

DETAILED OPERATING PLAN FOR COLUMBIA RIVER TREATY STORAGE

1 AUGUST 1994
THROUGH 31 JULY 1995



COLUMBIA RIVER TREATY OPERATING COMMITTEE

AUGUST 1994

Table of Contents

| | |
|---|----|
| 1. REFERENCES AND INTERPRETATION | 1 |
| 2. PREPARATION AND SCOPE | 2 |
| 3. OPERATING RULE CURVE | 3 |
| 4. OPERATIONS..... | 5 |
| 5. SCHEDULING STORAGE REGULATION | 6 |
| 6. PROVISIONAL DRAFT | 9 |
| 7. OPERATING LIMITS | |
| a. <u>Duncan Project</u> | 10 |
| b. <u>Arrow Project</u> | 11 |
| c. <u>Mica Project</u> | 11 |
| d. <u>Libby Project</u> | 15 |
| Exhibit 1 - Assured Refill Curve | 16 |
| Exhibit 2 - First Year Critical Rule Curve for 1994-95..... | 17 |
| Exhibit 3 - Second Year Critical Rule Curve for 1994-95 | 18 |
| Exhibit 4 - Third Year Critical Rule Curve for 1994-95 | 19 |
| Exhibit 5 - Fourth Year Critical Rule Curve for 1994-95..... | 20 |
| Exhibit 6 - Lower Limit for Operating Rule Curve | 21 |
| Exhibit 7 - 1994-95 Variable Refill Curve Procedures | 22 |
| Exhibit 8 - Critical Rule Curves and Assured Refill Curves for Libby Reservoir for 1994-95..... | 23 |
| Exhibit 9 - Coordinated System Loads and Resources | 24 |
| Exhibit 10 - Second Year Critical Rule Curve for 1995-96..... | 25 |
| Exhibit 11 - Third Year Critical Rule Curve for 1996-97 | 26 |
| Exhibit 12 - Fourth Year Critical Rule Curve for 1997-98..... | 27 |
| Exhibit 13 - Duncan Reservoir Capacity Table..... | 28 |
| Exhibit 14 - Arrow Lakes Reservoir Capacity Table | 32 |
| Exhibit 15 - Mica Reservoir Capacity Table | 35 |
| Exhibit 16 - Libby Reservoir Capacity Table | 42 |

DETAILED OPERATING PLAN FOR COLUMBIA RIVER TREATY STORAGE 1 AUGUST 1994 THROUGH 31 JULY 1995

1. REFERENCES AND INTERPRETATION

In this document:

- a. "Principles and Procedures" means the document "Principles and Procedures for the Preparation and Use of Hydroelectric Operating Plans," dated December 1991.
- b. "Assured Operating Plan" (AOP) means the document "Columbia River Treaty Hydroelectric Operating Plan-Assured Operating Plan for Operating Year 1994-1995," dated January 1991.
- c. "Alternative Operating Plan" (AltOP) means the document "Columbia River Treaty Hydroelectric Operating Plan Options for Development of the Detailed Operating Plan for Operating Year 1994-1995," dated January 1991.
- d. "Flood Control Plan" means the document "Columbia River Treaty Flood Control Operating Plan," October 1972.
- e. "Operating Year" means the period from 1 August 1994 through 31 July 1995.
- f. "Operating Committee" means the Columbia River Treaty Operating Committee.
- g. "Detailed Operating Plan" (DOP) means a detailed operating plan prepared for the Operating Year by the Operating Committee pursuant to the Principles and Procedures and consisting of the contents of this document.
- h. "Runoff Volume Forecast Program for Canadian Columbia River Treaty Reservoirs" means the document of that title dated 15 August 1969, with subsequent modifications as agreed by the Operating Committee.
- i. "Actual Energy Regulation" (AER) means the simulated hydroregulation study required by the Pacific Northwest Coordination Agreement (PNCA), which is performed by the Pacific Northwest Coordinating Group (PNCG), and reflects actual streamflow conditions.
- j. "Refill Studies" means multi-water-year hydroregulations that determine the Power Discharge Requirements used in the calculation of the Assured Refill Curves and the Variable Refill Curves.
- k. "Option Agreement" means the "Columbia River Treaty Entity Agreement on the AOP, Determination of Downstream Power Benefits (DDPB) and Options for Development of the DOP for the 1994-95 Operating Year.

2. PREPARATION AND SCOPE

This Detailed Operating Plan has been developed from the Northwest Power Pool PNCA Final Regulation for the 1994-95 Operating Year. System load and resource estimates, duration of critical period, flood control and other criteria have been reviewed and revised in accordance with the Principles and Procedures as necessary. The Critical Period duration is 42 months extending from 1 September 1994 through 28 February 1998 with hydro capability based on the 1928-29 through 1931-32 water years.

The data, criteria, and procedures presented herein will be used as described for the formation and use of Operating Rule Curves for each of the Canadian storage reservoirs, Duncan, Arrow, and Kinbasket Lake (Mica), and for the whole of Canadian storage as well as Lake Kocanusa (Libby).

The Entity agreement on the DDPB for Operating Year 1994-95 indicated that the U.S. Entity is entitled to receive 2.0 MW of energy but no dependable capacity from British Columbia Hydro and Power Authority during the period 1 August 1994 through 31 March 1995, in accordance with Sections 7 and 10 of the Canadian Entitlement Purchase Agreement dated 13 August 1964. The Entity agreement on the Determination of Downstream Power Benefits for Operating Year 1995-96, indicated that the U.S. Entity is entitled to receive from British Columbia Hydro and Power Authority during the period 1 April 1995 through 31 July 1996, no dependable capacity and 2.0 MW of energy in accordance with Sections 7 and 10 of the Canadian Entitlement Purchase Agreement dated 13 August 1964. Suitable arrangements for delivery of this energy will be made between the Bonneville Power Administration and British Columbia Hydro and Power Authority.

The usable Columbia River Treaty storage space available for power purposes during the Operating Year is 15.5 million acre-feet in Canada and 4.9795 million acre-feet at Libby in the United States, distributed as follows:

Duncan Reservoir

1.4 million acre-feet (705.8 thousand second-foot-days) between elevations 1892.0 feet and 1794.2 feet measured at Duncan forebay. (Based on B.C. Hydro table dated 21 February 1973.)

Arrow Reservoir

7.1 million acre-feet (3579.6 thousand second-foot-days) between elevations 1444.0 feet and 1377.9 feet measured at Fauquier, B.C. (Based on B.C. Hydro table dated 28 February 1974.)

Kinbasket Lake (Mica)

7.0 million acre-feet (3529.2 thousand second-foot-days) measured at Mica forebay. (Based on B.C. Hydro table dated 25 March 1974.)

Lake Kocanusa (Libby)

4.9795 million acre-feet (2510.5 thousand second-foot-days) between elevation 2459.0 feet and 2287.0 feet measured at Libby forebay.

The usable Canadian storage available for normal flood-control purposes for the Operating Year is 1.27 million acre-feet in Duncan Reservoir below elevation 1892.0 feet; 5.1 million acre-feet in Arrow Reservoir below elevation 1444.0 feet; and 2.08 million acre-feet in Kinbasket Lake (Mica Reservoir) except that additional storage may also be operated for flood control purposes under special circumstances, as described in the Flood Control Plan. The foregoing assumes a 2.0 million acre-feet transfer of flood-control storage from Arrow Reservoir to Kinbasket Lake as detailed in the Flood Control Plan.

3. OPERATING RULE CURVE

The Operating Rule Curve for the whole of Canadian Storage shall be the sum of the Operating Rule Curves for each of Duncan, Arrow, and Mica. The Operating Rule Curve for each of the Duncan, Arrow, and Mica Reservoirs during the period 1 August 1994 through 31 July 1995 is determined in accordance with the reference documents of Section 1, and is defined as follows:

- a. During the period 1 August 1994 through 31 December 1994, it is the higher of the First Critical Rule Curve or the Assured Refill Curve.
- b. During the period 1 January 1995 through 31 July 1995 it is the higher of the First Critical Rule Curve or the Assured Refill Curve, unless the Variable Refill Curve is below the higher of the above two curves; then it is defined by the Variable Refill Curve.
- c. During the period 1 January 1995 through 31 March 1995 it will not be lower than a Limiting Rule Curve designed to protect firm loads with recurrence of 1936-37 hydro conditions unless a lower reservoir elevation is required for flood control (Exhibit 6).
- d. During any period in the 1994-95 Operating Year, it will not be higher than the Upper Rule Curve, defined as the maximum elevation of each reservoir established by flood control requirements and may be modified on mutual agreement for construction and other contingency requirements.
- e. Operation of Mica will be in accordance with the monthly average outflows tabulated with specified qualifications under Operating Limits. The obligation to operate Mica to produce optimum benefits in Canada and downstream in the United States will be deemed to have been fulfilled by operating to these criteria.
- f. The Variable Refill Curves for Duncan and Mica shall be constructed based on the power discharge requirement specified in Exhibit 7.

- g. The Variable Refill Curve for Arrow shall be constructed as specified below:**
- (1) If the projected live Mica storage content at the end of the current month using most likely Mica inflow and target outflows (expected live Mica storage content) is less than that computed for the Variable Refill Curve for Mica, the Variable Refill Curve for Arrow will be calculated using the Arrow Local Inflow Method as follows.**
 - (a) The forecast volume of inflow for Arrow will exclude the volume of inflow above the Mica project (Arrow local inflow). This volume will be reduced by a forecast error such that there is a 95 percent probability that the reduced forecast is equaled or exceeded.**
 - (b) The total Mica target outflow as specified in 7c will be added to the forecast volume described in (a) above.**
 - (c) In computing water available for refill of Arrow Reservoir the power discharge requirements for Arrow as specified in Exhibit 7 will be deducted from the volume calculated in (b).**
 - (d) For the purpose of calculating the rule curve for the whole of Canadian storage, the Variable Refill Curve for Mica will be set equal to the expected live Mica Treaty storage content.**
 - (2) If the expected live Mica storage content is greater than that computed for the Variable Refill Curve for Mica, the Variable Refill Curve for Arrow will be computed using the Arrow Total Inflow Method, i.e., the forecast volume of inflow above the Mica project will be included. The space in Mica to be deducted from the Arrow total inflow will be equal to the amount of storage draft determined by the Operating Rule Curve for Mica as defined in paragraphs 3b and 3c.**

The Operating Rule Curve for Libby Reservoir is defined in a manner similar to that for Canadian storage.

4. OPERATIONS

a. The operation of Treaty storage by the Columbia River Treaty Operating Committee during the period 1 August 1994 through 31 July 1995 will be in accordance with the reference documents of Section 1, and the following operating guides:

- | | |
|---|-----------|
| (1) Assured Refill Curve for Duncan, Arrow, Mica. | Exhibit 1 |
| (2) First Critical Rule Curve for Duncan, Arrow, Mica, and the whole of Canadian storage. | Exhibit 2 |
| (3) Second Critical Rule Curve for Duncan, Arrow, Mica, and the whole of Canadian storage. | Exhibit 3 |
| (4) Third Critical Rule Curve for Duncan, Arrow, Mica, and the whole of Canadian storage. | Exhibit 4 |
| (5) Fourth Critical Rule Curve for Duncan, Arrow, Mica, and the whole of Canadian storage. | Exhibit 5 |
| (6) Lower Limit for Operating Rule Curve based on 1936-37 Hydro Conditions. | Exhibit 6 |
| (7) Variable Refill Curve Procedures. | Exhibit 7 |
| (8) The First, Second, Third, and Fourth Critical Rule Curves and Assured Refill Curve for Libby. | Exhibit 8 |
| (9) Coordinated System Loads and Resources | Exhibit 9 |

b. The following tables, including adjustments, have been agreed to by the Entities:

- | | |
|--|------------|
| (1) Second Critical Rule Curves for Duncan, Arrow, Mica, and the whole of Canadian storage for Operating Year 1995-96. | Exhibit 10 |
| (2) Third Critical Rule Curves for Duncan, Arrow, Mica, and the whole of Canadian storage for Operating Year 1996-97. | Exhibit 11 |
| (3) Fourth Critical Rule Curves for Duncan, Arrow, Mica, and the whole Canadian storage for Operating Year 1997-98. | Exhibit 12 |

- c. The following tables shall be considered to be the official storage for the projects:
- | | | |
|-----|---|------------|
| (1) | Duncan Reservoir Capacity Table (based on B.C. Hydro table dated 21 February 1973). | Exhibit 13 |
| (2) | Arrow Reservoir Capacity Table (based on B.C. Hydro Combined Storage Table dated 28 February 1974). | Exhibit 14 |
| (3) | Mica Reservoir Capacity Table (based on B.C. Hydro table dated 25 March 1974). | Exhibit 15 |
| (4) | Libby Storage above elevation 2287 feet. | Exhibit 16 |

5. SCHEDULING STORAGE REGULATION

- a. The Operating Committee will exchange all current operating data necessary for the regulation of Canadian storage projects as soon as available, including the beginning and end of the flood control season.
- b. Seasonal runoff volume forecasts for Canadian Treaty Projects shall be made available by the Canadian Section no later than the seventh of each month, as required. Forecasts of seasonal runoff volume at periods other than those representing month-end conditions may be requested by the Operating Committee if hydrologic conditions warrant. Preliminary seasonal runoff volume forecasts for the Columbia River at The Dalles, Oregon, shall be made available by the U.S. Section on the second working day of each month as required.
- c. Unless otherwise agreed, requests by the U.S. Section of the Operating Committee for the regulation of the Canadian storage content will be made to the Canadian Section on a regular basis in accordance with the following procedures:
- (1) Weekly Requests for Storage Regulation During the Storage Drawdown Season
- (a) Timing of Requests. A preliminary request will be made not later than noon each Thursday, followed by a final request by noon Friday, if necessary.

- (b) Confirmation of Requests. Confirmation of the request will be transmitted via the hydromet reporting network or fax on Friday in accordance with the following format unless otherwise agreed:

This message will confirm our verbal request of this date for the (storing/drafting) of ____ ksfd (in/from) the whole of Canadian storage for the period ____ through ____ . This request is based on an estimated average regulated inflow of ____ kcfs to Arrow Reservoir, ____ kcfs to Duncan Reservoir, ____ kcfs to Mica Reservoir, and ____ kcfs to Libby Reservoir during the above mentioned period, and an average discharge of ____ kcfs from the Arrow Project, ____ kcfs from the Duncan Project, ____ kcfs from the Mica Project, and ____ kcfs from the Libby Project.

- (c) Period Covered by Request. The period covered by the request shall be from 0800 hours on the Saturday following the date of weekly request to 0800 hours on the Saturday a week later. Changes from the previous week's request shall commence at 0800 hours on Saturday, or as soon thereafter as permitted by the limits of 7b(7).
- (d) Release Determination. The amount of water released or stored during the period of the request will be determined by the changes in reservoir contents based on the recorded lake stage and storage capacity tables for Duncan (Exhibit 13), Arrow (Exhibit 14), and Mica (Exhibit 15). The change in Arrow storage content will be determined using the recorded lake stage at the gauge near Fauquier, B.C.
- (e) Delivery. Requested storage releases will be made effective at the Canadian-United States border. The request will be deemed to have been fulfilled if the total amount of storage water requested is released from Duncan, Arrow, and Mica reservoirs, provided an amount equal to or greater than the storage water release from Duncan reservoir is concurrently discharged from Kootenay Lake.
- (f) Modification. If any modification to a written request is agreed by the Operating Committee, a further written request superseding the original written request will be dispatched immediately by the U.S. Section of the Operating Committee to the Canadian Section of the Operating Committee.
- (g) Nonroutine Operation. Any special operation which is agreed by the Operating Committee will be suitably documented.

- (2) Daily Request for Storage Regulation During Flood Control Season
- (a) Forecasts. Day-to-day streamflow forecasts will be accomplished by use of computer simulation by the Columbia River Forecasting Service. The regulation center required by the Flood Control Plan for the flood regulation will be located in the North Pacific Division Office, Corps of Engineers, Portland, Oregon.
- (b) Daily Requests for Project Outflows. Pursuant to the operating rules in the Flood Control Plan, the outflows from individual Canadian storage projects are specified on a day-to-day basis. Requests will be coordinated by telephone daily or on an as needed basis, by conference calls between members of the Operating Committee or their representatives. The requests will normally prescribe the requested outflows as a mean daily discharge in cubic feet per second, for the 24-hour period from noon to noon of each day. Daily requests for project outflows will be determined by methods as agreed upon, and documented by a message transmitted via the hydromet reporting network or fax from the Corps of Engineers, in Portland, Oregon. Acknowledgment of this request will be made by the Canadian Section of the Operating Committee or their representative via the hydromet reporting network or fax. Any modification of the documented daily request shall be agreed by the Operating Committee before being put into effect, and shall be documented immediately using the procedure described above.
- (3) Regulation During Winter Floods. Daily requests for project outflows from Canadian projects are normally confined to the flood control refill period.

During periods of high winter flows in the Lower Columbia River, if a special regulation of Arrow storage becomes necessary to preserve the natural flood control storage effect, the outflows from Arrow will be regulated on a day-to-day basis in accordance with the requests of the U.S. Section of the Operating Committee. The requests for such regulation will be in accordance with procedures described above.

- d. The weekly storage requests shall be based on operating Treaty projects to an end-of-month point between an upper limit of the Upper Rule Curve and a lower limit of the elevations contained in the PNCG's AER. The AER shall include the operating and critical rule curves and operating criteria and limits contained in this document. The Coordinated System loads and resources contained in the AER are based on the results of the PNCG reregulation of the 1992-93 Final Regulation for the third year (shown in Exhibit 9). Without further agreement, storage operation above the AER elevations shall be consistent with the 1994-95 AltOP.

6. PROVISIONAL DRAFT

- a. The 1991 Option Agreement allows the U.S. Entity to provisionally draft Treaty storage below rule curves established in the 1994-95 Alternative Operating Plan provided that the Entities agree on mutually acceptable criteria that will result in the restoration of Canadian Treaty storage similar to that which would have occurred under the 1994-95 Assured Operating Plan. The following procedures accomplish that requirement.
- b. The U.S. Entity may provisionally draft Canadian Treaty Storage below the elevations established in the AER by up to the Maximum Amount of Provisional Draft. The Maximum Amount of Provisional Draft available during any month is a function of the proportional draft point (PDP) from the AER and the following table.

Maximum Amount of Provisional Draft in Ksf

| | Aug15 | Aug31 | Sep | Oct | Nov | Dec | Jan | Feb | March | Apr15 | Apr30 | May | June | July |
|--------|-------|-------|------|------|------|------|------|------|-------|-------|-------|------|------|------|
| ECC = | -75 | -150 | -300 | -400 | -450 | -500 | -500 | -350 | -200 | -150 | -100 | -100 | -100 | 0 |
| CRC1 = | -75 | -150 | -300 | -400 | -450 | -500 | -500 | -350 | -200 | -150 | -150 | -150 | -150 | -150 |
| CRC2 = | -75 | -150 | -300 | -400 | -450 | -500 | -500 | -300 | -175 | -100 | -150 | -150 | -150 | -150 |
| CRC3 = | -75 | -150 | -300 | -400 | -450 | -500 | -400 | -250 | -175 | -100 | -100 | -150 | -150 | -150 |
| CRC4 = | -75 | -150 | -300 | -225 | -150 | -75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Empty= | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

During the months of May, June, and July, the U.S. Entity will make reasonable efforts to avoid any adverse nonpower impacts at Arrow caused by storage or return of provisional draft.

