Operations Description for Bureau of Reclamation Projects in the Snake River Basin above Brownlee Reservoir

Appendices

U.S. Department of the Interior
Bureau of Reclamation
On the cover: "Map Rock" is a petroglyph-covered boulder located on private property just north of the Snake River in southwest Idaho. The carvings are credited to the Shoshone Indians and are estimated to have been made between the period 3000 and 1500 B.C.E. (before common era).

Early 20th-century Idaho explorer and naturalist Robert W. Limbert interpreted the map literally, believing the glyph depicted the entire Snake River and Columbia River region. A contemporary noted as "an Indian expert," John E. Rees of Salmon, Idaho, believed the map represented the Snake River region in Idaho. However, "...contemporary rock art experts believe some of the petroglyphs are maps, but the actual number is quite small. ...[M]ost archaeologists agree that the uncanny arrangement of these designs to seemingly represent topographic features makes Map Rock significant."

(Text adapted from "Map Rock, Culture Resources Information Series, Number 3," Fall 2001, Boise District, Bureau of Land Management; photo by Barry Rose, BLM Lower Snake River District, April 2001.)
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EXPLANATION OF GRAPHS

Typical storage and outflows for dry, average, and wet years:

These graphs depict the historical daily operations for specific years that fall into the categories of “dry,” “average,” and “wet” conditions. The year chosen for each category serves as a generalized example of the operations that may be typical in such a year but does not represent the entire range of possible operations. Operations in any given year will differ based on carryover conditions from the prior year, spatial distribution of the water supply, special operating requests, and other unforeseen factors.

Summary hydrographs of maximum, median, and minimum storage and outflows by month:

These graphs depict the entire range of operations that have occurred for the listed period of record. Data for each day of the water year, for each year of the period of record, were examined and the maximum, median, and minimum values were plotted. For example, all of the October 1 readings for the period 1971-2003 (33 separate values) were ranked, and the maximum, minimum, and median values were plotted. October 2 values were similarly processed, then October 3, etc., until the entire water year was analyzed. It is important to note, therefore, that the plots do not represent a single water year, but rather they are a composite of the records for each individual day. The period 1971-2003 was chosen, where possible, to most accurately reflect modern operations of the fully developed Upper Snake system, while still closely corresponding with the official 1971-2000 period of record.
Jackson Lake Dam and Jackson Lake – Minidoka Project, ID-WY

Typical storage and outflows for dry, average, and wet years

Summary hydrographs of maximum, median, and minimum storage and outflows by month
Grassy Lake Dam and Grassy Lake – Minidoka Project, ID-WY

Typical storage for dry, average, and wet years

Summary hydrographs of maximum, median, and minimum storage by month
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Typical storage and outflows for dry, average, and wet years

Summary hydrographs of maximum, median, and minimum storage and outflows by month
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Typical storage and outflows for dry, average, and wet years

Summary hydrographs of maximum, median, and minimum storage and outflows by month
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Typical storage and outflows for dry, average, and wet years

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Typical storage and outflows for dry, average, and wet years

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Typical storage and outflows for dry, average, and wet years

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Typical storage and outflows for dry, average, and wet years

Summary hydrographs of maximum, median, and minimum storage and outflows by month

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Boise River Diversion Dam – Boise Project, ID

Typical outflows for dry, average, and wet years

Summary hydrographs of maximum, median, and minimum outflows by month
Hubbard Dam – Boise Project, ID

Storage and Outflow information not available.
Deer Flat Dams and Lake Lowell – Boise Project, ID

Typical storage for dry, average, and wet years

Summary hydrographs of maximum, median, and minimum storage by month
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Typical storage and outflows for dry, average, and wet years

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Cascade Dam and Lake Cascade – Boise Project, ID

Typical storage and outflows for dry, average, and wet years

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Summary hydrographs of maximum, median, and minimum outflows by month
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Typical storage and outflows for dry, average, and wet years

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Typical storage and outflows for dry, average, and wet years

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Typical storage and outflows for dry, average, and wet years

Summary hydrographs of maximum, median, and minimum storage and outflows by month
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Typical storage and outflows for dry, average, and wet years

Summary hydrographs of maximum, median, and minimum storage and outflows by month
APPENDIX C.

