Boysen Reservoir Operations 2018 to date

Top of Joint-Use Pool – 4,725 Feet
Boysen—WY 18 Conditions to Date

- Infow Volumes (POR 1953-2017)
  - Oct 17: 2nd Highest
  - Nov 17: New Record*
  - Dec 17: New Record*
  - Jan 18: New Record*
  - Feb 18: 9th Highest
  - Mar 18: 6th Highest
  - Oct 1 through Apr 1: New Record*
  - Currently ~ 65% full with a river release of 3,000 cfs.
Boysen Pool Elevation – 2018 vs 2017 & Average

Boysen Pool Elevation (Feet)

Top of Joint-Use Pool – 4,725 Feet

Pool Elevation (Feet)

1-Oct  1-Nov  1-Dec  1-Jan  1-Feb  1-Mar  1-Apr  1-May  1-Jun  1-Jul  1-Aug  1-Sep

2018  2017  Average

4,700  4,705  4,710  4,715  4,720  4,725  4,730

4,700  4,705  4,710  4,715  4,720  4,725  4,730
Boysen Forecast Snotel Composite

April 18, 2018
Boysen SWE – 2018 vs. Similar Years and 30 Yr. Average

Snow-Water Equivalent (Inches)

- 2018
- 2017: 1,636 KAF
- 2014: 694.5 KAF
- 1999: 1,145 KAF
- 1996: 725.4 KAF
- Avg: 577.7 KAF
Boysen – April-July Inflow Volume Forecasts (KAF)

Forecasts and Recent Actuals

<table>
<thead>
<tr>
<th>Year</th>
<th>Min</th>
<th>Expected</th>
<th>Max</th>
<th>Average</th>
<th>2017</th>
<th>2016</th>
<th>2015</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>650</td>
<td>950</td>
<td>1,250</td>
<td>578</td>
<td>1,636</td>
<td>753</td>
<td>750</td>
<td>695</td>
</tr>
</tbody>
</table>

KAF (1,000 AF)
Boysen Reservoir – Projected Pool Elevations

- **Reasonable Maximum**
- **Expected**
- **Reasonable Minimum**

Tick marks represent end of month

Top of Joint Use Pool – 4,725 FT.)
Boysen Reservoir – Projected River Flow Rates

Flow Rate (CFS)

Reasonable Maximum
Expected
Reasonable Minimum

Approximate Powerplant Capacity = 2,250 cfs
Buffalo Bill Reservoir – WY 18 Conditions to Date

- Infow Volumes (POR 1913-2017)
  - Oct 17: 3rd Highest
  - Nov 17: 2nd Highest
  - Dec 17: New Record*
  - Jan 18: 3rd Highest
  - Feb 18: 10th Highest
  - Mar 18: 15th Highest
  - Oct 1 through Mar 1: New Record*
  - Oct 1 through April 1: 2nd (Behind 2017)
  - Currently ~ 54% full and the river release being increased to 3,000 cfs on April 24th.
BBR SWE: 2018 vs. Similar Years and 30 Yr. Average

- **2018:**
- **2017:** 1,262 KAF
- **2014:** 1,062 KAF
- **1997:** 1,136 KAF
- **1996:** 1,114 KAF
- **Avg:** 704.4 KAF
Buffalo Bill Reservoir – April-July Inflow Forecast (KAF)

Forecasts and Recent Actuals

<table>
<thead>
<tr>
<th>Year</th>
<th>Min</th>
<th>Expected</th>
<th>Max</th>
<th>Average</th>
<th>2017</th>
<th>2016</th>
<th>2015</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>800</td>
<td>1,050</td>
<td>1,250</td>
<td>704</td>
<td>1,262</td>
<td>592</td>
<td>696</td>
<td>1,062</td>
</tr>
</tbody>
</table>

KAF (1,000 AF)
Buffalo Bill – Projected Pool Elevations

Top of Active Conservation (5,393.5 ft.)

Reasonable Maximum
Expected
Reasonable Minimum

Tick marks represent end of month
Buffalo Bill – Projected River Flow Rates

Approximate Powerplant Capacity = 1,450 cfs

Flow Rate (CFS)

- Reasonable Maximum
- Expected
- Reasonable Minimum

[Bar chart showing projected river flow rates for different months with approximate powerplant capacity marked.]
Questions?