- c. Provisional draft may be requested or returned weekly at the same time as requests for Treaty storage in an amount not to exceed 35 ksf per week. The procedure for determining the weekly provisional storage transaction amount and making the request for provisional storage transactions shall parallel the method for Treaty storage requests. The provisional storage transaction shall be accounted as having occurred 50 percent at Mica and 50 percent at Arrow. Any provisional draft outstanding on July 31, 1995 shall be subject to the provisional draft procedures in the 1995-96 DOP.
- d. As full compensation for the 1994-95 provisional draft operation, including the potential delayed refill in a subsequent year, the U.S. Entity shall deliver to the Canadian Entity the shift payment identified in the Option Agreement which is 20.9 MW-years of energy and no dependable capacity, minus three (3) percent transmission losses, with a net total energy delivery of 177,591 megawatt hours. The energy shall be delivered in equal monthly amounts (based on the same monthly rate of delivery) from August 1, 1994 to July 31, 1995, to the point of interconnection between Bonneville Power Administration (BPA) and the British Columbia Hydro and Power Authority at the U.S./Canadian border near Blaine, Washington. Unless otherwise agreed, the U.S. Entity shall pre-schedule the energy deliveries each week in a shape it desires, subject to a maximum rate of delivery of 80 MW, which is based on twice an amount equal to uniform monthly delivery over the eight (8) light load hours per week day and flat on weekends. Interruptions for transmission maintenance or outages will be made up at a rate up to two times the above maximum rate. The U.S. Entity shall finalize and inform the Canadian Entity of next week's schedule of energy delivery by Friday 11:00 a.m. each week. The weekly schedule shall not be changed during the week except for unexpected outages or system emergencies. The Entities may agree to other forms of compensation for the provisional draft.
- e. The U.S. Entity grants the right to determine the timing and amount of Canadian Provisional Draft storage and return, consistent with paragraphs a through c above, to BPA, in return for BPA accepting the obligation for making the entire payment required by paragraph d above.

7. OPERATING LIMITS

a. Duncan Project

- (1) Maximum outflow is 20,000 cfs through outlets with the limit of 10,000 cfs in the AER model.
- (2) Minimum average weekly outflow is 100 cfs.
- (3) Maximum rate of change in outflow is normally 4,000 cfs per day unless a larger change is necessary to accomplish the objectives of the Flood Control Plan.
- (4) Normal full pool elevation is 1,892.0 feet.

- (5) Normal minimum pool elevation is 1,794.2 feet.
- (6) Normal maximum reservoir draft in elevation during any month is limited to the equivalent of 1 foot per day.

b. Arrow Project

- (1) Maximum outflow is physical limits only.
- (2) Minimum average weekly outflow is 5,000 cfs.
- (3) Maximum rate of change in outflow is normally 15,000 cfs per day unless a larger change is necessary to accomplish the objectives of the Flood Control Plan.
- (4) Normal full pool elevation is 1,444.0 feet
- (5) Normal minimum pool elevation is 1,377.9 feet
- (6) Normal maximum reservoir monthly draft in elevation limited to the equivalent of 1 foot per day
- (7) Advance notice for changes in outflow for:
 - (a) Drop in downstream level of
 - $\frac{1}{2}$ foot - None,
 - 1 foot - 1 hour,
 - 2 feet - 2 hours,
 - 3 feet - 24 hours, and
 - (b) Rise in downstream level of
 - $\frac{1}{2}$ foot - None,
 - 1 foot - 1 hour,
 - 2 feet - 2 hours,
 - 3 feet - 7 hours, only if notice is received before 10:00 a.m. that day, otherwise 24-hour notice is required.

c. Mica Project

In accordance with the 1994-95 AltOP, the Mica Project will be operated to the following monthly average target outflows specified in (2) below except as qualified in paragraphs 7c(3) through 7c(9).

- (1) Variable Refill Curves. Variable Refill Curves (VRC) shall be constructed based on a power discharge requirement as indicated in Exhibit 7 with 31 July Treaty storage content of 3,529.2 KSFD.
- (2) Mica Project Operating Criteria. Mica project operation will be determined by the End of Previous Period Arrow Storage Content as shown in the following table, except for the limitations or changes

required by subsection 7c(3) through 7c(9). The End of Previous Period Arrow Storage Content will be determined from the current AER. Mica's operation will be defined either by a Target End of Period Storage Content or a Target Period Average Outflow.

Mica Project Operating Criteria

| Month | End of Previous Period Storage Content (KSFD) | Target Operation | | Minimum Target Treaty Content at Mica (KSFD) | Minimum Outflow (CFS) |
|--------------|---|------------------------------|--------------------------------------|--|-----------------------|
| | | Period Average Outflow (CFS) | End of Period Storage Content (KSFD) | | |
| August 1-15 | 3,300 - Full 0 - 3,300 | --- 27,000 | 3,456.2 | 0.0 | 10,000 |
| August 16-31 | 2,400 - Full 0 - 2,400 | --- 27,000 | 3,529.2 | 0.0 | 10,000 |
| September | 2,500 - Full 0 - 2,500 | --- 27,000 | 3,529.2 | 0.0 | 10,000 |
| October | 2,900 - Full 200 - 2,900 0 - 200 | 11,000 27,000 31,000 | | 0.0 | 10,000 |
| November | 3,400 - Full 3,000 - 3,400 0 - 3,000 | 23,000 27,000 | 3,185.5 | 0.0 | 10,000 |
| December | 3,200 - Full 2,200 - 3,200 0 - 2,200 | 21,000 27,000 34,000 | --- | 756.2 | 15,000 |
| January | 2,100 - Full 0 - 2,100 | 27,000 34,000 | --- | 356.2 | 15,000 |
| February | 0 - Full | 23,000 | --- | 0.0 | 15,000 |
| March | 0 - Full | 22,000 | --- | 0.0 | 15,000 |
| April 1-15 | 0 - Full | | 156.2 | 0.0 | 15,000 |
| April 16-31 | 0 - Full | | 0.0 | 0.0 | 10,000 |
| May | 0 - Full | 10,000 | --- | 0.0 | 10,000 |
| June | 0 - Full | 10,000 | --- | 0.0 | 10,000 |
| July | 2,300 - Full 0 - 2,300 | --- 27,000 | 3,356.2 | 0.0 | 10,000 |

- (3). Mica operation to the Target End-of-Period Treaty Storage Contents shall be limited by the Minimum Outflows shown in the table above, and a maximum outflow of 34,000 cfs when the Target End-of-Period Storage Content is below 3529.2 ksf unless needed to accomplish the objectives of the Flood Control Plan.
- (4) Mica operation to the Target Period Average Outflow shall be limited by the Minimum Target Treaty Content shown in the table above. Mica outflows shall be reduced as required down to a lower limit of the Minimum Outflow shown in the table above, to prevent draft below the Minimum Target Treaty Storage Content. Minimum Outflows may cause the reservoir to draft below the Minimum Target Treaty Content.
- (5) During July, the Mica operation to the Target Period Average Outflow shall not be less than the outflow necessary to meet the Target End-of-Period Storage Content of 3356.2 ksf.
- (6) Mica outflows will be increased during the months October through June as required to avoid violation of the Upper Rule Curve.
- (7) During the period January through July, if in any month the Arrow Local Inflow Method is used to compute the Variable Refill Curve as defined in Section 3g(1), a Parallel AER using only Variable Refill Curves based on the Arrow Total Inflow Method continuously from January on will be used instead of the official AER to determine if the Arrow contents are within the limits shown above.
- (8) Each month, within two working days of determination of the final AER, normally available within the first ten days of the month, one correction to the adjusted Mica outflow may be made, consistent with (3) above.
- (9) Storage releases from Mica in excess of 7 million acre-feet (MAF) that result from operating Mica under the criteria described in 7c(2) through 7c(8) above will be retained in the Arrow reservoir, subject to flood control criteria at Arrow, and Mica will be reduced to Minimum Outflow as required to minimize releases in excess of 7 MAF. The total combined storage draft from Mica and Arrow will not exceed 14.1 million acre-feet unless flood control criteria will not permit the additional Mica storage releases for minimum flow purposes to be retained at Arrow.

d. Libby Project

- (1) Maximum Outflow - When the spillway capacity is insufficient to pass the required flow, the regulating outlets may be used.

| Forebay Elevation | One Sluice | Three Sluices |
|-------------------|------------|---------------|
| 2459 ft. | 20,300 cfs | 61,000 cfs |
| 2425 ft. | 19,000 cfs | 57,000 cfs |
| 2405 ft. | 18,200 cfs | 54,600 cfs |
| 2350 ft. | 15,500 cfs | 46,500 cfs |
| 2287 ft. | 11,700 cfs | 35,000 cfs |

- (2) Minimum instantaneous outflow is 2,000 cfs and the normal minimum daily outflow is 4,000 cfs.
- (3) Maximum rate of tailwater change
- (a) May - September - 1 ft. per hour
4 ft. per 24 hours
- (b) October - April - 1 ft. per ½ hour
6 ft. per 24 hours
- (4) Maximum CRC elevation - 2459.0 feet
- (5) Minimum CRC elevation - 2363.0 feet in December only
2287.0 feet in all other months

ASSURED REFILL CURVE

1/

| Month | DUNCAN | | | | | MICA | | | | | | ARROW | | | | | |
|-------|-----------|------|----------------------------|-------|-------|-----------|-------|---------------------------|--------|--------|--------|--------|-------|----------------------------|--------|---------------------|--------|
| | 1931 | PDR | Water Available for Refill | | ARC | 1931 | PDR | Water Available or Refill | | CRC1 | ARC | 1931 | PDR | Water Available for Refill | | MICA <u>2/</u> Fill | ARC |
| | Inflow | | CFS | KSF | | KSF | | Inflow | CFS | | | CFS | | KSF | KSF | | |
| | <u>3/</u> | CFS | CFS | KSF | CFS | <u>3/</u> | CFS | CFS | KSF | KSF | CFS | CFS | CFS | KSF | KSF | KSF | KSF |
| July | 7320 | 2000 | 5320 | 164.9 | 705.8 | 56485 | 28000 | 28490 | 883.2 | 2898.7 | 3529.2 | 88785 | 45000 | 43790 | 1357.5 | 883.2 | 3579.6 |
| June | 8030 | 2000 | 6030 | 180.9 | 540.9 | 60210 | 28000 | 32210 | 966.3 | 2127.8 | 2646.0 | 114828 | 45000 | 69830 | 2094.9 | 966.3 | 3105.3 |
| May | 5170 | 2000 | 3170 | 98.3 | 360.0 | 28081 | 25000 | 3080.0 | 95.5 | 494.6 | 1679.7 | 68060 | 40000 | 28060 | 869.9 | 95.5 | 1976.7 |
| Apr2 | 981 | 2000 | -1020 | -15.3 | 261.7 | 7230 | 23000 | -15770 | -236.6 | 34.8 | 1584.2 | 20510 | 30000 | -9490 | -142.5 | -236.6 | 1202.3 |
| Apr1 | 981 | 500 | 480 | 7.2 | 277.0 | 4676 | 23000 | -18320 | -274.8 | 324.1 | 1820.8 | 10700 | 22000 | -11300 | -169.5 | -274.8 | 1108.3 |
| Mar | 555 | 500 | 60 | 1.9 | 269.8 | 3219 | 23000 | -19780 | -613.2 | 781.1 | 2095.6 | 7694 | 18000 | -10310 | -319.6 | -613.2 | 1003.0 |
| Feb | 428 | 500 | -70 | -2.0 | 268.0 | 2592 | 20000 | -17410 | -487.5 | 1162.3 | 2708.8 | 5865 | 15000 | -9140 | -255.9 | -487.5 | 709.4 |
| Jan | 428 | 100 | 330 | 10.2 | 269.9 | 2833 | 3000 | -170 | -5.3 | 2151.9 | 3196.2 | 6476 | 5000 | 1480 | 45.9 | -5.3 | 477.8 |
| Dec | 461 | 100 | 360 | 11.2 | 259.7 | 3531 | 3000 | 530 | 16.4 | 3049.0 | 3201.5 | 6707 | 5000 | 1710 | 53.0 | -101.7 | 426.7 |
| Nov | 684 | 100 | 580 | 17.4 | 248.5 | 5174 | 3000 | 2170 | 65.1 | 3303.2 | 3185.1 | 9509 | 5000 | 4510 | 135.3 | -104.0 | 272.0 |
| Oct | 1090 | 100 | 990 | 30.7 | 231.1 | 8750 | 3000 | 5750 | 178.3 | 3407.2 | 3120.0 | 14720 | 5000 | 9720 | 301.3 | -59.7 | 32.7 |
| Sep | 2310 | 100 | 2210 | 66.3 | 200.4 | 23102 | 3000 | 20100 | 603.0 | 3466.9 | 2941.7 | 39730 | 5000 | 34730 | 1041.9 | -62.3 | 0.0 |
| Aug2 | 4530 | 100 | 4430 | 70.9 | 134.1 | 39462 | 3000 | 36460 | 583.4 | 3529.2 | 2338.7 | 62620 | 5000 | 57620 | 921.9 | 0.0 | 0.0 |
| Aug1 | 4530 | 100 | 4430 | 66.5 | 63.3 | 52243 | 3000 | 49240 | 738.6 | 3529.2 | 1755.4 | 82270 | 5000 | 77270 | 1159.1 | 0.0 | 0.0 |

Notes:

- 1/ The Assured Refill Curve indicates the end-of-month storage content required to assure refill of Canadian storage by 31 July based on 1931 historical monthly inflow. The monthly inflow at each reservoir is reduced by deducting the Power Discharge Requirements and water required for refill, if any, at upstream reservoirs. The Entities may agree to revise the data upon the completion of the Refill Studies by the U.S. Entity.
- 2/ Higher of Mica's ARC or CRC1 shown in Exhibit 2.
- 3/ Inflows are from the 1980 Level Modified Streamflow.

**FIRST CRITICAL RULE CURVE
FOR 1994-95**

(End-of-Month Usable Storage Content in 1000 SFD)

| <u>Month</u> | <u>Duncan</u> | <u>Arrow</u> | <u>Mica</u> | <u>Total</u> |
|--------------|---------------|--------------|-------------|--------------|
| August 15 | 705.8 | 3579.6 | 3529.2 | 7814.6 |
| August 31 | 705.8 | 3579.6 | 3529.2 | 7814.6 |
| September | 692.6 | 3532.6 | 3466.9 | 7692.1 |
| October | 641.7 | 3441.8 | 3407.2 | 7490.7 |
| November | 502.5 | 3301.3 | 3303.2 | 7107.0 |
| December | 407.8 | 2696.7 | 3049.0 | 6153.5 |
| January | 254.3 | 1683.1 | 2151.9 | 4089.3 |
| February | 235.1 | 901.1 | 1162.3 | 2298.5 |
| March | 129.3 | 1077.8 | 781.1 | 1988.2 |
| April 15 | 53.8 | 515.5 | 324.1 | 893.4 |
| April 30 | 58.9 | 458.9 | 34.8 | 552.6 |
| May | 167.3 | 1109.5 | 494.6 | 1771.4 |
| June | 442.1 | 2656.5 | 2127.8 | 5226.4 |
| July | 610.3 | 3428.8 | 2898.7 | 6937.8 |

Source: First-year critical rule curves are from the 1994-95 AltOP except that the April 30 rule curve for Arrow is from 1994-95 Final Regulation (FR) which is higher than AltOP rule curve by 189.5 ksf to help shaped load into May.

Note: The Mica operation in August 15 of 1994-95 Final Regulation (FR) is lower than 1994-95 AltOP by 7.1 ksf to reflect Mica Target Flow/Content operation.

**SECOND CRITICAL RULE CURVE
FOR 1994-95**

(End-of-Month Usable Storage Content in 1000 SFD)

| <u>Month</u> | <u>Duncan</u> | <u>Arrow</u> | <u>Mica</u> | <u>Total</u> |
|--------------|---------------|--------------|-------------|--------------|
| August 15 | 552.3 | 3432.7 | 3292.9 | 7277.9 |
| August 31 | 493.1 | 3399.9 | 3338.9 | 7231.9 |
| September | 383.2 | 3342.1 | 3164.6 | 6889.9 |
| October | 182.1 | 3050.2 | 2916.1 | 6148.4 |
| November | 19.9 | 2506.7 | 2446.0 | 4972.6 |
| December | 18.6 | 1766.3 | 1928.4 | 3713.3 |
| January | 9.8 | 789.3 | 874.3 | 1673.4 |
| February | 14.1 | 186.4 | 384.8 | 585.3 |
| March | 4.8 | 197.4 | 140.8 | 343.0 |
| April 15 | 16.3 | 91.5 | 27.2 | 135.0 |
| April 30 | 0.8 | 349.4 | 34.8 | 305.0 |
| May | 0.0 | 658.3 | 32.4 | 690.7 |
| June | 219.6 | 2035.6 | 1236.9 | 3492.1 |
| July | 166.6 | 3041.9 | 2618.2 | 5826.7 |

Source: The 1994-95 second-year critical rule curves are from the 1993-94 DOP and Final Regulation (FR) unless higher than the first year critical rule curve. Rule curves adjusted for cross-over are outlined for distinction.

Note: All of the 1993-94 FR second-year rule curves are the same as the 1994-95 AltOP except rule curve for Arrow in June is higher by 40.4 ksf to reduce the Coordinated System over generation.

**THIRD CRITICAL RULE CURVE
FOR 1994-95**

(End-of-Month Usable Storage Content in 1000 SFD)

| <u>Month</u> | <u>Duncan</u> | <u>Arrow</u> | <u>Mica</u> | <u>Total</u> |
|--------------|---------------|--------------|-------------|--------------|
| August 15 | 114.7 | 3282.9 | 2955.9 | 6353.5 |
| August 31 | 160.8 | 3232.0 | 3134.5 | 6527.3 |
| September | 167.2 | 3256.0 | 3099.3 | 6522.5 |
| October | 11.0 | 2982.3 | 2856.8 | 5850.1 |
| November | 10.6 | 2436.8 | 2394.6 | 4842.0 |
| December | 8.9 | 1648.0 | 1885.2 | 3542.1 |
| January | 9.8 | 789.3 | 864.0 | 1663.1 |
| February | 9.8 | 96.5 | 147.1 | 253.4 |
| March | 4.8 | 158.1 | 68.6 | 231.5 |
| April 15 | 12.5 | 91.5 | 27.2 | 131.2 |
| April 30 | 0.8 | 95.0 | 26.0 | 121.8 |
| May | 0.0 | 658.3 | 12.8 | 671.1 |
| June | 208.1 | 1226.2 | 847.4 | 2281.7 |
| July | 134.0 | 1840.7 | 1579.5 | 3554.2 |

Source: The 1994-95 third-year critical rule curves are from the 1992-93 DOP and Final Regulation (same as 1994-95 AltOP) unless higher than the first or second year critical rule curve. Rule curves adjusted for cross-over are outlined for distinction.

