7 |
| 10. | 10.00 | 46.75 | 33.07 | 39.04 | 39.53 | 0.5135 | 39.62 | 0.5699 | 0.0035 | 8829.5 | 9709.3 | 879.8 |
| 10. | 11.00 | 46.76 | 33.07 | 39.04 | 39.61 | 0.5176 | 39.66 | 0.6200 | -0.0433 | 8805.6 | 9685.1 | 879.4 |
| 10. | 12.00 | 46.69 | 33.12 | 39.04 | 39.60 | 0.5687 | 39.70 | 0.6599 | -0.0912 | 8776.3 | 9660.3 | 884.0 |
| 10. | 13.00 | 46.59 | 33.10 | 39.04 | 39.60 | 0.5682 | 39.70 | 0.7100 | -0.1417 | 8856.5 | 9643.8 | 884.0 |
| 10. | 14.00 | 46.56 | 33.16 | 39.04 | 39.60 | 0.5645 | 39.73 | 0.6899 | -0.1254 | 8839.7 | 9608.5 | 768.8 |
| 10. | 15.00 | 46.55 | 33.14 | 39.04 | 39.60 | 0.5660 | 39.72 | 0.6800 | -0.1139 | 8819.7 | 9626.5 | 806.7 |
| 10. | 16.00 | 46.50 | 33.12 | 39.04 | 39.60 | 0.5675 | 39.71 | 0.6699 | -0.1024 | 8799.2 | 9648.5 | 648.7 |
| 10. | 17.00 | 46.48 | 33.10 | 39.04 | 39.58 | 0.5458 | 39.70 | 0.6599 | -0.1141 | 8489.2 | 9486.2 | 646.7 |
| 10. | 18.00 | 46.47 | 33.10 | 39.02 | 39.56 | 0.5459 | 39.68 | 0.6599 | -0.1140 | 8495.3 | 9432.0 | 95.0 |
| 10. | 19.00 | 46.46 | 33.10 | 39.00 | 39.56 | 0.5461 | 39.66 | 0.6600 | -0.1138 | 8501.3 | 9436.0 | 93.9 |
| 10. | 20.00 | 46.46 | 33.10 | 38.98 | 39.52 | 0.5463 | 39.65 | 0.6699 | -0.1126 | 8513.5 | 9419.8 | 98.7 |
| 10. | 21.00 | 46.45 | 33.10 | 38.96 | 39.50 | 0.5464 | 39.63 | 0.6700 | -0.1133 | 8519.5 | 9307.0 | 885.7 |
| 10. | 22.00 | 46.45 | 33.10 | 38.94 | 39.48 | 0.5466 | 39.62 | 0.6899 | -0.1432 | 8371.6 | 9311.4 | 833.7 |
| 10. | 23.00 | 46.44 | 33.10 | 38.92 | 39.46 | 0.5467 | 39.61 | 0.6899 | -0.1432 | 8371.6 | 9311.4 | 833.7 |
| 10. | 24.00 | 46.43 | 33.10 | 38.91 | 39.45 | 0.5467 | 39.59 | 0.6800 | -0.1430 | 8229.9 | 9366.9 | 797.1 |
| 11. | 1.00 | 46.43 | 33.10 | 38.89 | 39.43 | 0.5469 | 39.58 | 0.6899 | -0.1430 | 8555.7 | 9340.5 | 174.7 |
| 11. | 2.00 | 46.42 | 33.10 | 38.87 | 39.41 | 0.5470 | 39.56 | 0.6899 | -0.1425 | 8463.7 | 9314.3 | 820.5 |
| 11. | 3.00 | 46.42 | 33.10 | 38.85 | 39.39 | 0.5471 | 39.55 | 0.6999 | -0.1425 | 8463.7 | 9257.8 | 650.8 |
| 11. | 4.00 | 46.41 | 33.10 | 38.83 | 39.37 | 0.5468 | 39.53 | 0.6999 | -0.1421 | 8475.6 | 9341.6 | 805.9 |
| 11. | 5.00 | 46.40 | 33.10 | 38.81 | 39.35 | 0.5459 | 39.51 | 0.7000 | -0.1421 | 8475.6 | 9341.6 | 805.9 |
| 11. | 6.00 | 46.40 | 33.07 | 38.80 | 39.34 | 0.4499 | 39.50 | 0.7000 | -0.1420 | 7903.6 | 8287.6 | 444.1 |
| 11. | 7.00 | 46.40 | 33.05 | 38.80 | 39.32 | 0.4512 | 39.53 | 0.7299 | -0.2787 | 7902.8 | 8362.0 | 459.2 |

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CANAL C-38DC

URS (TEAM) 1085 OH J

| DAY | TIME | HMBD | JTRD | HMED | COMP TIME | COMP OH | URS (TEAM) | 1085 OH J | diff | QUP | QDN | QL |
|-----|-------|-------|-------|-------|-----------|---------|------------|-----------|---------|--------|---------|--------|
| 11 | 8:00 | 46.40 | 33.04 | 38.80 | 39.25 | 0.4519 | 39.57 | 0.7700 | -0.3180 | 7902.5 | 8369.2 | 467.0 |
| 11 | 9:00 | 46.40 | 33.04 | 38.80 | 39.25 | 0.4518 | 39.60 | 0.8000 | -0.3481 | 7902.5 | 8358.9 | 466.4 |
| 11 | 10:00 | 46.40 | 33.05 | 38.81 | 39.26 | 0.4511 | 39.64 | 0.8300 | -0.3788 | 7897.4 | 8368.8 | 471.4 |
| 11 | 11:00 | 46.40 | 33.06 | 38.81 | 39.26 | 0.4504 | 39.67 | 0.8600 | -0.4095 | 7897.4 | 8361.4 | 471.4 |
| 11 | 12:00 | 46.40 | 33.07 | 38.81 | 39.25 | 0.4498 | 39.71 | 0.9000 | -0.4501 | 7898.1 | 8358.1 | 485.9 |
| 11 | 13:00 | 46.40 | 33.07 | 38.81 | 39.25 | 0.4498 | 39.75 | 0.9400 | -0.4901 | 7898.1 | 8358.1 | 485.9 |
| 11 | 14:00 | 46.41 | 33.08 | 38.81 | 39.25 | 0.4492 | 39.78 | 0.9699 | -0.5207 | 7904.0 | 8346.7 | 442.6 |
| 11 | 15:00 | 46.41 | 33.09 | 38.82 | 39.26 | 0.4484 | 39.82 | 1.0000 | -0.5515 | 7898.8 | 8346.6 | 447.7 |
| 11 | 16:00 | 46.41 | 33.10 | 38.82 | 39.26 | 0.4477 | 39.85 | 1.0300 | -0.5822 | 7899.3 | 8339.2 | 439.9 |
| 11 | 17:00 | 46.41 | 33.10 | 38.82 | 39.26 | 0.4477 | 39.89 | 1.0699 | -0.6222 | 7899.2 | 8339.2 | 439.9 |
| 11 | 18:00 | 46.41 | 33.11 | 38.82 | 39.26 | 0.4471 | 39.92 | 1.1099 | -0.6528 | 7899.6 | 8331.4 | 432.1 |
| 11 | 19:00 | 46.41 | 33.12 | 38.82 | 39.26 | 0.4464 | 39.96 | 1.1500 | -0.6935 | 7900.0 | 8324.4 | 424.4 |
| 11 | 20:00 | 46.42 | 33.12 | 38.83 | 39.27 | 0.4456 | 40.00 | 1.1700 | -0.7235 | 7900.0 | 8331.7 | 431.7 |
| 11 | 21:00 | 46.41 | 33.13 | 38.83 | 39.27 | 0.4456 | 39.83 | 1.0000 | -0.5543 | 7894.9 | 8331.7 | 431.7 |
| 11 | 22:00 | 46.40 | 33.14 | 38.83 | 39.27 | 0.4449 | 39.66 | 0.8300 | -0.3850 | 7889.7 | 8316.6 | 426.8 |
| 11 | 23:00 | 46.40 | 33.15 | 38.83 | 39.27 | 0.4441 | 39.50 | 0.6700 | -0.2284 | 7680.2 | 8309.2 | 629.9 |
| 11 | 24:00 | 46.40 | 33.16 | 38.84 | 39.28 | 0.4408 | 39.50 | 0.6600 | -0.2191 | 7675.1 | 8309.1 | 633.9 |
| 12 | 1:00 | 46.41 | 33.16 | 38.84 | 39.28 | 0.4408 | 39.50 | 0.6600 | -0.2191 | 7680.5 | 8301.7 | 628.5 |
| 12 | 2:00 | 46.42 | 33.17 | 38.84 | 39.28 | 0.4403 | 39.50 | 0.6600 | -0.2196 | 7686.2 | 8301.7 | 628.5 |
| 12 | 3:00 | 46.42 | 33.18 | 38.84 | 39.27 | 0.4396 | 39.50 | 0.6600 | -0.2203 | 7686.5 | 8294.3 | 607.4 |
| 12 | 4:00 | 46.43 | 33.19 | 38.85 | 39.28 | 0.4389 | 39.50 | 0.6500 | -0.2210 | 7686.9 | 8294.2 | 607.4 |
| 12 | 5:00 | 46.44 | 33.19 | 38.85 | 39.28 | 0.4390 | 39.50 | 0.6500 | -0.2210 | 7689.3 | 8294.2 | 607.4 |
| 12 | 6:00 | 46.44 | 33.20 | 38.85 | 39.28 | 0.4384 | 39.50 | 0.6500 | -0.2215 | 7697.9 | 8296.7 | 588.8 |
| 12 | 7:00 | 46.44 | 33.21 | 38.85 | 39.28 | 0.4377 | 39.50 | 0.6500 | -0.2212 | 7692.9 | 8279.3 | 588.8 |
| 12 | 8:00 | 46.44 | 33.21 | 38.85 | 39.28 | 0.4376 | 39.50 | 0.6500 | -0.2212 | 7693.0 | 8278.4 | 589.4 |
| 12 | 9:00 | 46.44 | 33.21 | 38.86 | 39.29 | 0.4368 | 39.50 | 0.6400 | -0.2211 | 7686.9 | 8308.0 | 613.9 |
| 12 | 10:00 | 46.44 | 33.19 | 38.86 | 39.29 | 0.4395 | 39.50 | 0.6400 | -0.2094 | 7686.6 | 8308.0 | 613.9 |
| 12 | 11:00 | 46.44 | 33.18 | 38.86 | 39.30 | 0.4402 | 39.50 | 0.6400 | -0.2094 | 7686.6 | 8313.6 | 621.3 |
| 12 | 12:00 | 46.44 | 33.16 | 38.86 | 39.30 | 0.4408 | 39.50 | 0.6400 | -0.1997 | 7686.2 | 8313.6 | 621.3 |
| 12 | 13:00 | 46.44 | 33.15 | 38.87 | 39.31 | 0.4414 | 39.50 | 0.6300 | -0.1897 | 7685.9 | 8317.7 | 637.3 |
| 12 | 14:00 | 46.44 | 33.13 | 38.87 | 39.31 | 0.4423 | 39.50 | 0.6300 | -0.1807 | 7690.5 | 8327.0 | 673.3 |
| 12 | 15:00 | 46.44 | 33.12 | 38.87 | 39.31 | 0.4434 | 39.50 | 0.6300 | -0.1815 | 7690.5 | 8327.0 | 673.3 |
| 12 | 16:00 | 46.44 | 33.11 | 38.87 | 39.31 | 0.4441 | 39.50 | 0.6300 | -0.1845 | 7679.1 | 8360.4 | 680.1 |
| 12 | 17:00 | 46.44 | 33.11 | 38.87 | 39.32 | 0.4429 | 39.50 | 0.6200 | -0.1858 | 7678.8 | 8367.4 | 688.6 |
| 12 | 18:00 | 46.44 | 33.10 | 38.87 | 39.32 | 0.4436 | 39.50 | 0.6200 | -0.1858 | 7665.8 | 10417.2 | 2851.3 |
| 12 | 19:00 | 46.44 | 33.08 | 38.89 | 39.32 | 0.6436 | 39.50 | 0.9256 | 0.2358 | 7565.8 | 10426.3 | 2861.3 |
| 12 | 20:00 | 46.44 | 33.08 | 38.89 | 39.32 | 0.6435 | 39.50 | 0.9256 | 0.2358 | 7565.3 | 10452.5 | 2899.0 |
| 12 | 21:00 | 46.44 | 33.08 | 38.90 | 39.32 | 0.6435 | 39.50 | 0.9256 | 0.2358 | 7558.9 | 10452.5 | 2899.0 |
| 12 | 22:00 | 46.43 | 33.08 | 38.90 | 39.32 | 0.6454 | 39.50 | 0.6000 | -0.0454 | 7548.1 | 10461.5 | 2913.4 |
| 12 | 23:00 | 46.43 | 33.08 | 38.90 | 39.32 | 0.6454 | 39.50 | 0.5900 | -0.0544 | 7543.2 | 10461.3 | 2918.1 |
| 13 | 1:00 | 46.43 | 33.09 | 38.91 | 39.32 | 0.6442 | 39.50 | 0.5800 | -0.0642 | 7537.7 | 10461.3 | 2923.6 |
| 13 | 2:00 | 46.42 | 33.09 | 38.91 | 39.32 | 0.6442 | 39.50 | 0.5800 | -0.0642 | 7532.3 | 10470.3 | 2938.0 |
| 13 | 3:00 | 46.42 | 33.09 | 38.93 | 39.32 | 0.6442 | 39.50 | 0.5800 | -0.0642 | 7532.3 | 10470.3 | 2938.0 |
| 13 | 4:00 | 46.41 | 33.10 | 38.93 | 39.37 | 0.6431 | 39.50 | 0.5700 | -0.0731 | 7521.9 | 10470.2 | 2948.2 |
| 13 | 5:00 | 46.41 | 33.10 | 38.93 | 39.37 | 0.6431 | 39.50 | 0.5700 | -0.0731 | 7522.0 | 10479.1 | 2962.6 |
| 13 | 6:00 | 46.41 | 33.10 | 38.94 | 39.38 | 0.6430 | 39.50 | 0.5600 | -0.0830 | 7516.5 | 10479.1 | 2962.6 |
| 13 | 7:00 | 46.41 | 33.10 | 38.94 | 39.38 | 0.6430 | 39.50 | 0.5600 | -0.0830 | 7516.6 | 10479.1 | 2962.5 |

CANAL C-3-RDC

QL

| LAY | TIME | HWEU | HWEU | THED | RHEED | COMP TWEU | COMP IDH | OHES TWEU | OHES DH | DIFF | QUP | QDN | QDN |
|-----|-------|-------|-------|-------|-------|-----------|----------|-----------|---------|--------|--------|-------|-----|
| 13 | 8:00 | 46.41 | 33.10 | 38.95 | 39.35 | 0.4077 | 39.50 | 0.5500 | -0.1422 | 7428.3 | 8049.4 | 621.0 | |
| 13 | 9:00 | 46.42 | 33.08 | 38.96 | 39.37 | 0.4083 | 39.50 | 0.5300 | -0.1211 | 7422.8 | 8076.6 | 653.7 | |
| 13 | 10:00 | 46.44 | 33.06 | 38.99 | 39.39 | 0.4099 | 39.50 | 0.5100 | -0.1000 | 7422.2 | 8103.9 | 681.6 | |
| 13 | 11:00 | 46.46 | 33.05 | 39.01 | 39.42 | 0.4104 | 39.50 | 0.4900 | -0.0795 | 7422.0 | 8124.2 | 702.2 | |
| 13 | 12:00 | 46.48 | 33.03 | 39.03 | 39.44 | 0.4115 | 39.50 | 0.4700 | -0.0584 | 7421.4 | 8151.4 | 729.9 | |
| 13 | 13:00 | 46.50 | 33.01 | 39.05 | 39.46 | 0.4126 | 39.50 | 0.4500 | -0.0337 | 7734.2 | 8175.3 | 441.1 | |
| 13 | 14:00 | 46.49 | 33.03 | 39.07 | 39.48 | 0.4148 | 39.50 | 0.4300 | -0.0151 | 7718.4 | 8175.7 | 451.3 | |
| 13 | 15:00 | 46.48 | 33.06 | 39.10 | 39.53 | 0.4369 | 39.50 | 0.4100 | 0.0269 | 7683.5 | 8469.3 | 785.8 | |
| 13 | 16:00 | 46.47 | 33.08 | 39.09 | 39.52 | 0.4345 | 39.50 | 0.4000 | 0.0245 | 7680.1 | 8422.7 | 764.9 | |
| 13 | 17:00 | 46.46 | 33.12 | 39.09 | 39.52 | 0.4351 | 39.50 | 0.4100 | 0.0245 | 7680.1 | 8422.7 | 742.6 | |
| 13 | 18:00 | 46.45 | 33.11 | 39.08 | 39.51 | 0.4351 | 39.50 | 0.4200 | 0.0151 | 7679.8 | 8422.2 | 742.4 | |
| 13 | 19:00 | 46.45 | 33.11 | 39.08 | 39.51 | 0.4351 | 39.50 | 0.4300 | 0.0051 | 7679.8 | 8421.8 | 741.9 | |
| 13 | 20:00 | 46.45 | 33.10 | 39.07 | 39.50 | 0.4358 | 39.51 | 0.4399 | -0.0041 | 7685.0 | 8421.7 | 736.6 | |
| 13 | 21:00 | 46.45 | 33.10 | 39.07 | 39.50 | 0.4358 | 39.51 | 0.4499 | -0.0041 | 7685.0 | 8421.3 | 736.2 | |
| 13 | 22:00 | 46.44 | 33.10 | 39.07 | 39.50 | 0.4357 | 39.52 | 0.4600 | -0.0142 | 7679.5 | 8421.1 | 741.5 | |
| 13 | 23:00 | 46.44 | 33.10 | 39.06 | 39.49 | 0.4363 | 39.52 | 0.4600 | -0.0242 | 7685.0 | 8421.6 | 728.5 | |
| 14 | 1:00 | 46.44 | 33.09 | 39.06 | 39.49 | 0.4363 | 39.52 | 0.4699 | -0.0236 | 7684.7 | 8420.5 | 735.4 | |
| 14 | 2:00 | 46.44 | 33.09 | 39.06 | 39.49 | 0.4363 | 39.53 | 0.4600 | -0.0336 | 7684.7 | 8420.1 | 735.4 | |
| 14 | 3:00 | 46.44 | 33.09 | 39.05 | 39.48 | 0.4364 | 39.53 | 0.4799 | -0.0435 | 7690.2 | 8412.9 | 722.7 | |
| 14 | 4:00 | 46.43 | 33.09 | 39.05 | 39.48 | 0.4364 | 39.53 | 0.4799 | -0.0435 | 7684.7 | 8412.9 | 722.7 | |
| 14 | 5:00 | 46.43 | 33.08 | 39.05 | 39.48 | 0.4363 | 39.53 | 0.4900 | -0.0530 | 7684.4 | 8419.4 | 735.0 | |
| 14 | 6:00 | 46.43 | 33.08 | 39.04 | 39.47 | 0.4369 | 39.54 | 0.5000 | -0.0629 | 7689.4 | 8411.9 | 722.0 | |
| 14 | 7:00 | 46.43 | 33.08 | 39.04 | 39.47 | 0.4370 | 39.54 | 0.5000 | -0.0630 | 7689.8 | 8411.7 | 721.8 | |
| 14 | 8:00 | 46.43 | 33.07 | 39.04 | 39.44 | 0.4369 | 39.54 | 0.5099 | -0.1015 | 7391.5 | 8126.2 | 738.6 | |
| 14 | 9:00 | 46.43 | 33.06 | 39.04 | 39.44 | 0.4089 | 39.54 | 0.5000 | -0.0910 | 7391.2 | 8133.1 | 741.9 | |
| 14 | 10:00 | 46.44 | 33.06 | 39.04 | 39.44 | 0.4089 | 39.54 | 0.4899 | -0.0809 | 7396.4 | 8133.1 | 736.6 | |
| 14 | 11:00 | 46.44 | 33.06 | 39.03 | 39.43 | 0.4091 | 39.53 | 0.5000 | -0.0908 | 7401.7 | 8126.3 | 728.6 | |
| 14 | 12:00 | 46.45 | 33.06 | 39.03 | 39.43 | 0.4092 | 39.52 | 0.4900 | -0.0807 | 7406.9 | 8126.3 | 719.3 | |
| 14 | 13:00 | 46.45 | 33.06 | 39.03 | 39.43 | 0.4092 | 39.52 | 0.4900 | -0.0807 | 7406.9 | 8126.3 | 719.4 | |
| 14 | 14:00 | 46.46 | 33.05 | 39.03 | 39.43 | 0.4098 | 39.51 | 0.4800 | -0.0701 | 7411.8 | 8133.5 | 721.5 | |
| 14 | 15:00 | 46.46 | 33.05 | 39.03 | 39.43 | 0.4098 | 39.51 | 0.4800 | -0.0701 | 7411.8 | 8133.5 | 721.5 | |
| 14 | 16:00 | 46.47 | 33.05 | 39.03 | 39.43 | 0.4099 | 39.50 | 0.4700 | -0.0600 | 7417.0 | 8133.5 | 716.3 | |
| 14 | 17:00 | 46.48 | 33.05 | 39.03 | 39.43 | 0.4100 | 39.50 | 0.4700 | -0.0599 | 7422.2 | 8133.5 | 711.1 | |
| 14 | 18:00 | 46.47 | 33.05 | 39.03 | 39.43 | 0.4099 | 39.50 | 0.4700 | -0.0600 | 7417.0 | 8133.5 | 716.3 | |
| 14 | 19:00 | 46.47 | 33.05 | 39.03 | 39.43 | 0.4099 | 39.50 | 0.4700 | -0.0600 | 7422.2 | 8133.5 | 716.3 | |
| 14 | 20:00 | 46.47 | 33.04 | 39.02 | 39.43 | 0.4106 | 39.50 | 0.4900 | -0.0795 | 7421.9 | 8133.6 | 711.7 | |
| 14 | 21:00 | 46.47 | 33.04 | 39.02 | 39.43 | 0.4106 | 39.51 | 0.4900 | -0.0795 | 7421.9 | 8133.6 | 711.7 | |
| 14 | 22:00 | 46.47 | 33.04 | 39.02 | 39.43 | 0.4106 | 39.51 | 0.4900 | -0.0795 | 7421.9 | 8133.6 | 711.7 | |
| 14 | 23:00 | 46.47 | 33.04 | 39.02 | 39.43 | 0.4106 | 39.52 | 0.5000 | -0.0893 | 7421.9 | 8133.6 | 711.7 | |
| 15 | 1:00 | 46.47 | 33.04 | 39.02 | 39.43 | 0.4106 | 39.52 | 0.5000 | -0.0893 | 7421.9 | 8133.6 | 711.7 | |
| 15 | 2:00 | 46.47 | 33.04 | 39.02 | 39.43 | 0.4106 | 39.53 | 0.5099 | -0.0933 | 7421.9 | 8133.6 | 711.7 | |
| 15 | 3:00 | 46.47 | 33.03 | 39.02 | 39.43 | 0.4112 | 39.53 | 0.5099 | -0.0933 | 7421.9 | 8133.6 | 711.7 | |
| 15 | 4:00 | 46.47 | 33.03 | 39.02 | 39.43 | 0.4112 | 39.53 | 0.5099 | -0.0933 | 7421.9 | 8133.6 | 711.7 | |
| 15 | 5:00 | 46.47 | 33.03 | 39.02 | 39.43 | 0.4112 | 39.54 | 0.5099 | -0.0933 | 7421.6 | 8140.7 | 719.1 | |
| 15 | 6:00 | 46.47 | 33.03 | 39.02 | 39.43 | 0.4112 | 39.54 | 0.5200 | -0.1087 | 7421.6 | 8140.7 | 719.1 | |
| 15 | 7:00 | 46.47 | 33.03 | 39.01 | 39.42 | 0.4118 | 39.54 | 0.5300 | -0.1181 | 7421.6 | 8134.1 | 719.5 | |
| 15 | 8:00 | 46.47 | 33.03 | 39.01 | 39.42 | 0.4118 | 39.54 | 0.5300 | -0.1181 | 7421.2 | 8140.8 | 707.1 | |
| 15 | 9:00 | 46.46 | 33.02 | 39.01 | 39.42 | 0.4118 | 39.54 | 0.5399 | -0.1087 | 7426.7 | 8139.9 | 719.5 | |
| 15 | 10:00 | 46.45 | 33.02 | 39.01 | 39.42 | 0.4118 | 39.53 | 0.5199 | -0.1081 | 7416.0 | 8140.8 | 724.8 | |
| 15 | 11:00 | 46.45 | 33.01 | 39.01 | 39.42 | 0.4123 | 39.53 | 0.5199 | -0.1076 | 7415.7 | 8147.5 | 731.7 | |
| 15 | 12:00 | 46.44 | 33.01 | 39.01 | 39.42 | 0.4123 | 39.52 | 0.5099 | -0.0976 | 7410.5 | 8147.5 | 736.9 | |
| 15 | 13:00 | 46.44 | 33.01 | 39.01 | 39.42 | 0.4123 | 39.52 | 0.5099 | -0.0976 | 7410.5 | 8147.5 | 736.9 | |