RIVER MILE INDEX:

UPPER SNAKE RIVER BASIN

ABOVE BROWNLEE RESERVOIR
The following list is a greatly reduced river mile index for the Snake River and tributaries between Brownlee Dam and the headwaters. The mouth of the Snake River is located at river mile 324.3 of the Columbia River (confluence with the Columbia River), i.e., 324.3 miles upstream from the mouth of the Columbia River at the Pacific Ocean. River mileage numbers are compiled from USGS official documents, available at http://water.usgs.gov.waterwatch/. For Idaho locations, information is located at http://waterdata.usgs.gov/id/nwis/current?type=flow and available by selecting the individual river locations.

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<thead>
<tr>
<th>Snake RM</th>
<th>Description</th>
<th>Drainage Area (sq. mi.)</th>
<th>Water Elevation (feet)</th>
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February 2004
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APPENDIX D.

STREAM GAUGES INDEX
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<sup>1/</sup> River Mileage shown is from USGS official documents, available on http://water.usgs.gov/waterwatch

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<td>Snake River near Minidoka ID (at Howells Ferry)</td>
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<td>HALI</td>
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<td>LWOI</td>
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February 2004
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<td>COTI</td>
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<td>Cottonwood Creek Below Fivemile Creek near Boise ID</td>
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<td>VALO</td>
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<td>14.9</td>
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<td>HCDI</td>
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<td>Snake River at Hells Canyon Dam ID-OR State Line</td>
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<td>ANAW</td>
<td>13334300</td>
<td>Snake River near Anatone WA</td>
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APPENDIX E.

SPACEHOLDER CONTRACTS:

MINIDOKA AND PALISADES PROJECTS

AND BOISE PROJECT
### E.1 Minidoka and Palisades Projects

<table>
<thead>
<tr>
<th>Spaceholders</th>
<th>Lower Valley Organizations</th>
<th>Upper Valley Organizations</th>
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<tr>
<td></td>
<td>American Falls Reservoir</td>
<td>Jackson Lake</td>
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<td>(acre-feet)</td>
<td>(acre-feet)</td>
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<td>Idaho Power Co.</td>
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<td>Aberdeen-Springfield Canal Co.³</td>
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*Table continued on following page.*
<table>
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<tr>
<th>Organizations Without Space in American Falls Reservoir</th>
<th>American Falls Reservoir (acre-feet)</th>
<th>Jackson Lake (acre-feet)</th>
<th>Palisades Reservoir (acre-feet)</th>
<th>Total Space (acre-feet)</th>
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<td><strong>1,200,000</strong></td>
<td><strong>3,719,590</strong></td>
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2/ Burley ID holds 33.5 percent and Minidoka ID holds 66.5 percent of the water accruing to store in Lake Walcott (Minidoka Dam), which is not accounted for in this table. Lake Walcott has an active storage capacity of 95,200 af. Winter power releases may be curtailed by the USBR to make additional water available for storage purposes in American Falls, Island Park, and Palisades Reservoirs in any year when these reservoirs fail to fill. The first 45,000 af of such curtailed saved water is credited to Island Park. Crediting is contingent upon spaceholders paying for power replacement.
3/ Also has space through American Falls Reservoir District.
4/ Mitigation, Inc. also holds 80,500 af in Ririe Reservoir.
5/ Totals for American Falls and Total Space columns do not add due to rounding. Fremont-Madison ID holds 135,000 af of the storage capacity in Island Park Reservoir and 15,200 af in Grassy Lake, which are not accounted for in this table and make up the Upper Snake River Storage Division of the Minidoka Project.
## E.2 Boise Project, Arrowrock Division

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<th>Spaceholders</th>
<th>Anderson Ranch Reservoir (acre-feet)</th>
<th>Arrowrock Reservoir (acre-feet)</th>
<th>Lucky Peak Reservoir (acre-feet)</th>
<th>Total Space (acre-feet)</th>
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<td></td>
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<td>(Ridenbaugh Canal)</td>
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### E.3 Boise Project, Payette Division

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