**FOURTH CRITICAL RULE CURVE
FOR 1994-95**

(End-of-Month Usable Storage Content in 1000 SFD)

| <u>Month</u> | <u>Duncan</u> | <u>Arrow</u> | <u>Mica</u> | <u>Total</u> |
|--------------|---------------|--------------|-------------|--------------|
| August 15 | 0.9 | 1707.9 | 1515.1 | 3223.9 |
| August 31 | 1.0 | 1482.3 | 1501.3 | 2984.6 |
| September | 2.1 | 1402.8 | 1273.8 | 2678.7 |
| October | 4.8 | 1210.6 | 886.8 | 2102.2 |
| November | 0.8 | 1296.8 | 215.5 | 1513.1 |
| December | 2.5 | 769.9 | 7.6 | 780.0 |
| January | 1.0 | 345.2 | 10.0 | 356.2 |
| February | 0.0 | 0.0 | 0.0 | 0.0 |

Source: The 1994-95 fourth-year critical rule curves are from the 1991-92 DOP (same as 1994-95 AOP) unless higher than the first, second, or third year critical rule curves.

Note: Arrow operation in August - January and Mica operation in September in the 1991-92 Final Regulation were adjusted from AOP due to the large difference between third and fourth AOP rule curves.

**LOWER LIMIT
FOR OPERATING RULE CURVE**

(End-of-Month Usable Storage Contents in 1000 SFD)

| <u>Month</u> | <u>Duncan</u> | <u>Arrow</u> | <u>Mica</u> | <u>Libby</u> |
|---------------------|----------------------|---------------------|--------------------|---------------------|
| January | 1.2 | 627.2 | 317.6 | 294.5 |
| February | 1.6 | 246.2 | 0.0 | 197.9 |
| March | 0.8 | 183.3 | 0.0 | 86.4 |

Source: ECC Lower Limits for Duncan, Arrow and Mica are from 1994-95AltOP. Libby data is from 1993-94 Lower Limits Regulation Study. The Entities may agree to revise the data upon the completion of the ECC Lower Limit Study by the PNCG.

1994-95 Variable Refill Curve Procedures

The Variable Refill Curves (VRC) indicate the end-of-month storage content required to refill Canadian storage based on forecasts of natural inflow volume. The probable forecast volume at each reservoir is reduced by deducting the 95 percent confidence forecast error, Power Discharge Requirements (PDR), and water required for refill at upstream reservoirs. The 1994-95 AOP studies made for the U.S. Coordinated System operation indicate that the PDR's for all cyclic reservoirs must be greater than project minimum release to allow filling in accordance with the Principles and Procedures coincident with carrying system firm load when the Columbia River at The Dalles natural January-July runoff volume is lower than 95 million acre-feet. The following schedule for PDR's will apply when computing the VRC's during the period January 1 through June 1, unless the Entities agree to updated study results.

POWER DISCHARGE REQUIREMENT, IN CFS FOR JANUARY-JULY VOLUME RUNOFF OF THE COLUMBIA RIVER AT THE DALLES, OREGON

| Project | Jan. | Feb. | Mar. | Apr 1-15 | Apr 16-30 | May | June | July |
|----------------------------------|------|-------|-------|----------|-----------|-------|-------|-------|
| ARC (same as 80 MAF PDRs) | | | | | | | | |
| Mica | 3000 | 20000 | 23000 | 23000 | 23000 | 25000 | 28000 | 28000 |
| Arrow | 5000 | 15000 | 18000 | 22000 | 30000 | 40000 | 45000 | 45000 |
| Duncan | 100 | 500 | 500 | 500 | 2000 | 2000 | 2000 | 2000 |
| 80 MAF | | | | | | | | |
| Mica | 3000 | 20000 | 23000 | 23000 | 23000 | 25000 | 28000 | 28000 |
| Arrow | 5000 | 15000 | 18000 | 22000 | 30000 | 40000 | 45000 | 45000 |
| Duncan | 100 | 500 | 500 | 500 | 2000 | 2000 | 2000 | 2000 |
| 90 MAF | | | | | | | | |
| Mica | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
| Arrow | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 |
| Duncan | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 95 MAF and Higher | | | | | | | | |
| Mica | 3000 | 3000 | 3000 | 10000 | 10000 | 10000 | 20000 | 25000 |
| Arrow | 5000 | 5000 | 5000 | 5000 | 10000 | 10000 | 35000 | 35000 |
| Duncan | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Libby PDRs | | | | | | | | |
| ARC | 4000 | 4000 | 4000 | 4000 | 6000 | 6000 | 6000 | 6000 |
| 80 MAF | 4000 | 4000 | 4000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| 95 MAF | 4000 | 4000 | 4000 | 5000 | 5000 | 5000 | 5000 | 5000 |
| 110 MAF | 4000 | 4000 | 4000 | 5000 | 6300 | 7500 | 7500 | 7500 |

Notes:

- (1) If the forecasted natural January through July volume runoff at The Dalles is less than 80 MAF, the Power Discharge Requirement in the 80 MAF schedule will be used. For intermediate forecasted volumes, the Power Discharge Requirement will be interpolated linearly between the values shown above.
- (2) Data is from 1994-95 AltOP for Canadian projects and from 1993-94 PNCA Refill Study for Libby. Data may be revised upon completion of the U.S. Entity Refill Studies. The Canadian Entity reserves the right to request changes to the revised data.

**CRITICAL RULE CURVES AND ASSURED REFILL CURVES
FOR LIBBY RESERVOIR
FOR 1994-95**

(End-of-Month Usable Storage Content in 1000 SFD)

| Month | Critical Rule Curves (1) | | | Assured Refill Curve | |
|-----------|--------------------------|--------|--------|----------------------|--------|
| | 1st | 2nd | 3rd | 4th | (2) |
| August 15 | 2510.5 | 2396.2 | 2233.9 | 1335.3 | 1678.1 |
| August 31 | 2510.5 | 2397.9 | 2246.9 | 1349.3 | 1727.7 |
| September | 2238.1 | 2418.7 | 1866.6 | 1360.8 | 1762.8 |
| October | 2154.3 | 2404.2 | 1732.4 | 1180.7 | 1759.4 |
| November | 1891.6 | 2067.9 | 1354.7 | 826.5 | 1730.9 |
| December | 1449.4 | 1502.4 | 779.2 | 775.9 | 1680.0 |
| January | 1393.6 | 1310.6 | 361.6 | 140.4 | 1629.2 |
| February | 1349.1 | 1275.0 | 175.9 | 0 | 1577.1 |
| March | 1199.6 | 1228.5 | 120.1 | 0 | 1524.7 |
| April 15 | 1108.4 | 1269.2 | 105.1 | 0 | 1509.7 |
| April 30 | 1036.1 | 1279.6 | 103.1 | 0 | 1477.8 |
| May | 1517.5 | 1651.2 | 559.7 | 0 | 1872.4 |
| June | 2453.4 | 2510.3 | 1009.2 | 0 | 2361.4 |
| July | 2497.6 | 2508.2 | 1220.2 | 0 | 2510.5 |

Notes:

- (1) From Pacific Northwest Coordination Agreement Final Regulations for 1994-95 CRC1, 1993-94 CRC2, 1992-93 CRC3, and 1991-92 CRC4, unless CRC2 higher than CRC1, CRC3 higher than CRC2, or CRC4 higher than CRC3.
- (2) The Assured Refill Curve was calculated using PDR's from the 1993-94 PNCA Refill Studies and may be changed as a result of the 1994-95 PNCA Refill Studies.

COORDINATED SYSTEM LOADS AND RESOURCES
(ENERGY IN AVERAGE MW)

| <u>Month</u> | <u>Hydro Resources</u> | <u>Thermal Resources</u> | <u>Misc. Resources</u> | <u>Maintenance & Reserves</u> | <u>Adjusted Loads</u> | <u>Imports & Exports</u> |
|--------------|------------------------|--------------------------|------------------------|-----------------------------------|-----------------------|------------------------------|
| August 15 | 9931.9 | 4686.1 | 2992.3 | 0.8 | 17608.5 | 0.9 |
| August 31 | 10833.9 | 4686.1 | 2992.3 | 0.8 | 18510.6 | 0.8 |
| September | 10049.8 | 4734.3 | 3250.2 | 11.0 | 18022.3 | 0.9 |
| October | 10369.0 | 4835.7 | 3412.4 | 8.5 | 18607.6 | 0.9 |
| November | 11771.9 | 4900.6 | 3547.0 | 0 | 20218.5 | 0.9 |
| December | 12730.8 | 4901.3 | 4260.3 | 0 | 21891.4 | 0.9 |
| January | 13592.2 | 4903.6 | 4293.8 | 1.3 | 22787.3 | 0.9 |
| February | 12478.9 | 4906.4 | 4331.9 | 2.1 | 21714.1 | 0.9 |
| March | 11050.0 | 4900.7 | 3612.6 | 13.2 | 19571.1 | -21.1 |
| April 15 | 10236.8 | 4803.0 | 2944.1 | 148.5 | 17834.3 | 1.0 |
| April 30 | 12315.3 | 4803.0 | 2600.3 | 532.9 | 19184.6 | 1.0 |
| May | 15696.5 | 3485.1 | 2406.5 | 1276.6 | 20311.3 | 0.1 |
| June | 11847.9 | 3757.3 | 3041.5 | 853.8 | 17792.2 | 0.6 |
| July | 10068.0 | 4766.3 | 2897.6 | 36.8 | 17694.0 | 1.0 |

Source: Thermal, miscellaneous resources, and maintenance/reserves are from the 1994-95 Final Regulation (FR). The loads and hydro resources (firm load carrying capability) is from the PNCG 1993-94 Reregulation study which was run to third-year rule curves established in the 1992-93 FR because the Coordinated System has adopted third year Firm Energy Load Carrying Capability for the 1994-95 Operating Year.

**SECOND CRITICAL RULE CURVE
For 1995-96**

(End-of-Month Usable Storage Content in 1000 SFD)

| <u>Month</u> | <u>Duncan</u> | <u>Arrow</u> | <u>Mica</u> | <u>Total</u> |
|--------------|---------------|--------------|-------------|--------------|
| August 15 | 552.3 | 3432.7 | 3292.9 | 7277.9 |
| August 31 | 493.1 | 3399.9 | 3338.9 | 7231.9 |
| September | 383.2 | 3342.1 | 3164.6 | 6889.9 |
| October | 182.1 | 3050.2 | 2916.1 | 6148.4 |
| November | 19.9 | 2506.7 | 2446.0 | 4972.6 |
| December | 18.6 | 1766.3 | 1928.4 | 3713.3 |
| January | 9.8 | 789.3 | 874.3 | 1673.4 |
| February | 14.1 | 186.4 | 384.8 | 585.3 |
| March | 4.8 | 197.4 | 140.8 | 343.0 |
| April 15 | 16.3 | 91.5 | 27.2 | 135.0 |
| April 30 | 0.8 | 349.4 | 51.4 | 401.6 |
| May | 0 | 658.3 | 32.4 | 690.7 |
| June | 219.6 | 1995.2 | 1236.9 | 3451.7 |
| July | 166.6 | 3041.9 | 2618.2 | 5826.7 |

Source: These rule curves are from 1995-96 AltOP (same as OY96 1994-95 Final Regulation).

**THIRD CRITICAL RULE CURVE
For 1996-97**

(End-of-Month Usable Storage Content in 1000 SFD)

| <u>Month</u> | <u>Duncan</u> | <u>Arrow</u> | <u>Mica</u> | <u>Total</u> |
|--------------|---------------|--------------|-------------|--------------|
| August 15 | 545.0 | 3219.7 | 2811.8 | 6576.5 |
| August 31 | 560.0 | 3166.2 | 2976.3 | 6702.5 |
| September | 540.0 | 3108.8 | 2901.5 | 6550.3 |
| October | 420.0 | 2612.1 | 2589.5 | 5621.6 |
| November | 280.0 | 2046.2 | 1975.6 | 4301.8 |
| December | 200.0 | 1397.8 | 1409.5 | 3007.3 |
| January | 160.0 | 600.0 | 668.3 | 1428.3 |
| February | 60.0 | 147.4 | 0.0 | 207.4 |
| March | 61.0 | 0.7 | 0.0 | 61.7 |
| April 15 | 11.0 | 33.3 | 0.0 | 44.3 |
| April 30 | 4.0 | 34.1 | 0.0 | 38.1 |
| May | 161.2 | 532.5 | 0.0 | 693.7 |
| June | 384.0 | 1468.3 | 894.2 | 2746.5 |
| July | 480.0 | 1688.4 | 1626.7 | 3795.1 |

Source: 1996-97 AOP with an exception of Arrow rule curve in July is higher than AOP rule curve by 4.8 ksf as requested from PNCG 6(d) meeting.

Note: These rule curves are same as OY97 1994-95 Final Regulation (FR) except Duncan operation August - October in FR is adjusted because it is on minimum discharge and could not reach AOP rule curves.

**FOURTH CRITICAL RULE CURVE
For 1997-98**

(End-of-Month Usable Storage Content in 1000 SFD)

| <u>Month</u> | <u>Duncan</u> | <u>Arrow</u> | <u>Mica</u> | <u>Total</u> |
|--------------|---------------|--------------|-------------|--------------|
| August 15 | 130.0 | 831.7 | 2381.4 | 3343.1 |
| August 31 | 81.0 | 701.2 | 2381.3 | 3163.5 |
| September | 2.0 | 826.9 | 2005.4 | 2834.3 |
| October | 37.0 | 882.9 | 1243.4 | 2163.3 |
| November | 58.5 | 1174.3 | 122.0 | 1354.8 |
| December | 0.0 | 382.4 | 0.0 | 382.4 |
| January | 0.0 | 5.1 | 0.0 | 5.1 |
| February | 0.0 | 0.0 | 0.0 | 0.0 |
| March | 0.0 | 0.0 | 0.0 | 0.0 |
| April 15 | 0.0 | 0.0 | 0.0 | 0.0 |
| April 30 | 0.0 | 0.0 | 0.0 | 0.0 |
| May | 0.0 | 0.0 | 0.0 | 0.0 |
| June | 0.0 | 0.0 | 0.0 | 0.0 |
| July | 0.0 | 0.0 | 0.0 | 0.0 |

Source: 1997-98 AOP with the exception of Arrow rule curves in the first and second halves of August which are higher than AOP rule curves by 4.8 ksf and 3.4 ksf, respectively as requested from PNCG 6(d) meeting.

Note: Duncan operation in the 1994-95 Final Regulation (FR) is changed due to the change in maximum outflow of 10,000 cfs. Also, Mica and Arrow operations August - December are changed in the 1994-95 FR study to reflect Mica/Arrow target flow operation.

DUNCAN RESERVOIR CAPACITY TABLE

| ELEVATION IN FEET | AVERAGE DIFFERENCE PER TENTH FT | | | | | | | | | | |
|----------------------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 1892. | 705.8 | | | | | | | | | | |
| 1891. | 696.9 | 697.8 | 698.7 | 699.6 | 700.5 | 701.3 | 702.2 | 703.1 | 704.0 | 704.9 | 0.89 |
| 1890. | 688.0 | 688.9 | 689.8 | 690.7 | 691.6 | 692.4 | 693.3 | 694.2 | 695.1 | 696.0 | 0.89 |
| 1889. | 679.2 | 680.1 | 681.0 | 681.8 | 682.7 | 683.6 | 684.5 | 685.4 | 686.2 | 687.1 | 0.88 |
| 1888. | 670.4 | 671.3 | 672.2 | 673.0 | 673.9 | 674.8 | 675.7 | 676.6 | 677.4 | 678.3 | 0.88 |
| 1887. | 661.5 | 662.4 | 663.3 | 664.2 | 665.1 | 665.9 | 666.8 | 667.7 | 668.6 | 669.5 | 0.89 |
| 1886. | 652.8 | 653.7 | 654.5 | 655.4 | 656.3 | 657.1 | 658.0 | 658.9 | 659.8 | 660.6 | 0.87 |
| 1885. | 644.0 | 644.9 | 645.8 | 646.6 | 647.5 | 648.4 | 649.3 | 650.2 | 651.0 | 651.9 | 0.88 |
| 1884. | 635.3 | 636.2 | 637.0 | 637.9 | 638.8 | 639.6 | 640.5 | 641.4 | 642.3 | 643.1 | 0.87 |
| 1883. | 626.6 | 627.5 | 628.3 | 629.2 | 630.1 | 630.9 | 631.8 | 632.7 | 633.6 | 634.4 | 0.87 |
| 1882. | 617.9 | 618.8 | 619.6 | 620.5 | 621.4 | 622.2 | 623.1 | 624.0 | 624.9 | 625.7 | 0.87 |
| 1881. | 609.2 | 610.1 | 610.9 | 611.8 | 612.7 | 613.5 | 614.4 | 615.3 | 616.2 | 617.0 | 0.87 |
| 1880. | 600.6 | 601.5 | 602.3 | 603.2 | 604.0 | 604.9 | 605.8 | 606.6 | 607.5 | 608.3 | 0.86 |
| 1879. | 592.0 | 592.9 | 593.7 | 594.6 | 595.4 | 596.3 | 597.2 | 598.0 | 598.9 | 599.7 | 0.86 |
| 1878. | 583.4 | 584.3 | 585.1 | 586.0 | 586.8 | 587.7 | 588.6 | 589.4 | 590.3 | 591.1 | 0.86 |
| 1877. | 574.8 | 575.7 | 576.5 | 577.4 | 578.2 | 579.1 | 580.0 | 580.8 | 581.7 | 582.5 | 0.86 |
| 1876. | 566.3 | 567.1 | 568.0 | 568.8 | 569.7 | 570.5 | 571.4 | 572.2 | 573.1 | 573.9 | 0.85 |
| 1875. | 557.8 | 558.6 | 559.5 | 560.3 | 561.2 | 562.0 | 562.9 | 563.7 | 564.6 | 565.4 | 0.85 |
| 1874. | 549.3 | 550.1 | 551.0 | 551.8 | 552.7 | 553.5 | 554.4 | 555.2 | 556.1 | 556.9 | 0.85 |
| 1873. | 540.9 | 541.7 | 542.6 | 543.4 | 544.3 | 545.1 | 545.9 | 546.8 | 547.6 | 548.5 | 0.84 |
| 1872. | 532.4 | 533.2 | 534.1 | 534.9 | 535.8 | 536.6 | 537.5 | 538.3 | 539.2 | 540.0 | 0.85 |
| 1871. | 524.0 | 524.8 | 525.7 | 526.5 | 527.4 | 528.2 | 529.0 | 529.9 | 530.7 | 531.6 | 0.84 |
| 1870. | 515.7 | 516.5 | 517.4 | 518.2 | 519.0 | 519.8 | 520.7 | 521.5 | 522.3 | 523.2 | 0.83 |