CANAL C-38CB

| DAY | TIME | MBRU. I | THED | MWED | COMP | THRU | COMP | DM | DBS | THRU | ORS | DM | DIFF | GUP | QDN | QL |
|-----|-------|---------|-------|-------|-------|-------|--------|---------|---------|---------|--------|----|------|-----|-----|----|
| 1 | 8:00 | 52.21 | 39.88 | 45.31 | 46:30 | 46:12 | 0.6099 | 0.1877 | 3809.5 | 4374.1 | 1164.6 | | | | | |
| 1 | 9:00 | 52.23 | 39.88 | 42.50 | 46:30 | 46:12 | 0.6239 | 0.1716 | 3815.4 | 4373.6 | 1158.2 | | | | | |
| 1 | 10:00 | 52.23 | 39.88 | 42.50 | 46:30 | 46:15 | 0.6439 | 0.1514 | 3818.6 | 4373.1 | 1154.5 | | | | | |
| 1 | 11:00 | 52.23 | 39.88 | 42.50 | 46:30 | 46:16 | 0.6539 | 0.1414 | 3821.8 | 4372.6 | 1150.7 | | | | | |
| 1 | 12:00 | 52.22 | 39.08 | 45.33 | 46:30 | 46:17 | 0.6539 | 0.1172 | 3832.8 | 4372.5 | 1135.4 | | | | | |
| 1 | 13:00 | 52.22 | 39.08 | 45.33 | 46:30 | 46:16 | 0.6339 | 0.1349 | 3821.0 | 4884.1 | 1057.0 | | | | | |
| 1 | 14:00 | 52.28 | 39.08 | 45.16 | 46:30 | 46:18 | 0.6539 | 0.1513 | 3819.5 | 4879.3 | 1050.8 | | | | | |
| 1 | 15:00 | 52.29 | 39.08 | 48.64 | 46:30 | 46:20 | 0.6339 | 0.1869 | 3812.9 | 4910.8 | 1097.8 | | | | | |
| 1 | 16:00 | 52.31 | 39.11 | 45.68 | 46:45 | 46:50 | 0.6439 | 0.1689 | 3808.3 | 4326.0 | 1121.6 | | | | | |
| 1 | 17:00 | 52.44 | 39.17 | 45.68 | 46:45 | 46:51 | 0.6339 | 0.2374 | 4083.6 | 4332.2 | 846.6 | | | | | |
| 1 | 18:00 | 52.45 | 39.23 | 45.69 | 46:47 | 46:25 | 0.7039 | 0.2529 | 4082.5 | 4332.2 | 846.6 | | | | | |
| 1 | 19:00 | 52.44 | 39.23 | 45.70 | 46:47 | 46:25 | 0.7939 | 0.4619 | 4611.3 | 4693.4 | 237.4 | | | | | |
| 1 | 20:00 | 52.42 | 39.33 | 45.72 | 46:58 | 46:50 | 0.7939 | -0.0204 | 4611.3 | 4693.4 | 237.4 | | | | | |
| 1 | 21:00 | 52.42 | 39.33 | 45.80 | 46:58 | 46:56 | 0.8339 | 0.0243 | 4647.6 | 5272.3 | 701.3 | | | | | |
| 1 | 22:00 | 52.44 | 39.41 | 45.90 | 46:58 | 46:67 | 0.8139 | 0.0478 | 4624.6 | 5292.4 | 491.3 | | | | | |
| 1 | 23:00 | 52.45 | 39.40 | 45.95 | 46:58 | 46:65 | 0.7239 | 0.2183 | 4756.5 | 5711.9 | 957.3 | | | | | |
| 1 | 24:00 | 52.45 | 39.44 | 46.00 | 47:01 | 46:45 | 0.6539 | 0.2445 | 4738.9 | 5711.9 | 957.3 | | | | | |
| 2 | 1:00 | 52.48 | 39.43 | 45.98 | 47:01 | 46:66 | 0.6839 | 0.3744 | 4683.8 | 6148.6 | 1444.9 | | | | | |
| 2 | 2:00 | 52.48 | 39.42 | 45.96 | 47:00 | 46:66 | 0.6839 | 0.3431 | 4683.8 | 6148.6 | 1444.9 | | | | | |
| 2 | 3:00 | 52.50 | 39.41 | 45.94 | 46:98 | 46:70 | 0.7239 | 0.3115 | 4710.8 | 6139.8 | 1428.9 | | | | | |
| 2 | 4:00 | 52.51 | 39.40 | 45.92 | 46:98 | 46:71 | 0.7539 | 0.2851 | 4722.1 | 6135.1 | 1413.0 | | | | | |
| 2 | 5:00 | 52.53 | 39.39 | 45.90 | 46:95 | 46:73 | 0.7939 | 0.2487 | 4737.6 | 6130.9 | 1393.3 | | | | | |
| 2 | 6:00 | 52.54 | 39.37 | 45.88 | 46:93 | 46:73 | 0.8239 | 0.2224 | 4749.8 | 6126.3 | 1377.4 | | | | | |
| 2 | 7:00 | 52.56 | 39.36 | 45.86 | 46:94 | 46:75 | 0.8639 | 0.1861 | 4759.9 | 6122.1 | 1362.1 | | | | | |
| 2 | 8:00 | 52.54 | 39.44 | 45.85 | 47:13 | 46:76 | 0.9039 | 0.1737 | 5336.3 | 6117.6 | 779.3 | | | | | |
| 2 | 9:00 | 52.54 | 39.41 | 45.83 | 47:11 | 46:79 | 0.9239 | 0.1699 | 5243.7 | 6877.7 | 1635.9 | | | | | |
| 2 | 10:00 | 52.53 | 39.38 | 45.82 | 47:11 | 46:79 | 0.9639 | 0.3194 | 5245.7 | 6885.0 | 1639.7 | | | | | |
| 2 | 11:00 | 52.53 | 39.36 | 45.81 | 47:10 | 46:81 | 0.9839 | 0.2742 | 5242.7 | 6892.5 | 1653.0 | | | | | |
| 2 | 12:00 | 52.50 | 39.34 | 45.80 | 47:10 | 46:82 | 1.0139 | 0.3045 | 5245.5 | 6901.6 | 1656.6 | | | | | |
| 2 | 13:00 | 52.50 | 39.29 | 45.79 | 47:09 | 46:84 | 1.0339 | 0.2627 | 5243.3 | 6909.0 | 1667.5 | | | | | |
| 2 | 14:00 | 52.50 | 39.28 | 45.78 | 47:09 | 46:84 | 1.0539 | 0.2498 | 5239.8 | 6927.3 | 1685.5 | | | | | |
| 2 | 15:00 | 52.50 | 39.27 | 45.77 | 47:08 | 46:87 | 1.0900 | 0.2231 | 5243.4 | 6927.6 | 1684.1 | | | | | |
| 2 | 16:00 | 52.48 | 39.26 | 45.76 | 47:07 | 46:87 | 1.1099 | 0.2055 | 5242.2 | 6927.5 | 1685.5 | | | | | |
| 2 | 17:00 | 52.48 | 39.46 | 45.75 | 47:21 | 46:91 | 1.1399 | 0.1779 | 5241.0 | 6927.8 | 1686.7 | | | | | |
| 2 | 18:00 | 52.51 | 39.55 | 45.92 | 47:39 | 47:21 | 1.1699 | 0.2279 | 5543.3 | 7413.9 | 1870.5 | | | | | |
| 2 | 19:00 | 52.56 | 39.80 | 46.10 | 47:72 | 47:48 | 1.2799 | 0.1990 | 6560.3 | 7456.6 | 896.2 | | | | | |
| 2 | 20:00 | 52.59 | 40.24 | 46.05 | 47:84 | 47:72 | 1.3899 | 0.2362 | 6374.5 | 8209.9 | 1835.4 | | | | | |
| 2 | 21:00 | 52.56 | 40.37 | 46.05 | 48:51 | 47:99 | 1.8499 | 0.0473 | 8435.2 | 8674.0 | 238.7 | | | | | |
| 2 | 22:00 | 52.87 | 41.07 | 46.55 | 49:05 | 47:90 | 1.8499 | 0.0643 | 8435.2 | 8674.0 | 238.7 | | | | | |
| 2 | 23:00 | 52.87 | 41.22 | 46.88 | 49:05 | 50:75 | 4.1399 | -1.6973 | 10422.9 | 11177.3 | 754.4 | | | | | |
| 2 | 24:00 | 53.10 | 41.53 | 46.88 | 49:39 | 51:24 | 4.3199 | -1.2075 | 10219.0 | 13610.0 | 3391.0 | | | | | |
| 3 | 1:00 | 53.13 | 41.63 | 46.88 | 49:85 | 51:12 | 4.2439 | -1.2456 | 10444.6 | 13232.6 | 2788.0 | | | | | |
| 3 | 2:00 | 53.17 | 41.74 | 46.89 | 49:82 | 51:00 | 4.1199 | -1.2183 | 10545.7 | 13111.1 | 2565.3 | | | | | |
| 3 | 3:00 | 53.41 | 41.89 | 46.95 | 50:77 | 51:00 | 4.1199 | -1.1819 | 10650.2 | 12988.4 | 2348.6 | | | | | |
| 3 | 4:00 | 53.59 | 42.40 | 47.09 | 50:90 | 50:95 | 3.9999 | -0.1766 | 10254.9 | 15699.6 | 5444.6 | | | | | |
| 3 | 5:00 | 53.76 | 42.12 | 47.25 | 51:06 | 51:09 | 3.9239 | -0.1140 | 10321.3 | 15747.5 | 5420.1 | | | | | |
| 3 | 6:00 | 53.95 | 42.40 | 47.40 | 51:16 | 51:16 | 3.8159 | -0.0224 | 10361.3 | 15812.9 | 5451.6 | | | | | |
| 3 | 7:00 | 54.12 | 42.37 | 47.34 | 51:07 | 51:24 | 3.7639 | -0.0073 | 10513.8 | 15719.0 | 5205.1 | | | | | |
| 3 | | | | | | | 3.8699 | -0.1359 | 10999.8 | 15558.1 | 4558.2 | | | | | |

-101-

CANAL C-38C

| DAY | TIME | MHW | TWED | HMED | COMP TWED | COMP LH | OBS TWED | OBS DH | OBS | WTEFF | OUP | ODV | OL |
|-----|-------|-------|-------|-------|-----------|---------|----------|--------|---------|---------|---------|--------|----|
| 3 | 8:00 | 54.29 | 42.42 | 47.30 | 51.01 | 3.7104 | 3.7104 | 3.7979 | -0.2695 | 11410.6 | 15625.9 | 4015.3 | |
| 3 | 9:00 | 54.45 | 42.48 | 47.35 | 51.05 | 3.7083 | 3.7083 | 3.9899 | -0.2816 | 11620.4 | 16409.0 | 3788.6 | |
| 3 | 10:00 | 54.63 | 42.46 | 47.40 | 50.64 | 3.7245 | 3.7245 | 4.0000 | -0.7504 | 11610.9 | 16253.7 | 2642.7 | |
| 3 | 11:00 | 54.73 | 42.51 | 47.70 | 50.95 | 3.6953 | 3.6953 | 3.5000 | -0.4446 | 11294.8 | 16472.4 | 3177.6 | |
| 3 | 12:00 | 54.82 | 42.60 | 47.00 | 51.18 | 3.2823 | 3.2823 | 3.5000 | -0.2174 | 11102.9 | 16621.7 | 3418.8 | |
| 3 | 13:00 | 54.88 | 42.68 | 47.95 | 51.21 | 3.2660 | 3.2660 | 3.4599 | -0.1939 | 11142.6 | 16580.6 | 3437.9 | |
| 3 | 14:00 | 54.95 | 42.79 | 47.51 | 51.16 | 3.2127 | 3.2127 | 3.4699 | -0.2572 | 11311.7 | 16429.5 | 3117.7 | |
| 3 | 15:00 | 55.01 | 42.81 | 48.00 | 51.44 | 3.1886 | 3.1886 | 3.5399 | -0.3513 | 11524.6 | 16431.9 | 2807.2 | |
| 3 | 16:00 | 55.06 | 42.84 | 48.05 | 51.28 | 3.2355 | 3.2355 | 3.3899 | -0.1544 | 11295.2 | 16493.8 | 3198.6 | |
| 3 | 17:00 | 55.10 | 42.85 | 48.20 | 51.52 | 3.3210 | 3.3210 | 3.2399 | 0.0810 | 11013.7 | 16683.5 | 3669.8 | |
| 3 | 18:00 | 55.16 | 42.89 | 48.17 | 51.45 | 3.2844 | 3.2844 | 3.2799 | 0.2794 | 11190.4 | 16597.6 | 3407.1 | |
| 3 | 19:00 | 55.20 | 42.86 | 48.45 | 51.54 | 3.2933 | 3.2933 | 3.1999 | 0.0959 | 1127.9 | 16603.9 | 3475.9 | |
| 3 | 20:00 | 55.32 | 43.03 | 48.55 | 51.34 | 3.1933 | 3.1933 | 3.2999 | -0.1066 | 11204.7 | 16365.8 | 2861.0 | |
| 3 | 21:00 | 55.34 | 43.11 | 48.85 | 51.45 | 3.1946 | 3.1946 | 3.2699 | -0.0753 | 11545.8 | 16398.6 | 2812.7 | |
| 3 | 22:00 | 55.34 | 43.11 | 48.85 | 51.45 | 3.2111 | 3.2111 | 3.2099 | 0.0011 | 11449.4 | 16395.2 | 2945.7 | |
| 3 | 23:00 | 55.37 | 43.16 | 48.45 | 51.43 | 3.1867 | 3.1867 | 3.2299 | -0.0432 | 11527.3 | 16333.9 | 2806.6 | |
| 3 | 24:00 | 55.40 | 43.20 | 48.47 | 51.48 | 3.1768 | 3.1768 | 3.2299 | -0.0351 | 11559.1 | 16402.0 | 2742.9 | |
| 4 | 1:00 | 55.41 | 43.24 | 48.30 | 51.47 | 3.1768 | 3.1768 | 3.2099 | -0.0215 | 11549.3 | 16287.2 | 2737.8 | |
| 4 | 2:00 | 55.45 | 43.28 | 48.33 | 51.49 | 3.1684 | 3.1684 | 3.1899 | -0.0215 | 11555.0 | 16272.2 | 2717.1 | |
| 4 | 3:00 | 55.46 | 43.30 | 48.36 | 51.49 | 3.1684 | 3.1684 | 3.1699 | 0.0078 | 11526.1 | 16284.3 | 2758.2 | |
| 4 | 4:00 | 55.50 | 43.32 | 48.39 | 51.58 | 3.1900 | 3.1900 | 3.1599 | 0.0300 | 11507.9 | 16246.4 | 2788.5 | |
| 4 | 5:00 | 55.50 | 43.32 | 48.36 | 51.53 | 3.1903 | 3.1903 | 3.1399 | 0.0503 | 11479.9 | 16287.4 | 2807.5 | |
| 4 | 6:00 | 55.53 | 43.38 | 48.20 | 51.61 | 3.0423 | 3.0423 | 3.3799 | -0.3376 | 12034.0 | 13942.8 | 1908.7 | |
| 4 | 7:00 | 55.54 | 43.41 | 48.40 | 51.54 | 3.1430 | 3.1430 | 3.1999 | -0.0569 | 11635.1 | 16185.5 | 2550.3 | |
| 4 | 8:00 | 55.57 | 43.45 | 48.40 | 51.52 | 3.1223 | 3.1223 | 3.2200 | -0.0976 | 11695.3 | 16136.9 | 2444.5 | |
| 4 | 9:00 | 55.57 | 43.46 | 48.45 | 51.59 | 3.1487 | 3.1487 | 3.1699 | -0.0212 | 11584.2 | 16181.8 | 2597.5 | |
| 4 | 10:00 | 55.57 | 43.48 | 48.45 | 51.58 | 3.1366 | 3.1366 | 3.1799 | -0.0433 | 11600.1 | 16159.0 | 2558.9 | |
| 4 | 11:00 | 55.57 | 43.50 | 48.45 | 51.57 | 3.1263 | 3.1263 | 3.1799 | -0.0536 | 11616.8 | 16136.1 | 2519.3 | |
| 4 | 12:00 | 55.57 | 43.51 | 48.45 | 51.56 | 3.1146 | 3.1146 | 3.1899 | -0.0753 | 11646.3 | 16111.2 | 2464.8 | |
| 4 | 13:00 | 55.57 | 43.53 | 48.45 | 51.55 | 3.1032 | 3.1032 | 3.1999 | -0.0967 | 11649.1 | 16088.5 | 2439.3 | |
| 4 | 14:00 | 55.56 | 43.40 | 48.45 | 51.65 | 3.1904 | 3.1904 | 3.2099 | -0.0199 | 11508.7 | 16270.2 | 2739.4 | |
| 4 | 15:00 | 55.54 | 43.42 | 48.45 | 51.62 | 3.1797 | 3.1797 | 3.2199 | -0.0402 | 11510.2 | 16249.7 | 2739.4 | |
| 4 | 16:00 | 55.54 | 43.45 | 48.45 | 51.61 | 3.1691 | 3.1691 | 3.2299 | -0.0608 | 11525.1 | 16228.8 | 2694.1 | |
| 4 | 17:00 | 55.53 | 43.45 | 48.45 | 51.60 | 3.1569 | 3.1569 | 3.2399 | -0.0830 | 11513.6 | 16207.8 | 2694.1 | |
| 4 | 18:00 | 55.51 | 43.40 | 48.45 | 51.63 | 3.1892 | 3.1892 | 3.2599 | -0.0707 | 11451.1 | 16274.5 | 2823.3 | |
| 4 | 19:00 | 55.50 | 43.40 | 48.45 | 51.66 | 3.1531 | 3.1531 | 3.2699 | -0.1168 | 11489.5 | 16205.3 | 2715.8 | |
| 4 | 20:00 | 55.50 | 43.51 | 48.45 | 51.56 | 3.1117 | 3.1117 | 3.2899 | -0.1772 | 11534.4 | 16122.1 | 2581.7 | |
| 4 | 21:00 | 55.48 | 43.51 | 48.45 | 51.52 | 3.0789 | 3.0789 | 3.2899 | -0.2210 | 11568.3 | 16051.9 | 2460.6 | |
| 4 | 22:00 | 55.48 | 43.61 | 48.45 | 51.49 | 3.0406 | 3.0406 | 3.2899 | -0.2493 | 11608.6 | 13968.7 | 2360.1 | |
| 4 | 23:00 | 55.48 | 43.71 | 48.45 | 51.42 | 2.9758 | 2.9758 | 3.2799 | -0.3261 | 11213.7 | 13963.6 | 2667.7 | |
| 4 | 24:00 | 55.48 | 43.75 | 48.45 | 51.39 | 2.9291 | 2.9291 | 3.2799 | -0.3408 | 11264.7 | 13799.1 | 2354.4 | |
| 5 | 1:00 | 55.48 | 43.78 | 48.45 | 51.37 | 2.9146 | 2.9146 | 3.2699 | -0.3383 | 11623.7 | 13764.6 | 2460.8 | |
| 5 | 2:00 | 55.48 | 43.81 | 48.45 | 51.36 | 2.8926 | 2.8926 | 3.2699 | -0.3273 | 11322.2 | 13624.2 | 2424.2 | |
| 5 | 3:00 | 55.48 | 43.81 | 48.45 | 51.32 | 2.8792 | 2.8792 | 3.2399 | -0.3502 | 11325.7 | 13260.0 | 2200.6 | |
| 5 | 4:00 | 55.48 | 43.85 | 48.45 | 51.31 | 2.8639 | 2.8639 | 3.2099 | -0.3460 | 11326.4 | 13161.9 | 2290.6 | |
| 5 | 5:00 | 55.45 | 43.85 | 48.45 | 51.33 | 2.8639 | 2.8639 | 3.1899 | -0.3436 | 11308.8 | 13517.9 | 2249.0 | |
| 5 | 6:00 | 55.41 | 43.88 | 48.45 | 51.03 | 2.8443 | 2.8443 | 3.1900 | -0.3672 | 11341.9 | 13515.8 | 2173.8 | |
| 5 | 7:00 | 55.40 | 43.90 | 48.43 | 51.62 | 2.827 | 2.827 | | | | | | |

