OPERATIONS
PAST AND PRESENT
September 2016 - January 2017

Average Daily Flow (cfs)

Blue Mesa Content (acre-ft)

BM Inflow
Crystal Release
Black Canyon
BM Content
SNOW CONDITIONS
Monthly Precipitation for November 2016
(Averaged by Hydrologic Unit)

% Average
- Blue: > 150%
- Light Blue: 129 - 150%
- Light Green: 110 - 129%
- Dark Green: 100 - 109%
- Yellow: 90 - 99%
- Orange: 70 - 89%
- Red: 50 - 69%
- Maroon: < 50%
- Gray: Not Reported

[Map of precipitation percentages]
### Days to Receive a Month’s Worth of Snow

<table>
<thead>
<tr>
<th>Location</th>
<th>Dec</th>
<th>Jan</th>
<th>Jan</th>
<th>Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butte</td>
<td>17</td>
<td>8</td>
<td>12</td>
<td># 2</td>
</tr>
<tr>
<td>Schofield</td>
<td>17</td>
<td>9</td>
<td>13</td>
<td># 2</td>
</tr>
<tr>
<td>Porphyry</td>
<td>17</td>
<td>6</td>
<td>12</td>
<td># 2</td>
</tr>
<tr>
<td>Slumgullion</td>
<td>22</td>
<td>10</td>
<td>17</td>
<td># 2</td>
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<tr>
<td>Park Cone</td>
<td>17</td>
<td>8</td>
<td>10</td>
<td># 1</td>
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</tbody>
</table>
Colorado Basin River Forecast Center
Gunnison River Basin Group

Percent Median To Date: 168% (15.1/9.0)
Percent Seasonal Median: 85% (15.1/17.9)

Accumulation rate 0.1 in/day averaged over last 3 days.


Created 01/18 21:32 GMT
NOAA/CBRFC, 2017
Blue Mesa Inflow
2008 = 1,000,000 AF
2011 = 892,000 AF
2014 = 849,000 AF
Upper Gunnison Basin SWE % of Average Daily
(Scaled to % of Avg Annual Peak)

Basin Snowpack = 169%
RUNOFF FORECASTS
Forecasted April-July Runoff
As of January 1st

- Taylor Park Reservoir Inflow: 81,000
- East River - at Almont: 158,000
- Gunnison River - near Gunnison: 310,000
- Blue Mesa Reservoir Inflow: 575,000
- Tomichi Creek - at Gunnison: 66,000
- Lake Fork Gunnison River - at Gateview: 108,000
- Paonia Reservoir Inflow (Mar-Jun): 82,000
- North Fork Gunnison River - near Somerset: 255,000
- Ridgway Reservoir Inflow: 88,000
- Gunnison River - near Grand Jct: 1,250,000

Percent of 1981-2010 Average

RECLAMATION
Forecasted April-July Runoff
As of January 15th

- Taylor Park Reservoir Inflow: 126,000
- East River - at Almont: 240,000
- Gunnison River - near Gunnison: 511,000
- Blue Mesa Reservoir Inflow: 928,000
- Tomichi Creek - at Gunnison: 107,000
- Lake Fork Gunnison River - at Gateview: 147,000
- Paonia Reservoir Inflow (Mar-Jun): 109,000
- North Fork Gunnison River - near Somerset: 318,000
- Ridgway Reservoir Inflow: 110,000
- Gunnison River - near Grand Jct: 1,820,000

Percent of 1981-2010 Average
SPRING TARGETS AND FUTURE OPERATIONS
# Spring Peak & Duration Targets Based on Hydrologic Year Type

<table>
<thead>
<tr>
<th>Year Type</th>
<th>Blue Mesa Forecasted</th>
<th>Desired Peak at Whitewater</th>
<th>Duration of Half Bank (8,070 cfs)</th>
<th>Duration of Peak Flow (up to 14,350 cfs)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>April-July Inflow Af</td>
<td>cfs</td>
<td>Days</td>
<td>Days</td>
</tr>
<tr>
<td>DRY</td>
<td>&lt; 381,000</td>
<td>900</td>
<td>0</td>
<td>0</td>
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<tr>
<td>MOD DRY</td>
<td>381,000 to 516,000</td>
<td>2,600 to 8,070</td>
<td>0</td>
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<tr>
<td>AVG DRY</td>
<td>516,001 to 709,000</td>
<td>8,070</td>
<td>10</td>
<td>0</td>
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<tr>
<td>AVG WET</td>
<td>709,001 to 831,000</td>
<td>8,070 to 14,350</td>
<td>20</td>
<td>2</td>
</tr>
<tr>
<td>MOD WET</td>
<td>831,001 to 1,123,000</td>
<td>14,350</td>
<td>40</td>
<td>10</td>
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<tr>
<td>WET</td>
<td>&gt;1,123,000</td>
<td>14,350</td>
<td>60</td>
<td>15</td>
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</tbody>
</table>

Mid-Jan 915,000
Black Canyon Peak Flow Determination
based on Blue Mesa May 1 forecast

1. 100 - 372 K; \( y = 482.95 + 1.44x \)
2. 373 - 715 K; \( y = -4651.66 + 15.24x \)
3. 716 - 925 K; \( y = 5449.13 + 1.15x \)
4. 926 - 1001K; \( y = -6975.28 + 14.57x \)
5. 1002-1050K; \( y = -62886.00 + 70.40x \)
6. > 1050 K; \( y = -180.00 + 10.68x \)

Jan 15 Forecast
915 KAF

Shoulder Flows
May 1 – July 25
904 cfs

6501 cfs
Peak Flow and Duration Day Targets at Whitewater

<table>
<thead>
<tr>
<th>Apr-July Forecast (1000 AF)</th>
<th>Half bank Duration (days @ 8,070 cfs)</th>
<th>Peak Flow Duration (days @ up to 14,350 cfs)</th>
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<td>&lt;381</td>
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<tr>
<td>381-516</td>
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<tr>
<td>516-709</td>
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<tr>
<td>&gt;1123</td>
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## Baseflow Targets

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<th>May</th>
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<th>Jul</th>
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<td>Avg Wet</td>
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<td>Avg Dry</td>
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</tbody>
</table>

*During March through November in Moderately Dry and Dry type years, additional releases will be made as necessary to provide flows above the 750 cfs anticipated to be diverted by the Redlands Water and Power Company, for the fish ladder and fish screen as shown.*
Blue Mesa Content
End of Month

Jan 1 Forecast = 575 Kaf
Jan 15 Forecast = 915 Kaf

Current = 591 Kaf
Fill to 813 Kaf
Gunnison River - Black Canyon
Monthly Average Flow

Jan 15 Forecast = 915 Kaf