DUNCAN RESERVOIR CAPACITY TABLE

| ELEVATION IN FEET | | | | | | | | | | | AVERAGE DIFFERENCE PER TENTH FT |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------------------------|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 1869. | 507.3 | 508.1 | 509.0 | 509.8 | 510.7 | 511.5 | 512.3 | 513.2 | 514.0 | 514.9 | 0.84 |
| 1868. | 499.0 | 499.8 | 500.7 | 501.5 | 502.3 | 503.1 | 504.0 | 504.8 | 505.6 | 506.5 | 0.83 |
| 1867. | 490.7 | 491.5 | 492.4 | 493.2 | 494.0 | 494.8 | 495.7 | 496.5 | 497.3 | 498.2 | 0.83 |
| 1866. | 482.4 | 483.2 | 484.1 | 484.9 | 485.7 | 486.5 | 487.4 | 488.2 | 489.0 | 489.9 | 0.83 |
| 1865. | 474.2 | 475.0 | 475.8 | 476.7 | 477.5 | 478.3 | 479.1 | 479.9 | 480.8 | 481.6 | 0.82 |
| 1864. | 466.0 | 466.8 | 467.6 | 468.5 | 469.3 | 470.1 | 470.9 | 471.7 | 472.6 | 473.4 | 0.82 |
| 1863. | 457.8 | 458.6 | 459.4 | 460.3 | 461.1 | 461.9 | 462.7 | 463.5 | 464.4 | 465.2 | 0.82 |
| 1862. | 449.7 | 450.5 | 451.3 | 452.1 | 452.9 | 453.7 | 454.6 | 455.4 | 456.2 | 457.0 | 0.81 |
| 1861. | 441.6 | 442.4 | 443.2 | 444.0 | 444.8 | 445.6 | 446.5 | 447.3 | 448.1 | 448.9 | 0.81 |
| 1860. | 433.5 | 434.3 | 435.1 | 435.9 | 436.7 | 437.5 | 438.4 | 439.2 | 440.0 | 440.8 | 0.81 |
| 1859. | 425.4 | 426.2 | 427.0 | 427.8 | 428.6 | 429.4 | 430.3 | 431.1 | 431.9 | 432.7 | 0.81 |
| 1858. | 417.4 | 418.2 | 419.0 | 419.8 | 420.6 | 421.4 | 422.2 | 423.0 | 423.8 | 424.6 | 0.80 |
| 1857. | 409.4 | 410.2 | 411.0 | 411.8 | 412.6 | 413.4 | 414.2 | 415.0 | 415.8 | 416.6 | 0.80 |
| 1856. | 401.4 | 402.2 | 403.0 | 403.8 | 404.6 | 405.4 | 406.2 | 407.0 | 407.8 | 408.6 | 0.80 |
| 1855. | 393.5 | 394.3 | 395.1 | 395.9 | 396.7 | 397.4 | 398.2 | 399.0 | 399.8 | 400.6 | 0.79 |
| 1854. | 385.6 | 386.4 | 387.2 | 388.0 | 388.8 | 389.5 | 390.3 | 391.1 | 391.9 | 392.7 | 0.79 |
| 1853. | 377.7 | 378.5 | 379.3 | 380.1 | 380.9 | 381.6 | 382.4 | 383.2 | 384.0 | 384.8 | 0.79 |
| 1852. | 369.9 | 370.7 | 371.5 | 372.2 | 373.0 | 373.8 | 374.6 | 375.4 | 376.1 | 376.9 | 0.78 |
| 1851. | 362.1 | 362.9 | 363.7 | 364.4 | 365.2 | 366.0 | 366.8 | 367.6 | 368.3 | 369.1 | 0.78 |
| 1850. | 354.3 | 355.1 | 355.9 | 356.6 | 357.4 | 358.2 | 359.0 | 359.8 | 360.5 | 361.3 | 0.78 |
| 1849. | 346.6 | 347.4 | 348.1 | 348.9 | 349.7 | 350.4 | 351.2 | 352.0 | 352.8 | 353.5 | 0.77 |
| 1848. | 338.9 | 339.7 | 340.4 | 341.2 | 342.0 | 342.7 | 343.5 | 344.3 | 345.1 | 345.8 | 0.77 |
| 1847. | 331.2 | 332.0 | 332.7 | 333.5 | 334.3 | 335.0 | 335.8 | 336.6 | 337.4 | 338.1 | 0.77 |
| 1846. | 323.6 | 324.4 | 325.1 | 325.9 | 326.6 | 327.4 | 328.2 | 328.9 | 329.7 | 330.4 | 0.76 |
| 1845. | 316.0 | 316.8 | 317.5 | 318.3 | 319.0 | 319.8 | 320.6 | 321.3 | 322.1 | 322.8 | 0.76 |

DUNCAN RESERVOIR CAPACITY TABLE

| ELEVATION IN FEET | AVERAGE DIFFERENCE PER TENTH FT | | | | | | | | | | |
|----------------------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 1844. | 308.5 | 309.2 | 310.0 | 310.7 | 311.5 | 312.2 | 313.0 | 313.7 | 314.5 | 315.2 | 0.75 |
| 1843. | 300.9 | 301.7 | 302.4 | 303.2 | 303.9 | 304.7 | 305.5 | 306.2 | 307.0 | 307.7 | 0.76 |
| 1842. | 293.5 | 294.2 | 295.0 | 295.7 | 296.5 | 297.2 | 297.9 | 298.7 | 299.4 | 300.2 | 0.74 |
| 1841. | 286.0 | 286.7 | 287.5 | 288.2 | 289.0 | 289.7 | 290.5 | 291.2 | 292.0 | 292.7 | 0.75 |
| 1840. | 278.6 | 279.3 | 280.1 | 280.8 | 281.6 | 282.3 | 283.0 | 283.8 | 284.5 | 285.3 | 0.74 |
| 1839. | 271.2 | 271.9 | 272.7 | 273.4 | 274.2 | 274.9 | 275.6 | 276.4 | 277.1 | 277.9 | 0.74 |
| 1838. | 263.9 | 264.6 | 265.4 | 266.1 | 266.8 | 267.5 | 268.3 | 269.0 | 269.7 | 270.5 | 0.73 |
| 1837. | 256.6 | 257.3 | 258.1 | 258.8 | 259.5 | 260.2 | 261.0 | 261.7 | 262.4 | 263.2 | 0.73 |
| 1836. | 249.4 | 250.1 | 250.8 | 251.6 | 252.3 | 253.0 | 253.7 | 254.4 | 255.2 | 255.9 | 0.72 |
| 1835. | 242.2 | 242.9 | 243.6 | 244.4 | 245.1 | 245.8 | 246.5 | 247.2 | 248.0 | 248.7 | 0.72 |
| 1834. | 235.0 | 235.7 | 236.4 | 237.2 | 237.9 | 238.6 | 239.3 | 240.0 | 240.8 | 241.5 | 0.72 |
| 1833. | 227.9 | 228.6 | 229.3 | 230.0 | 230.7 | 231.4 | 232.2 | 232.9 | 233.6 | 234.3 | 0.71 |
| 1832. | 220.8 | 221.5 | 222.2 | 222.9 | 223.6 | 224.3 | 225.1 | 225.8 | 226.5 | 227.2 | 0.71 |
| 1831. | 213.8 | 214.5 | 215.2 | 215.9 | 216.6 | 217.3 | 218.0 | 218.7 | 219.4 | 220.1 | 0.70 |
| 1830. | 206.8 | 207.5 | 208.2 | 208.9 | 209.6 | 210.3 | 211.0 | 211.7 | 212.4 | 213.1 | 0.70 |
| 1829. | 199.9 | 200.6 | 201.3 | 202.0 | 202.7 | 203.3 | 204.0 | 204.7 | 205.4 | 206.1 | 0.69 |
| 1828. | 193.0 | 193.7 | 194.4 | 195.1 | 195.8 | 196.4 | 197.1 | 197.8 | 198.5 | 199.2 | 0.69 |
| 1827. | 186.1 | 186.8 | 187.5 | 188.2 | 188.9 | 189.5 | 190.2 | 190.9 | 191.6 | 192.3 | 0.69 |
| 1826. | 179.3 | 180.0 | 180.7 | 181.3 | 182.0 | 182.7 | 183.4 | 184.1 | 184.7 | 185.4 | 0.68 |
| 1825. | 172.6 | 173.3 | 173.9 | 174.6 | 175.3 | 175.9 | 176.6 | 177.3 | 178.0 | 178.6 | 0.67 |
| 1824. | 165.9 | 166.6 | 167.2 | 167.9 | 168.6 | 169.2 | 169.9 | 170.6 | 171.3 | 171.9 | 0.67 |
| 1823. | 159.2 | 159.9 | 160.5 | 161.2 | 161.9 | 162.5 | 163.2 | 163.9 | 164.6 | 165.2 | 0.67 |
| 1822. | 152.6 | 153.3 | 153.9 | 154.6 | 155.2 | 155.9 | 156.6 | 157.2 | 157.9 | 158.5 | 0.66 |
| 1821. | 146.1 | 146.7 | 147.4 | 148.0 | 148.7 | 149.3 | 150.0 | 150.6 | 151.3 | 151.9 | 0.65 |
| 1820. | 139.6 | 140.2 | 140.9 | 141.5 | 142.2 | 142.8 | 143.5 | 144.1 | 144.8 | 145.4 | 0.65 |

DUNCAN RESERVOIR CAPACITY TABLE

| ELEVATION IN FEET | AVERAGE DIFFERENCE PER TENTH FT | | | | | | | | | | |
|----------------------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 1819. | 133.2 | 133.8 | 134.5 | 135.1 | 135.8 | 136.4 | 137.0 | 137.7 | 138.3 | 139.0 | 0.64 |
| 1818. | 126.8 | 127.4 | 128.1 | 128.7 | 129.4 | 130.0 | 130.6 | 131.3 | 131.9 | 132.6 | 0.64 |
| 1817. | 120.5 | 121.1 | 121.8 | 122.4 | 123.0 | 123.6 | 124.3 | 124.9 | 125.5 | 126.2 | 0.63 |
| 1816. | 114.3 | 114.9 | 115.5 | 116.2 | 116.8 | 117.4 | 118.0 | 118.6 | 119.3 | 119.9 | 0.62 |
| 1815. | 108.1 | 108.7 | 109.3 | 110.0 | 110.6 | 111.2 | 111.8 | 112.4 | 113.1 | 113.7 | 0.62 |
| 1814. | 102.0 | 102.6 | 103.2 | 103.8 | 104.4 | 105.0 | 105.7 | 106.3 | 106.9 | 107.5 | 0.61 |
| 1813. | 96.0 | 96.6 | 97.2 | 97.8 | 98.4 | 99.0 | 99.6 | 100.2 | 100.8 | 101.4 | 0.60 |
| 1812. | 90.0 | 90.6 | 91.2 | 91.8 | 92.4 | 93.0 | 93.6 | 94.2 | 94.8 | 95.4 | 0.60 |
| 1811. | 84.1 | 84.7 | 85.3 | 85.9 | 86.5 | 87.0 | 87.6 | 88.2 | 88.8 | 89.4 | 0.59 |
| 1810. | 78.3 | 78.9 | 79.5 | 80.0 | 80.6 | 81.2 | 81.8 | 82.4 | 82.9 | 83.5 | 0.58 |
| 1809. | 72.5 | 73.1 | 73.7 | 74.2 | 74.8 | 75.4 | 76.0 | 76.6 | 77.1 | 77.7 | 0.58 |
| 1808. | 66.9 | 67.5 | 68.0 | 68.6 | 69.1 | 69.7 | 70.3 | 70.8 | 71.4 | 71.9 | 0.56 |
| 1807. | 61.3 | 61.9 | 62.4 | 63.0 | 63.5 | 64.1 | 64.7 | 65.2 | 65.8 | 66.3 | 0.56 |
| 1806. | 55.8 | 56.3 | 56.9 | 57.4 | 58.0 | 58.5 | 59.1 | 59.6 | 60.2 | 60.7 | 0.55 |
| 1805. | 50.4 | 50.9 | 51.5 | 52.0 | 52.6 | 53.1 | 53.6 | 54.2 | 54.7 | 55.3 | 0.54 |
| 1804. | 45.1 | 45.6 | 46.2 | 46.7 | 47.2 | 47.7 | 48.3 | 48.8 | 49.3 | 49.9 | 0.53 |
| 1803. | 39.9 | 40.4 | 40.9 | 41.5 | 42.0 | 42.5 | 43.0 | 43.5 | 44.1 | 44.6 | 0.52 |
| 1802. | 34.8 | 35.3 | 35.8 | 36.3 | 36.8 | 37.3 | 37.9 | 38.4 | 38.9 | 39.4 | 0.51 |
| 1801. | 29.8 | 30.3 | 30.8 | 31.3 | 31.8 | 32.3 | 32.8 | 33.3 | 33.8 | 34.3 | 0.50 |
| 1800. | 25.0 | 25.5 | 26.0 | 26.4 | 26.9 | 27.4 | 27.9 | 28.4 | 28.8 | 29.3 | 0.48 |
| 1799. | 20.3 | 20.8 | 21.2 | 21.7 | 22.2 | 22.6 | 23.1 | 23.6 | 24.1 | 24.5 | 0.47 |
| 1798. | 15.7 | 16.2 | 16.6 | 17.1 | 17.5 | 18.0 | 18.5 | 18.9 | 19.4 | 19.8 | 0.46 |
| 1797. | 11.3 | 11.7 | 12.2 | 12.6 | 13.1 | 13.5 | 13.9 | 14.4 | 14.8 | 15.3 | 0.44 |
| 1796. | 7.1 | 7.5 | 7.9 | 8.4 | 8.8 | 9.2 | 9.6 | 10.0 | 10.5 | 10.9 | 0.42 |
| 1795. | 3.0 | 3.4 | 3.8 | 4.2 | 4.6 | 5.0 | 5.5 | 5.9 | 6.3 | 6.7 | 0.41 |
| 1794. | | | 0.0 | 0.4 | 0.8 | 1.1 | 1.5 | 1.9 | 2.3 | 2.6 | 0.37 |

ARROW RESERVOIR CAPACITY TABLE

| ELEVATION IN FEET | | | | | | | | | | | AVERAGE DIFFERENCE PER TENTH FT | |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------------------------|--|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | | |
| 1444. | 3579.6 | | | | | | | | | | | |
| 1443. | 3514.1 | 3520.6 | 3527.2 | 3533.7 | 3540.3 | 3546.8 | 3553.4 | 3559.9 | 3566.5 | 3573.0 | 6.55 | |
| 1442. | 3448.9 | 3455.4 | 3461.9 | 3468.5 | 3475.0 | 3481.5 | 3488.0 | 3494.5 | 3501.1 | 3507.6 | 6.52 | |
| 1441. | 3384.0 | 3390.5 | 3397.0 | 3403.5 | 3410.0 | 3416.4 | 3422.9 | 3429.4 | 3435.9 | 3442.4 | 6.49 | |
| 1440. | 3319.5 | 3325.9 | 3332.4 | 3338.8 | 3345.3 | 3351.7 | 3358.2 | 3364.6 | 3371.1 | 3377.5 | 6.45 | |
| 1439. | 3255.2 | 3261.6 | 3268.1 | 3274.5 | 3280.9 | 3287.3 | 3293.8 | 3300.2 | 3306.6 | 3313.1 | 6.43 | |
| 1438. | 3191.4 | 3197.8 | 3204.2 | 3210.5 | 3216.9 | 3223.3 | 3229.7 | 3236.1 | 3242.4 | 3248.8 | 6.38 | |
| 1437. | 3127.8 | 3134.2 | 3140.5 | 3146.9 | 3153.2 | 3159.6 | 3166.0 | 3172.3 | 3178.7 | 3185.0 | 6.36 | |
| 1436. | 3064.6 | 3070.9 | 3077.2 | 3083.6 | 3089.9 | 3096.2 | 3102.5 | 3108.8 | 3115.2 | 3121.5 | 6.32 | |
| 1435. | 3001.7 | 3008.0 | 3014.3 | 3020.6 | 3026.9 | 3033.1 | 3039.4 | 3045.7 | 3052.0 | 3058.3 | 6.29 | |
| 1434. | 2939.2 | 2945.4 | 2951.7 | 2957.9 | 2964.2 | 2970.4 | 2976.7 | 2982.9 | 2989.2 | 2995.4 | 6.25 | |
| 1433. | 2877.0 | 2883.2 | 2889.4 | 2895.7 | 2901.9 | 2908.1 | 2914.3 | 2920.5 | 2926.8 | 2933.0 | 6.22 | |
| 1432. | 2815.1 | 2821.3 | 2827.5 | 2833.7 | 2839.9 | 2846.0 | 2852.2 | 2858.4 | 2864.6 | 2870.8 | 6.19 | |
| 1431. | 2753.5 | 2759.7 | 2765.8 | 2772.0 | 2778.1 | 2784.3 | 2790.5 | 2796.6 | 2802.8 | 2808.9 | 6.16 | |
| 1430. | 2692.3 | 2698.4 | 2704.5 | 2710.7 | 2716.8 | 2722.9 | 2729.0 | 2735.1 | 2741.3 | 2747.4 | 6.12 | |
| 1429. | 2631.5 | 2637.6 | 2643.7 | 2649.7 | 2655.8 | 2661.9 | 2668.0 | 2674.1 | 2680.1 | 2686.2 | 6.08 | |
| 1428. | 2570.9 | 2577.0 | 2583.0 | 2589.1 | 2595.1 | 2601.2 | 2607.3 | 2613.3 | 2619.4 | 2625.4 | 6.06 | |
| 1427. | 2510.7 | 2516.7 | 2522.7 | 2528.8 | 2534.8 | 2540.8 | 2546.8 | 2552.8 | 2558.9 | 2564.9 | 6.02 | |
| 1426. | 2450.8 | 2456.8 | 2462.8 | 2468.8 | 2474.8 | 2480.7 | 2486.7 | 2492.7 | 2498.7 | 2504.7 | 5.99 | |
| 1425. | 2391.2 | 2397.2 | 2403.1 | 2409.1 | 2415.0 | 2421.0 | 2427.0 | 2432.9 | 2438.9 | 2444.8 | 5.96 | |
| 1424. | 2331.9 | 2337.8 | 2343.8 | 2349.7 | 2355.6 | 2361.5 | 2367.5 | 2373.4 | 2379.3 | 2385.3 | 5.93 | |
| 1423. | 2272.8 | 2278.7 | 2284.6 | 2290.5 | 2296.4 | 2302.3 | 2308.3 | 2314.2 | 2320.1 | 2326.0 | 5.91 | |
| 1422. | 2214.1 | 2220.0 | 2225.8 | 2231.7 | 2237.6 | 2243.4 | 2249.3 | 2255.2 | 2261.1 | 2266.9 | 5.87 | |
| 1421. | 2155.7 | 2161.5 | 2167.4 | 2173.2 | 2179.1 | 2184.9 | 2190.7 | 2196.6 | 2202.4 | 2208.3 | 5.84 | |
| 1420. | 2097.7 | 2103.5 | 2109.3 | 2115.1 | 2120.9 | 2126.7 | 2132.5 | 2138.3 | 2144.1 | 2149.9 | 5.80 | |