CANAL C-38CP

| DAY | TIME | HBWD | LIBED | INED | COMP TWEU | COMP DM: | OBS TWEU | ORIG DM: | ORIG DIFF | QUP | QDN | OL |
|-----|-------|-------|-------|-------|-----------|----------|----------|----------|-----------|---------|---------|--------|
| 5 | 8:00 | 55.37 | 43.52 | 48.40 | 51.19 | 2.7954 | 51.59 | 3.1999 | -0.4045 | 11392.5 | 1348.6 | 2046.1 |
| 5 | 9:00 | 55.37 | 48.38 | 48.38 | 51.19 | 2.7725 | 51.59 | 3.2099 | -0.4374 | 11395.8 | 13380.4 | 1984.5 |
| 5 | 10:00 | 55.28 | 43.57 | 48.37 | 51.12 | 2.7514 | 51.57 | 3.2099 | -0.4585 | 11397.2 | 13254.6 | 1926.5 |
| 5 | 12:00 | 55.28 | 44.02 | 48.37 | 51.10 | 2.7287 | 51.56 | 3.1900 | -0.4512 | 11373.4 | 13264.6 | 1921.1 |
| 5 | 13:00 | 55.20 | 44.02 | 48.37 | 51.10 | 2.7232 | 51.56 | 3.1900 | -0.4672 | 11356.3 | 13252.6 | 1896.2 |
| 5 | 14:00 | 55.17 | 44.02 | 48.37 | 51.10 | 2.7081 | 51.51 | 3.1599 | -0.4367 | 11286.1 | 13227.2 | 1981.1 |
| 5 | 15:00 | 55.15 | 44.03 | 48.37 | 51.07 | 2.7065 | 51.51 | 3.1499 | -0.4418 | 11279.7 | 13224.7 | 1945.0 |
| 5 | 16:00 | 55.12 | 44.05 | 48.37 | 51.06 | 2.6943 | 51.50 | 3.1199 | -0.4234 | 11241.0 | 13226.0 | 1985.0 |
| 5 | 17:00 | 55.07 | 44.13 | 48.37 | 51.06 | 2.6520 | 51.48 | 3.1199 | -0.4256 | 11215.5 | 13156.7 | 1981.2 |
| 5 | 18:00 | 55.01 | 44.13 | 48.38 | 51.03 | 2.6342 | 51.46 | 3.0899 | -0.4379 | 11192.2 | 13088.7 | 1896.4 |
| 5 | 19:00 | 54.98 | 44.12 | 48.38 | 51.03 | 2.6342 | 51.45 | 3.0799 | -0.4257 | 11120.2 | 13103.1 | 1982.9 |
| 5 | 20:00 | 54.94 | 44.12 | 48.39 | 51.03 | 2.6511 | 51.44 | 3.0599 | -0.4088 | 11120.2 | 13103.1 | 2037.0 |
| 5 | 21:00 | 54.88 | 44.11 | 48.39 | 51.04 | 2.6550 | 51.44 | 3.0399 | -0.3849 | 11094.0 | 13126.1 | 2113.2 |
| 5 | 22:00 | 54.84 | 44.11 | 48.36 | 51.00 | 2.6457 | 51.41 | 3.0499 | -0.4042 | 11077.7 | 13094.1 | 2116.4 |
| 5 | 23:00 | 54.79 | 44.11 | 48.26 | 50.86 | 2.6087 | 51.38 | 3.1299 | -0.5212 | 11100.4 | 12940.8 | 1840.4 |
| 6 | 1:00 | 54.75 | 44.11 | 48.25 | 50.82 | 2.6014 | 51.37 | 3.1199 | -0.5185 | 11054.1 | 12924.1 | 1870.0 |
| 6 | 2:00 | 54.67 | 44.10 | 48.22 | 50.82 | 2.5823 | 51.35 | 3.1199 | -0.5376 | 11037.4 | 12892.1 | 1854.6 |
| 6 | 3:00 | 54.56 | 44.09 | 48.19 | 50.79 | 2.5623 | 51.34 | 3.1199 | -0.5308 | 10958.8 | 12891.6 | 1932.7 |
| 6 | 4:00 | 54.50 | 44.08 | 48.18 | 50.76 | 2.5478 | 51.29 | 3.1099 | -0.5276 | 10898.4 | 12874.8 | 1976.4 |
| 6 | 5:00 | 54.42 | 44.08 | 48.16 | 50.72 | 2.5443 | 51.29 | 3.1099 | -0.5334 | 10850.0 | 12857.6 | 2007.5 |
| 6 | 6:00 | 54.35 | 44.09 | 48.15 | 50.70 | 2.5582 | 51.26 | 3.1099 | -0.5456 | 10723.3 | 12857.2 | 2076.5 |
| 6 | 7:00 | 54.29 | 44.07 | 48.14 | 50.69 | 2.5582 | 51.25 | 3.0899 | -0.5437 | 10648.4 | 12808.0 | 2159.5 |
| 6 | 8:00 | 54.23 | 44.06 | 48.14 | 50.69 | 2.5605 | 51.25 | 3.0799 | -0.5319 | 10558.8 | 12821.1 | 2262.2 |
| 6 | 9:00 | 54.15 | 44.04 | 48.14 | 50.70 | 2.5605 | 51.21 | 3.0599 | -0.5212 | 10469.1 | 12836.0 | 2366.9 |
| 6 | 10:00 | 54.07 | 44.03 | 48.14 | 50.70 | 2.5608 | 51.17 | 3.0399 | -0.4994 | 10347.3 | 12864.4 | 2517.1 |
| 6 | 12:00 | 53.94 | 43.99 | 48.20 | 50.53 | 2.5804 | 51.17 | 3.0399 | -0.6791 | 10242.7 | 12877.8 | 2635.0 |
| 6 | 13:00 | 53.91 | 43.93 | 48.21 | 50.45 | 2.5578 | 51.15 | 3.0399 | -0.6295 | 10392.4 | 12292.7 | 1900.3 |
| 6 | 14:00 | 53.81 | 43.87 | 48.22 | 50.34 | 2.1901 | 51.07 | 3.0699 | -0.6921 | 9488.8 | 12059.4 | 2570.6 |
| 6 | 15:00 | 53.84 | 43.82 | 48.24 | 50.38 | 2.1225 | 51.01 | 3.0799 | -0.6798 | 9526.7 | 11832.4 | 2305.6 |
| 6 | 16:00 | 53.82 | 43.76 | 48.21 | 50.36 | 2.1595 | 50.90 | 3.0399 | -0.6776 | 9563.7 | 11600.2 | 2036.5 |
| 6 | 17:00 | 53.72 | 43.70 | 48.21 | 50.35 | 2.1907 | 50.87 | 2.6900 | -0.5329 | 9487.9 | 11701.2 | 2233.3 |
| 6 | 18:00 | 53.62 | 43.65 | 48.21 | 50.28 | 2.0124 | 50.84 | 2.6099 | -0.5132 | 9358.5 | 11736.5 | 2277.3 |
| 6 | 19:00 | 53.54 | 43.58 | 48.31 | 50.34 | 2.0319 | 50.84 | 2.5000 | -0.5575 | 9350.3 | 11545.3 | 2194.9 |
| 6 | 20:00 | 53.45 | 43.51 | 48.28 | 50.29 | 2.0103 | 50.78 | 2.5000 | -0.6680 | 9097.0 | 11283.0 | 1976.9 |
| 6 | 21:00 | 53.40 | 43.45 | 48.26 | 50.28 | 2.0243 | 50.71 | 2.4599 | -0.4896 | 8177.1 | 11561.1 | 2313.9 |
| 6 | 22:00 | 53.35 | 43.39 | 48.24 | 50.28 | 2.0418 | 50.71 | 2.4599 | -0.4356 | 8122.0 | 11561.1 | 2379.0 |
| 6 | 23:00 | 53.32 | 43.32 | 48.19 | 50.24 | 2.0563 | 50.66 | 2.4299 | -0.3881 | 8073.1 | 11558.2 | 2376.9 |
| 7 | 1:00 | 53.28 | 43.20 | 48.09 | 50.20 | 2.0668 | 50.56 | 2.4199 | -0.3636 | 8067.4 | 11576.2 | 2508.6 |
| 7 | 2:00 | 53.20 | 43.15 | 48.05 | 50.14 | 2.0939 | 50.50 | 2.4099 | -0.4351 | 8065.9 | 11582.3 | 2508.6 |
| 7 | 3:00 | 53.15 | 43.09 | 48.00 | 50.10 | 2.1061 | 50.45 | 2.3919 | -0.3285 | 8059.0 | 11600.0 | 2574.0 |
| 7 | 4:00 | 53.10 | 43.04 | 47.95 | 50.06 | 2.1182 | 50.40 | 2.3999 | -0.2938 | 8024.7 | 11624.0 | 3795.0 |
| 7 | 5:00 | 53.07 | 42.98 | 47.91 | 50.04 | 2.1131 | 50.34 | 2.3799 | -0.2717 | 8025.0 | 11630.3 | 3605.0 |
| 7 | 6:00 | 53.03 | 42.93 | 47.86 | 50.00 | 2.1441 | 50.29 | 2.3799 | -0.2486 | 8025.0 | 11648.2 | 3640.2 |
| 7 | 7:00 | 52.98 | 42.82 | 47.81 | 49.98 | 2.1725 | 50.23 | 2.3699 | -0.2258 | 8003.6 | 11654.3 | 3650.7 |
| 7 | 8:00 | 52.98 | 42.82 | 47.81 | 49.98 | 2.1725 | 50.17 | 2.3699 | -0.1974 | 7979.9 | 11717.6 | 3737.6 |

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CANAL C-368

| DAY | TIME | HH80 | LTWED | HMED | COMP TIMEU | COMP DMH | OBS TIMEU | 0.85 DM | X DIFF | GUP | ODN | QL |
|------|-------|-------|-------|-------|------------|----------|-----------|---------|---------|--------|---------|--------|
| 7.1 | 8:00 | 52.95 | 43.72 | 47.77 | 49.74 | 1.9794 | 50.12 | 2.359 | -0.3805 | 7362.4 | 11093.3 | 3720.9 |
| 7.2 | 8:00 | 52.87 | 44.62 | 47.55 | 49.63 | 1.9803 | 49.94 | 2.0499 | -0.0616 | 6753.3 | 10729.7 | 4324.3 |
| 7.3 | 10:00 | 52.84 | 44.52 | 47.6 | 49.67 | 1.9796 | 49.84 | 2.0799 | -0.1601 | 6895.3 | 10976.9 | 4031.5 |
| 7.4 | 11:00 | 52.92 | 44.41 | 47.70 | 49.64 | 1.9762 | 49.78 | 2.0599 | -0.1337 | 6890.0 | 10971.0 | 4011.8 |
| 7.5 | 12:00 | 52.79 | 44.32 | 47.63 | 49.66 | 1.9704 | 49.70 | 2.0599 | -0.0895 | 6904.9 | 11016.6 | 4172.8 |
| 7.6 | 13:00 | 52.76 | 44.22 | 47.53 | 49.58 | 1.9762 | 49.66 | 2.0639 | -0.0117 | 6907.6 | 11026.6 | 4195.0 |
| 7.7 | 13:00 | 52.74 | 44.12 | 47.53 | 49.58 | 1.9762 | 49.59 | 2.0600 | -0.4504 | 6732.1 | 12900.6 | 6367.7 |
| 7.8 | 13:00 | 52.71 | 44.02 | 47.53 | 49.54 | 1.9762 | 49.59 | 2.0600 | -0.1500 | 7124.4 | 10416.0 | 3871.2 |
| 7.9 | 15:00 | 52.70 | 44.15 | 47.53 | 49.53 | 1.9659 | 49.53 | 1.9599 | -0.1303 | 6857.5 | 10778.3 | 3912.6 |
| 7.10 | 15:00 | 52.68 | 44.05 | 47.53 | 49.52 | 1.9659 | 49.53 | 1.9599 | -0.2956 | 6927.8 | 8815.5 | 2064.7 |
| 7.11 | 18:00 | 52.62 | 44.39 | 47.73 | 49.10 | 1.9899 | 49.41 | 1.9899 | -0.2365 | 6727.5 | 8912.5 | 2184.5 |
| 7.12 | 19:00 | 52.95 | 44.31 | 47.76 | 49.16 | 1.9794 | 49.37 | 1.9799 | -0.1465 | 6469.1 | 8997.8 | 2318.6 |
| 7.13 | 20:00 | 52.87 | 44.23 | 47.79 | 49.20 | 1.9794 | 49.37 | 1.9799 | -0.2837 | 6320.8 | 8356.7 | 2035.8 |
| 7.14 | 21:00 | 52.84 | 44.13 | 47.82 | 49.24 | 1.9794 | 49.34 | 1.9799 | -0.2620 | 6300.3 | 8401.0 | 2100.7 |
| 7.15 | 22:00 | 52.83 | 40.88 | 47.81 | 49.06 | 1.9794 | 49.31 | 1.9799 | -0.2419 | 6291.6 | 8439.6 | 2147.9 |
| 7.16 | 23:00 | 52.81 | 40.81 | 47.80 | 49.06 | 1.9794 | 49.31 | 1.9799 | -0.2419 | 6291.6 | 8439.6 | 2147.9 |
| 7.17 | 24:00 | 52.80 | 40.74 | 47.79 | 49.06 | 1.9794 | 49.29 | 1.9799 | -0.2216 | 6272.6 | 8478.4 | 2205.8 |
| 8.1 | 1:00 | 52.88 | 40.66 | 47.78 | 49.26 | 1.9794 | 49.26 | 1.9799 | -0.2012 | 6263.6 | 8516.1 | 2252.4 |
| 8.2 | 2:00 | 52.88 | 40.59 | 47.77 | 49.06 | 1.9794 | 49.25 | 1.9799 | -0.1807 | 6254.0 | 8554.5 | 2300.5 |
| 8.3 | 3:00 | 52.85 | 40.51 | 47.77 | 49.07 | 1.9794 | 49.23 | 1.9799 | -0.1603 | 6226.5 | 8604.0 | 2377.5 |
| 8.4 | 4:00 | 52.85 | 40.43 | 47.76 | 49.07 | 1.9794 | 49.23 | 1.9799 | -0.1400 | 6216.5 | 8654.0 | 2424.4 |
| 8.5 | 5:00 | 52.84 | 40.36 | 47.75 | 49.08 | 1.9794 | 49.20 | 1.9799 | -0.1197 | 6207.0 | 8678.7 | 2471.7 |
| 8.6 | 6:00 | 52.81 | 40.28 | 47.74 | 49.08 | 1.9794 | 49.17 | 1.9799 | -0.0993 | 6188.0 | 8715.8 | 2527.7 |
| 8.7 | 7:00 | 52.81 | 40.16 | 47.73 | 49.09 | 1.9794 | 49.16 | 1.9799 | -0.0695 | 6169.9 | 8703.4 | 2623.5 |
| 8.8 | 8:00 | 52.80 | 40.09 | 47.73 | 49.08 | 1.9794 | 49.15 | 1.9799 | -0.0542 | 5871.6 | 8821.5 | 2949.9 |
| 8.9 | 9:00 | 52.87 | 40.05 | 47.70 | 49.06 | 1.9794 | 49.12 | 1.9799 | -0.0559 | 5872.8 | 8849.4 | 2956.6 |
| 8.10 | 10:00 | 52.87 | 40.01 | 47.67 | 49.04 | 1.9794 | 49.09 | 1.9799 | -0.0489 | 5884.2 | 8832.6 | 2948.3 |
| 8.11 | 11:00 | 52.85 | 39.97 | 47.64 | 49.04 | 1.9794 | 49.09 | 1.9799 | -0.0408 | 5895.1 | 8837.4 | 2942.2 |
| 8.12 | 12:00 | 52.84 | 39.94 | 47.63 | 48.99 | 1.9794 | 49.03 | 1.9799 | -0.0331 | 5905.9 | 8842.1 | 2936.2 |
| 8.13 | 13:00 | 52.84 | 39.90 | 47.61 | 48.95 | 1.9794 | 49.00 | 1.9799 | -0.0417 | 5848.9 | 8846.8 | 3361.9 |
| 8.14 | 14:00 | 52.84 | 39.87 | 47.58 | 48.95 | 1.9794 | 48.93 | 1.9799 | -0.0251 | 5502.9 | 8845.8 | 3342.8 |
| 8.15 | 15:00 | 52.84 | 39.83 | 47.55 | 48.91 | 1.9794 | 48.92 | 1.9799 | -0.0168 | 5521.2 | 8860.4 | 3328.8 |
| 8.16 | 16:00 | 52.84 | 39.79 | 47.50 | 48.90 | 1.9794 | 48.90 | 1.9799 | 0.0004 | 5531.2 | 8860.4 | 3329.9 |
| 8.17 | 17:00 | 52.84 | 39.77 | 47.47 | 48.87 | 1.9794 | 48.87 | 1.9799 | 0.0078 | 5548.9 | 8859.9 | 3310.9 |
| 8.18 | 18:00 | 52.84 | 39.73 | 47.45 | 48.86 | 1.9794 | 48.84 | 1.9799 | 0.0246 | 5559.7 | 8870.3 | 3310.5 |
| 8.19 | 19:00 | 52.84 | 39.69 | 47.43 | 48.85 | 1.9794 | 48.81 | 1.9799 | 0.0420 | 5569.6 | 8880.7 | 3311.0 |
| 8.20 | 20:00 | 52.84 | 39.66 | 47.41 | 48.83 | 1.9794 | 48.78 | 1.9799 | 0.0581 | 5580.7 | 8885.4 | 3304.6 |
| 8.21 | 21:00 | 52.84 | 39.62 | 47.39 | 48.84 | 1.9794 | 48.75 | 1.9799 | 0.0788 | 5618.4 | 8897.2 | 3288.0 |
| 8.22 | 22:00 | 52.84 | 39.56 | 47.36 | 48.83 | 1.9794 | 48.75 | 1.9799 | 0.0808 | 5630.8 | 8916.2 | 2733.0 |
| 8.23 | 23:00 | 52.81 | 39.55 | 47.34 | 48.81 | 1.9794 | 48.75 | 1.9799 | 0.0538 | 6180.8 | 8909.1 | 2728.2 |
| 8.24 | 00:00 | 52.89 | 39.52 | 47.32 | 48.79 | 1.9794 | 48.75 | 1.9799 | 0.0351 | 6179.1 | 8897.3 | 2718.2 |
| 8.25 | 01:00 | 52.86 | 39.54 | 47.30 | 48.77 | 1.9794 | 48.76 | 1.9799 | 0.0084 | 6176.4 | 8891.2 | 2714.8 |
| 8.26 | 02:00 | 52.86 | 39.54 | 47.30 | 48.77 | 1.9794 | 48.76 | 1.9799 | -0.0096 | 6174.7 | 8879.9 | 2705.8 |
| 8.27 | 03:00 | 52.83 | 39.54 | 47.25 | 48.76 | 1.9794 | 48.76 | 1.9799 | -0.0370 | 6181.3 | 8862.8 | 2681.5 |
| 8.28 | 04:00 | 52.80 | 39.53 | 47.23 | 48.75 | 1.9794 | 48.76 | 1.9799 | -0.0635 | 6176.9 | 8857.2 | 2678.8 |
| 8.29 | 05:00 | 52.79 | 39.53 | 47.21 | 48.71 | 1.9794 | 48.78 | 1.9799 | -0.0815 | 6173.6 | 8845.3 | 2668.0 |
| 8.30 | 06:00 | 52.76 | 39.52 | 47.19 | 48.68 | 1.9794 | 48.79 | 1.9799 | -0.1081 | 6173.6 | 8839.6 | 2666.0 |
| 8.31 | 7:00 | 52.76 | 39.52 | 47.17 | 48.65 | 1.9794 | 48.79 | 1.9799 | -0.1480 | 5888.7 | 8828.2 | 2939.4 |

