Introduction and Purpose of Meeting
Tom Sawatzke, Acting Area Manager, Montana Area Office

Water Supply Outlook & Reservoir Operations
WYAO - Boysen & Buffalo Bill Operations
MTAO - Yellowtail Operations
Agency Reports

Bighorn River System Issues Group Meeting
Sediment Control Project
Crow Tribe Water Rights Settlement
Yellowstone River Conservation District Council
Operating Criteria
Basin above Buffalo Bill Reservoir
Snow Water Equivalent

<table>
<thead>
<tr>
<th>Water Year</th>
<th>April-July Inflow (acre-feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>576,500</td>
</tr>
<tr>
<td>2014</td>
<td>1,062,400</td>
</tr>
<tr>
<td>2015</td>
<td>696,400 (103% of avg)</td>
</tr>
<tr>
<td>2016</td>
<td>???</td>
</tr>
</tbody>
</table>

Average = 677,800
Buffalo Bill Reservoir 2015 Operations

Archive Data From 1-OCT Through 30-SEP
Plotted 10/28/2015 14:02 (Provisional Data Subject to Revision)
BUFFALO BILL RESERVOIR OPERATIONS
Water Year 2016 Projection (*October actuals*)

Top of Conservation = 5393.5 ft

Approximate Powerplant Capacity = 1,500 cfs

Inflow
Outflow
Elevation

Tick marks represent end of month

BUFFALO BILL RESERVOIR OPERATIONS
Water Year 2016 Projection (*October actuals*)

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Inflow
Outflow
Elevation

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Basin above Boysen Reservoir
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<td>216,300</td>
</tr>
<tr>
<td>2014</td>
<td>694,500</td>
</tr>
<tr>
<td>2015</td>
<td>749,700 (140% of avg)</td>
</tr>
<tr>
<td>2016</td>
<td>???</td>
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</tbody>
</table>

Average = 533,800
Wind River Basin Precipitation

2015 Monthly Precipitation above Boysen Reservoir

- November: 0.05 inches
- December: 0.1 inches
- January: 0.7 inches
- February: 1.0 inches
- March: 0.5 inches
- April: 1.5 inches
- May: 4.7 inches
- June: 1.0 inches
- July: 0.7 inches
- August: 0.5 inches
- September: 0.7 inches

Legend:
- [Red] 2015
- [Black] 30 year avg

Monthly Precipitation (inches)
BOYSEN RESERVOIR OPERATIONS
Water Year 2016 Projection

- Top of Joint Use Pool = 4725 ft
- Approximate Powerplant Capacity = 2,300 cfs

Tick marks represent end of month

[Diagram showing inflow, outflow, and elevation graphs for each month from October to September.]
Water Year 2015 Review for Yellowtail Dam/Bighorn Lake
Mountain Snowpack

April-July Runoff
2015: 1,543 KAF
2014: 1,725 KAF
Avg: 1,082 KAF

Snow Water Equivalent (inches)

Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep

Average 2015 2014

2015: 1,543 KAF
2014: 1,725 KAF
Avg: 1,082 KAF
Mountain Snowpack

Snow Water Equivalent (inches)

Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep

April-July Runoff
2015: 1,543 KAF
2004: 392 KAF
Avg: 1,082 KAF
Bighorn River Basin Precipitation
Bighorn Lake Operations 2015

Lake Elevation (feet)

Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct

Flow (cfs)

Inflow
 Releases
 Powerplant Capacity
Water Year 2016
Fall and Winter Outlook
Mountain Snowpack

Snow Water Equivalent (inches)

- Average
- 2016
- 2015

Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep

RECLAMATION
## Conditions on November 1, 2015

<table>
<thead>
<tr>
<th></th>
<th>Details</th>
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<tr>
<td><strong>Elevation</strong></td>
<td>3634.0 feet below full pool</td>
</tr>
<tr>
<td></td>
<td>3.5 feet lower than last year</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>951,353 acre-feet: 107% of average</td>
</tr>
<tr>
<td></td>
<td>93% full</td>
</tr>
<tr>
<td><strong>Inflows</strong></td>
<td>1,840 cfs</td>
</tr>
<tr>
<td><strong>Outflow</strong></td>
<td>2,500 cfs</td>
</tr>
</tbody>
</table>
November through March Gains and Release

April-October Gain = 239,300 acre-feet

Calculated November-March Gain = 258,200 acre-feet

Upstream Reservoir Fall & Winter Releases =
  Boysen = 850 cfs
  Buffalo Bill = 205 cfs

End-of-October Storage = 952,900 acre-feet

Projected End-of-March Target Elevation = 3617 (807,900 acre-feet)

Calculated Fall & Winter Release for Yellowtail:
  River = 2,450 cfs
November Monthly Operating Plans
Most and Minimum Probable Inflow Operations

- Elevation (feet)
- River Flow (cfs)
Questions and Comments
Reclamation’s Internet Website

www.usbr.gov/gp/lakes_reservoirs/wareprts/main_menu.html

- near real-time data available through the HYDROMET data system
- summaries and plots of historical data
- annual reservoir operating plan publication
- monthly water supply reports
- project data
- snow plots
- links to related internet sites