ARROW RESERVOIR CAPACITY TABLE

| ELEVATION IN FEET | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | DIFFERENCE PER TENTH FT |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------------|
| 1419. | 2040.1 | 2045.9 | 2051.6 | 2057.4 | 2063.1 | 2068.9 | 2074.7 | 2080.4 | 2086.2 | 2091.9 | 5.76 |
| 1418. | 1982.9 | 1988.6 | 1994.3 | 2000.1 | 2005.8 | 2011.5 | 2017.2 | 2022.9 | 2028.7 | 2034.4 | 5.72 |
| 1417. | 1926.1 | 1931.8 | 1937.5 | 1943.1 | 1948.8 | 1954.5 | 1960.2 | 1965.9 | 1971.5 | 1977.2 | 5.68 |
| 1416. | 1869.6 | 1875.2 | 1880.9 | 1886.5 | 1892.2 | 1897.8 | 1903.5 | 1909.1 | 1914.8 | 1920.4 | 5.65 |
| 1415. | 1813.5 | 1819.1 | 1824.7 | 1830.3 | 1835.9 | 1841.5 | 1847.2 | 1852.8 | 1858.4 | 1864.0 | 5.61 |
| 1414. | 1757.8 | 1763.4 | 1768.9 | 1774.5 | 1780.1 | 1785.6 | 1791.2 | 1796.8 | 1802.4 | 1807.9 | 5.57 |
| 1413. | 1702.4 | 1707.9 | 1713.5 | 1719.0 | 1724.6 | 1730.1 | 1735.6 | 1741.2 | 1746.7 | 1752.3 | 5.54 |
| 1412. | 1647.4 | 1652.9 | 1658.4 | 1663.9 | 1669.4 | 1674.9 | 1680.4 | 1685.9 | 1691.4 | 1696.9 | 5.50 |
| 1411. | 1592.7 | 1598.2 | 1603.6 | 1609.1 | 1614.6 | 1620.0 | 1625.5 | 1631.0 | 1636.5 | 1641.9 | 5.47 |
| 1410. | 1538.4 | 1543.8 | 1549.3 | 1554.7 | 1560.1 | 1565.5 | 1571.0 | 1576.4 | 1581.8 | 1587.3 | 5.43 |
| 1409. | 1484.5 | 1489.9 | 1495.3 | 1500.7 | 1506.1 | 1511.4 | 1516.8 | 1522.2 | 1527.6 | 1533.0 | 5.39 |
| 1408. | 1430.9 | 1436.3 | 1441.6 | 1447.0 | 1452.3 | 1457.7 | 1463.1 | 1468.4 | 1473.8 | 1479.1 | 5.36 |
| 1407. | 1377.7 | 1383.0 | 1388.3 | 1393.7 | 1399.0 | 1404.3 | 1409.6 | 1414.9 | 1420.3 | 1425.6 | 5.32 |
| 1406. | 1324.7 | 1330.0 | 1335.3 | 1340.6 | 1345.9 | 1351.2 | 1356.5 | 1361.8 | 1367.1 | 1372.4 | 5.30 |
| 1405. | 1272.1 | 1277.4 | 1282.6 | 1287.9 | 1293.1 | 1298.4 | 1303.7 | 1308.9 | 1314.2 | 1319.4 | 5.26 |
| 1404. | 1219.5 | 1224.8 | 1230.0 | 1235.3 | 1240.5 | 1245.8 | 1251.1 | 1256.3 | 1261.6 | 1266.8 | 5.26 |
| 1403. | 1167.3 | 1172.5 | 1177.7 | 1183.0 | 1188.2 | 1193.4 | 1198.6 | 1203.8 | 1209.1 | 1214.3 | 5.22 |
| 1402. | 1115.4 | 1120.6 | 1125.8 | 1131.0 | 1136.2 | 1141.3 | 1146.5 | 1151.7 | 1156.9 | 1162.1 | 5.19 |
| 1401. | 1063.9 | 1069.0 | 1074.2 | 1079.3 | 1084.5 | 1089.6 | 1094.8 | 1099.9 | 1105.1 | 1110.2 | 5.15 |
| 1400. | 1012.8 | 1017.9 | 1023.0 | 1028.1 | 1033.2 | 1038.3 | 1043.5 | 1048.6 | 1053.7 | 1058.8 | 5.11 |
| 1399. | 962.5 | 967.5 | 972.6 | 977.6 | 982.6 | 987.6 | 992.7 | 997.7 | 1002.7 | 1007.8 | 5.03 |
| 1398. | 912.7 | 917.7 | 922.7 | 927.6 | 932.6 | 937.6 | 942.6 | 947.6 | 952.5 | 957.5 | 4.98 |
| 1397. | 863.2 | 868.1 | 873.1 | 878.0 | 883.0 | 887.9 | 892.9 | 897.8 | 902.8 | 907.7 | 4.95 |
| 1396. | 814.1 | 819.0 | 823.9 | 828.8 | 833.7 | 838.6 | 843.6 | 848.5 | 853.4 | 858.3 | 4.91 |
| 1395. | 765.2 | 770.1 | 775.0 | 779.9 | 784.8 | 789.6 | 794.5 | 799.4 | 804.3 | 809.2 | 4.89 |

ARROW RESERVOIR CAPACITY TABLE

| ELEVATION IN FEET | | | | | | | | | | | DIFFERENCE |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | PER TENTH FT |
| 1394. | 716.2 | 721.1 | 726.0 | 730.9 | 735.8 | 740.7 | 745.6 | 750.5 | 755.4 | 760.3 | 4.90 |
| 1393. | 667.5 | 672.4 | 677.2 | 682.1 | 687.0 | 691.8 | 696.7 | 701.6 | 706.5 | 711.3 | 4.87 |
| 1392. | 619.3 | 624.1 | 628.9 | 633.8 | 638.6 | 643.4 | 648.2 | 653.0 | 657.9 | 662.7 | 4.82 |
| 1391. | 571.5 | 576.3 | 581.1 | 585.8 | 590.6 | 595.4 | 600.2 | 605.0 | 609.7 | 614.5 | 4.78 |
| 1390. | 524.2 | 528.9 | 533.7 | 538.4 | 543.1 | 547.8 | 552.6 | 557.3 | 562.0 | 566.8 | 4.73 |
| 1389. | 477.9 | 482.5 | 487.2 | 491.8 | 496.4 | 501.0 | 505.7 | 510.3 | 514.9 | 519.6 | 4.63 |
| 1388. | 432.3 | 436.9 | 441.4 | 446.0 | 450.5 | 455.1 | 459.7 | 464.2 | 468.8 | 473.3 | 4.56 |
| 1387. | 387.2 | 391.7 | 396.2 | 400.7 | 405.2 | 409.7 | 414.3 | 418.8 | 423.3 | 427.8 | 4.51 |
| 1386. | 342.6 | 347.1 | 351.5 | 356.0 | 360.4 | 364.9 | 369.4 | 373.8 | 378.3 | 382.7 | 4.46 |
| 1385. | 298.5 | 302.9 | 307.3 | 311.7 | 316.1 | 320.5 | 325.0 | 329.4 | 333.8 | 338.2 | 4.41 |
| 1384. | 254.6 | 259.0 | 263.4 | 267.8 | 272.2 | 276.5 | 280.9 | 285.3 | 289.7 | 294.1 | 4.39 |
| 1383. | 211.2 | 215.5 | 219.9 | 224.2 | 228.6 | 232.9 | 237.2 | 241.6 | 245.9 | 250.3 | 4.34 |
| 1382. | 168.4 | 172.7 | 177.0 | 181.2 | 185.5 | 189.8 | 194.1 | 198.4 | 202.6 | 206.9 | 4.28 |
| 1381. | 126.1 | 130.3 | 134.6 | 138.8 | 143.0 | 147.2 | 151.5 | 155.7 | 159.9 | 164.2 | 4.23 |
| 1380. | 84.3 | 88.5 | 92.7 | 96.8 | 101.0 | 105.2 | 109.4 | 113.6 | 117.7 | 121.9 | 4.18 |
| 1379. | 43.2 | 47.3 | 51.4 | 55.5 | 59.6 | 63.7 | 67.9 | 72.0 | 76.1 | 80.2 | 4.11 |
| 1378. | 2.7 | 6.7 | 10.8 | 14.8 | 18.9 | 22.9 | 27.0 | 31.0 | 35.1 | 39.1 | 4.05 |
| 1377. | | | | | | | | | | 0.0 | 2.70 |

MICA RESERVOIR CAPACITY TABLE

| ELEVATION IN FEET | | | | | | | | | | | AVERAGE DIFFERENCE PER TENTH FT | |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------------------------------------|------|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | | |
| 2475. | 10121.1 | | | | | | | | | | | 5.38 |
| 2474. | 10067.5 | 10072.9 | 10078.2 | 10083.6 | 10088.9 | 10094.3 | 10099.7 | 10105.0 | 10110.4 | 10115.7 | | 5.36 |
| 2473. | 10014.1 | 10019.4 | 10024.8 | 10030.1 | 10035.5 | 10040.8 | 10046.1 | 10051.5 | 10056.8 | 10062.2 | | 5.34 |
| 2472. | 9960.8 | 9966.1 | 9971.5 | 9976.8 | 9982.1 | 9987.4 | 9992.8 | 9998.1 | 10003.4 | 10008.8 | | 5.33 |
| 2471. | 9907.8 | 9913.1 | 9918.4 | 9923.7 | 9929.0 | 9934.3 | 9939.6 | 9944.9 | 9950.2 | 9955.5 | | 5.30 |
| 2470. | 9854.8 | 9860.1 | 9865.4 | 9870.7 | 9876.0 | 9881.3 | 9886.6 | 9891.9 | 9897.2 | 9902.5 | | 5.30 |
| 2469. | 9802.1 | 9807.4 | 9812.6 | 9817.9 | 9823.2 | 9828.5 | 9833.7 | 9839.0 | 9844.3 | 9849.5 | | 5.27 |
| 2468. | 9749.5 | 9754.8 | 9760.0 | 9765.3 | 9770.5 | 9775.8 | 9781.1 | 9786.3 | 9791.6 | 9796.8 | | 5.26 |
| 2467. | 9697.1 | 9702.3 | 9707.6 | 9712.8 | 9718.1 | 9723.3 | 9728.5 | 9733.8 | 9739.0 | 9744.3 | | 5.24 |
| 2466. | 9644.8 | 9650.0 | 9655.3 | 9660.5 | 9665.7 | 9671.0 | 9676.2 | 9681.4 | 9686.6 | 9691.9 | | 5.23 |
| 2465. | 9592.7 | 9597.9 | 9603.1 | 9608.3 | 9613.5 | 9618.8 | 9624.0 | 9629.2 | 9634.4 | 9639.6 | | 5.21 |
| 2464. | 9540.8 | 9546.0 | 9551.2 | 9556.4 | 9561.6 | 9566.8 | 9571.9 | 9577.1 | 9582.3 | 9587.5 | | 5.19 |
| 2463. | 9489.0 | 9494.2 | 9499.4 | 9504.5 | 9509.7 | 9514.9 | 9520.1 | 9525.3 | 9530.4 | 9535.6 | | 5.18 |
| 2462. | 9437.4 | 9442.6 | 9447.7 | 9452.9 | 9458.0 | 9463.2 | 9468.4 | 9473.5 | 9478.7 | 9483.8 | | 5.16 |
| 2461. | 9386.0 | 9391.1 | 9396.3 | 9401.4 | 9406.6 | 9411.7 | 9416.8 | 9422.0 | 9427.1 | 9432.3 | | 5.14 |
| 2460. | 9334.8 | 9339.9 | 9345.0 | 9350.2 | 9355.3 | 9360.4 | 9365.5 | 9370.6 | 9375.8 | 9380.9 | | 5.12 |
| 2459. | 9283.7 | 9288.8 | 9293.9 | 9299.0 | 9304.1 | 9309.3 | 9314.4 | 9319.5 | 9324.6 | 9329.7 | | 5.11 |
| 2458. | 9232.8 | 9237.9 | 9243.0 | 9248.1 | 9253.2 | 9258.3 | 9263.3 | 9268.4 | 9273.5 | 9278.6 | | 5.09 |
| 2457. | 9182.0 | 9187.1 | 9192.2 | 9197.2 | 9202.3 | 9207.4 | 9212.5 | 9217.6 | 9222.6 | 9227.7 | | 5.08 |
| 2456. | 9131.4 | 9136.5 | 9141.5 | 9146.6 | 9151.6 | 9156.7 | 9161.8 | 9166.8 | 9171.9 | 9176.9 | | 5.06 |
| 2455. | 9081.0 | 9086.0 | 9091.1 | 9096.1 | 9101.2 | 9106.2 | 9111.2 | 9116.3 | 9121.3 | 9126.4 | | 5.04 |

MICA RESERVOIR CAPACITY TABLE

| ELEVATION IN FEET | AVERAGE DIFFERENCE PER TENTH FT | | | | | | | | | | |
|----------------------|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 2454. | 9030.8 | 9035.8 | 9040.8 | 9045.9 | 9050.9 | 9055.9 | 9060.9 | 9065.9 | 9071.0 | 9076.0 | 5.02 |
| 2453. | 8980.7 | 8985.7 | 8990.7 | 8995.7 | 9000.7 | 9005.8 | 9010.8 | 9015.8 | 9020.8 | 9025.8 | 5.01 |
| 2452. | 8930.8 | 8935.8 | 8940.8 | 8945.8 | 8950.8 | 8955.8 | 8960.7 | 8965.7 | 8970.7 | 8975.7 | 4.99 |
| 2451. | 8881.0 | 8886.0 | 8891.0 | 8895.9 | 8900.9 | 8905.9 | 8910.9 | 8915.9 | 8920.8 | 8925.8 | 4.98 |
| 2450. | 8831.4 | 8836.4 | 8841.3 | 8846.3 | 8851.2 | 8856.2 | 8861.2 | 8866.1 | 8871.1 | 8876.0 | 4.96 |
| 2449. | 8782.0 | 8786.9 | 8791.9 | 8796.8 | 8801.8 | 8806.7 | 8811.6 | 8816.6 | 8821.5 | 8826.5 | 4.94 |
| 2448. | 8732.8 | 8737.7 | 8742.6 | 8747.6 | 8752.5 | 8757.4 | 8762.3 | 8767.2 | 8772.2 | 8777.1 | 4.92 |
| 2447. | 8683.7 | 8688.6 | 8693.5 | 8698.4 | 8703.3 | 8708.3 | 8713.2 | 8718.1 | 8723.0 | 8727.9 | 4.91 |
| 2446. | 8634.8 | 8639.7 | 8644.6 | 8649.5 | 8654.4 | 8659.3 | 8664.1 | 8669.0 | 8673.9 | 8678.8 | 4.89 |
| 2445. | 8586.0 | 8590.9 | 8595.8 | 8600.6 | 8605.5 | 8610.4 | 8615.3 | 8620.2 | 8625.0 | 8629.9 | 4.88 |
| 2444. | 8537.5 | 8542.4 | 8547.2 | 8552.1 | 8556.9 | 8561.8 | 8566.6 | 8571.5 | 8576.3 | 8581.2 | 4.85 |
| 2443. | 8489.1 | 8493.9 | 8498.8 | 8503.6 | 8508.5 | 8513.3 | 8518.1 | 8523.0 | 8527.8 | 8532.7 | 4.84 |
| 2442. | 8440.8 | 8445.6 | 8450.5 | 8455.3 | 8460.1 | 8465.0 | 8469.8 | 8474.6 | 8479.4 | 8484.3 | 4.83 |
| 2441. | 8392.7 | 8397.5 | 8402.3 | 8407.1 | 8411.9 | 8416.8 | 8421.6 | 8426.4 | 8431.2 | 8436.0 | 4.81 |
| 2440. | 8344.8 | 8349.6 | 8354.4 | 8359.2 | 8364.0 | 8368.8 | 8373.5 | 8378.3 | 8383.1 | 8387.9 | 4.79 |
| 2439. | 8297.1 | 8301.9 | 8306.6 | 8311.4 | 8316.2 | 8321.0 | 8325.7 | 8330.5 | 8335.3 | 8340.0 | 4.77 |
| 2438. | 8249.5 | 8254.3 | 8259.0 | 8263.8 | 8268.5 | 8273.3 | 8278.1 | 8282.8 | 8287.6 | 8292.3 | 4.76 |
| 2437. | 8202.1 | 8206.8 | 8211.6 | 8216.3 | 8221.1 | 8225.8 | 8230.5 | 8235.3 | 8240.0 | 8244.8 | 4.74 |
| 2436. | 8154.8 | 8159.5 | 8164.3 | 8169.0 | 8173.7 | 8178.5 | 8183.2 | 8187.9 | 8192.6 | 8197.4 | 4.73 |
| 2435. | 8107.8 | 8112.5 | 8117.2 | 8121.9 | 8126.6 | 8131.3 | 8136.0 | 8140.7 | 8145.4 | 8150.1 | 4.70 |
| 2434. | 8060.9 | 8065.6 | 8070.3 | 8075.0 | 8079.7 | 8084.4 | 8089.0 | 8093.7 | 8098.4 | 8103.1 | 4.69 |
| 2433. | 8014.1 | 8018.8 | 8023.5 | 8028.1 | 8032.8 | 8037.5 | 8042.2 | 8046.9 | 8051.5 | 8056.2 | 4.68 |
| 2432. | 7967.5 | 7972.2 | 7976.8 | 7981.5 | 7986.1 | 7990.8 | 7995.5 | 8000.1 | 8004.8 | 8009.4 | 4.66 |
| 2431. | 7921.1 | 7925.7 | 7930.4 | 7935.0 | 7939.7 | 7944.3 | 7948.9 | 7953.6 | 7958.2 | 7962.9 | 4.64 |
| 2430. | 7874.9 | 7879.5 | 7884.1 | 7888.8 | 7893.4 | 7898.0 | 7902.6 | 7907.2 | 7911.9 | 7916.5 | 4.62 |