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CANAL C-38CP 7.1 10.0 15.0 20.0 25.0 30.0 35.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0

| DAY | TIME | HWED | LITRED | HWED | COMP TIME | COMP DIST | CURS TIME | CURS DIST | GAS DIST | GAS DIST | GAS DIST | DIFF | QUP | QDN | QL |
|-----|-------|-------|--------|-------|-----------|-----------|-----------|-----------|----------|----------|----------|--------|-----|-----|----|
| 9 | 8:00 | 52.17 | 39.52 | 47.15 | 48.63 | 1.4851 | 48.75 | 1.6059 | -0.1248 | 5919.2 | 8815.8 | 2896.6 | | | |
| 9 | 8:05 | 52.20 | 39.55 | 47.18 | 48.61 | 1.4894 | 48.73 | 1.5959 | -0.1105 | 5956.4 | 8809.4 | 2853.2 | | | |
| 9 | 10:00 | 52.25 | 39.51 | 47.12 | 48.61 | 1.4914 | 48.73 | 1.5799 | -0.1085 | 5980.1 | 8803.4 | 2823.3 | | | |
| 9 | 11:00 | 52.25 | 39.52 | 47.10 | 48.59 | 1.4977 | 48.66 | 1.5599 | -0.0622 | 6015.5 | 8802.3 | 2786.7 | | | |
| 9 | 12:00 | 52.25 | 39.52 | 47.09 | 48.58 | 1.4973 | 48.62 | 1.5399 | -0.0426 | 6048.9 | 8784.6 | 2735.7 | | | |
| 9 | 13:00 | 52.32 | 39.55 | 47.08 | 48.50 | 1.7278 | 48.59 | 1.5199 | 0.2078 | 6345.9 | 8928.3 | 3282.3 | | | |
| 9 | 14:00 | 52.31 | 39.63 | 46.89 | 48.63 | 1.7402 | 48.62 | 1.7299 | 0.1002 | 6495.6 | 9455.0 | 2959.3 | | | |
| 9 | 15:00 | 52.31 | 39.61 | 46.84 | 48.61 | 1.7462 | 48.65 | 1.7800 | -0.0337 | 6508.1 | 9453.8 | 2945.7 | | | |
| 9 | 16:00 | 52.29 | 39.60 | 46.84 | 48.59 | 1.7510 | 48.66 | 1.8259 | -0.0789 | 6521.5 | 9439.7 | 2918.2 | | | |
| 9 | 17:00 | 52.29 | 39.58 | 46.83 | 48.57 | 1.7488 | 48.70 | 1.8659 | -0.1211 | 6375.4 | 9444.8 | 3029.4 | | | |
| 9 | 18:00 | 52.29 | 39.57 | 46.79 | 48.54 | 1.7557 | 48.69 | 1.8959 | -0.1442 | 6395.8 | 9424.6 | 3082.8 | | | |
| 9 | 19:00 | 52.29 | 39.57 | 46.78 | 48.52 | 1.7615 | 48.67 | 1.9199 | -0.1584 | 6415.8 | 9411.1 | 2995.2 | | | |
| 9 | 20:00 | 52.29 | 39.56 | 46.73 | 48.49 | 1.7669 | 48.66 | 1.9399 | -0.1730 | 6437.0 | 9397.6 | 2960.5 | | | |
| 9 | 21:00 | 52.29 | 39.55 | 46.70 | 48.47 | 1.7731 | 48.64 | 1.9599 | -0.1868 | 6456.3 | 9384.6 | 2928.3 | | | |
| 9 | 22:00 | 52.28 | 39.54 | 46.68 | 48.45 | 1.7774 | 48.65 | 1.9700 | -0.1995 | 6461.7 | 9377.5 | 2915.7 | | | |
| 9 | 23:00 | 52.28 | 39.52 | 46.65 | 48.21 | 1.5695 | 48.63 | 1.9899 | -0.4204 | 6658.5 | 8526.7 | 1888.2 | | | |
| 10 | 1:00 | 52.28 | 39.41 | 46.64 | 48.24 | 1.5843 | 48.62 | 1.9699 | -0.3788 | 6637.9 | 8567.7 | 1959.8 | | | |
| 10 | 2:00 | 52.28 | 39.42 | 46.67 | 48.25 | 1.5811 | 48.62 | 1.9599 | -0.3622 | 6632.1 | 8596.9 | 1964.8 | | | |
| 10 | 3:00 | 52.28 | 39.44 | 46.69 | 48.25 | 1.5777 | 48.62 | 1.9399 | -0.3454 | 6613.6 | 8595.7 | 1968.1 | | | |
| 10 | 4:00 | 52.28 | 39.46 | 46.68 | 48.26 | 1.5745 | 48.60 | 1.9199 | -0.3295 | 6608.9 | 8589.9 | 1980.6 | | | |
| 10 | 5:00 | 52.26 | 39.44 | 46.71 | 48.27 | 1.5704 | 48.59 | 1.8999 | -0.3128 | 6602.9 | 8588.7 | 1991.0 | | | |
| 10 | 6:00 | 52.26 | 39.48 | 46.72 | 48.28 | 1.5671 | 48.59 | 1.8799 | -0.2955 | 6597.3 | 8588.4 | 1996.9 | | | |
| 10 | 7:00 | 52.25 | 39.50 | 46.73 | 48.28 | 1.5644 | 48.57 | 1.8399 | -0.2806 | 6584.8 | 8581.7 | 1986.9 | | | |
| 10 | 8:00 | 52.25 | 39.51 | 46.75 | 48.30 | 1.5593 | 48.57 | 1.8099 | -0.2658 | 6571.7 | 8567.0 | 2015.2 | | | |
| 10 | 9:00 | 52.25 | 39.53 | 46.78 | 48.40 | 1.5551 | 48.56 | 1.7800 | -0.2548 | 6571.7 | 8567.0 | 2015.2 | | | |
| 10 | 10:00 | 52.25 | 39.62 | 46.73 | 48.35 | 1.6218 | 48.54 | 1.8199 | -0.1516 | 6485.7 | 8916.7 | 2430.9 | | | |
| 10 | 11:00 | 52.25 | 39.61 | 46.68 | 48.31 | 1.6305 | 48.54 | 1.8599 | -0.1981 | 6533.5 | 8829.5 | 2295.9 | | | |
| 10 | 12:00 | 52.25 | 39.60 | 46.63 | 48.26 | 1.6376 | 48.53 | 1.8999 | -0.2284 | 6567.2 | 8805.8 | 2238.6 | | | |
| 10 | 13:00 | 52.25 | 39.60 | 46.64 | 48.26 | 1.6376 | 48.53 | 1.8999 | -0.2284 | 6567.2 | 8805.8 | 2238.6 | | | |
| 10 | 14:00 | 52.25 | 39.60 | 46.59 | 48.26 | 1.6702 | 48.50 | 1.9299 | -0.2597 | 6601.1 | 8856.5 | 2295.3 | | | |
| 10 | 15:00 | 52.25 | 39.60 | 46.59 | 48.23 | 1.6792 | 48.50 | 1.9499 | -0.2749 | 6622.1 | 8856.5 | 2217.8 | | | |
| 10 | 16:00 | 52.25 | 39.60 | 46.53 | 48.20 | 1.6792 | 48.50 | 1.9700 | -0.2907 | 6643.4 | 8913.9 | 2178.5 | | | |
| 10 | 17:00 | 52.25 | 39.60 | 46.50 | 48.17 | 1.6765 | 48.50 | 1.9999 | -0.3234 | 6506.5 | 8799.9 | 2293.4 | | | |
| 10 | 18:00 | 52.29 | 39.58 | 46.48 | 48.08 | 1.6020 | 48.46 | 1.9899 | -0.3879 | 6574.8 | 8469.2 | 1916.5 | | | |
| 10 | 19:00 | 52.23 | 39.56 | 46.47 | 48.07 | 1.6061 | 48.45 | 1.9799 | -0.3738 | 6569.3 | 8452.2 | 1925.9 | | | |
| 10 | 20:00 | 52.21 | 39.54 | 46.46 | 48.07 | 1.6111 | 48.44 | 1.9599 | -0.3488 | 6574.0 | 8501.3 | 1927.2 | | | |
| 10 | 21:00 | 52.21 | 39.50 | 46.45 | 48.06 | 1.6113 | 48.40 | 1.9399 | -0.3262 | 6563.3 | 8513.4 | 1921.0 | | | |
| 10 | 22:00 | 52.20 | 39.48 | 46.45 | 48.07 | 1.6184 | 48.37 | 1.9199 | -0.3015 | 6561.9 | 8513.4 | 1921.0 | | | |
| 10 | 23:00 | 52.20 | 39.46 | 46.44 | 48.06 | 1.6212 | 48.34 | 1.8999 | -0.2787 | 6551.4 | 8513.4 | 1921.0 | | | |
| 10 | 24:00 | 52.20 | 39.46 | 46.44 | 48.05 | 1.6261 | 48.32 | 1.8799 | -0.2548 | 6546.6 | 8513.4 | 1921.0 | | | |
| 10 | 25:00 | 52.20 | 39.45 | 46.43 | 48.05 | 1.6315 | 48.29 | 1.8599 | -0.2318 | 6535.7 | 8513.4 | 1921.0 | | | |
| 10 | 26:00 | 52.20 | 39.43 | 46.43 | 48.06 | 1.6315 | 48.28 | 1.8399 | -0.2084 | 6551.7 | 8567.7 | 1991.8 | | | |
| 11 | 1:00 | 52.19 | 39.41 | 46.43 | 48.05 | 1.6315 | 48.26 | 1.8199 | -0.1941 | 6551.9 | 8551.9 | 2001.7 | | | |
| 11 | 2:00 | 52.19 | 39.41 | 46.43 | 48.05 | 1.6315 | 48.21 | 1.7999 | -0.1878 | 6571.3 | 8551.9 | 2001.7 | | | |
| 11 | 3:00 | 52.17 | 39.39 | 46.42 | 48.03 | 1.6121 | 48.21 | 1.7800 | -0.1735 | 6569.7 | 8563.7 | 1890.3 | | | |
| 11 | 4:00 | 52.17 | 39.37 | 46.42 | 48.02 | 1.6121 | 48.20 | 1.7600 | -0.1598 | 6569.7 | 8499.9 | 1899.4 | | | |
| 11 | 5:00 | 52.17 | 39.35 | 46.40 | 48.00 | 1.6121 | 48.17 | 1.7399 | -0.1478 | 6094.8 | 8475.6 | 2380.4 | | | |
| 11 | 6:00 | 52.17 | 39.34 | 46.40 | 47.99 | 1.6932 | 48.16 | 1.7199 | -0.3067 | 6199.7 | 7903.6 | 1703.8 | | | |
| 11 | 7:00 | 52.19 | 39.25 | 46.40 | 47.85 | 1.4337 | 48.15 | 1.7500 | -0.2962 | 6207.2 | 7402.8 | 1693.6 | | | |

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CANAL C-38CP

| DAY | TIME | HWMO | JTIME | HWED | COMP TIMEU | COMP DN | UBS TIMEU | 065 DH | X | BIFF | QUP | QDN | OL |
|-----|-------|-------|-------|-------|------------|---------|-----------|--------|---------|--------|--------|--------|----|
| 11 | 8:00 | 52.19 | 39.25 | 46.40 | 47.85 | 1.4536 | 48.13 | 1.7399 | -0.2863 | 6207.3 | 7902.5 | 1695.2 | |
| 11 | 9:00 | 52.20 | 39.25 | 46.40 | 47.85 | 1.4539 | 48.14 | 1.7200 | -0.2660 | 6214.4 | 7902.5 | 1689.4 | |
| 11 | 10:00 | 52.20 | 39.26 | 46.40 | 47.85 | 1.4524 | 48.16 | 1.7099 | -0.2575 | 6214.9 | 7897.4 | 1682.4 | |
| 11 | 11:00 | 52.20 | 39.26 | 46.40 | 47.85 | 1.4528 | 48.09 | 1.6999 | -0.2471 | 6221.9 | 7898.1 | 1675.8 | |
| 11 | 12:00 | 52.20 | 39.25 | 46.40 | 47.85 | 1.4531 | 48.09 | 1.6899 | -0.2368 | 6221.8 | 7898.1 | 1670.3 | |
| 11 | 13:00 | 52.20 | 39.25 | 46.40 | 47.85 | 1.4529 | 48.07 | 1.6699 | -0.2170 | 6221.7 | 7904.0 | 1676.4 | |
| 11 | 14:00 | 52.21 | 39.25 | 46.41 | 47.86 | 1.4520 | 48.06 | 1.6499 | -0.1979 | 6222.7 | 7898.1 | 1681.2 | |
| 11 | 15:00 | 52.23 | 39.26 | 46.41 | 47.86 | 1.4510 | 48.04 | 1.6399 | -0.1892 | 6230.6 | 7899.2 | 1669.0 | |
| 11 | 16:00 | 52.23 | 39.26 | 46.41 | 47.86 | 1.4513 | 48.01 | 1.6199 | -0.1689 | 6231.2 | 7899.2 | 1665.2 | |
| 11 | 17:00 | 52.23 | 39.26 | 46.41 | 47.86 | 1.4515 | 48.00 | 1.5999 | -0.1484 | 6237.1 | 7899.6 | 1665.0 | |
| 11 | 18:00 | 52.23 | 39.26 | 46.41 | 47.86 | 1.4447 | 48.00 | 1.5899 | -0.1452 | 6079.7 | 7900.0 | 1820.2 | |
| 11 | 19:00 | 52.25 | 39.26 | 46.41 | 47.85 | 1.4420 | 47.98 | 1.5699 | -0.1279 | 6074.5 | 7900.0 | 1825.5 | |
| 11 | 20:00 | 52.25 | 39.27 | 46.42 | 47.86 | 1.4420 | 47.98 | 1.5599 | -0.1363 | 6081.4 | 7894.9 | 1807.5 | |
| 11 | 21:00 | 52.25 | 39.27 | 46.41 | 47.85 | 1.4436 | 47.98 | 1.5799 | -0.1445 | 6100.0 | 7899.0 | 1817.7 | |
| 11 | 22:00 | 52.26 | 39.27 | 46.41 | 47.84 | 1.4454 | 47.98 | 1.5899 | -0.1969 | 6142.3 | 7651.2 | 1531.7 | |
| 11 | 23:00 | 52.28 | 39.28 | 46.40 | 47.79 | 1.3930 | 47.98 | 1.5899 | -0.1983 | 6143.4 | 7651.2 | 1531.7 | |
| 12 | 1:00 | 52.29 | 39.28 | 46.40 | 47.80 | 1.3916 | 47.98 | 1.5799 | -0.1896 | 6144.3 | 7680.2 | 1536.1 | |
| 12 | 2:00 | 52.29 | 39.28 | 46.41 | 47.80 | 1.3894 | 47.98 | 1.5699 | -0.1805 | 6144.9 | 7686.2 | 1541.2 | |
| 12 | 3:00 | 52.34 | 39.27 | 46.42 | 47.81 | 1.3901 | 47.98 | 1.5699 | -0.1798 | 6151.5 | 7686.2 | 1535.0 | |
| 12 | 4:00 | 52.31 | 39.28 | 46.42 | 47.81 | 1.3875 | 47.98 | 1.5599 | -0.1724 | 6145.9 | 7686.9 | 1549.0 | |
| 12 | 5:00 | 52.32 | 39.28 | 46.43 | 47.82 | 1.3860 | 47.98 | 1.5499 | -0.1639 | 6147.0 | 7692.2 | 1545.2 | |
| 12 | 6:00 | 52.32 | 39.28 | 46.44 | 47.83 | 1.3852 | 47.98 | 1.5299 | -0.1447 | 6147.7 | 7697.9 | 1550.1 | |
| 12 | 7:00 | 52.34 | 39.28 | 46.44 | 47.82 | 1.3871 | 47.98 | 1.5399 | -0.1528 | 6160.4 | 7692.9 | 1532.5 | |
| 12 | 8:00 | 52.34 | 39.28 | 46.44 | 47.82 | 1.3867 | 47.98 | 1.5399 | -0.1532 | 6160.1 | 7693.0 | 1532.8 | |
| 12 | 9:00 | 52.34 | 39.29 | 46.44 | 47.82 | 1.3859 | 47.98 | 1.5399 | -0.1540 | 6157.7 | 7686.9 | 1519.1 | |
| 12 | 10:00 | 52.35 | 39.29 | 46.44 | 47.82 | 1.3859 | 47.98 | 1.5399 | -0.1540 | 6174.4 | 7686.2 | 1508.6 | |
| 12 | 11:00 | 52.37 | 39.30 | 46.44 | 47.82 | 1.3859 | 47.98 | 1.5399 | -0.1540 | 6181.2 | 7685.2 | 1508.6 | |
| 12 | 12:00 | 52.37 | 39.30 | 46.44 | 47.82 | 1.3859 | 47.98 | 1.5399 | -0.1540 | 6181.2 | 7685.2 | 1508.6 | |
| 12 | 13:00 | 52.37 | 39.31 | 46.44 | 47.82 | 1.3849 | 47.98 | 1.5399 | -0.1550 | 6190.2 | 7680.2 | 1491.2 | |
| 12 | 14:00 | 52.38 | 39.31 | 46.44 | 47.82 | 1.3850 | 47.98 | 1.5399 | -0.1549 | 6195.7 | 7679.5 | 1489.3 | |
| 12 | 15:00 | 52.40 | 39.31 | 46.44 | 47.82 | 1.3852 | 47.98 | 1.5399 | -0.1547 | 6202.2 | 7679.5 | 1476.9 | |
| 12 | 16:00 | 52.38 | 39.31 | 46.44 | 47.82 | 1.3846 | 47.96 | 1.5299 | -0.1547 | 6195.4 | 7678.4 | 1476.9 | |
| 12 | 17:00 | 52.38 | 39.52 | 46.44 | 47.79 | 1.3863 | 47.96 | 1.5289 | -0.1453 | 6215.0 | 7693.9 | 1350.6 | |
| 12 | 18:00 | 52.38 | 39.52 | 46.44 | 47.79 | 1.3854 | 47.96 | 1.5289 | -0.1735 | 6215.0 | 7693.9 | 1350.6 | |
| 12 | 19:00 | 52.38 | 39.52 | 46.44 | 47.79 | 1.3861 | 47.96 | 1.5289 | -0.1735 | 6215.7 | 7694.9 | 1344.9 | |
| 12 | 20:00 | 52.38 | 39.52 | 46.44 | 47.79 | 1.3861 | 47.96 | 1.5289 | -0.1735 | 6215.7 | 7694.9 | 1344.9 | |
| 12 | 21:00 | 52.38 | 39.52 | 46.43 | 47.78 | 1.3852 | 47.95 | 1.5289 | -0.1838 | 6221.8 | 7593.5 | 1331.7 | |
| 12 | 22:00 | 52.38 | 39.54 | 46.43 | 47.78 | 1.3852 | 47.95 | 1.5289 | -0.1747 | 6222.7 | 7548.1 | 1321.4 | |
| 12 | 23:00 | 52.38 | 39.54 | 46.43 | 47.78 | 1.3846 | 47.95 | 1.5289 | -0.1753 | 6226.2 | 7548.1 | 1321.4 | |
| 13 | 1:00 | 52.38 | 39.55 | 46.43 | 47.78 | 1.3836 | 47.95 | 1.5289 | -0.1753 | 6226.2 | 7548.1 | 1321.4 | |
| 13 | 2:00 | 52.37 | 39.56 | 46.42 | 47.77 | 1.3847 | 47.95 | 1.5399 | -0.1852 | 6229.3 | 7537.8 | 1319.9 | |
| 13 | 3:00 | 52.37 | 39.56 | 46.42 | 47.77 | 1.3830 | 47.95 | 1.5399 | -0.1869 | 6234.2 | 7532.3 | 1309.1 | |
| 13 | 4:00 | 52.37 | 39.56 | 46.42 | 47.77 | 1.3834 | 47.95 | 1.5399 | -0.1865 | 6233.6 | 7532.3 | 1308.7 | |
| 13 | 5:00 | 52.37 | 39.57 | 46.41 | 47.76 | 1.3834 | 47.95 | 1.5499 | -0.1965 | 6230.0 | 7522.0 | 1291.4 | |
| 13 | 6:00 | 52.37 | 39.57 | 46.41 | 47.76 | 1.3832 | 47.95 | 1.5499 | -0.1867 | 6230.0 | 7522.0 | 1292.0 | |
| 13 | 7:00 | 52.37 | 39.58 | 46.41 | 47.76 | 1.3821 | 47.95 | 1.5399 | -0.1878 | 6231.0 | 7516.6 | 1285.5 | |
| 13 | 8:00 | 52.37 | 39.58 | 46.41 | 47.76 | 1.3821 | 47.95 | 1.5399 | -0.1878 | 6230.9 | 7516.6 | 1285.5 | |

