Water Supply Committee Meeting
Reservoir Operations
January 11, 2019

Brian Stevens
Upper Snake Field Office, BOR
Outline:

- Upper Snake Reservoir Status
- Jan 1 Volume Forecasts
- Individual Reservoir Status/Forecast
- Operations Plan Summary
01/10/2019

System:
73% Full
128% of Avg
84% of LY
(565 KAF less)
2019 January 1 Runoff Forecasts

- **Heise = 87% Average**
- **Ririe = 74% Average**
- **Little Wood = 69% Average**
- **Island Park = 76% Average**

*Coordinated USBR and USACE Forecast
#Jan-Jul Forecast Period
+Jan-Jun Forecast Period

% Average based on 1981-2010 period

Assumes normal subsequent conditions

<table>
<thead>
<tr>
<th></th>
<th>USBR (kaf)</th>
<th>RFC (kaf)</th>
<th>NRCS (kaf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heise</td>
<td>3300</td>
<td>3420 (90%)</td>
<td>2632 (69%)</td>
</tr>
<tr>
<td>Ririe</td>
<td>55</td>
<td>51 (70%)</td>
<td>39 (53%)</td>
</tr>
<tr>
<td>Little Wood</td>
<td>65</td>
<td>53 (56%)</td>
<td>39 (41%)</td>
</tr>
<tr>
<td>Island Park</td>
<td>231</td>
<td>-</td>
<td>-</td>
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RECLAMATION
Currently @ 50% Exceedance, 84% of Last Year

* Unregulated inflow above Heise, ID (HEII QU 7-Day Average)
2019, 81% of avg snow
Jan 1 HEII QU
Forecast: 3300 kaf

Forecasts assume normal subsequent conditions
OCT-DEC Oceanic Nino Index vs APR-SEP Historical Water Supply Runoff

(HEII1) SNAKE - NEAR HEISE (1971-2018)

- Runoff for Given Water Year
- ONI vs Runoff Trendline
- 30 Year Normal (1981-2010)

La Niña
Neutral
El Niño

Latest Available ONI Index for QND: 11/01/2017
Created: 01/10/2019 01:04 PST
October Through November Heise QU Runoff Volume

77% of Last Year
100% of Average
Reclamation

Unregulated Inflow above River, ID (Hei Au 7-Day Average)
Palisades Reservoir

- 25% Exceedance to 10% Exceedance
- 50% Exceedance to 25% Exceedance
- 75% Exceedance to 50% Exceedance
- 90% Exceedance to 75% Exceedance
- Up to 90% Exceedance (not shown in plot)

Average
- 2018
- 2019

Storage (acre-feet)
Estimated 2019 peak storage
Willow Creek Watershed (Somsen Ranch & Sheep Mountain Snotel Sites)

01/11/2019 Percent Median: 96% (6.0 / 6.2)
Percent Seasonal Median: 48% (6.0 / 12.6)

2019, 97% avg
Inflow into Ririe Reservoir (RIR QU 7-Day Avg)

*Currently @ 50th Percentile

Flow (cfs)

-50 -30 -10 10 30 50 70 90 110 130 150

-10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

RECLAMATION
Preliminary Operational Plan*

• **Jackson Lake Dam** – Stay at 460 cfs until changes are necessary to manage fill.

• **Palisades Dam** – Stay at 900 cfs until changes are necessary to manage fill.

• **Island Park Dam** – Stay at 500 cfs until ice on the reservoir recedes, then allow to fill.

• **Ririe Dam** – Forecasted reservoir levels and snow conditions indicate no need to make any release until late summer.

• **American Falls** – Currently at 530 cfs. Likely to be near full in March. Discharge at that time in the 900 to 5000 cfs range. Timing of irrigation demand and forecasted runoff patterns are key to March/April timing of fill.

• **Milner Dam** – Currently at 300 cfs. Discharge in March when American Falls fills potentially between 0 cfs and 4000 cfs.

*SUBJECT TO CHANGE*
For More Information:

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