MICA RESERVOIR CAPACITY TABLE

| ELEVATION IN FEET | AVERAGE DIFFERENCE PER TENTH FT | | | | | | | | | | |
|----------------------|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 2429. | 7828.8 | 7833.4 | 7838.0 | 7842.6 | 7847.2 | 7851.9 | 7856.5 | 7861.1 | 7865.7 | 7870.3 | 4.61 |
| 2428. | 7782.9 | 7787.5 | 7792.1 | 7796.7 | 7801.3 | 7805.9 | 7810.4 | 7815.0 | 7819.6 | 7824.2 | 4.59 |
| 2427. | 7737.2 | 7741.8 | 7746.3 | 7750.9 | 7755.5 | 7760.1 | 7764.6 | 7769.2 | 7773.8 | 7778.3 | 4.57 |
| 2426. | 7691.6 | 7696.2 | 7700.7 | 7705.3 | 7709.8 | 7714.4 | 7719.0 | 7723.5 | 7728.1 | 7732.6 | 4.56 |
| 2425. | 7646.2 | 7650.7 | 7655.3 | 7659.8 | 7664.4 | 7668.9 | 7673.4 | 7678.0 | 7682.5 | 7687.1 | 4.54 |
| 2424. | 7600.9 | 7605.4 | 7610.0 | 7614.5 | 7619.0 | 7623.6 | 7628.1 | 7632.6 | 7637.1 | 7641.7 | 4.53 |
| 2423. | 7555.9 | 7560.4 | 7564.9 | 7569.4 | 7573.9 | 7578.4 | 7582.9 | 7587.4 | 7591.9 | 7596.4 | 4.50 |
| 2422. | 7511.0 | 7515.5 | 7520.0 | 7524.5 | 7529.0 | 7533.5 | 7537.9 | 7542.4 | 7546.9 | 7551.4 | 4.49 |
| 2421. | 7466.2 | 7470.7 | 7475.2 | 7479.6 | 7484.1 | 7488.6 | 7493.1 | 7497.6 | 7502.0 | 7506.5 | 4.48 |
| 2420. | 7421.6 | 7426.1 | 7430.5 | 7435.0 | 7439.4 | 7443.9 | 7448.4 | 7452.8 | 7457.3 | 7461.7 | 4.46 |
| 2419. | 7377.2 | 7381.6 | 7386.1 | 7390.5 | 7395.0 | 7399.4 | 7403.8 | 7408.3 | 7412.7 | 7417.2 | 4.44 |
| 2418. | 7333.0 | 7337.4 | 7341.8 | 7346.3 | 7350.7 | 7355.1 | 7359.5 | 7363.9 | 7368.4 | 7372.8 | 4.42 |
| 2417. | 7288.9 | 7293.3 | 7297.7 | 7302.1 | 7306.5 | 7311.0 | 7315.4 | 7319.8 | 7324.2 | 7328.6 | 4.41 |
| 2416. | 7245.0 | 7249.4 | 7253.8 | 7258.2 | 7262.6 | 7267.0 | 7271.3 | 7275.7 | 7280.1 | 7284.5 | 4.39 |
| 2415. | 7201.3 | 7205.7 | 7210.0 | 7214.4 | 7218.8 | 7223.2 | 7227.5 | 7231.9 | 7236.3 | 7240.6 | 4.37 |
| 2414. | 7157.7 | 7162.1 | 7166.4 | 7170.8 | 7175.1 | 7179.5 | 7183.9 | 7188.2 | 7192.6 | 7196.9 | 4.36 |
| 2413. | 7114.3 | 7118.6 | 7123.0 | 7127.3 | 7131.7 | 7136.0 | 7140.3 | 7144.7 | 7149.0 | 7153.4 | 4.34 |
| 2412. | 7071.0 | 7075.3 | 7079.7 | 7084.0 | 7088.3 | 7092.7 | 7097.0 | 7101.3 | 7105.6 | 7110.0 | 4.33 |
| 2411. | 7028.0 | 7032.3 | 7036.6 | 7040.9 | 7045.2 | 7049.5 | 7053.8 | 7058.1 | 7062.4 | 7066.7 | 4.30 |
| 2410. | 6985.1 | 6989.4 | 6993.7 | 6998.0 | 7002.3 | 7006.6 | 7010.8 | 7015.1 | 7019.4 | 7023.7 | 4.29 |
| 2409. | 6942.3 | 6946.6 | 6950.9 | 6955.1 | 6959.4 | 6963.7 | 6968.0 | 6972.3 | 6976.5 | 6980.8 | 4.28 |
| 2408. | 6899.7 | 6904.0 | 6908.2 | 6912.5 | 6916.7 | 6921.0 | 6925.3 | 6929.5 | 6933.8 | 6938.0 | 4.26 |
| 2407. | 6857.3 | 6861.5 | 6865.8 | 6870.0 | 6874.3 | 6878.5 | 6882.7 | 6887.0 | 6891.2 | 6895.5 | 4.24 |
| 2406. | 6815.1 | 6819.3 | 6823.5 | 6827.8 | 6832.0 | 6836.2 | 6840.4 | 6844.6 | 6848.9 | 6853.1 | 4.22 |
| 2405. | 6773.0 | 6777.2 | 6781.4 | 6785.6 | 6789.8 | 6794.1 | 6798.3 | 6802.5 | 6806.7 | 6810.9 | 4.21 |

MICA RESERVOIR CAPACITY TABLE

| ELEVATION IN FEET | AVERAGE DIFFERENCE PER TENTH FT | | | | | | | | | | |
|----------------------|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|---------|--------|------|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 2404. | 6731.1 | 6735.3 | 6739.5 | 6743.7 | 6747.9 | 6752.1 | 6756.2 | 6760.4 | 6764.6 | 6768.8 | 4.19 |
| 2403. | 6689.4 | 6693.6 | 6697.7 | 6701.9 | 6706.1 | 6710.3 | 6714.4 | 6718.6 | 6722.8 | 6726.9 | 4.17 |
| 2402. | 6647.8 | 6652.0 | 6656.1 | 6660.3 | 6664.4 | 6668.6 | 6672.8 | 6676.9 | 6681.1 | 6685.2 | 4.16 |
| 2401. | 6606.4 | 6610.5 | 6614.7 | 6618.8 | 6623.0 | 6627.1 | 6631.2 | 6635.4 | 6639.5 | 6643.7 | 4.14 |
| 2400. | 6565.1 | 6569.2 | 6573.4 | 6577.5 | 6581.6 | 6585.8 | 6589.9 | 6594.0 | 6598.1 | 6602.3 | 4.13 |
| 2399. | 6524.1 | 6528.2 | 6532.3 | 6536.4 | 6540.5 | 6544.6 | 6548.7 | 6552.8 | 6556.9 | 6561.0 | 4.10 |
| 2398. | 6483.4 | 6487.5 | 6491.5 | 6495.6 | 6499.7 | 6503.8 | 6507.8 | 6511.9 | 6516.0 | 6520.0 | 4.07 |
| 2397. | 6443.0 | 6447.0 | 6451.1 | 6455.1 | 6459.2 | 6463.2 | 6467.2 | 6471.3 | 6475.3 | 6479.4 | 4.04 |
| 2396. | 6403.0 | 6407.0 | 6411.0 | 6415.0 | 6419.0 | 6423.0 | 6427.0 | 6431.0 | 6435.0 | 6439.0 | 4.00 |
| 2395. | 6363.4 | 6367.4 | 6371.3 | 6375.3 | 6379.2 | 6383.2 | 6387.2 | 6391.1 | 6395.1 | 6399.0 | 3.96 |
| 2394. | 6324.1 | 6328.0 | 6332.0 | 6335.9 | 6339.8 | 6343.8 | 6347.7 | 6351.6 | 6355.5 | 6359.5 | 3.93 |
| 2393. | 6285.1 | 6289.0 | 6292.9 | 6295.8 | 6300.7 | 6304.6 | 6308.5 | 6312.4 | 6316.3 | 6320.2 | 3.90 |
| 2392. | 6240.4 | 6250.3 | 6254.1 | 6258.0 | 6261.9 | 6265.7 | 6269.6 | 6273.5 | 6277.4 | 6281.2 | 3.87 |
| 2391. | 6208.1 | 6211.9 | 6215.8 | 6219.6 | 6223.4 | 6227.2 | 6231.1 | 6234.9 | 6238.7 | 6242.6 | 3.83 |
| 2390. | 6170.1 | 6173.9 | 6177.7 | 6181.5 | 6185.3 | 6189.1 | 6192.9 | 6196.7 | 6200.5 | 6204.3 | 3.80 |
| 2389. | 6132.4 | 6136.2 | 6140.0 | 6143.7 | 6147.5 | 6151.2 | 6155.0 | 6158.8 | 6162.6 | 6166.3 | 3.77 |
| 2388. | 6095.1 | 6098.8 | 6102.5 | 6106.3 | 6110.0 | 6113.7 | 6117.5 | 6171.2 | 6124.9 | 6128.7 | 3.74 |
| 2387. | 6058.0 | 6061.7 | 6065.4 | 6069.1 | 6072.8 | 6076.5 | 6080.2 | 6083.9 | 6087.6 | 6091.4 | 3.71 |
| 2386. | 6021.2 | 6024.9 | 6028.6 | 6032.2 | 6035.8 | 6039.6 | 6043.3 | 6046.9 | 60506.0 | 6054.3 | 3.68 |
| 2385. | 5984.8 | 5988.4 | 5992.0 | 5995.7 | 5999.3 | 6003.0 | 6006.6 | 6010.3 | 6013.9 | 6017.6 | 3.65 |
| 2384. | 5946.6 | 5952.2 | 5955.8 | 5959.4 | 5963.0 | 5966.6 | 5970.3 | 5973.9 | 5977.5 | 5981.1 | 3.62 |
| 2383. | 5912.7 | 5916.3 | 5919.8 | 5923.5 | 5927.0 | 5930.6 | 5934.2 | 5937.8 | 5941.4 | 5945.0 | 3.59 |
| 2382. | 5677.1 | 5880.6 | 5884.2 | 5887.7 | 5891.3 | 5894.8 | 5896.4 | 5902.0 | 5905.5 | 5909.1 | 3.56 |
| 2381. | 5841.7 | 5845.2 | 5884.2 | 5852.3 | 5855.8 | 5859.4 | 5862.9 | 5866.4 | 5870.0 | 5873.5 | 3.53 |
| 2380. | 5806.7 | 5610.1 | 5613.6 | 5817.1 | 5820.6 | 5824.2 | 5827.7 | 5831.2 | 5834.7 | 5836.2 | 3.51 |

MICA RESERVOIR CAPACITY TABLE

| ELEVATION IN FEET | | | | | | | | | | | AVERAGE DIFFERENCE PER TENTH FT |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------------------------|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 2379. | 5771.9 | 5775.3 | 5778.8 | 5782.3 | 5785.7 | 5789.2 | 5792.7 | 5796.2 | 5799.7 | 5803.2 | 3.48 |
| 2378. | 5737.3 | 5740.8 | 5774.2 | 5747.6 | 5751.1 | 5754.5 | 5758.0 | 5761.5 | 5764.9 | 5766.4 | 3.45 |
| 2377. | 5703.0 | 5706.4 | 5709.9 | 5713.3 | 5716.7 | 5720.1 | 5723.6 | 5727.0 | 5730.4 | 5733.9 | 3.43 |
| 2376. | 5669.0 | 5672.4 | 5675.8 | 5679.2 | 5682.6 | 5686.0 | 5689.4 | 5692.8 | 5696.2 | 5699.6 | 3.40 |
| 2375. | 5635.2 | 5638.6 | 5642.0 | 5645.3 | 5648.7 | 5652.1 | 5655.5 | 5658.8 | 5662.2 | 5665.6 | 3.38 |
| 2374. | 5601.7 | 5605.0 | 5608.4 | 5611.7 | 5615.1 | 5618.4 | 5621.8 | 5625.1 | 5628.5 | 5631.9 | 3.35 |
| 2373. | 5568.4 | 5571.7 | 5575.0 | 5578.4 | 5581.7 | 5585.0 | 5588.3 | 5591.7 | 5595.0 | 5598.3 | 3.33 |
| 2372. | 5535.3 | 5538.6 | 5541.9 | 5545.2 | 5548.5 | 5551.8 | 5555.1 | 5558.5 | 5561.8 | 5565.1 | 3.31 |
| 2371. | 5502.5 | 5505.8 | 5509.1 | 5512.3 | 5515.6 | 5518.9 | 5522.2 | 5525.5 | 5528.8 | 5532.0 | 3.28 |
| 2370. | 5469.9 | 5473.2 | 5476.4 | 5479.7 | 5482.9 | 5486.2 | 5489.5 | 5492.7 | 5496.0 | 5499.2 | 3.26 |
| 2369. | 5437.6 | 5440.8 | 5444.0 | 5447.2 | 5450.5 | 5453.7 | 5456.9 | 5460.2 | 5463.4 | 5466.7 | 3.24 |
| 2368. | 5405.4 | 5408.6 | 5411.8 | 5415.0 | 5418.2 | 5421.4 | 5424.7 | 5427.9 | 5431.1 | 5434.3 | 3.21 |
| 2367. | 5373.5 | 5376.7 | 5379.8 | 5383.0 | 5386.2 | 5389.4 | 5392.6 | 5395.8 | 5399.0 | 5402.2 | 3.19 |
| 2366. | 5341.7 | 5344.9 | 5348.1 | 5351.2 | 5354.4 | 5357.6 | 5360.8 | 5363.9 | 5367.1 | 5370.3 | 3.17 |
| 2365. | 5310.2 | 5313.4 | 5316.5 | 5319.7 | 5322.8 | 5326.0 | 5329.1 | 5332.3 | 5335.4 | 5338.6 | 3.15 |
| 2364. | 5276.9 | 5282.0 | 5285.2 | 5288.3 | 5291.4 | 5294.6 | 5297.7 | 5300.8 | 5304.0 | 5307.1 | 3.13 |
| 2363. | 5247.8 | 5250.9 | 5254.0 | 5257.1 | 5260.2 | 5263.3 | 5266.5 | 5269.6 | 5272.7 | 5275.8 | 3.11 |
| 2362. | 5216.9 | 5220.0 | 5223.1 | 5226.2 | 5229.3 | 5232.3 | 5235.4 | 5238.5 | 5241.5 | 5244.7 | 3.09 |
| 2361. | 5186.2 | 5189.3 | 5192.3 | 5195.4 | 5198.5 | 5201.5 | 5204.6 | 5207.7 | 5210.6 | 5213.8 | 3.07 |
| 2360. | 5155.7 | 5158.7 | 5161.6 | 5164.8 | 5167.9 | 5170.9 | 5174.0 | 5177.0 | 5180.1 | 5183.1 | 3.05 |
| 2359. | 5125.3 | 5128.4 | 5131.4 | 5134.4 | 5137.4 | 5140.5 | 5143.5 | 5146.6 | 5149.6 | 5152.6 | 3.03 |
| 2358. | 5095.2 | 5098.2 | 5101.2 | 5104.2 | 5107.2 | 5110.2 | 5113.3 | 5116.3 | 5119.3 | 5122.3 | 3.02 |
| 2357. | 5065.2 | 5068.2 | 5071.2 | 5074.2 | 5077.2 | 5080.2 | 5083.2 | 5086.2 | 5089.2 | 5092.2 | 3.00 |
| 2356. | 5035.4 | 5036.4 | 5041.4 | 5044.3 | 5047.3 | 5050.3 | 5053.3 | 5056.2 | 5059.2 | 5062.2 | 2.98 |
| 2355. | 5055.8 | 5008.7 | 5011.7 | 5014.7 | 5017.6 | 5020.6 | 5023.5 | 5026.5 | 5029.5 | 5032.4 | 2.96 |

MICA RESERVOIR CAPACITY TABLE

| ELEVATION IN FEET | | | | | | | | | | | AVERAGE DIFFERENCE PER TENTH FT |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------------------------|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 2354. | 4976.3 | 4979.3 | 4982.2 | 4985.1 | 4988.1 | 4991.0 | 4994.0 | 4996.9 | 4999.9 | 5002.8 | 2.95 |
| 2353. | 4947.0 | 4950.0 | 4952.9 | 4955.8 | 4958.7 | 4961.7 | 4964.6 | 4967.5 | 4970.5 | 4973.4 | 2.93 |
| 2352. | 4917.9 | 4920.8 | 4923.7 | 4926.6 | 4929.5 | 4932.4 | 4935.4 | 4938.3 | 4941.2 | 4944.1 | 2.91 |
| 2351. | 4886.9 | 4891.8 | 4894.7 | 4897.6 | 4900.5 | 4903.4 | 4906.3 | 4909.2 | 4912.1 | 4915.0 | 2.90 |
| 2350. | 4860.1 | 4863.0 | 4865.9 | 4868.8 | 4871.6 | 4874.5 | 4877.4 | 4880.3 | 4883.2 | 4886.1 | 2.88 |
| 2349. | 4831.5 | 4834.3 | 4837.2 | 4840.1 | 4842.9 | 4845.8 | 4848.6 | 4851.5 | 4854.4 | 4857.3 | 2.87 |
| 2348. | 4803.0 | 4805.8 | 4808.7 | 4811.5 | 4814.3 | 4817.2 | 4820.1 | 4822.9 | 4825.8 | 4828.6 | 2.85 |
| 2347. | 4774.6 | 4777.4 | 4780.3 | 4783.1 | 4785.9 | 4788.8 | 4791.6 | 4794.4 | 4797.3 | 4800.1 | 2.84 |
| 2346. | 4746.4 | 4749.2 | 4752.0 | 4754.8 | 4757.7 | 4760.5 | 4763.3 | 4766.1 | 4768.9 | 4771.8 | 2.82 |
| 2345. | 4718.3 | 4721.1 | 4723.9 | 4726.7 | 4729.5 | 4732.3 | 4735.1 | 4738.0 | 4740.8 | 4743.6 | 2.81 |
| 2344. | 4690.4 | 4693.2 | 4696.0 | 4698.7 | 4701.5 | 4704.3 | 4707.1 | 4709.9 | 4712.7 | 4715.5 | 2.79 |
| 2343. | 4662.6 | 4665.4 | 4668.1 | 4670.9 | 4673.7 | 4676.5 | 4679.2 | 4682.0 | 4684.8 | 4687.6 | 2.78 |
| 2342. | 4634.9 | 4637.7 | 4640.4 | 4643.2 | 4646.0 | 4648.7 | 4651.5 | 4654.3 | 4657.0 | 4659.8 | 2.77 |
| 2341. | 4607.4 | 4610.1 | 4612.9 | 4615.6 | 4618.4 | 4621.1 | 4623.9 | 4626.6 | 4629.4 | 4632.2 | 2.75 |
| 2340. | 4580.0 | 4582.7 | 4585.4 | 4588.2 | 4590.9 | 4593.7 | 4596.4 | 4599.1 | 4601.9 | 4604.6 | 2.74 |
| 2339. | 4552.7 | 4555.4 | 4558.1 | 4560.8 | 4563.6 | 4566.3 | 4569.0 | 4571.6 | 4574.5 | 4577.2 | 2.73 |
| 2338. | 4525.4 | 4528.1 | 4530.9 | 4533.6 | 4536.3 | 4539.0 | 4541.7 | 4544.5 | 4547.2 | 4549.9 | 2.72 |
| 2337. | 4498.3 | 4501.0 | 4503.7 | 4506.4 | 4509.1 | 4511.8 | 4514.5 | 4517.3 | 4520.0 | 4522.7 | 2.72 |
| 2336. | 4471.2 | 4473.9 | 4476.6 | 4479.3 | 4482.0 | 4484.7 | 4487.4 | 4490.1 | 4492.8 | 4495.5 | 2.71 |
| 2335. | 4444.1 | 4446.8 | 4449.5 | 4452.2 | 4454.9 | 4457.6 | 4460.3 | 4463.1 | 4465.8 | 4468.5 | 2.70 |
| 2334. | 4417.2 | 4419.9 | 4422.6 | 4425.3 | 4428.0 | 4430.7 | 4433.4 | 4436.1 | 4438.8 | 4441.4 | 2.69 |
| 2333. | 4390.3 | 4393.0 | 4395.7 | 4398.4 | 4401.1 | 4403.8 | 4406.5 | 4409.1 | 4411.8 | 4414.5 | 2.69 |
| 2332. | 4363.6 | 4366.2 | 4368.9 | 4371.6 | 4374.3 | 4376.9 | 4379.6 | 4382.3 | 4385.0 | 4387.7 | 2.68 |
| 2331. | 4336.8 | 4339.5 | 4342.2 | 4344.9 | 4347.5 | 4350.2 | 4352.9 | 4355.5 | 4358.2 | 4360.9 | 2.67 |
| 2330. | 4310.2 | 4312.9 | 4315.5 | 4318.2 | 4320.9 | 4323.5 | 4326.2 | 4328.8 | 4331.5 | 4334.2 | 2.66 |