CANAL C-38CB

| DAY | TIME | HWEU | TWED | HWEH | COMP TIMEU | CUMP DH | GRS TIMEW | OHS DH | DIFF | QUP | QDN | QL |
|-----|-------|-------|-------|-------|------------|---------|-----------|--------|---------|--------|--------|--------|
| 13 | 8.00 | 52.37 | 39.35 | 46.41 | 47.74 | 1.3300 | 47.95 | 1.5399 | -0.2049 | 6246.0 | 7428.6 | 1182.6 |
| 13 | 9.00 | 52.37 | 39.37 | 46.42 | 47.74 | 1.3258 | 47.95 | 1.5239 | -0.2041 | 6241.4 | 7422.8 | 1181.4 |
| 13 | 10.00 | 52.37 | 39.39 | 46.44 | 47.76 | 1.3205 | 47.95 | 1.5039 | -0.1894 | 6231.7 | 7422.2 | 1180.4 |
| 13 | 11.00 | 52.37 | 39.42 | 46.46 | 47.78 | 1.3226 | 47.95 | 1.4859 | -0.1673 | 6390.6 | 7422.0 | 1031.4 |
| 13 | 12.00 | 52.37 | 39.44 | 46.48 | 47.79 | 1.3162 | 47.94 | 1.4599 | -0.1437 | 6373.4 | 7421.4 | 1048.0 |
| 13 | 13.00 | 52.37 | 39.46 | 46.50 | 47.88 | 1.3089 | 47.94 | 1.4399 | -0.0510 | 6309.6 | 7424.6 | 1424.6 |
| 13 | 14.00 | 52.37 | 39.48 | 46.54 | 47.87 | 1.3073 | 47.94 | 1.4499 | -0.0626 | 6317.6 | 7718.5 | 1400.8 |
| 13 | 15.00 | 52.35 | 39.52 | 46.48 | 47.86 | 1.3017 | 47.92 | 1.4499 | -0.0759 | 6328.8 | 7683.7 | 1357.6 |
| 13 | 16.00 | 52.35 | 39.52 | 46.47 | 47.85 | 1.3040 | 47.92 | 1.4599 | -0.0741 | 6326.7 | 7684.4 | 1357.6 |
| 13 | 17.00 | 52.35 | 39.52 | 46.46 | 47.84 | 1.3058 | 47.91 | 1.4599 | -0.0813 | 6332.8 | 7680.2 | 1347.8 |
| 13 | 18.00 | 52.35 | 39.51 | 46.45 | 47.83 | 1.3086 | 47.91 | 1.4699 | -0.0814 | 6337.9 | 7679.8 | 1341.8 |
| 13 | 19.00 | 52.35 | 39.51 | 46.45 | 47.83 | 1.3082 | 47.91 | 1.4699 | -0.0814 | 6337.9 | 7679.8 | 1341.8 |
| 13 | 20.00 | 52.34 | 39.51 | 46.45 | 47.83 | 1.3082 | 47.91 | 1.4599 | -0.0717 | 6330.5 | 7679.8 | 1349.3 |
| 13 | 21.00 | 52.34 | 39.50 | 46.45 | 47.83 | 1.3095 | 47.91 | 1.4599 | -0.0704 | 6329.8 | 7685.0 | 1359.1 |
| 13 | 22.00 | 52.34 | 39.50 | 46.45 | 47.83 | 1.3094 | 47.91 | 1.4599 | -0.0705 | 6330.1 | 7685.0 | 1359.1 |
| 13 | 23.00 | 52.34 | 39.50 | 46.44 | 47.83 | 1.3099 | 47.91 | 1.4599 | -0.0790 | 6326.3 | 7679.5 | 1343.1 |
| 13 | 24.00 | 52.34 | 39.49 | 46.44 | 47.83 | 1.3020 | 47.90 | 1.4599 | -0.0679 | 6338.0 | 7685.0 | 1356.9 |
| 14 | 1.00 | 52.34 | 39.49 | 46.44 | 47.83 | 1.3017 | 47.90 | 1.4599 | -0.0682 | 6328.6 | 7684.7 | 1356.0 |
| 14 | 2.00 | 52.34 | 39.49 | 46.44 | 47.83 | 1.3017 | 47.90 | 1.4599 | -0.0681 | 6328.2 | 7684.7 | 1356.0 |
| 14 | 3.00 | 52.34 | 39.48 | 46.44 | 47.83 | 1.3030 | 47.88 | 1.4599 | -0.0569 | 6327.3 | 7690.1 | 1362.8 |
| 14 | 4.00 | 52.32 | 39.48 | 46.43 | 47.82 | 1.3042 | 47.88 | 1.4499 | -0.0657 | 6326.5 | 7684.4 | 1358.1 |
| 14 | 5.00 | 52.32 | 39.48 | 46.43 | 47.82 | 1.3042 | 47.87 | 1.4499 | -0.0557 | 6326.5 | 7684.4 | 1357.8 |
| 14 | 6.00 | 52.32 | 39.47 | 46.43 | 47.82 | 1.3057 | 47.87 | 1.4499 | -0.0542 | 6325.8 | 7669.8 | 1364.0 |
| 14 | 7.00 | 52.32 | 39.47 | 46.43 | 47.82 | 1.3057 | 47.87 | 1.4499 | -0.0542 | 6325.7 | 7669.8 | 1364.0 |
| 14 | 8.00 | 52.32 | 39.44 | 46.43 | 47.75 | 1.3211 | 47.87 | 1.4499 | -0.1288 | 6377.7 | 7391.7 | 1013.7 |
| 14 | 9.00 | 52.32 | 39.44 | 46.43 | 47.75 | 1.3211 | 47.87 | 1.4499 | -0.1288 | 6370.5 | 7391.2 | 1020.6 |
| 14 | 10.00 | 52.32 | 39.44 | 46.44 | 47.75 | 1.3193 | 47.87 | 1.4499 | -0.1266 | 6364.9 | 7396.4 | 1031.5 |
| 14 | 11.00 | 52.31 | 39.43 | 46.44 | 47.76 | 1.3203 | 47.87 | 1.4399 | -0.1196 | 6356.9 | 7401.6 | 1046.6 |
| 14 | 12.00 | 52.31 | 39.43 | 46.45 | 47.76 | 1.3190 | 47.87 | 1.4299 | -0.1109 | 6351.1 | 7406.9 | 1055.8 |
| 14 | 13.00 | 52.31 | 39.43 | 46.45 | 47.76 | 1.3190 | 47.87 | 1.4299 | -0.1109 | 6351.0 | 7406.9 | 1055.8 |
| 14 | 14.00 | 52.29 | 39.43 | 46.45 | 47.77 | 1.3174 | 47.87 | 1.4199 | -0.1025 | 6338.0 | 7411.8 | 1073.4 |
| 14 | 15.00 | 52.29 | 39.43 | 46.46 | 47.77 | 1.3173 | 47.87 | 1.4199 | -0.1026 | 6338.3 | 7411.8 | 1073.4 |
| 14 | 16.00 | 52.29 | 39.43 | 46.46 | 47.77 | 1.3163 | 47.87 | 1.4099 | -0.0936 | 6332.3 | 7417.0 | 1084.6 |
| 14 | 17.00 | 52.29 | 39.43 | 46.47 | 47.78 | 1.3163 | 47.87 | 1.3999 | -0.0857 | 6319.2 | 7422.2 | 1102.9 |
| 14 | 18.00 | 52.29 | 39.43 | 46.48 | 47.78 | 1.3152 | 47.87 | 1.3999 | -0.0942 | 6325.6 | 7417.0 | 1099.1 |
| 14 | 19.00 | 52.28 | 39.43 | 46.47 | 47.78 | 1.3154 | 47.87 | 1.4099 | -0.0945 | 6318.8 | 7417.0 | 1099.1 |
| 14 | 20.00 | 52.28 | 39.43 | 46.47 | 47.78 | 1.3154 | 47.88 | 1.4099 | -0.1030 | 6316.1 | 7421.9 | 1103.9 |
| 14 | 21.00 | 52.28 | 39.43 | 46.47 | 47.78 | 1.3166 | 47.88 | 1.4199 | -0.1033 | 6316.9 | 7421.9 | 1103.9 |
| 14 | 22.00 | 52.26 | 39.43 | 46.47 | 47.78 | 1.3166 | 47.88 | 1.4199 | -0.1033 | 6316.9 | 7421.9 | 1103.9 |
| 14 | 23.00 | 52.26 | 39.43 | 46.47 | 47.78 | 1.3165 | 47.88 | 1.4199 | -0.1034 | 6311.3 | 7421.9 | 1110.9 |
| 14 | 24.00 | 52.26 | 39.43 | 46.47 | 47.78 | 1.3162 | 47.88 | 1.4199 | -0.1037 | 6311.3 | 7421.9 | 1110.9 |
| 15 | 1.00 | 52.25 | 39.43 | 46.47 | 47.78 | 1.3161 | 47.88 | 1.4199 | -0.1036 | 6304.2 | 7421.9 | 1111.7 |
| 15 | 2.00 | 52.25 | 39.43 | 46.47 | 47.78 | 1.3162 | 47.88 | 1.4199 | -0.1037 | 6304.2 | 7421.9 | 1111.7 |
| 15 | 3.00 | 52.25 | 39.43 | 46.47 | 47.78 | 1.3161 | 47.88 | 1.4199 | -0.1045 | 6297.2 | 7421.6 | 1124.1 |
| 15 | 4.00 | 52.25 | 39.43 | 46.47 | 47.78 | 1.3154 | 47.88 | 1.4199 | -0.1042 | 6297.7 | 7421.6 | 1123.8 |
| 15 | 5.00 | 52.25 | 39.43 | 46.47 | 47.78 | 1.3157 | 47.87 | 1.4099 | -0.1209 | 6131.8 | 7421.6 | 1289.7 |
| 15 | 6.00 | 52.25 | 39.43 | 46.47 | 47.77 | 1.3090 | 47.87 | 1.4099 | -0.0998 | 6130.8 | 7426.8 | 1295.9 |
| 15 | 7.00 | 52.25 | 39.42 | 46.47 | 47.78 | 1.3101 | 47.87 | 1.3999 | -0.0896 | 6130.7 | 7426.7 | 1278.2 |
| 15 | 8.00 | 52.25 | 39.42 | 46.47 | 47.78 | 1.3103 | 47.85 | 1.3999 | -0.0880 | 6143.0 | 7421.2 | 1298.0 |
| 15 | 9.00 | 52.25 | 39.42 | 46.46 | 47.76 | 1.3103 | 47.85 | 1.3999 | -0.0869 | 6149.3 | 7416.0 | 1266.4 |
| 15 | 10.00 | 52.25 | 39.42 | 46.45 | 47.76 | 1.3129 | 47.82 | 1.3799 | -0.0670 | 6149.2 | 7415.7 | 1266.4 |
| 15 | 11.00 | 52.25 | 39.42 | 46.44 | 47.76 | 1.3166 | 47.82 | 1.3799 | -0.0653 | 6162.1 | 7410.5 | 1248.3 |
| 15 | 12.00 | 52.26 | 39.42 | 46.44 | 47.75 | 1.3166 | 47.82 | 1.3699 | -0.0555 | 6162.0 | 7410.5 | 1248.5 |
| 15 | 13.00 | 52.26 | 39.42 | 46.44 | 47.75 | 1.3164 | 47.81 | 1.3699 | -0.0555 | 6162.0 | 7410.5 | 1248.5 |

7.11 Computed Storage and Lateral Inflow Values for
Each Reach.

Explanatory notes pertaining to the listings:

S-65D - S-65E: reach between Structures 65E and 65D.

S-65C - S-65D: reach between Structures 65D and 65C.

S-65B - S-65C: reach between Structures 65C and 65B.

Day: Calendar day number for the month of October in the year
1969.

Hour: Actual clock time of the day = 1,2,...,23,24. 1 corresponds
to 1:00AM of the day and 24 corresponds to midnight of the
day.

QD-QU: Average QL of two consecutive hours.

DSTORE: Change in the water storage of the reach between two con-
secutive hours.

QLAT: $(QD-QU) + DSTORE$.

SUM: Cumulative QLAT.

AF: Acre feet.

Discrepancies in all the numbers are due to rounding off truncation
errors.

S-65D - S-65E

S-65C - S-65D

S-65H - S-65C

| DAY HOUR | OD-DU | | DSTORE | | QLAT | | SUM | | OD-DU | | DSTORE | | QLAT | | SUM | |
|----------|-------|-----|--------|------|------|-----|-----|------|-------|-----|--------|------|-------|----|-----|----|
| | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF |
| 1 | 9 | 62 | -64 | 18 | 17 | 61 | -11 | 69 | 49 | 96 | -18 | 77 | 76 | | | |
| 10 | 10 | 60 | -42 | 19 | 33 | 62 | 1 | 63 | 111 | 95 | 0 | 95 | 175 | | | |
| 11 | 11 | 59 | -45 | 20 | 27 | 64 | 1 | 65 | 176 | 95 | 0 | 95 | 267 | | | |
| 12 | 12 | 58 | 21 | 44 | 72 | 65 | -6 | 68 | 246 | 86 | -10 | 86 | 547 | | | |
| 13 | 13 | 57 | 21 | 44 | 72 | 66 | 0 | 71 | 315 | 87 | 59 | 87 | 493 | | | |
| 14 | 14 | 56 | 22 | 48 | 168 | 70 | 0 | 69 | 384 | 88 | 80 | 80 | 663 | | | |
| 15 | 15 | 55 | 28 | 50 | 215 | 68 | 0 | 67 | 452 | 90 | 61 | 151 | 813 | | | |
| 16 | 16 | 54 | 22 | 52 | 267 | 66 | 0 | 66 | 517 | 92 | 83 | 174 | 987 | | | |
| 17 | 17 | 48 | 41 | 89 | 356 | 79 | 10 | 66 | 606 | 81 | 90 | 171 | 1150 | | | |
| 18 | 18 | 66 | -10 | 55 | 411 | 96 | 10 | 72 | 778 | 77 | 29 | 77 | 1235 | | | |
| 19 | 19 | 64 | -10 | 53 | 463 | 101 | 60 | 181 | 959 | 74 | 43 | 43 | 1273 | | | |
| 20 | 20 | 50 | -10 | 39 | 502 | 101 | 92 | 193 | 1152 | 74 | 39 | 39 | 1406 | | | |
| 21 | 21 | 49 | 3 | 52 | 555 | 98 | 27 | 175 | 1277 | 49 | 193 | 242 | 1649 | | | |
| 22 | 22 | 53 | -6 | 46 | 601 | 105 | 63 | 168 | 1446 | 59 | 299 | 358 | 2007 | | | |
| 23 | 23 | 44 | 11 | 55 | 656 | 111 | -13 | 97 | 1543 | 81 | 130 | 211 | 2219 | | | |
| 24 | 24 | 26 | 12 | 38 | 693 | 113 | 19 | 132 | 1675 | 102 | 195 | 297 | 2516 | | | |
| 2 | 1 | 8 | 11 | 19 | 712 | 115 | -13 | 101 | 1776 | 120 | -53 | 97 | 2582 | | | |
| 3 | 2 | 10 | 11 | 21 | 734 | 114 | -13 | 100 | 1876 | 119 | -54 | 68 | 2649 | | | |
| 4 | 3 | 12 | 0 | 12 | 745 | 114 | -13 | 100 | 1977 | 117 | -51 | 65 | 2714 | | | |
| 5 | 4 | 14 | 23 | 37 | 782 | 113 | -13 | 99 | 2076 | 116 | -51 | 64 | 2777 | | | |
| 6 | 5 | 16 | 0 | 16 | 798 | 113 | -13 | 99 | 2175 | 114 | -50 | 63 | 2841 | | | |
| 7 | 6 | 18 | 23 | 41 | 839 | 112 | -13 | 98 | 2272 | 113 | -50 | 62 | 2903 | | | |
| 8 | 7 | 21 | 12 | 33 | 872 | 111 | -13 | 97 | 2370 | 88 | -34 | 53 | 2956 | | | |
| 9 | 8 | 54 | 32 | 86 | 958 | 113 | 36 | 149 | 2518 | 100 | 99 | 198 | 3154 | | | |
| 10 | 9 | 89 | 1 | 90 | 1048 | 114 | -40 | 74 | 2592 | 135 | -49 | 39 | 3240 | | | |
| 11 | 10 | 97 | 1 | 97 | 1145 | 112 | -40 | 71 | 2663 | 136 | -49 | 113 | 3353 | | | |
| 12 | 11 | 112 | 15 | 127 | 1273 | 109 | -26 | 82 | 2745 | 137 | -22 | 113 | 3466 | | | |
| 13 | 12 | 122 | -83 | -11 | 1260 | 109 | -36 | 72 | 2817 | 137 | -22 | 113 | 3580 | | | |
| 14 | 13 | 30 | -0 | 29 | 1289 | 98 | -36 | 61 | 2878 | 139 | -23 | 117 | 3697 | | | |
| 15 | 14 | 38 | 11 | 49 | 1338 | 84 | -12 | 71 | 2943 | 139 | -23 | 115 | 3812 | | | |
| 16 | 15 | 33 | -0 | 33 | 1371 | 84 | -12 | 71 | 3019 | 139 | -23 | 115 | 3928 | | | |
| 17 | 16 | 30 | 11 | 41 | 1412 | 83 | -12 | 70 | 3089 | 139 | -23 | 115 | 4044 | | | |
| 18 | 17 | 48 | 48 | 147 | 1559 | 98 | 195 | 293 | 3382 | 147 | 68 | 215 | 4256 | | | |
| 19 | 18 | 301 | 316 | 177 | 1776 | 105 | 155 | 260 | 3642 | 116 | 483 | 537 | 4653 | | | |
| 20 | 19 | 437 | -138 | 298 | 2474 | 119 | 245 | 364 | 4006 | 113 | 686 | 797 | 5652 | | | |
| 21 | 20 | 406 | -40 | 365 | 2839 | 122 | 281 | 544 | 4550 | 86 | -251 | -166 | 5485 | | | |
| 22 | 21 | 349 | 61 | 410 | 3249 | 130 | 190 | 496 | 5047 | 67 | 911 | 978 | 6463 | | | |
| 23 | 22 | 234 | 107 | 341 | 3590 | 344 | 803 | 1146 | 6193 | 88 | 2168 | 2299 | 8719 | | | |
| 24 | 23 | 350 | 347 | 420 | 4260 | 344 | 342 | 686 | 6879 | 171 | 2955 | 3127 | 11846 | | | |
| 3 | 1 | 362 | 153 | 566 | 4806 | 297 | 513 | 811 | 7690 | 755 | -249 | 6 | 11851 | | | |
| 2 | 2 | 362 | 153 | 516 | 5322 | 371 | 260 | 631 | 8320 | 221 | -75 | 145 | 11997 | | | |
| 3 | 3 | 362 | 180 | 522 | 5844 | 364 | 357 | 679 | 8999 | 203 | -19 | 182 | 12176 | | | |
| 4 | 4 | 373 | 448 | 6834 | 6352 | 380 | 395 | 636 | 9635 | 323 | 282 | 238 | 12758 | | | |
| 5 | 5 | 396 | 92 | 488 | 7352 | 170 | 303 | 473 | 10109 | 449 | 1027 | 1303 | 14573 | | | |
| 6 | 6 | 386 | 81 | 466 | 7788 | 173 | 335 | 509 | 10617 | 449 | 1427 | 1636 | 16199 | | | |
| 7 | 7 | 379 | 95 | 474 | 8252 | 214 | 453 | 661 | 11284 | 460 | 1660 | 1959 | 18461 | | | |
| 8 | 8 | 409 | 97 | 506 | 8767 | 211 | 155 | 412 | 11936 | 480 | -897 | -153 | 18441 | | | |
| | | | | | | | | 426 | 12123 | 354 | -377 | -27 | 19411 | | | |