MICA RESERVOIR CAPACITY TABLE

| ELEVATION IN FEET | AVERAGE DIFFERENCE PER TENTH FT | | | | | | | | | | |
|----------------------|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 2329. | 4283.6 | 4286.3 | 4289.0 | 4291.6 | 4294.3 | 4296.9 | 4299.6 | 4302.2 | 4304.9 | 4307.6 | 2.66 |
| 2328. | 4257.2 | 4259.8 | 4262.5 | 4265.1 | 4267.8 | 4270.4 | 4273.0 | 4275.7 | 4278.3 | 4281.0 | 2.65 |
| 2327. | 4230.8 | 4233.4 | 4236.0 | 4238.7 | 4241.3 | 4244.0 | 4246.6 | 4249.2 | 4251.9 | 4254.5 | 2.64 |
| 2326. | 4204.4 | 4207.1 | 4209.7 | 4212.3 | 4215.0 | 4217.6 | 4220.2 | 4222.9 | 4225.5 | 4228.1 | 2.63 |
| 2325. | 4178.2 | 4160.8 | 4183.4 | 4186.1 | 4188.7 | 4191.3 | 4193.9 | 4196.6 | 4199.2 | 4201.8 | 2.62 |
| 2324. | 4152.0 | 4154.6 | 4157.2 | 4159.9 | 4162.5 | 4165.1 | 4167.7 | 4170.3 | 4172.9 | 4175.6 | 2.62 |
| 2323. | 4125.9 | 4128.5 | 4131.1 | 4133.7 | 4136.3 | 4139.0 | 4141.6 | 4144.2 | 4146.8 | 4149.4 | 2.61 |
| 2322. | 4099.9 | 4102.5 | 4105.1 | 4107.7 | 4110.3 | 4112.9 | 4115.5 | 4118.1 | 4120.7 | 4123.3 | 2.60 |
| 2321. | 4074.0 | 4076.6 | 4079.1 | 4081.7 | 4084.3 | 4086.9 | 4089.5 | 4092.1 | 4094.7 | 4097.3 | 2.59 |
| 2320. | 4048.1 | 4050.7 | 4053.3 | 4055.9 | 4058.4 | 4061.0 | 4063.6 | 4066.2 | 4068.8 | 4071.4 | 2.59 |

LIBBY RESERVOIR CAPACITY TABLE

PAGE # 1

| ELEVATION IN FEET | AVERAGE DIFFERENCE PER TENTH FT | | | | | | | | | | |
|----------------------|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 2459. | 2510.5 | | | | | | | | | | |
| 2458. | 2487.1 | 2489.4 | 2491.8 | 2494.1 | 2496.5 | 2498.8 | 2501.1 | 2503.5 | 2505.8 | 2508.2 | 2.34 |
| 2457. | 2463.8 | 2466.1 | 2468.5 | 2470.8 | 2473.1 | 2475.4 | 2477.8 | 2480.1 | 2482.4 | 2484.8 | 2.33 |
| 2456. | 2440.6 | 2442.9 | 2445.2 | 2447.6 | 2449.9 | 2452.2 | 2454.5 | 2456.8 | 2459.2 | 2461.5 | 2.32 |
| 2455. | 2417.5 | 2419.8 | 2422.1 | 2424.4 | 2426.7 | 2429.0 | 2431.4 | 2433.7 | 2436.0 | 2438.3 | 2.31 |
| 2454. | 2394.5 | 2396.8 | 2399.1 | 2401.4 | 2403.7 | 2406.0 | 2408.3 | 2410.6 | 2412.9 | 2415.2 | 2.30 |
| 2453. | 2371.6 | 2373.9 | 2376.2 | 2378.5 | 2380.8 | 2383.0 | 2385.3 | 2387.6 | 2389.9 | 2392.2 | 2.29 |
| 2452. | 2348.8 | 2351.1 | 2353.4 | 2355.6 | 2357.9 | 2360.2 | 2362.5 | 2364.8 | 2367.0 | 2369.3 | 2.28 |
| 2451. | 2326.1 | 2328.4 | 2330.6 | 2332.9 | 2335.2 | 2337.4 | 2339.7 | 2342.0 | 2344.3 | 2346.5 | 2.27 |
| 2450. | 2303.4 | 2305.7 | 2307.9 | 2310.2 | 2312.5 | 2314.7 | 2317.0 | 2319.3 | 2321.6 | 2323.8 | 2.27 |
| 2449. | 2280.9 | 2283.1 | 2285.4 | 2287.6 | 2289.9 | 2292.1 | 2294.4 | 2296.6 | 2298.9 | 2301.1 | 2.25 |
| 2448. | 2258.4 | 2260.6 | 2262.9 | 2265.1 | 2267.4 | 2269.6 | 2271.9 | 2274.1 | 2276.4 | 2278.6 | 2.25 |
| 2447. | 2236.1 | 2238.3 | 2240.6 | 2242.8 | 2245.0 | 2247.2 | 2249.5 | 2251.7 | 2253.9 | 2256.2 | 2.23 |
| 2446. | 2213.8 | 2216.0 | 2218.3 | 2220.5 | 2222.7 | 2224.9 | 2227.2 | 2229.4 | 2231.6 | 2233.9 | 2.23 |
| 2445. | 2191.7 | 2193.9 | 2196.1 | 2198.3 | 2200.5 | 2202.7 | 2205.0 | 2207.2 | 2209.4 | 2211.6 | 2.21 |
| 2444. | 2170.0 | 2172.2 | 2174.3 | 2176.5 | 2178.7 | 2180.8 | 2183.0 | 2185.2 | 2187.4 | 2189.5 | 2.17 |
| 2443. | 2147.7 | 2149.9 | 2152.2 | 2154.4 | 2156.6 | 2158.8 | 2161.1 | 2163.3 | 2165.5 | 2167.8 | 2.23 |
| 2442. | 2125.9 | 2128.1 | 2130.3 | 2132.4 | 2134.6 | 2136.8 | 2139.0 | 2141.2 | 2143.3 | 2145.5 | 2.18 |
| 2441. | 2104.1 | 2106.3 | 2108.5 | 2110.6 | 2112.8 | 2115.0 | 2117.2 | 2119.4 | 2121.5 | 2123.7 | 2.18 |
| 2440. | 2082.5 | 2084.7 | 2086.8 | 2089.0 | 2091.1 | 2093.3 | 2095.5 | 2097.6 | 2099.8 | 2101.9 | 2.16 |
| 2439. | 2061.0 | 2063.1 | 2065.3 | 2067.4 | 2069.6 | 2071.7 | 2073.9 | 2076.0 | 2078.2 | 2080.3 | 2.15 |
| 2438. | 2039.5 | 2041.6 | 2043.8 | 2045.9 | 2048.1 | 2050.2 | 2052.4 | 2054.5 | 2056.7 | 2058.8 | 2.15 |
| 2437. | 2018.2 | 2020.3 | 2022.5 | 2024.6 | 2026.7 | 2028.8 | 2031.0 | 2033.1 | 2035.2 | 2037.4 | 2.13 |
| 2436. | 1997.0 | 1999.1 | 2001.2 | 2003.4 | 2005.5 | 2007.6 | 2009.7 | 2011.8 | 2014.0 | 2016.1 | 2.12 |
| 2435. | 1975.9 | 1978.0 | 1980.1 | 1982.2 | 1984.3 | 1986.4 | 1988.6 | 1990.7 | 1992.8 | 1994.9 | 2.11 |

LIBBY RESERVOIR CAPACITY TABLE

PAGE # 2

| ELEVATION IN FEET | | | | | | | | | | | AVERAGE DIFFERENCE PER TENTH FT |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------------------------|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 2434. | 1954.9 | 1957.0 | 1959.1 | 1961.2 | 1963.3 | 1965.4 | 1967.5 | 1969.6 | 1971.7 | 1973.8 | 2.10 |
| 2433. | 1934.0 | 1936.1 | 1938.2 | 1940.3 | 1942.4 | 1944.4 | 1946.5 | 1948.6 | 1950.7 | 1952.8 | 2.09 |
| 2432. | 1913.2 | 1915.3 | 1917.4 | 1919.4 | 1921.5 | 1923.6 | 1925.7 | 1927.8 | 1929.8 | 1931.9 | 2.08 |
| 2431. | 1892.5 | 1894.6 | 1896.6 | 1898.7 | 1900.8 | 1902.8 | 1904.9 | 1907.0 | 1909.1 | 1911.1 | 2.07 |
| 2430. | 1871.9 | 1874.0 | 1876.0 | 1878.1 | 1880.1 | 1882.2 | 1884.3 | 1886.3 | 1888.4 | 1890.4 | 2.06 |
| 2429. | 1851.4 | 1853.4 | 1855.5 | 1857.5 | 1859.6 | 1861.6 | 1863.7 | 1865.7 | 1867.8 | 1869.8 | 2.05 |
| 2428. | 1831.0 | 1833.0 | 1835.1 | 1837.1 | 1839.2 | 1841.2 | 1843.2 | 1845.3 | 1847.3 | 1849.4 | 2.04 |
| 2427. | 1810.7 | 1812.7 | 1814.8 | 1816.8 | 1818.8 | 1820.8 | 1822.9 | 1824.9 | 1826.9 | 1829.0 | 2.03 |
| 2426. | 1790.6 | 1792.6 | 1794.6 | 1796.6 | 1798.6 | 1800.6 | 1802.7 | 1804.7 | 1806.7 | 1808.7 | 2.01 |
| 2425. | 1770.5 | 1772.5 | 1774.5 | 1776.5 | 1778.5 | 1780.5 | 1782.6 | 1784.6 | 1786.6 | 1788.6 | 2.01 |
| 2424. | 1750.6 | 1752.6 | 1754.6 | 1756.6 | 1758.6 | 1760.5 | 1762.5 | 1764.5 | 1766.5 | 1768.5 | 1.99 |
| 2423. | 1730.8 | 1732.8 | 1734.8 | 1736.7 | 1738.7 | 1740.7 | 1742.7 | 1744.7 | 1746.6 | 1748.6 | 1.98 |
| 2422. | 1711.1 | 1713.1 | 1715.0 | 1717.0 | 1719.0 | 1720.9 | 1722.9 | 1724.9 | 1726.9 | 1728.8 | 1.97 |
| 2421. | 1691.5 | 1693.5 | 1695.4 | 1697.4 | 1699.3 | 1701.3 | 1703.3 | 1705.2 | 1707.2 | 1709.1 | 1.96 |
| 2420. | 1672.0 | 1673.9 | 1675.9 | 1677.8 | 1679.8 | 1681.7 | 1683.7 | 1685.6 | 1687.6 | 1689.5 | 1.95 |
| 2419. | 1652.6 | 1654.5 | 1656.5 | 1658.4 | 1660.4 | 1662.3 | 1664.2 | 1666.2 | 1668.1 | 1670.1 | 1.94 |
| 2418. | 1633.3 | 1635.2 | 1637.2 | 1639.1 | 1641.0 | 1642.9 | 1644.9 | 1646.8 | 1648.7 | 1650.7 | 1.93 |
| 2417. | 1614.2 | 1616.1 | 1618.0 | 1619.9 | 1621.8 | 1623.7 | 1625.7 | 1627.6 | 1629.5 | 1631.4 | 1.91 |
| 2416. | 1595.2 | 1597.1 | 1599.0 | 1600.9 | 1602.8 | 1604.7 | 1606.6 | 1608.5 | 1610.4 | 1612.3 | 1.90 |
| 2415. | 1576.3 | 1578.2 | 1580.1 | 1582.0 | 1583.9 | 1585.7 | 1587.6 | 1589.5 | 1591.4 | 1593.3 | 1.89 |
| 2414. | 1557.5 | 1559.4 | 1561.3 | 1563.1 | 1565.0 | 1566.9 | 1568.8 | 1570.7 | 1572.5 | 1574.4 | 1.88 |
| 2413. | 1538.9 | 1540.8 | 1542.6 | 1544.5 | 1546.3 | 1548.2 | 1550.1 | 1551.9 | 1553.8 | 1555.6 | 1.86 |
| 2412. | 1520.3 | 1522.2 | 1524.0 | 1525.9 | 1527.7 | 1529.6 | 1531.5 | 1533.3 | 1535.2 | 1537.0 | 1.86 |
| 2411. | 1501.9 | 1503.7 | 1505.6 | 1507.4 | 1509.3 | 1511.1 | 1512.9 | 1514.8 | 1516.6 | 1518.5 | 1.84 |
| 2410. | 1483.6 | 1485.4 | 1487.3 | 1489.1 | 1490.9 | 1492.7 | 1494.6 | 1496.4 | 1498.2 | 1500.1 | 1.83 |

LIBBY RESERVOIR CAPACITY TABLE

PAGE # 3

| ELEVATION IN FEET | AVERAGE DIFFERENCE PER TENTH FT | | | | | | | | | | |
|----------------------|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 2409. | 1465.5 | 1467.3 | 1469.1 | 1470.9 | 1472.7 | 1474.5 | 1476.4 | 1478.2 | 1480.0 | 1481.8 | 1.81 |
| 2408. | 1447.6 | 1449.4 | 1451.2 | 1453.0 | 1454.8 | 1456.5 | 1458.3 | 1460.1 | 1461.9 | 1463.7 | 1.79 |
| 2407. | 1429.7 | 1431.5 | 1433.3 | 1435.1 | 1436.9 | 1438.6 | 1440.4 | 1442.2 | 1444.0 | 1445.8 | 1.79 |
| 2406. | 1412.1 | 1413.9 | 1415.6 | 1417.4 | 1419.1 | 1420.9 | 1422.7 | 1424.4 | 1426.2 | 1427.9 | 1.76 |
| 2405. | 1394.6 | 1396.3 | 1398.1 | 1399.8 | 1401.6 | 1403.3 | 1405.1 | 1406.8 | 1408.6 | 1410.3 | 1.75 |
| 2404. | 1377.4 | 1379.1 | 1380.8 | 1382.6 | 1384.3 | 1386.0 | 1387.7 | 1389.4 | 1391.2 | 1392.9 | 1.72 |
| 2403. | 1360.3 | 1362.0 | 1363.7 | 1365.4 | 1367.1 | 1368.8 | 1370.6 | 1372.3 | 1374.0 | 1375.7 | 1.71 |
| 2402. | 1343.3 | 1345.0 | 1346.7 | 1348.4 | 1350.1 | 1351.8 | 1353.5 | 1355.2 | 1356.9 | 1358.6 | 1.70 |
| 2401. | 1326.6 | 1328.3 | 1329.9 | 1331.6 | 1333.3 | 1334.9 | 1336.6 | 1338.3 | 1340.0 | 1341.6 | 1.67 |
| 2400. | 1310.0 | 1311.7 | 1313.3 | 1315.0 | 1316.6 | 1318.3 | 1320.0 | 1321.6 | 1323.3 | 1324.9 | 1.66 |
| 2399. | 1293.6 | 1295.2 | 1296.9 | 1298.5 | 1300.2 | 1301.8 | 1303.4 | 1305.1 | 1306.7 | 1308.4 | 1.64 |
| 2398. | 1277.3 | 1278.9 | 1280.6 | 1282.2 | 1283.8 | 1285.4 | 1287.1 | 1288.7 | 1290.3 | 1292.0 | 1.63 |
| 2397. | 1261.2 | 1262.8 | 1264.4 | 1266.0 | 1267.6 | 1269.2 | 1270.9 | 1272.5 | 1274.1 | 1275.7 | 1.61 |
| 2396. | 1245.2 | 1246.8 | 1248.4 | 1250.0 | 1251.6 | 1253.2 | 1254.8 | 1256.4 | 1258.0 | 1259.6 | 1.60 |
| 2395. | 1229.4 | 1231.0 | 1232.6 | 1234.1 | 1235.7 | 1237.3 | 1238.9 | 1240.5 | 1242.0 | 1243.6 | 1.58 |
| 2394. | 1213.7 | 1215.3 | 1216.8 | 1218.4 | 1220.0 | 1221.5 | 1223.1 | 1224.7 | 1226.3 | 1227.8 | 1.57 |
| 2393. | 1198.1 | 1199.7 | 1201.2 | 1202.8 | 1204.3 | 1205.9 | 1207.5 | 1209.0 | 1210.6 | 1212.1 | 1.56 |
| 2392. | 1182.8 | 1184.3 | 1185.9 | 1187.4 | 1188.9 | 1190.4 | 1192.0 | 1193.5 | 1195.0 | 1196.6 | 1.53 |
| 2391. | 1167.5 | 1169.0 | 1170.6 | 1172.1 | 1173.6 | 1175.1 | 1176.7 | 1178.2 | 1179.7 | 1181.3 | 1.53 |
| 2390. | 1152.4 | 1153.9 | 1155.4 | 1156.9 | 1158.4 | 1159.9 | 1161.5 | 1163.0 | 1164.5 | 1166.0 | 1.51 |
| 2389. | 1137.4 | 1138.9 | 1140.4 | 1141.9 | 1143.4 | 1144.9 | 1146.4 | 1147.9 | 1149.4 | 1150.9 | 1.50 |
| 2388. | 1122.5 | 1124.0 | 1125.5 | 1127.0 | 1128.5 | 1129.9 | 1131.4 | 1132.9 | 1134.4 | 1135.9 | 1.49 |
| 2387. | 1107.7 | 1109.2 | 1110.7 | 1112.1 | 1113.6 | 1115.1 | 1116.6 | 1118.1 | 1119.5 | 1121.0 | 1.48 |
| 2386. | 1093.0 | 1094.5 | 1095.9 | 1097.4 | 1098.9 | 1100.3 | 1101.8 | 1103.3 | 1104.8 | 1106.2 | 1.47 |
| 2385. | 1078.4 | 1079.9 | 1081.3 | 1082.8 | 1084.2 | 1085.7 | 1087.2 | 1088.6 | 1090.1 | 1091.5 | 1.46 |