S-65D - S-65E

S-65C - S-65D

S-65B - S-65C

| DAY HOUR | QD-QU | | DSTORE | | QLAT | | SUM | | QD-QU | | DSTORE | | QLAT | | SUM | |
|----------|-------|------|--------|-----|------|-----|-------|-----|-------|-------|--------|----|------|----|-----|----|
| | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF |
| 3 9 | 433 | 495 | 62 | 279 | 195 | 473 | 12936 | 322 | 369 | 691 | 20104 | | | | | |
| 10 | 406 | 376 | -29 | 479 | -20 | 262 | 12630 | 665 | -1041 | -775 | 17333 | | | | | |
| 11 | 252 | 65 | 187 | 278 | 371 | 569 | 14430 | 241 | 2218 | 2459 | 21731 | | | | | |
| 12 | 146 | 454 | 308 | 277 | 332 | 569 | 14108 | 277 | 1639 | 1916 | 23607 | | | | | |
| 13 | 170 | 506 | 336 | 266 | 307 | 572 | 14108 | 287 | 335 | 623 | 24330 | | | | | |
| 14 | 80 | 338 | 258 | 278 | 376 | 668 | 15966 | 271 | -180 | 89 | 24620 | | | | | |
| 15 | 0 | 377 | 376 | 281 | 122 | 403 | 17258 | 271 | -180 | 89 | 24620 | | | | | |
| 16 | 39 | 429 | 390 | 263 | 162 | 425 | 17500 | 544 | 468 | -223 | 34196 | | | | | |
| 17 | 196 | 547 | 743 | 225 | 131 | 356 | 16812 | 584 | 1349 | 1538 | 25794 | | | | | |
| 18 | 451 | 183 | 634 | 199 | 163 | 361 | 16873 | 684 | 1519 | 1803 | 27597 | | | | | |
| 19 | 549 | 315 | 3499 | 205 | 230 | 435 | 17308 | 582 | -376 | -83 | 27513 | | | | | |
| 20 | 511 | -229 | 281 | 234 | 228 | 462 | 17770 | 586 | -1184 | 91 | 28493 | | | | | |
| 21 | 474 | 246 | -227 | 261 | 94 | 355 | 18125 | 251 | 251 | 485 | 28056 | | | | | |
| 22 | 440 | 239 | -200 | 276 | 129 | 404 | 18529 | 234 | 630 | 259 | 28924 | | | | | |
| 23 | 406 | 186 | -218 | 290 | 130 | 420 | 18949 | 239 | 86 | 151 | 29075 | | | | | |
| 3 24 | 371 | 176 | -194 | 309 | 129 | 438 | 19387 | 228 | 124 | 334 | 29426 | | | | | |
| 4 1 | 342 | 175 | -165 | 324 | 127 | 451 | 19838 | 227 | 236 | 441 | 29889 | | | | | |
| 2 | 317 | 153 | -163 | 338 | 127 | 465 | 20303 | 226 | 242 | 501 | 29889 | | | | | |
| 3 | 293 | 133 | -158 | 350 | 56 | 406 | 20708 | 226 | 283 | 510 | 30346 | | | | | |
| 4 | 269 | 115 | -153 | 359 | 56 | 415 | 21123 | 221 | 290 | 520 | 31375 | | | | | |
| 5 | 240 | 20 | -129 | 371 | 102 | 473 | 21596 | 231 | 264 | 430 | 31857 | | | | | |
| 6 | 205 | -2 | -207 | 401 | 57 | 459 | 22055 | 195 | -2321 | -2126 | 29226 | | | | | |
| 7 | 169 | -198 | -198 | 420 | 72 | 492 | 22547 | 186 | 1986 | 2172 | 31900 | | | | | |
| 8 | 134 | -174 | -40 | 426 | 99 | 525 | 23072 | 209 | -74 | 131 | 32031 | | | | | |
| 9 | 109 | 18 | -151 | 437 | 52 | 489 | 23561 | 208 | 507 | 715 | 32746 | | | | | |
| 10 | 95 | 21 | -151 | 443 | 44 | 491 | 24053 | 213 | -38 | 174 | 32920 | | | | | |
| 11 | 82 | 8 | -159 | 452 | 48 | 500 | 24552 | 219 | -37 | 172 | 33092 | | | | | |
| 12 | 67 | -19 | -151 | 461 | 51 | 511 | 25064 | 206 | -39 | 166 | 33277 | | | | | |
| 13 | 52 | 18 | -151 | 469 | 48 | 518 | 25581 | 203 | -41 | 160 | 33418 | | | | | |
| 14 | -86 | -288 | -186 | 408 | -185 | 522 | 25803 | 215 | 321 | 536 | 33954 | | | | | |
| 15 | -188 | 201 | -200 | 332 | 124 | 456 | 26259 | 227 | -44 | 183 | 34137 | | | | | |
| 16 | -129 | 432 | 301 | 311 | 125 | 436 | 26695 | 227 | -37 | 187 | 34323 | | | | | |
| 17 | -77 | 337 | 370 | 294 | 105 | 399 | 27094 | 223 | -45 | 177 | 34500 | | | | | |
| 18 | 63 | 2 | 367 | 241 | 36 | 408 | 27372 | 223 | -45 | 177 | 34500 | | | | | |
| 19 | 53 | 159 | 219 | 198 | 205 | 473 | 27775 | 223 | -45 | 177 | 34500 | | | | | |
| 20 | 70 | 230 | 1624 | 203 | 245 | 448 | 28222 | 223 | -45 | 177 | 34500 | | | | | |
| 21 | 77 | 240 | 16694 | 208 | 210 | 418 | 28660 | 219 | -128 | 100 | 34947 | | | | | |
| 22 | 84 | 181 | 271 | 208 | 254 | 466 | 29106 | 200 | -128 | 100 | 34947 | | | | | |
| 23 | 91 | 260 | 1725 | 212 | 254 | 476 | 29582 | 200 | -128 | 100 | 34947 | | | | | |
| 4 24 | 98 | 291 | 17515 | 224 | 257 | 481 | 30063 | 215 | -237 | -29 | 35140 | | | | | |
| 5 1 | 106 | 111 | 117 | 227 | 108 | 335 | 30398 | 207 | -50 | 156 | 35264 | | | | | |
| 2 | 117 | 134 | 261 | 227 | 106 | 334 | 30731 | 203 | -44 | 146 | 35364 | | | | | |
| 3 | 128 | 130 | 261 | 227 | 106 | 334 | 30731 | 203 | -44 | 146 | 35364 | | | | | |
| 4 | 140 | 139 | 277 | 256 | 107 | 374 | 31105 | 192 | -67 | 130 | 35672 | | | | | |
| 5 | 152 | 136 | 290 | 260 | 107 | 336 | 31441 | 193 | -67 | 130 | 35672 | | | | | |
| 6 | 220 | 197 | 417 | 252 | 107 | 336 | 31777 | 190 | -67 | 130 | 35672 | | | | | |
| 7 | 277 | 208 | 19437 | 256 | 135 | 361 | 32138 | 188 | -60 | 128 | 35080 | | | | | |
| 8 | 265 | 195 | -70 | 259 | 85 | 314 | 32452 | 184 | -245 | -92 | 36617 | | | | | |
| 5 8 | 265 | 195 | -70 | 259 | 85 | 324 | 32776 | 174 | -338 | -164 | 35853 | | | | | |

//0

| DAY HOUR | WD-QU | | DSTURE | | QLAT | | SUM | | WD-QU | | DSTURE | | QLAT | | SUM | |
|----------|-------|------|--------|--------|------|-------|------|--------|-------|-------|--------|--------|------|----|-----|----|
| | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF |
| 5 9 | 258. | -0. | 258. | 19889. | 258. | 19. | 324. | 34104. | 167. | -237. | -71. | 35781. | | | | |
| 5 10 | 256. | 23. | 279. | 20168. | 259. | 118. | 347. | 33477. | 162. | -154. | 7. | 3579C. | | | | |
| 5 11 | 254. | -0. | 253. | 20421. | 260. | 40. | 341. | 33817. | 155. | -54. | 117. | 35006. | | | | |
| 5 12 | 251. | 23. | 249. | 20595. | 265. | 119. | 343. | 34201. | 153. | -59. | 74. | 36007. | | | | |
| 5 13 | 250. | -0. | 249. | 20844. | 267. | 189. | 268. | 34469. | 169. | -81. | 31. | 36216. | | | | |
| 5 14 | 249. | 23. | 247. | 21216. | 269. | 78. | 307. | 34816. | 162. | -130. | 81. | 36280. | | | | |
| 5 15 | 249. | 23. | 272. | 21487. | 271. | 269. | 379. | 37085. | 162. | -76. | 156. | 36439. | | | | |
| 5 16 | 248. | -0. | 248. | 21735. | 272. | 81. | 333. | 35436. | 164. | -37. | 120. | 36567. | | | | |
| 5 17 | 248. | 26. | 248. | 21973. | 315. | 186. | 503. | 35939. | 160. | -64. | 19. | 36687. | | | | |
| 5 18 | 175. | -0. | 173. | 22146. | 354. | -39. | 314. | 36232. | 160. | -71. | 167. | 36824. | | | | |
| 5 19 | 175. | 23. | 198. | 22344. | 352. | -1. | 350. | 36602. | 166. | -84. | 198. | 36982. | | | | |
| 5 20 | 205. | 52. | 207. | 22601. | 349. | -7. | 340. | 36943. | 172. | -89. | 261. | 37243. | | | | |
| 5 21 | 233. | -22. | 210. | 22811. | 347. | -38. | 308. | 37250. | 176. | -470. | -24. | 37144. | | | | |
| 5 22 | 232. | -21. | 232. | 23021. | 355. | -1. | 353. | 37603. | 164. | -912. | -766. | 36396. | | | | |
| 5 23 | 232. | -22. | 209. | 23230. | 363. | 2. | 364. | 37968. | 153. | -994. | 53. | 36452. | | | | |
| 5 24 | 231. | -22. | 208. | 23438. | 366. | 1. | 367. | 38335. | 154. | -183. | -27. | 36422. | | | | |
| 6 1 | 231. | -02. | 231. | 23669. | 367. | -40. | 327. | 39062. | 156. | -89. | 70. | 36491. | | | | |
| 6 2 | 231. | -22. | 208. | 23877. | 368. | 2. | 359. | 39031. | 162. | -101. | 59. | 36581. | | | | |
| 6 3 | 230. | -22. | 208. | 24085. | 370. | -38. | 331. | 39362. | 165. | -169. | -4. | 36544. | | | | |
| 6 4 | 231. | 1. | 232. | 24317. | 370. | -40. | 329. | 39691. | 169. | -87. | 83. | 36624. | | | | |
| 6 5 | 231. | -22. | 208. | 24525. | 371. | 1. | 372. | 40063. | 173. | -183. | -13. | 36615. | | | | |
| 6 6 | 230. | -21. | 208. | 24733. | 374. | 2. | 376. | 40439. | 175. | -101. | 74. | 36687. | | | | |
| 6 7 | 230. | -21. | 208. | 24941. | 374. | -78. | 295. | 40734. | 183. | -69. | 113. | 36802. | | | | |
| 6 8 | 231. | 0. | 231. | 25172. | 372. | -39. | 332. | 41066. | 191. | -0. | 140. | 36993. | | | | |
| 6 9 | 232. | -21. | 210. | 25381. | 369. | -77. | 291. | 41357. | 202. | 10. | 212. | 37204. | | | | |
| 6 10 | 232. | -22. | 209. | 25590. | 367. | -37. | 329. | 41686. | 213. | -0. | 211. | 37416. | | | | |
| 6 11 | 232. | 0. | 232. | 25822. | 390. | -94. | 295. | 41981. | 187. | -483. | -236. | 37119. | | | | |
| 6 12 | 243. | -22. | 211. | 26032. | 423. | 4. | 379. | 42360. | 185. | 3. | 137. | 37306. | | | | |
| 6 13 | 234. | -22. | 211. | 26243. | 439. | -244. | 194. | 42594. | 201. | -129. | 74. | 37376. | | | | |
| 6 14 | 239. | 0. | 238. | 26481. | 453. | -246. | 206. | 42760. | 179. | -125. | 54. | 37431. | | | | |
| 6 15 | 240. | -22. | 220. | 26701. | 453. | -234. | 218. | 42976. | 176. | -176. | 388. | 37819. | | | | |
| 6 16 | 247. | -22. | 220. | 26926. | 452. | -235. | 206. | 43184. | 186. | -176. | 10. | 37829. | | | | |
| 6 17 | 252. | 0. | 252. | 27177. | 443. | -242. | 201. | 43364. | 185. | 166. | 361. | 38179. | | | | |
| 6 18 | 256. | -22. | 233. | 27410. | 457. | -201. | 255. | 43659. | 172. | -159. | 12. | 38192. | | | | |
| 6 19 | 260. | -22. | 237. | 27647. | 458. | -269. | 188. | 43827. | 177. | 359. | 536. | 38724. | | | | |
| 6 20 | 266. | 0. | 266. | 27913. | 444. | -267. | 176. | 44003. | 231. | -287. | -56. | 38671. | | | | |
| 6 21 | 271. | -22. | 248. | 28161. | 434. | -222. | 212. | 44215. | 275. | -107. | 167. | 38838. | | | | |
| 6 22 | 277. | 0. | 276. | 28438. | 424. | -258. | 165. | 44380. | 284. | -98. | 185. | 39023. | | | | |
| 6 23 | 280. | -68. | 251. | 28649. | 416. | -251. | 164. | 44594. | 287. | -324. | -35. | 38987. | | | | |
| 6 24 | 288. | -68. | 209. | 28857. | 411. | -212. | 198. | 44742. | 290. | -332. | -42. | 38943. | | | | |
| 7 1 | 276. | -67. | 207. | 29065. | 407. | -246. | 159. | 44901. | 292. | -322. | -31. | 38912. | | | | |
| 7 2 | 274. | -67. | 206. | 29271. | 402. | -209. | 192. | 45093. | 294. | -549. | -49. | 38955. | | | | |
| 7 3 | 272. | -67. | 204. | 29475. | 398. | -207. | 190. | 45283. | 296. | -325. | -28. | 38926. | | | | |
| 7 4 | 269. | -67. | 201. | 29676. | 395. | -205. | 188. | 45472. | 293. | -317. | -17. | 38905. | | | | |
| 7 5 | 266. | -66. | 199. | 29875. | 391. | -202. | 186. | 45659. | 299. | -549. | -36. | 38961. | | | | |
| 7 6 | 264. | -66. | 196. | 30071. | 387. | -201. | 185. | 45844. | 301. | -513. | -11. | 38949. | | | | |
| 7 7 | 263. | -65. | 197. | 30268. | 378. | -367. | 111. | 45855. | 305. | -566. | -39. | 38987. | | | | |
| 7 8 | 267. | -44. | 222. | 30490. | 394. | -341. | 92. | 45907. | 308. | -767. | -45. | 38826. | | | | |

S-650 - S-65E

S-65C - S-65D

S-65H - S-65C

| DAY HOUR | 40-QU | | DSTORE | | QLAT | | SUM | | 40-QU | | DSTORE | | QLAT | | SUM | | | |
|----------|-------|----|--------|----|------|--------|------|----|-------|----|--------|--------|------|----|--------|----|--------|--------|
| | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | | |
| 7 9 | 269. | | -85. | | 183. | 30673. | 404. | | -345. | | 58. | 45965. | 341. | | 556. | | 897. | 39424. |
| 7 10 | 271. | | -85. | | 184. | 30857. | 404. | | -315. | | 78. | 46053. | 354. | | -769. | | 837. | 39008. |
| 7 11 | 272. | | -84. | | 187. | 31044. | 410. | | -331. | | 88. | 46131. | 335. | | -322. | | 12. | 39020. |
| 7 12 | 273. | | -84. | | 188. | 31232. | 400. | | -294. | | 105. | 46236. | 338. | | -260. | | 76. | 39097. |
| 7 13 | 274. | | -83. | | 211. | 31443. | 389. | | -250. | | 69. | 46305. | 342. | | -312. | | 28. | 39126. |
| 7 14 | 277. | | -82. | | 194. | 31636. | 304. | | -250. | | 53. | 46358. | 441. | | 889. | | 1331. | 40456. |
| 7 15 | 278. | | -82. | | 195. | 31831. | 323. | | -344. | | -21. | 46336. | 406. | | -1912. | | -1507. | 38949. |
| 7 16 | 343. | | -87. | | 275. | 32106. | 371. | | -443. | | -72. | 46283. | 275. | | 559. | | 225. | 39783. |
| 7 17 | 349. | | -87. | | 300. | 32381. | 314. | | -577. | | -283. | 46000. | 219. | | -199. | | 82. | 39806. |
| 7 18 | 387. | | -87. | | 330. | 32884. | 316. | | -185. | | 132. | 46132. | 164. | | 189. | | 347. | 40154. |
| 7 19 | 392. | | -86. | | 160. | 32944. | 324. | | -208. | | 117. | 46248. | 175. | | 372. | | 372. | 40526. |
| 7 20 | 349. | | -86. | | 126. | 33501. | 317. | | -200. | | 116. | 46364. | 186. | | 200. | | 393. | 40912. |
| 7 21 | 350. | | -89. | | 172. | 33533. | 377. | | -379. | | -102. | 46261. | 180. | | -169. | | 10. | 40922. |
| 7 22 | 351. | | -89. | | 173. | 33533. | 377. | | -379. | | 55. | 46317. | 171. | | -34. | | 136. | 41036. |
| 7 23 | 204. | | -83. | | 120. | 33273. | 353. | | -129. | | 74. | 46390. | 176. | | -37. | | 138. | 41195. |
| 7 24 | 199. | | -68. | | 131. | 32604. | 229. | | -136. | | 71. | 46462. | 189. | | -37. | | 142. | 41337. |
| 8 1 | 194. | | -93. | | 100. | 32703. | 224. | | -183. | | 70. | 46532. | 184. | | -36. | | 147. | 41484. |
| 8 2 | 188. | | -65. | | 122. | 32823. | 220. | | -181. | | 68. | 46603. | 191. | | -30. | | 142. | 41836. |
| 8 3 | 184. | | -77. | | 106. | 32933. | 216. | | -145. | | 48. | 46649. | 194. | | -21. | | 213. | 41876. |
| 8 4 | 178. | | -89. | | 88. | 33109. | 209. | | -141. | | 67. | 46714. | 194. | | -36. | | 184. | 42110. |
| 8 5 | 172. | | -62. | | 109. | 33128. | 204. | | -137. | | 66. | 46780. | 202. | | -37. | | 184. | 42316. |
| 8 6 | 167. | | -73. | | 93. | 33221. | 200. | | -132. | | 66. | 46846. | 201. | | -37. | | 169. | 42346. |
| 8 7 | 101. | | -110. | | 94. | 33221. | 164. | | -167. | | -3. | 46843. | 213. | | -116. | | 136. | 42339. |
| 8 8 | 51. | | 134. | | 185. | 33395. | 124. | | -68. | | 55. | 46948. | 230. | | -9. | | 221. | 42760. |
| 8 9 | 66. | | 61. | | 127. | 33522. | 114. | | -65. | | 49. | 46946. | 244. | | -157. | | 86. | 42866. |
| 8 10 | 93. | | 70. | | 164. | 33686. | 107. | | -69. | | 57. | 47004. | 244. | | -157. | | 96. | 42932. |
| 8 11 | 119. | | -24. | | 94. | 33780. | 103. | | -61. | | 41. | 47045. | 243. | | -154. | | 89. | 43020. |
| 8 12 | 120. | | -24. | | 95. | 33875. | 101. | | -60. | | 40. | 47085. | 243. | | -154. | | 89. | 43109. |
| 8 13 | 120. | | -24. | | 96. | 33971. | 99. | | -59. | | 40. | 47125. | 240. | | -154. | | 85. | 43184. |
| 8 14 | 121. | | -24. | | 94. | 34066. | 98. | | -63. | | 54. | 47178. | 277. | | -153. | | 75. | 43307. |
| 8 15 | 120. | | -36. | | 84. | 34150. | 97. | | -57. | | 39. | 47218. | 276. | | -149. | | 126. | 43433. |
| 8 16 | 120. | | -23. | | 96. | 34246. | 95. | | -57. | | 38. | 47255. | 275. | | -95. | | 174. | 43612. |
| 8 17 | 121. | | -11. | | 109. | 34356. | 94. | | -42. | | 50. | 47306. | 274. | | -147. | | 126. | 43738. |
| 8 18 | 122. | | -23. | | 98. | 34454. | 92. | | -45. | | 35. | 47341. | 274. | | -94. | | 179. | 43917. |
| 8 19 | 123. | | -23. | | 99. | 34553. | 89. | | -55. | | 33. | 47374. | 274. | | -93. | | 179. | 44096. |
| 8 20 | 123. | | -22. | | 100. | 34653. | 88. | | -50. | | 46. | 47421. | 273. | | -96. | | 177. | 44273. |
| 8 21 | 124. | | -23. | | 101. | 34753. | 86. | | -54. | | 31. | 47452. | 249. | | -50. | | 137. | 44470. |
| 8 22 | 140. | | -23. | | 116. | 34869. | 68. | | -57. | | 10. | 47462. | 225. | | -136. | | 38. | 44558. |
| 8 23 | 154. | | -34. | | 119. | 34988. | 52. | | -12. | | 40. | 47501. | 225. | | -98. | | 126. | 44684. |
| 8 24 | 152. | | -10. | | 140. | 35128. | 54. | | 0. | | 54. | 47556. | 225. | | -101. | | 123. | 44807. |
| 9 1 | 151. | | -10. | | 150. | 35268. | 55. | | -12. | | 42. | 47597. | 225. | | -98. | | 125. | 44933. |
| 9 2 | 152. | | 0. | | 142. | 35420. | 55. | | 0. | | 56. | 47653. | 224. | | -99. | | 124. | 45057. |
| 9 3 | 152. | | 0. | | 152. | 35573. | 57. | | 0. | | 57. | 47710. | 223. | | -146. | | 123. | 45132. |
| 9 4 | 153. | | 0. | | 153. | 35726. | 58. | | -13. | | 44. | 47754. | 222. | | -94. | | 126. | 45259. |
| 9 5 | 154. | | -10. | | 154. | 35868. | 58. | | 0. | | 59. | 47812. | 221. | | -91. | | 123. | 45382. |
| 9 6 | 154. | | 0. | | 154. | 36022. | 59. | | -13. | | 0. | 47858. | 220. | | -95. | | 125. | 45501. |
| 9 7 | 155. | | 0. | | 155. | 36177. | 59. | | 0. | | 59. | 47917. | 219. | | -113. | | 117. | 45624. |
| 9 8 | 132. | | -7. | | 123. | 36300. | 61. | | 1. | | 62. | 47979. | 241. | | -92. | | 144. | 45772. |

112

S-65D - S-65E

S-65C - S-65D

S-65B - S-65C

| DAY | HOUR | QD-QU | | DSTORE | | QLAT | | SUM | |
|-----|------|-------|-----|--------|-------|------|----|-----|----|
| | | AF | AF | AF | AF | AF | AF | AF | AF |
| 9 | 9 | 109 | -10 | 97 | 36397 | | | | |
| | 10 | 108 | -10 | 96 | 36494 | | | | |
| | 11 | 114 | -11 | 102 | 36596 | | | | |
| | 12 | 120 | -10 | 108 | 36705 | | | | |
| | 13 | 117 | -10 | 105 | 36810 | | | | |
| | 14 | 114 | 64 | 178 | 36988 | | | | |
| | 15 | 110 | -22 | 86 | 37074 | | | | |
| | 16 | 105 | -22 | 82 | 37156 | | | | |
| | 17 | 105 | -22 | 82 | 37238 | | | | |
| | 18 | 101 | -12 | 88 | 37326 | | | | |
| | 19 | 95 | -10 | 84 | 37410 | | | | |
| | 20 | 94 | 0 | 83 | 37493 | | | | |
| | 21 | 94 | 0 | 84 | 37587 | | | | |
| | 22 | 92 | -10 | 81 | 37669 | | | | |
| | 23 | 92 | -10 | 82 | 37749 | | | | |
| | 24 | 112 | -10 | 101 | 37851 | | | | |
| 10 | 1 | 130 | -20 | 108 | 37861 | | | | |
| | 2 | 130 | -20 | 108 | 38069 | | | | |
| | 3 | 128 | -10 | 118 | 38187 | | | | |
| | 4 | 127 | -9 | 117 | 38303 | | | | |
| | 5 | 126 | -20 | 105 | 38408 | | | | |
| | 6 | 124 | -9 | 114 | 38522 | | | | |
| | 7 | 122 | -20 | 102 | 38624 | | | | |
| | 8 | 113 | -12 | 100 | 38724 | | | | |
| | 9 | 106 | 21 | 127 | 38851 | | | | |
| | 10 | 77 | 53 | 110 | 38861 | | | | |
| | 11 | 69 | 50 | 90 | 39050 | | | | |
| | 12 | 62 | 26 | 94 | 39114 | | | | |
| | 13 | 56 | 32 | 112 | 39181 | | | | |
| | 14 | 74 | 56 | 112 | 39303 | | | | |
| | 15 | 88 | -24 | 63 | 39359 | | | | |
| | 16 | 91 | 59 | 105 | 39437 | | | | |
| | 17 | 87 | -16 | 90 | 39550 | | | | |
| | 18 | 68 | 0 | 68 | 39650 | | | | |
| | 19 | 90 | 0 | 68 | 39818 | | | | |
| | 20 | 79 | 0 | 70 | 39889 | | | | |
| | 21 | 72 | 0 | 72 | 39761 | | | | |
| | 22 | 74 | 0 | 74 | 39835 | | | | |
| | 23 | 76 | 0 | 76 | 39910 | | | | |
| | 24 | 77 | 0 | 77 | 39887 | | | | |
| 10 | 24 | 77 | 0 | 77 | 39887 | | | | |
| 11 | 1 | 79 | 0 | 79 | 40066 | | | | |
| | 2 | 80 | 0 | 80 | 40146 | | | | |
| | 3 | 82 | 0 | 82 | 40229 | | | | |
| | 4 | 84 | 0 | 84 | 40313 | | | | |
| | 5 | 86 | 0 | 86 | 40398 | | | | |
| | 6 | 88 | -12 | 75 | 40474 | | | | |
| | 7 | 90 | -20 | 69 | 40542 | | | | |
| | 8 | 89 | -10 | 78 | 40621 | | | | |
| 11 | 8 | 89 | -10 | 78 | 40621 | | | | |

S-650 - S-65E

S-65C - S-65U

S-65B - S-65C

| DAY | HOUR | QD-QU | | DSTORE | | QLAT | | SUM | | QD-QU | | DSTORE | | QLAT | | SUM | |
|-----|-------|-------|--------|--------|--------|------|--------|--------|--------|-------|--------|--------|--------|------|--------|--------|--------|
| | | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF |
| 11 | 9 | 89. | 0. | 89. | 40710. | 0. | 39. | 50207. | 140. | 0. | 140. | 0. | 140. | 0. | 140. | 51804. | |
| 11 | 10 | 90. | 11. | 101. | 40811. | 12. | 50. | 50257. | 139. | -0. | 139. | 0. | 139. | 0. | 139. | 51942. | |
| 11 | 11 | 91. | 10. | 102. | 40913. | 29. | 38. | 50296. | 137. | 0. | 137. | 0. | 137. | 0. | 137. | 52082. | |
| 12 | 93. | 93. | 11. | 103. | 41016. | 48. | 38. | 50353. | 139. | 0. | 139. | 0. | 138. | 0. | 138. | 52221. | |
| 13 | 93. | 93. | 0. | 93. | 41109. | 38. | 0. | 50371. | 139. | 0. | 139. | 0. | 138. | 0. | 138. | 52359. | |
| 14 | 94. | 11. | 105. | 41214. | 94. | 37. | 37. | 50408. | 139. | 35. | 174. | 52833. | 139. | 35. | 174. | 52833. | |
| 15 | 95. | 11. | 106. | 41320. | 95. | 37. | 49. | 50457. | 138. | -0. | 138. | 0. | 137. | 0. | 137. | 52670. | |
| 16 | 96. | 11. | 107. | 41427. | 97. | 36. | 36. | 50493. | 138. | 0. | 138. | 0. | 139. | 0. | 139. | 52868. | |
| 17 | 97. | 0. | 97. | 41524. | 97. | 36. | 36. | 50522. | 138. | 1. | 139. | 52946. | 138. | 1. | 139. | 52946. | |
| 18 | 98. | 11. | 109. | 41623. | 36. | 0. | 36. | 50522. | 138. | 0. | 137. | 0. | 137. | 0. | 137. | 53083. | |
| 19 | 99. | 11. | 110. | 41743. | 35. | 0. | 35. | 50600. | 137. | 0. | 137. | 0. | 137. | 0. | 137. | 53221. | |
| 20 | 100. | 0. | 100. | 41842. | 35. | 13. | 48. | 50648. | 146. | -6. | 140. | 0. | 146. | -6. | 140. | 53405. | |
| 21 | 100. | 11. | 111. | 41954. | 36. | 11. | 35. | 50683. | 138. | 0. | 138. | 0. | 138. | 0. | 138. | 53520. | |
| 22 | 102. | 11. | 113. | 42067. | 35. | 0. | 35. | 50718. | 138. | -34. | 104. | 0. | 138. | -34. | 104. | 53635. | |
| 23 | 104. | 11. | 115. | 42182. | 44. | -11. | 42. | 50761. | 137. | -51. | 86. | 0. | 137. | -51. | 86. | 53721. | |
| 11 | 24 | 105. | 11. | 116. | 42298. | 52. | 13. | 65. | 50823. | 127. | -0. | 127. | 0. | 126. | 0. | 126. | 53842. |
| 12 | 1 | 105. | 0. | 105. | 42403. | 52. | 52. | 50878. | 127. | 36. | 161. | 54007. | 127. | 36. | 161. | 54007. | |
| 12 | 2 | 106. | 11. | 117. | 42520. | 51. | 51. | 50929. | 127. | 36. | 162. | 54169. | 127. | 36. | 162. | 54169. | |
| 11 | 3 | 107. | 11. | 119. | 42639. | 51. | 50. | 50979. | 127. | 1. | 126. | 54297. | 127. | 1. | 126. | 54297. | |
| 11 | 4 | 109. | 11. | 120. | 42759. | 50. | 63. | 51042. | 127. | 33. | 126. | 54437. | 127. | 33. | 126. | 54437. | |
| 5 | 109. | 0. | 109. | 42868. | 50. | 0. | 50. | 51092. | 124. | 35. | 160. | 54577. | 124. | 35. | 160. | 54577. | |
| 6 | 110. | 11. | 121. | 42989. | 49. | 0. | 49. | 51161. | 124. | 25. | 162. | 54717. | 124. | 25. | 162. | 54717. | |
| 7 | 111. | 11. | 122. | 43111. | 49. | 0. | 48. | 51189. | 127. | -33. | 93. | 54872. | 127. | -33. | 93. | 54872. | |
| 8 | 101. | 8. | 109. | 43220. | 48. | 0. | 48. | 51237. | 127. | 0. | 126. | 55003. | 127. | 0. | 126. | 55003. | |
| 9 | 66. | 66. | 43286. | 63. | 51301. | 126. | 63. | 51301. | 126. | -0. | 126. | 55123. | 126. | -0. | 126. | 55123. | |
| 10 | 86. | -10. | 75. | 43361. | 51. | 51. | 51352. | 125. | 0. | 125. | 55256. | 125. | 0. | 125. | 55256. | | |
| 11 | 86. | -10. | 73. | 43434. | 52. | 0. | 52. | 51406. | 125. | 0. | 125. | 55376. | 125. | 0. | 125. | 55376. | |
| 12 | 83. | -10. | 71. | 43505. | 52. | 0. | 53. | 51457. | 124. | 0. | 124. | 55501. | 124. | 0. | 124. | 55501. | |
| 13 | 81. | -10. | 70. | 43575. | 53. | 13. | 67. | 51523. | 124. | -1. | 122. | 55623. | 124. | -1. | 122. | 55623. | |
| 14 | 78. | -21. | 56. | 43630. | 55. | 1. | 56. | 51579. | 123. | 67. | 123. | 55746. | 123. | 67. | 123. | 55746. | |
| 15 | 76. | -10. | 65. | 43695. | 56. | 0. | 56. | 51635. | 123. | 0. | 123. | 55869. | 123. | 0. | 123. | 55869. | |
| 16 | 74. | -10. | 63. | 43758. | 57. | 0. | 57. | 51692. | 127. | 0. | 127. | 56080. | 127. | 0. | 127. | 56080. | |
| 17 | -11. | -7. | -20. | 43738. | 146. | 104. | 250. | 51982. | 117. | -27. | 89. | 56080. | 117. | -27. | 89. | 56080. | |
| 18 | -97. | -10. | -108. | 43628. | 236. | 0. | 236. | 52179. | 112. | 0. | 112. | 56192. | 112. | 0. | 112. | 56192. | |
| 19 | -111. | -13. | -125. | 43502. | 237. | 1. | 238. | 52479. | 112. | 0. | 111. | 56303. | 112. | 0. | 111. | 56303. | |
| 20 | -124. | 0. | -124. | 43378. | 239. | 13. | 252. | 52669. | 111. | -0. | 110. | 56413. | 111. | -0. | 110. | 56413. | |
| 21 | -124. | 0. | -124. | 43253. | 239. | 0. | 239. | 52908. | 111. | 0. | 111. | 56489. | 111. | 0. | 111. | 56489. | |
| 22 | -124. | 0. | -124. | 43177. | 240. | 13. | 256. | 53162. | 110. | -0. | 109. | 56598. | 110. | -0. | 109. | 56598. | |
| 23 | -125. | 0. | -125. | 43002. | 241. | 0. | 241. | 53402. | 110. | 0. | 110. | 56708. | 110. | 0. | 110. | 56708. | |
| 12 | 24 | -124. | 11. | -113. | 42887. | 241. | 13. | 254. | 53656. | 109. | -0. | 108. | 0. | 108. | 0. | 108. | 56816. |
| 13 | 1 | -124. | 0. | -124. | 42762. | 241. | 0. | 241. | 53898. | 107. | -33. | 74. | 56890. | 107. | -33. | 74. | 56890. |
| 2 | -124. | 0. | -124. | 42637. | 242. | 13. | 256. | 54153. | 109. | -1. | 107. | 56994. | 109. | -1. | 107. | 56994. | |
| 3 | -124. | 0. | -124. | 42512. | 243. | 0. | 243. | 54396. | 108. | 0. | 108. | 57105. | 108. | 0. | 108. | 57105. | |
| 4 | -124. | 0. | -124. | 42397. | 243. | 13. | 256. | 54652. | 107. | -34. | 73. | 57174. | 107. | -34. | 73. | 57174. | |
| 5 | -124. | 0. | -124. | 42272. | 244. | 0. | 244. | 54896. | 107. | 0. | 107. | 57286. | 107. | 0. | 107. | 57286. | |
| 6 | -124. | 0. | -124. | 42157. | 244. | 13. | 258. | 55154. | 106. | -0. | 105. | 57381. | 106. | -0. | 105. | 57381. | |
| 7 | -124. | 0. | -124. | 42042. | 245. | 0. | 245. | 55399. | 106. | 0. | 106. | 57493. | 106. | 0. | 106. | 57493. | |
| 13 | 8 | -127. | 7. | -121. | 42000. | 148. | -94. | 53. | 5452. | 107. | -20. | 81. | 57576. | 107. | -20. | 81. | 57576. |

S-65D - 5-65F

S-65C - 5-65D

S-65B - 5-65C

| DAY HOUR | QUO-QU | | DSTORE | | QLAT | | SUM | | UP-QU | | DSTORE | | QLAT | | SUM | | GO-QU | | DSTORE | | QLAT | | SUM | |
|----------|--------|----|--------|----|-------|----|-------|-----|-------|-----|--------|-----|------|-------|-----|-----|-------|----|--------|-----|------|-------|-------|----|
| | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF |
| | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF |
| 13 | 7 | 68 | -20 | 46 | 42046 | 80 | 55532 | 27 | 53 | 80 | 55532 | 31 | 80 | 55532 | 98 | 98 | 31 | 80 | 55532 | 127 | 127 | 57705 | 57705 | |
| | 10 | 65 | -21 | 42 | 42089 | 85 | 55614 | 28 | 55 | 83 | 55614 | 66 | 85 | 55614 | 98 | 98 | 66 | 85 | 55614 | 164 | 164 | 57868 | 57868 | |
| | 11 | 63 | -10 | 57 | 42141 | 83 | 55699 | 27 | 57 | 85 | 55699 | 78 | 83 | 55699 | 92 | 92 | 78 | 83 | 55699 | 165 | 165 | 58033 | 58033 | |
| | 12 | 60 | -20 | 38 | 42180 | 80 | 55786 | 28 | 59 | 82 | 55786 | 86 | 80 | 55786 | 86 | 86 | 86 | 80 | 55786 | 191 | 191 | 58185 | 58185 | |
| | 13 | 50 | -12 | 38 | 42218 | 30 | 55864 | 30 | 48 | 78 | 55864 | 102 | 30 | 55864 | 102 | 102 | 102 | 30 | 55864 | 247 | 247 | 58436 | 58436 | |
| | 14 | 21 | 42 | 61 | 42280 | 37 | 55928 | 27 | 42 | 77 | 55928 | 117 | 37 | 55928 | 117 | 117 | 117 | 37 | 55928 | 379 | 379 | 58513 | 58513 | |
| | 15 | 29 | 32 | 61 | 42341 | 51 | 55932 | 10 | 51 | 104 | 55932 | 114 | 51 | 55932 | 114 | 114 | 114 | 51 | 55932 | 41 | 41 | 58584 | 58584 | |
| | 16 | 16 | 21 | 63 | 42378 | 66 | 56062 | 16 | 66 | 55 | 56062 | 113 | 66 | 56062 | 113 | 113 | 113 | 66 | 56062 | 77 | 77 | 58584 | 58584 | |
| | 17 | 27 | 35 | 63 | 42441 | 62 | 56143 | -13 | 62 | 61 | 56143 | 112 | 62 | 56143 | 112 | 112 | 112 | 62 | 56143 | 77 | 77 | 58739 | 58739 | |
| | 18 | 39 | -10 | 29 | 42470 | 61 | 56191 | -13 | 61 | 61 | 56191 | 111 | 61 | 56191 | 111 | 111 | 111 | 61 | 56191 | -32 | -32 | 58817 | 58817 | |
| | 19 | 40 | 0 | 40 | 42510 | 61 | 56252 | 0 | 40 | 61 | 56252 | 111 | 40 | 56252 | 111 | 111 | 111 | 40 | 56252 | 0 | 0 | 58928 | 58928 | |
| | 20 | 41 | 0 | 42 | 42551 | 61 | 56313 | 0 | 42 | 61 | 56313 | 111 | 41 | 56313 | 111 | 111 | 111 | 41 | 56313 | 0 | 0 | 59039 | 59039 | |
| | 21 | 42 | -10 | 31 | 42583 | 61 | 56361 | -13 | 31 | 48 | 56361 | 112 | 31 | 56361 | 112 | 112 | 112 | 31 | 56361 | 0 | 0 | 59152 | 59152 | |
| | 22 | 43 | 0 | 43 | 42626 | 61 | 56422 | 0 | 43 | 48 | 56422 | 112 | 43 | 56422 | 112 | 112 | 112 | 43 | 56422 | 0 | 0 | 59264 | 59264 | |
| | 23 | 44 | 0 | 44 | 42670 | 61 | 56483 | 0 | 44 | 61 | 56483 | 111 | 44 | 56483 | 111 | 111 | 111 | 44 | 56483 | -34 | -34 | 59341 | 59341 | |
| | 24 | 46 | 0 | 46 | 42716 | 61 | 56530 | -13 | 46 | 47 | 56530 | 112 | 46 | 56530 | 112 | 112 | 112 | 46 | 56530 | 1 | 1 | 59453 | 59453 | |
| 14 | 1 | 46 | -10 | 36 | 42752 | 61 | 56591 | 0 | 36 | 61 | 56591 | 112 | 36 | 56591 | 112 | 112 | 112 | 36 | 56591 | 0 | 0 | 59565 | 59565 | |
| | 2 | 47 | 0 | 47 | 42799 | 61 | 56651 | 0 | 47 | 61 | 56651 | 112 | 47 | 56651 | 112 | 112 | 112 | 47 | 56651 | 0 | 0 | 59678 | 59678 | |
| | 3 | 48 | 0 | 49 | 42847 | 60 | 56698 | -13 | 48 | 47 | 56698 | 112 | 48 | 56698 | 112 | 112 | 112 | 48 | 56698 | 0 | 0 | 59791 | 59791 | |
| | 4 | 50 | 0 | 50 | 42897 | 60 | 56738 | 0 | 50 | 60 | 56738 | 112 | 50 | 56738 | 112 | 112 | 112 | 50 | 56738 | -33 | -33 | 59869 | 59869 | |
| | 5 | 50 | -10 | 40 | 42937 | 60 | 56819 | 0 | 40 | 61 | 56819 | 112 | 40 | 56819 | 112 | 112 | 112 | 40 | 56819 | 0 | 0 | 59981 | 59981 | |
| | 6 | 51 | 0 | 51 | 42968 | 60 | 56865 | -13 | 51 | 46 | 56865 | 113 | 51 | 56865 | 113 | 113 | 113 | 51 | 56865 | 0 | 0 | 60095 | 60095 | |
| | 7 | 53 | 0 | 53 | 43041 | 60 | 56925 | 0 | 53 | 49 | 56925 | 98 | 53 | 56925 | 98 | 98 | 98 | 53 | 56925 | 0 | 0 | 60208 | 60208 | |
| | 8 | 54 | -3 | 51 | 43092 | 60 | 56971 | -12 | 54 | 47 | 56971 | 85 | 54 | 56971 | 85 | 85 | 85 | 54 | 56971 | -72 | -72 | 60233 | 60233 | |
| | 9 | 54 | -10 | 54 | 43135 | 61 | 57033 | 0 | 54 | 61 | 57033 | 84 | 54 | 57033 | 84 | 84 | 84 | 54 | 57033 | 0 | 0 | 60316 | 60316 | |
| | 10 | 54 | 0 | 54 | 43189 | 61 | 57094 | 0 | 54 | 51 | 57094 | 85 | 54 | 57094 | 85 | 85 | 85 | 54 | 57094 | 0 | 0 | 60436 | 60436 | |
| | 11 | 54 | 0 | 54 | 43238 | 60 | 57150 | -13 | 54 | 60 | 57150 | 87 | 54 | 57150 | 87 | 87 | 87 | 54 | 57150 | 0 | 0 | 60524 | 60524 | |
| | 12 | 54 | 0 | 54 | 43298 | 60 | 57200 | 0 | 54 | 60 | 57200 | 87 | 54 | 57200 | 87 | 87 | 87 | 54 | 57200 | 34 | 34 | 60624 | 60624 | |
| | 13 | 54 | 0 | 54 | 43352 | 60 | 57260 | 0 | 54 | 59 | 57260 | 88 | 54 | 57260 | 88 | 88 | 88 | 54 | 57260 | 0 | 0 | 60734 | 60734 | |
| | 14 | 54 | -10 | 42 | 43394 | 60 | 57320 | 0 | 42 | 60 | 57320 | 88 | 42 | 57320 | 88 | 88 | 88 | 42 | 57320 | 34 | 34 | 60841 | 60841 | |
| | 15 | 52 | 0 | 52 | 43467 | 60 | 57379 | 0 | 52 | 60 | 57379 | 89 | 52 | 57379 | 89 | 89 | 89 | 52 | 57379 | 0 | 0 | 60954 | 60954 | |
| | 16 | 52 | 0 | 52 | 43499 | 59 | 57430 | 0 | 52 | 59 | 57430 | 89 | 52 | 57430 | 89 | 89 | 89 | 52 | 57430 | 0 | 0 | 60981 | 60981 | |
| | 17 | 52 | 0 | 52 | 43551 | 59 | 57498 | 0 | 52 | 59 | 57498 | 90 | 52 | 57498 | 90 | 90 | 90 | 52 | 57498 | 34 | 34 | 61065 | 61065 | |
| | 18 | 52 | 0 | 52 | 43604 | 59 | 57557 | 0 | 52 | 59 | 57557 | 90 | 52 | 57557 | 90 | 90 | 90 | 52 | 57557 | 34 | 34 | 61189 | 61189 | |
| | 19 | 52 | 0 | 52 | 43656 | 59 | 57616 | 0 | 52 | 59 | 57616 | 90 | 52 | 57616 | 90 | 90 | 90 | 52 | 57616 | -34 | -34 | 61265 | 61265 | |
| | 20 | 52 | -10 | 41 | 43696 | 59 | 57662 | -12 | 41 | 46 | 57662 | 90 | 41 | 57662 | 90 | 90 | 90 | 41 | 57662 | 0 | 0 | 61335 | 61335 | |
| | 21 | 51 | 0 | 51 | 43747 | 59 | 57720 | 0 | 51 | 59 | 57720 | 91 | 51 | 57720 | 91 | 91 | 91 | 51 | 57720 | 1 | 1 | 61428 | 61428 | |
| | 22 | 51 | 0 | 51 | 43798 | 59 | 57779 | 0 | 51 | 59 | 57779 | 92 | 51 | 57779 | 92 | 92 | 92 | 51 | 57779 | 0 | 0 | 61519 | 61519 | |
| | 23 | 51 | 0 | 51 | 43849 | 59 | 57838 | 0 | 51 | 59 | 57838 | 92 | 51 | 57838 | 92 | 92 | 92 | 51 | 57838 | 0 | 0 | 61610 | 61610 | |
| | 24 | 51 | 0 | 51 | 43899 | 59 | 57897 | 0 | 51 | 59 | 57897 | 92 | 51 | 57897 | 92 | 92 | 92 | 51 | 57897 | 0 | 0 | 61705 | 61705 | |
| 14 | 24 | 49 | 0 | 49 | 43950 | 59 | 57956 | 0 | 49 | 59 | 57956 | 92 | 49 | 57956 | 92 | 92 | 92 | 49 | 57956 | 0 | 0 | 61794 | 61794 | |
| 15 | 1 | 51 | 0 | 51 | 44001 | 59 | 58015 | 0 | 51 | 59 | 58015 | 92 | 51 | 58015 | 92 | 92 | 92 | 51 | 58015 | 0 | 0 | 61886 | 61886 | |
| | 2 | 51 | 0 | 51 | 44051 | 59 | 58074 | 0 | 51 | 59 | 58074 | 92 | 51 | 58074 | 92 | 92 | 92 | 51 | 58074 | 0 | 0 | 61976 | 61976 | |
| | 3 | 49 | -10 | 39 | 44088 | 59 | 58133 | 0 | 39 | 59 | 58133 | 93 | 39 | 58133 | 93 | 93 | 93 | 39 | 58133 | 0 | 0 | 62070 | 62070 | |
| | 4 | 50 | 0 | 49 | 44137 | 59 | 58193 | 0 | 49 | 59 | 58193 | 93 | 49 | 58193 | 93 | 93 | 93 | 49 | 58193 | 0 | 0 | 62163 | 62163 | |
| | 5 | 49 | 0 | 49 | 44186 | 59 | 58252 | 0 | 49 | 59 | 58252 | 100 | 49 | 58252 | 100 | 100 | 100 | 49 | 58252 | 0 | 0 | 62256 | 62256 | |
| | 6 | 49 | 0 | 49 | 44235 | 59 | 58298 | 0 | 49 | 45 | 58298 | 107 | 49 | 58298 | 107 | 107 | 107 | 49 | 58298 | -6 | -6 | 62346 | 62346 | |
| | 7 | 49 | 0 | 49 | 44283 | 58 | 58356 | -13 | 49 | 45 | 58356 | 107 | 49 | 58356 | 107 | 107 | 107 | 49 | 58356 | 0 | 0 | 62436 | 62436 | |
| | 8 | 49 | 0 | 49 | 44331 | 58 | 58415 | 0 | 49 | 45 | 58415 | 107 | 49 | 58415 | 107 | 107 | 107 | 49 | 58415 | 0 | 0 | 62526 | 62526 | |