LIBBY RESERVOIR CAPACITY TABLE

PAGE # 4

| ELEVATION IN FEET | AVERAGE DIFFERENCE PER TENTH FT | | | | | | | | | | |
|----------------------|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 2384. | 1063.8 | 1065.3 | 1066.7 | 1068.2 | 1069.6 | 1071.1 | 1072.6 | 1074.0 | 1075.5 | 1076.9 | 1.46 |
| 2383. | 1049.3 | 1050.7 | 1052.2 | 1053.6 | 1055.1 | 1056.5 | 1058.0 | 1059.4 | 1060.9 | 1062.3 | 1.45 |
| 2382. | 1034.9 | 1036.3 | 1037.8 | 1039.2 | 1040.7 | 1042.1 | 1043.5 | 1045.0 | 1046.4 | 1047.9 | 1.44 |
| 2381. | 1020.6 | 1022.0 | 1023.5 | 1024.9 | 1026.3 | 1027.7 | 1029.2 | 1030.6 | 1032.0 | 1033.5 | 1.43 |
| 2380. | 1006.3 | 1007.7 | 1009.2 | 1010.6 | 1012.0 | 1013.4 | 1014.9 | 1016.3 | 1017.7 | 1019.2 | 1.43 |
| 2379. | 992.2 | 993.6 | 995.0 | 996.4 | 997.8 | 999.2 | 1000.7 | 1002.1 | 1003.5 | 1004.9 | 1.41 |
| 2378. | 978.1 | 979.5 | 980.9 | 982.3 | 983.7 | 985.1 | 986.6 | 988.0 | 989.4 | 990.8 | 1.41 |
| 2377. | 964.1 | 965.5 | 966.9 | 968.3 | 969.7 | 971.1 | 972.5 | 973.9 | 975.3 | 976.7 | 1.40 |
| 2376. | 950.2 | 951.6 | 953.0 | 954.4 | 955.8 | 957.1 | 958.5 | 959.9 | 961.3 | 962.7 | 1.39 |
| 2375. | 936.3 | 937.7 | 939.1 | 940.5 | 941.9 | 943.2 | 944.6 | 946.0 | 947.4 | 948.8 | 1.39 |
| 2374. | 922.5 | 923.9 | 925.3 | 926.6 | 928.0 | 929.4 | 930.8 | 932.2 | 933.5 | 934.9 | 1.38 |
| 2373. | 908.8 | 910.2 | 911.5 | 912.9 | 914.3 | 915.6 | 917.0 | 918.4 | 919.8 | 921.1 | 1.37 |
| 2372. | 895.2 | 896.6 | 897.9 | 899.3 | 900.6 | 902.0 | 903.4 | 904.7 | 906.1 | 907.4 | 1.36 |
| 2371. | 881.6 | 883.0 | 884.3 | 885.7 | 887.0 | 888.4 | 889.8 | 891.1 | 892.5 | 893.8 | 1.36 |
| 2370. | 868.1 | 869.4 | 870.8 | 872.1 | 873.5 | 874.8 | 876.2 | 877.5 | 878.9 | 880.2 | 1.35 |
| 2369. | 854.7 | 856.0 | 857.4 | 858.7 | 860.1 | 861.4 | 862.7 | 864.1 | 865.4 | 866.8 | 1.34 |
| 2368. | 841.3 | 842.6 | 844.0 | 845.3 | 846.7 | 848.0 | 849.3 | 850.7 | 852.0 | 853.4 | 1.34 |
| 2367. | 828.1 | 829.4 | 830.7 | 832.1 | 833.4 | 834.7 | 836.0 | 837.3 | 838.7 | 840.0 | 1.32 |
| 2366. | 815.0 | 816.3 | 817.6 | 818.9 | 820.2 | 821.5 | 822.9 | 824.2 | 825.5 | 826.8 | 1.31 |
| 2365. | 801.9 | 803.2 | 804.5 | 805.8 | 807.1 | 808.4 | 809.8 | 811.1 | 812.4 | 813.7 | 1.31 |
| 2364. | 788.9 | 790.2 | 791.5 | 792.8 | 794.1 | 795.4 | 796.7 | 798.0 | 799.3 | 800.6 | 1.30 |
| 2363. | 776.0 | 777.3 | 778.6 | 779.9 | 781.2 | 782.4 | 783.7 | 785.0 | 786.3 | 787.6 | 1.29 |
| 2362. | 763.2 | 764.5 | 765.8 | 767.0 | 768.3 | 769.6 | 770.9 | 772.2 | 773.4 | 774.7 | 1.28 |
| 2361. | 750.5 | 751.8 | 753.0 | 754.3 | 755.6 | 756.8 | 758.1 | 759.4 | 760.7 | 761.9 | 1.27 |
| 2360. | 737.9 | 739.2 | 740.4 | 741.7 | 742.9 | 744.2 | 745.5 | 746.7 | 748.0 | 749.2 | 1.26 |

LIBBY RESERVOIR CAPACITY TABLE

PAGE # 5

| ELEVATION IN FEET | AVERAGE DIFFERENCE PER TENTH FT | | | | | | | | | | |
|----------------------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 2359. | 725.3 | 726.6 | 727.8 | 729.1 | 730.3 | 731.6 | 732.9 | 734.1 | 735.4 | 736.6 | 1.26 |
| 2358. | 712.8 | 714.0 | 715.3 | 716.5 | 717.8 | 719.0 | 720.3 | 721.5 | 722.8 | 724.0 | 1.25 |
| 2357. | 700.4 | 701.6 | 702.9 | 704.1 | 705.4 | 706.6 | 707.8 | 709.1 | 710.3 | 711.6 | 1.24 |
| 2356. | 688.0 | 689.2 | 690.5 | 691.7 | 693.0 | 694.2 | 695.4 | 696.7 | 697.9 | 699.2 | 1.24 |
| 2355. | 675.7 | 676.9 | 678.2 | 679.4 | 680.6 | 681.8 | 683.1 | 684.3 | 685.5 | 686.8 | 1.23 |
| 2354. | 663.5 | 664.7 | 665.9 | 667.2 | 668.4 | 669.6 | 670.8 | 672.0 | 673.3 | 674.5 | 1.22 |
| 2353. | 651.4 | 652.6 | 653.8 | 655.0 | 656.2 | 657.4 | 658.7 | 659.9 | 661.1 | 662.3 | 1.21 |
| 2352. | 639.3 | 640.5 | 641.7 | 642.9 | 644.1 | 645.3 | 646.6 | 647.8 | 649.0 | 650.2 | 1.21 |
| 2351. | 627.3 | 628.5 | 629.7 | 630.9 | 632.1 | 633.3 | 634.5 | 635.7 | 636.9 | 638.1 | 1.20 |
| 2350. | 615.3 | 616.5 | 617.7 | 618.9 | 620.1 | 621.3 | 622.5 | 623.7 | 624.9 | 626.1 | 1.20 |
| 2349. | 603.4 | 604.6 | 605.8 | 607.0 | 608.2 | 609.3 | 610.5 | 611.7 | 612.9 | 614.1 | 1.19 |
| 2348. | 591.6 | 592.8 | 594.0 | 595.1 | 596.3 | 597.5 | 598.7 | 599.9 | 601.0 | 602.2 | 1.18 |
| 2347. | 579.8 | 581.0 | 582.2 | 583.3 | 584.5 | 585.7 | 586.9 | 588.1 | 589.2 | 590.4 | 1.18 |
| 2346. | 568.1 | 569.3 | 570.4 | 571.6 | 572.8 | 573.9 | 575.1 | 576.3 | 577.5 | 578.6 | 1.17 |
| 2345. | 556.5 | 557.7 | 558.8 | 560.0 | 561.1 | 562.3 | 563.5 | 564.6 | 565.8 | 566.9 | 1.16 |
| 2344. | 544.9 | 546.1 | 547.2 | 548.4 | 549.5 | 550.7 | 551.9 | 553.0 | 554.2 | 555.3 | 1.16 |
| 2343. | 533.4 | 534.5 | 535.7 | 536.8 | 538.0 | 539.1 | 540.3 | 541.4 | 542.6 | 543.7 | 1.15 |
| 2342. | 521.9 | 523.0 | 524.2 | 525.3 | 526.5 | 527.6 | 528.8 | 529.9 | 531.1 | 532.2 | 1.15 |
| 2341. | 510.5 | 511.6 | 512.8 | 513.9 | 515.1 | 516.2 | 517.3 | 518.5 | 519.6 | 520.8 | 1.14 |
| 2340. | 499.2 | 500.3 | 501.5 | 502.6 | 503.7 | 504.8 | 506.0 | 507.1 | 508.2 | 509.4 | 1.13 |
| 2339. | 488.0 | 489.1 | 490.2 | 491.4 | 492.5 | 493.6 | 494.7 | 495.8 | 497.0 | 498.1 | 1.12 |
| 2338. | 476.7 | 477.8 | 479.0 | 480.1 | 481.2 | 482.3 | 483.5 | 484.6 | 485.7 | 486.9 | 1.13 |
| 2337. | 465.6 | 466.7 | 467.8 | 468.9 | 470.0 | 471.1 | 472.3 | 473.4 | 474.5 | 475.6 | 1.11 |
| 2336. | 454.5 | 455.6 | 456.7 | 457.8 | 458.9 | 460.0 | 461.2 | 462.3 | 463.4 | 464.5 | 1.11 |
| 2335. | 443.5 | 444.6 | 445.7 | 446.8 | 447.9 | 449.0 | 450.1 | 451.2 | 452.3 | 453.4 | 1.10 |

Page 46

Exhibit 16

Detailed Operating Plan for 1994-95

LIBBY RESERVOIR CAPACITY TABLE

PAGE # 6

| ELEVATION IN FEET | | | | | | | | | | | AVERAGE DIFFERENCE PER TENTH FT |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------------------------|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 2334. | 432.6 | 433.7 | 434.8 | 435.9 | 437.0 | 438.0 | 439.1 | 440.2 | 441.3 | 442.4 | 1.09 |
| 2333. | 421.7 | 422.8 | 423.9 | 425.0 | 426.1 | 427.1 | 428.2 | 429.3 | 430.4 | 431.5 | 1.09 |
| 2332. | 410.8 | 411.9 | 413.0 | 414.1 | 415.2 | 416.2 | 417.3 | 418.4 | 419.5 | 420.6 | 1.09 |
| 2331. | 400.1 | 401.2 | 402.2 | 403.3 | 404.4 | 405.4 | 406.5 | 407.6 | 408.7 | 409.7 | 1.07 |
| 2330. | 389.3 | 390.4 | 391.5 | 392.5 | 393.6 | 394.7 | 395.8 | 396.9 | 397.9 | 399.0 | 1.08 |
| 2329. | 378.7 | 379.8 | 380.8 | 381.9 | 382.9 | 384.0 | 385.1 | 386.1 | 387.2 | 388.2 | 1.06 |
| 2328. | 368.2 | 369.2 | 370.3 | 371.3 | 372.4 | 373.4 | 374.5 | 375.5 | 376.6 | 377.6 | 1.05 |
| 2327. | 357.8 | 358.8 | 359.9 | 360.9 | 362.0 | 363.0 | 364.0 | 365.1 | 366.1 | 367.2 | 1.04 |
| 2326. | 347.4 | 348.4 | 349.5 | 350.5 | 351.6 | 352.6 | 353.6 | 354.7 | 355.7 | 356.8 | 1.04 |
| 2325. | 337.1 | 338.1 | 339.2 | 340.2 | 341.2 | 342.2 | 343.3 | 344.3 | 345.3 | 346.4 | 1.03 |
| 2324. | 327.0 | 328.0 | 329.0 | 330.0 | 331.0 | 332.0 | 333.1 | 334.1 | 335.1 | 336.1 | 1.01 |
| 2323. | 316.9 | 317.9 | 318.9 | 319.9 | 320.9 | 321.9 | 323.0 | 324.0 | 325.0 | 326.0 | 1.01 |
| 2322. | 306.9 | 307.9 | 308.9 | 309.9 | 310.9 | 311.9 | 312.9 | 313.9 | 314.9 | 315.9 | 1.00 |
| 2321. | 297.0 | 298.0 | 299.0 | 300.0 | 301.0 | 301.9 | 302.9 | 303.9 | 304.9 | 305.9 | 0.99 |
| 2320. | 287.2 | 288.2 | 289.2 | 290.1 | 291.1 | 292.1 | 293.1 | 294.1 | 295.0 | 296.0 | 0.98 |
| 2319. | 277.5 | 278.5 | 279.4 | 280.4 | 281.4 | 282.3 | 283.3 | 284.3 | 285.3 | 286.2 | 0.97 |
| 2318. | 267.8 | 268.8 | 269.7 | 270.7 | 271.7 | 272.6 | 273.6 | 274.6 | 275.6 | 276.5 | 0.97 |
| 2317. | 258.2 | 259.2 | 260.1 | 261.1 | 262.0 | 263.0 | 264.0 | 264.9 | 265.9 | 266.8 | 0.96 |
| 2316. | 248.7 | 249.6 | 250.6 | 251.5 | 252.5 | 253.4 | 254.4 | 255.3 | 256.3 | 257.2 | 0.95 |
| 2315. | 239.1 | 240.1 | 241.0 | 242.0 | 242.9 | 243.9 | 244.9 | 245.8 | 246.8 | 247.7 | 0.96 |
| 2314. | 229.7 | 230.6 | 231.6 | 232.5 | 233.5 | 234.4 | 235.3 | 236.3 | 237.2 | 238.2 | 0.94 |
| 2313. | 220.3 | 221.2 | 222.2 | 223.1 | 224.1 | 225.0 | 225.9 | 226.9 | 227.8 | 228.8 | 0.94 |
| 2312. | 210.9 | 211.8 | 212.8 | 213.7 | 214.7 | 215.6 | 216.5 | 217.5 | 218.4 | 219.4 | 0.94 |
| 2311. | 201.6 | 202.5 | 203.5 | 204.4 | 205.3 | 206.2 | 207.2 | 208.1 | 209.0 | 210.0 | 0.93 |
| 2310. | 192.3 | 193.2 | 194.2 | 195.1 | 196.0 | 196.9 | 197.9 | 198.8 | 199.7 | 200.7 | 0.93 |

LIBBY RESERVOIR CAPACITY TABLE

PAGE # 7

| ELEVATION IN FEET | AVERAGE DIFFERENCE PER TENTH FT | | | | | | | | | | |
|----------------------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | .0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 2309. | 183.1 | 184.0 | 184.9 | 185.9 | 186.8 | 187.7 | 188.6 | 189.5 | 190.5 | 191.4 | 0.92 |
| 2308. | 174.0 | 174.9 | 175.8 | 176.7 | 177.6 | 178.5 | 179.5 | 180.4 | 181.3 | 182.2 | 0.91 |
| 2307. | 164.9 | 165.8 | 166.7 | 167.6 | 168.5 | 169.4 | 170.4 | 171.3 | 172.2 | 173.1 | 0.91 |
| 2306. | 155.9 | 156.8 | 157.7 | 158.6 | 159.5 | 160.4 | 161.3 | 162.2 | 163.1 | 164.0 | 0.90 |
| 2305. | 146.9 | 147.8 | 148.7 | 149.6 | 150.5 | 151.4 | 152.3 | 153.2 | 154.1 | 155.0 | 0.90 |
| 2304. | 138.1 | 139.0 | 139.9 | 140.7 | 141.6 | 142.5 | 143.4 | 144.3 | 145.1 | 146.0 | 0.88 |
| 2303. | 129.3 | 130.2 | 131.1 | 131.9 | 132.8 | 133.7 | 134.6 | 135.5 | 136.3 | 137.2 | 0.88 |
| 2302. | 120.5 | 121.4 | 122.3 | 123.1 | 124.0 | 124.9 | 125.8 | 126.7 | 127.5 | 128.4 | 0.88 |
| 2301. | 111.8 | 112.7 | 113.5 | 114.4 | 115.3 | 116.1 | 117.0 | 117.9 | 118.8 | 119.6 | 0.87 |
| 2300. | 103.2 | 104.1 | 104.9 | 105.8 | 106.6 | 107.5 | 108.4 | 109.2 | 110.1 | 110.9 | 0.86 |
| 2299. | 99.2 | 99.6 | 100.0 | 100.4 | 100.8 | 101.2 | 101.6 | 102.0 | 102.4 | 102.8 | 0.40 |
| 2298. | 86.2 | 87.5 | 88.8 | 90.1 | 91.4 | 92.7 | 94.0 | 95.3 | 96.6 | 97.9 | 1.30 |
| 2297. | 81.6 | 82.1 | 82.5 | 83.0 | 83.4 | 83.9 | 84.4 | 84.8 | 85.3 | 85.7 | 0.46 |
| 2296. | 69.7 | 70.9 | 72.1 | 73.3 | 74.5 | 75.6 | 76.8 | 78.0 | 79.2 | 80.4 | 1.19 |
| 2295. | 61.5 | 62.3 | 63.1 | 64.0 | 64.8 | 65.6 | 66.4 | 67.2 | 68.1 | 68.9 | 0.82 |
| 2294. | 53.5 | 54.3 | 55.1 | 55.9 | 56.7 | 57.5 | 58.3 | 59.1 | 59.9 | 60.7 | 0.80 |
| 2293. | 45.6 | 46.4 | 47.2 | 48.0 | 48.8 | 49.5 | 50.3 | 51.1 | 51.9 | 52.7 | 0.79 |
| 2292. | 39.2 | 39.8 | 40.5 | 41.1 | 41.8 | 42.4 | 43.0 | 43.7 | 44.3 | 45.0 | 0.64 |
| 2291. | 30.0 | 30.9 | 31.8 | 32.8 | 33.7 | 34.6 | 35.5 | 36.4 | 37.4 | 38.3 | 0.92 |
| 2290. | 22.4 | 23.2 | 23.9 | 24.7 | 25.4 | 26.2 | 27.0 | 27.7 | 28.5 | 29.2 | 0.76 |
| 2289. | 14.8 | 15.6 | 16.3 | 17.1 | 17.8 | 18.6 | 19.4 | 20.1 | 20.9 | 21.6 | 0.76 |
| 2288. | 7.4 | 8.1 | 8.9 | 9.6 | 10.4 | 11.1 | 11.8 | 12.6 | 13.3 | 14.1 | 0.74 |
| 2287. | 0.0 | 0.7 | 1.5 | 2.2 | 3.0 | 3.7 | 4.4 | 5.2 | 5.9 | 6.7 | 0.74 |