S-650 - S-65E

S-65C - S-65D

S-65H - S-65C

| DAY HOUR | QU-QU | | DSTORE | | QLAT | | SUM | | QU-QU | | LSTORE | | QLAT | | SUM | |
|----------|-------|-----|--------|----|------|--------|-----|--------|-------|-----|--------|--------|------|--|-----|--|
| | AF | | AF | | AF | | AF | | AF | | AF | | AF | | AF | |
| 15 | 9 | 48. | -10. | 0. | 38. | 44321. | 59. | 54615. | 10. | -3. | 73. | 62636. | | | | |
| | 10 | 48. | 0. | 0. | 48. | 44369. | 60. | 54675. | 10. | -3. | 71. | 62707. | | | | |
| | 11 | 48. | -10. | 0. | 37. | 44406. | 60. | 54638. | 10. | 0. | 10. | 62611. | | | | |
| | 12 | 47. | 0. | 0. | 47. | 44453. | 61. | 54692. | 10. | -3. | 76. | 62681. | | | | |
| | 13 | 47. | 0. | 0. | 47. | 44501. | 61. | 54657. | 10. | -0. | 103. | 62984. | | | | |

7.12 Basis for Developing the Limits.

Maximum allowable gate opening

| <u>Structure</u> | <u>Reference</u> | | |
|------------------|-------------------|-------|---------|
| 65E | Curve from C of E | SAJWS | 8-6-64 |
| 65D | Curve from C of E | SAWJS | 8-6-64 |
| 65C | " | " | 7-29-64 |
| 65B | " | " | 8-5-64 |

Discharge Nomographs - submerged controlled

| | | |
|-------|----------------------|--------------|
| S-65C | Received from C of E | 23 Sept 1964 |
| S-65D | " | " |
| S-65E | " | " |
| S-65B | " | " |

These discharges must be associated with allowable gate openings.

Apron elevation used as "A" in computation of approximate straight line equation was from "As Built" plans.

Maximum head from C of E Operations Manual.

Tieback heights from plans.

Headwater elevation at S-65B from Operations Manual, page 0-44, December 1968.

Table 1. Pertinent information concerning rainfall stations in the lower Kissimmee River Basin and its neighboring areas.

| Rainfall Station | Coordinates | | Record Length | Responsible Agency | Maximum Daily Rainfall (inches) | Daily Average Rainfall (inches) |
|----------------------------|-------------|---------------|--------------------|--------------------|---------------------------------|---------------------------------|
| | East-West X | North-South Y | | | | |
| Structure 65 | 435,300 | 1,261,500 | March 65 - Dec. 70 | FCD | 4.86 | 0.1321 |
| Indian Lake Forestry Tower | 393,700 | 1,255,250 | Jan. 69 - Dec. 70 | FCD | 6.48 | 0.1908 |
| Yeehaw Jct.-7W | 426,800 | 1,173,100 | June 65 - Dec. 70 | FCD | 6.00 | 0.1233 |
| Structure 65A | 454,200 | 1,206,900 | Sept. 69 - Dec. 70 | FCD | 6.10 | 0.1298 |
| Lake Arbuckle | 377,400 | 1,210,700 | Apr. 65 - Dec. 70 | FCD | 7.80 | 0.1181 |
| Avon Park Bombing Range | 413,900 | 1,200,100 | Aug. 66 - Dec. 70 | FCD | 5.83 | 0.1241 |
| Structure 65B | 436,1000 | 1,151,600 | May 65 - Dec. 70 | FCD | 7.15 | 0.1207 |
| Ft. Pierce-3W | 696,200 | 1,120,400 | Jan. 65 - Dec. 70 | FCD | 4.50 | 0.1490 |
| Structure 65C | 482,400 | 1,114,600 | June 66 - Dec. 70 | FCD | 4.38 | 0.1214 |
| Structure 68 | 454,700 | 1,092,100 | Feb. 65 - Dec. 70+ | FCD | 5.45 | 0.1174 |
| Highland Park Estates | 395,300 | 1,081,100 | June 65 - Dec. 70 | FCD | 5.12 | 0.1347 |
| Structure 65D | 494,600 | 1,082,300 | Feb. 65 - Dec. 70 | FCD | 6.55 | 0.1298 |
| Okeechobee Fld. Station | 567,900 | 1,061,400 | Jan. 65 - Dec. 70 | FCD | 4.33 | 0.1442 |
| Structure 65E | 509,500 | 1,051,100 | Nov. 64 - Dec. 70 | FCD | 3.64 | 0.1279 |
| Brighton | 467,800 | 1,049,700 | Jan. 65 - Dec. 70 | FCD | 7.30 | 0.1421 |
| H.G.S.#6 | 555,600 | 1,044,200 | 1919 to date | USWB | 3.78* | 0.1740* |
| Rocking K Ranch | 533,400 | 1,177,200 | Jan. 70 - Dec. 70 | FCD | 2.92 | 0.0992 |
| Avon Park | 340,700 | 1,181,300 | 1898 to date | USWB | 5.51* | 0.1439* |
| Cornwell-4NW | 446,100 | 1,115,400 | 1955 to date | USWB | 4.08* | 0.1050* |
| Lake Placid-2SW | 378,600 | 1,080,600 | 1933-1968 | USWB | 5.27** | 0.1308** |
| Fort Drum | 538,400 | 1,173,100 | 1956 to date | USWB | 8.56* | 0.128* |

+May-Oct. 70 missing

X-values are in terms of East Zone of Florida coordinates.

FCD-Central & Southern Florida Flood Control District

USWB-means United States Weather Bureau

*-refers to the values obtained using the records of length Jan. 1961 thru Dec. 1970

**-refers to the values obtained using the records of length Jan. 1961 thru Dec. 1968.

Table 2. Discharge Equations for S-65B, S-65C, S-65D and S-65E

| Structure Name | Discharge Equations | Coefficient of determination, R^2 | Mean Squared Error | Standard error of estimates b c |
|----------------|--|-------------------------------------|--------------------|---|
| S-65B | $Q = 160.77(GO)^{1.0029}(EH)^{0.4979}$ | 0.9999 | 0.00012 | 0.0012 0.0010 |
| S-65C | $Q = 162.39(GO)^{0.9917}(EH)^{0.4982}$ | 0.9997 | 0.00058 | 0.0027 0.0020 |
| S-65D | $Q = 162(GO)^{0.994}(EH)^{0.5}$ | 0.9998 | 0.00027 | 0.0019 0.0015 |
| S-65E | $Q = 159.17(GO)^{1.002}(EH)^{0.5079}$ | 0.9998 | 0.00025 | 0.0018 0.0027 |

Table 3. Data for Estimating Minimum Depth (Y5)

| <u>Y5/GOAV</u> | <u>F1</u> | <u>S</u> |
|----------------|-----------|----------|
| 1.0 | 1.1 | 1.0 |
| 1.0 | 1.1 | 1.5 |
| 0.0 | 1.1 | 2.0 |
| 1.25 | 1.2 | 1.0 |
| 1.30 | 1.2 | 1.5 |
| 0.5 | 1.2 | 2.0 |
| 1.4 | 1.3 | 1.0 |
| 1.5 | 1.3 | 1.5 |
| 1.0 | 1.3 | 2.0 |
| 2.0 | 1.5 | 1.0 |
| 2.4 | 1.5 | 1.5 |
| 2.0 | 1.5 | 2.0 |
| 2.5 | 1.7 | 1.0 |
| 3.0 | 1.7 | 1.5 |
| 2.7 | 1.7 | 2.0 |
| 2.7 | 1.8 | 1.0 |
| 3.4 | 1.8 | 1.5 |
| 3.4 | 1.8 | 2.0 |
| 3.25 | 2.0 | 1.0 |
| 4.25 | 2.0 | 1.5 |
| 4.4 | 2.0 | 2.0 |

Table 4. Data for Estimating Length of Eddy Region (EL)

| $\frac{EL}{H}$ | $\frac{H}{GOAV}$ |
|----------------|------------------|
| 6.9 | 0.1 |
| 3.73 | 1.0 |
| 3.73 | 1.0 |
| 3.3482 | 1.792 |
| 2.2644 | 6.0218 |
| 2.4154 | 6.0218 |
| 2.9438 | 3.312 |
| 2.9438 | 3.312 |
| 2.8683 | 3.312 |
| 2.36 | 3.4 |
| 2.3 | 4.2 |
| 2.0 | 5.0 |
| 2.05 | 5.4 |
| 1.9 | 6.12 |
| 2.05 | 6.5 |
| 1.7 | 10.0 |

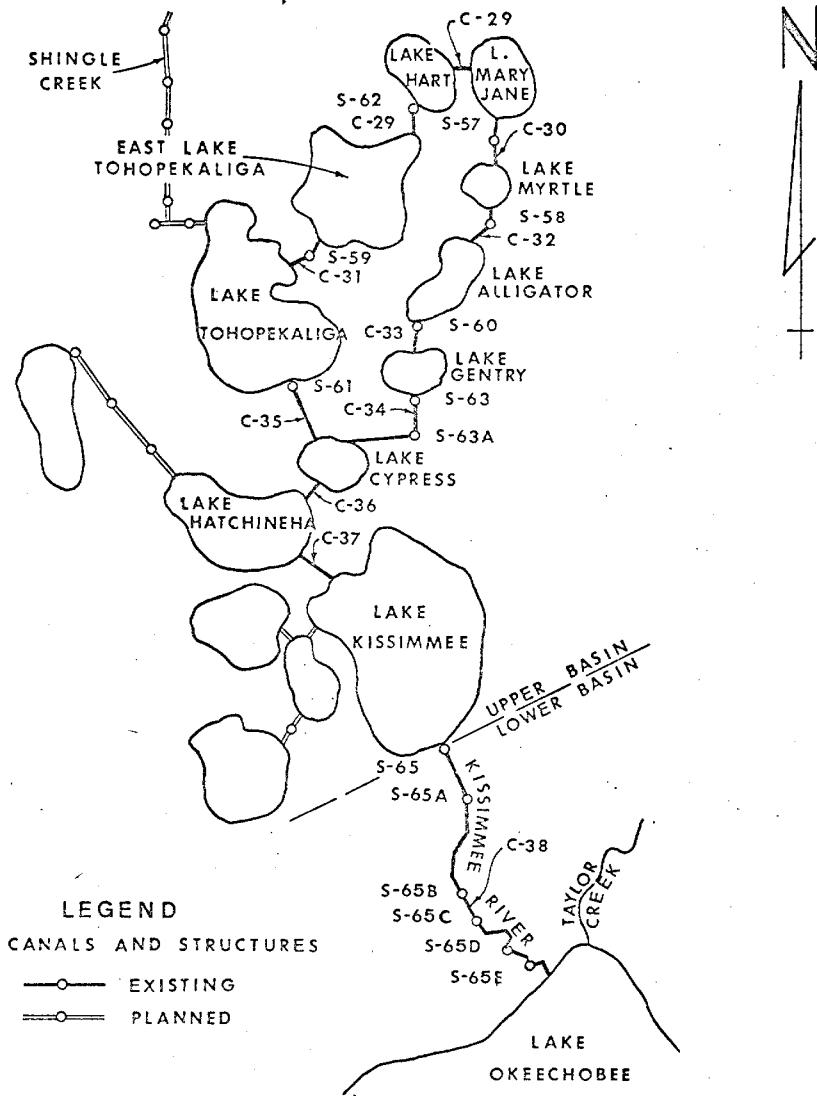
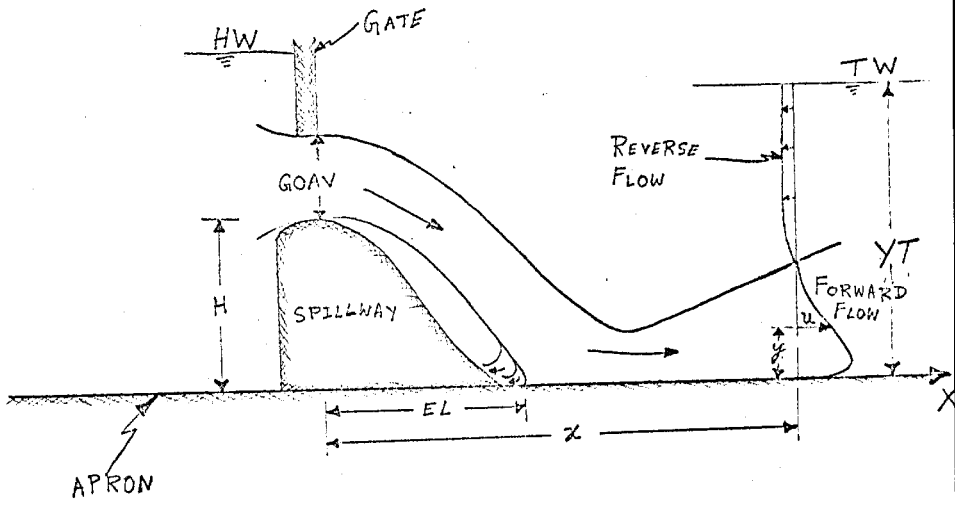
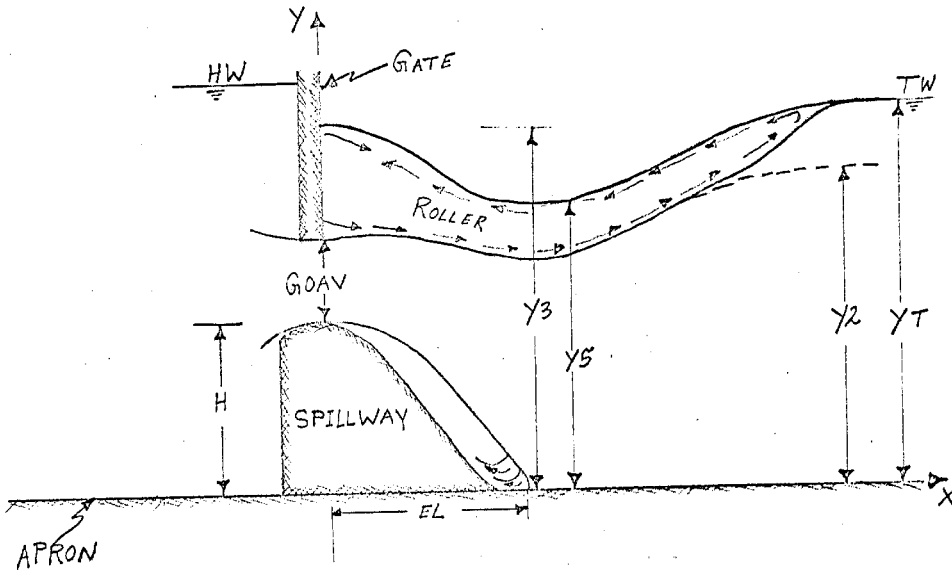


Figure 1. KISSIMMEE RIVER BASIN



a. Jet View Point



b. Hydraulic Jump View Point

Figure 2. Conceptual Definition of Energy Dissipation Phenomena

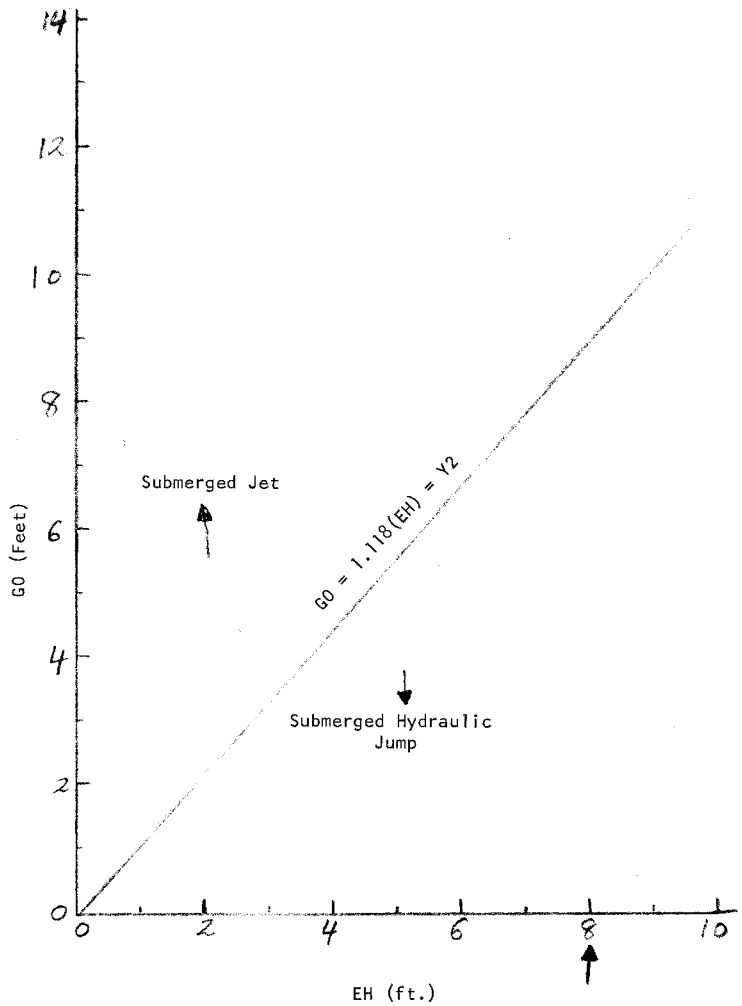


Figure 3. Graphical Representation of Equation 12 (S-65D)

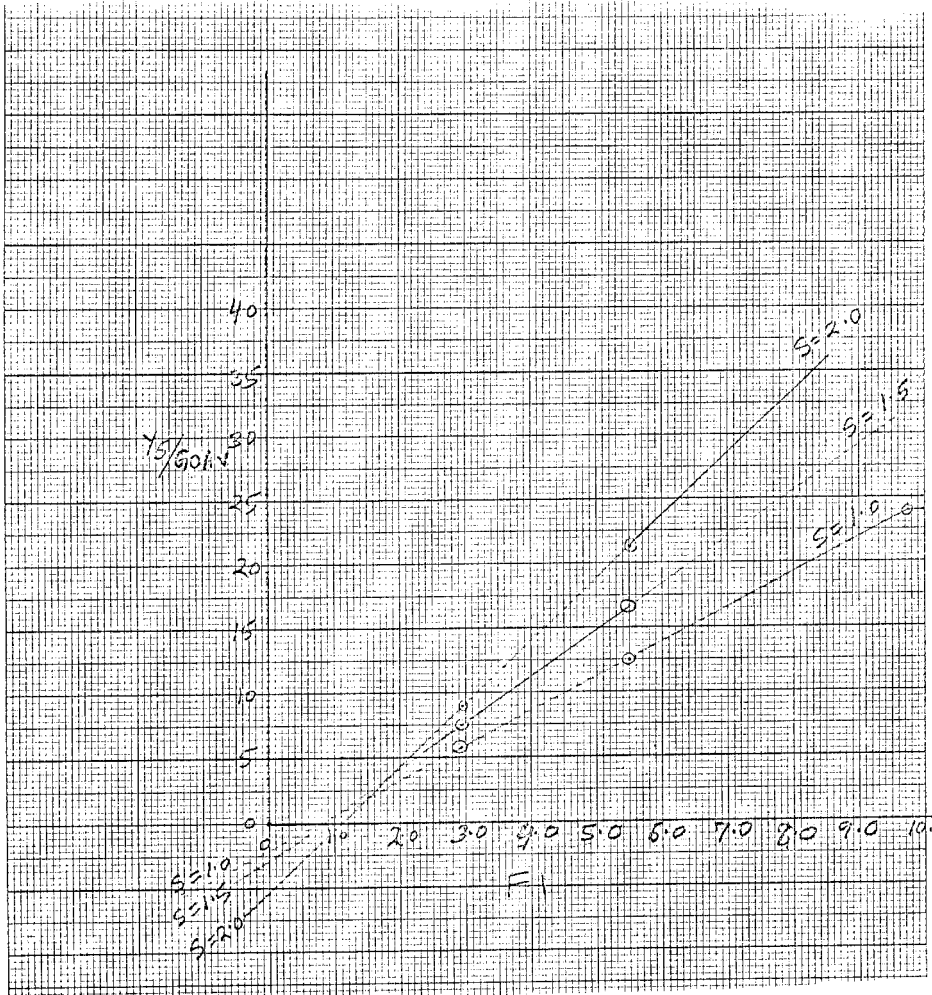


Figure 4. A Plot of $Y5/GOAV$ vs. $F1$

