SPRING RUNOFF FORECASTS AND TARGETS
Forecasted April-July Runoff
As of April 1st

- Taylor Park Reservoir Inflow: 109,000 acre-feet
- East River - at Almont: 245,000 acre-feet
- Gunnison River - near Gunnison: 500,000 acre-feet
- Blue Mesa Reservoir Inflow: 850,000 acre-feet
- Tomichi Creek - at Gunnison: 110,000 acre-feet
- Lake Fork Gunnison River - at Gateview: 145,000 acre-feet
- Paonia Reservoir Inflow (Mar-Jun): 90,000 acre-feet
- North Fork Gunnison River - near Somerset: 315,000 acre-feet
- Ridgway Reservoir Inflow: 107,000 acre-feet
- Gunnison River - near Grand Jct: 1,870,000 acre-feet

Site name and runoff volume in acre-feet
<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</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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>
</tr>
<tr>
<td>MOD DRY</td>
<td>381,000 to 516,000</td>
<td>2,600 to 8,070</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>AVG DRY</td>
<td>516,001 to 709,000</td>
<td>8,070</td>
<td>10</td>
<td>0</td>
</tr>
<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>
</tr>
<tr>
<td>WET</td>
<td>&gt;1,123,000</td>
<td>14,350</td>
<td>60</td>
<td>15</td>
</tr>
</tbody>
</table>

Mid-Apr 850,000
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>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;381</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>381-516</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>516-709</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td>709-831</td>
<td>20</td>
<td>2</td>
</tr>
<tr>
<td>831-1123</td>
<td>40</td>
<td>10</td>
</tr>
<tr>
<td>&gt;1123</td>
<td>60</td>
<td>15</td>
</tr>
</tbody>
</table>

- **MOD**: 
- **WET**: 
- **AVG**: 
- **DRY**: 

14350 cfs
Black Canyon Peak Flow Determination
based on Blue Mesa May 1 forecast

Projected Black Canyon Flows of > 9000 cfs to meet ROD targets

Apr 15 Forecast
850 KAF

6427 cfs

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
Reservoir and River Conditions

- Reservoir Elevation above Spillway Crest: 7488 ft
- Current Elevation: 7498 ft

Flow (cfs)

- Gunn R - Black Canyon
- North Fork
- Gunn R - Whitewater
- Blue Mesa Content

Blue Mesa Content (AF)
PROJECTED
SPRING OPERATIONS

RECLAMATION
North Fork of the Gunnison River @ Somerset

Forecasted Peak Flow
2500 cfs

April Forecast Runoff Volume
280,000 acre-feet
North Fork of the Gunnison River
Peak Flow Timing at Somerset (1934-2016)
North Fork @ Somerset
April-July Runoff

+500-1000 cfs during peak flows
Mod Wet Year Tributary Flows

Tributary Flows between Black Canyon and Delta

Tributary Flows between Delta and Whitewater
North Fork of the Gunnison River
Forecasted Streamflows

Peak Flow Forecast 2500 cfs

1080 cfs
Projection of Flows in the Gunnison River
while meeting the Aspinall ROD Flow Targets

Gunnison River Flows
from Start Day of Spring Operation

BC peak = 9700
Delta peak = 12800
WW peak = 14700
Days > 14350 = 10
Days > 8070 = 40

Ramp up = 9 days
Ramp down = 9 days
### Release Capability at the Aspinall Unit

<table>
<thead>
<tr>
<th>Outlet Capacities (cfs)</th>
<th>Blue Mesa</th>
<th>Morrow Point</th>
<th>Crystal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powerplant</td>
<td>3380 cfs</td>
<td>4900 cfs</td>
<td>1950 cfs</td>
</tr>
<tr>
<td>Powerplant + Bypass</td>
<td>6030 cfs</td>
<td>6400 cfs</td>
<td>4100 cfs</td>
</tr>
<tr>
<td>Spillway Elevation</td>
<td>7488 ft</td>
<td>7129.5 ft</td>
<td>6756 ft</td>
</tr>
</tbody>
</table>
Aspinall Unit Operations

Blue Mesa
Morrow Pt
Crystal
BM Inflow
CR Side
Blue Mesa content

RECLAMATION
OPERATIONS – REMAINDER OF YEAR
Blue Mesa Content
End of Month

Maximum Capacity = 829.5 Kaf

1000 Acre-feet

Apr 1 Forecast = 930,000 AF
Apr 15 Forecast = 850,000 AF

Fill to 710 Kaf
Current = 644 Kaf

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

<table>
<thead>
<tr>
<th></th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>1500</td>
<td>1500</td>
<td>1500</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
</tr>
<tr>
<td>Mod Wet</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>1500</td>
<td>1500</td>
<td>1500</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
</tr>
<tr>
<td>Avg Wet</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>1500</td>
<td>1500</td>
<td>1500</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
</tr>
<tr>
<td>Avg Dry</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>1500</td>
<td>1500</td>
<td>1500</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
</tr>
<tr>
<td>Mod Dry*</td>
<td>750</td>
<td>750</td>
<td>750/790</td>
<td>750/890</td>
<td>750/890</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>750/890</td>
<td>750/790</td>
<td>750/790</td>
<td>750</td>
</tr>
<tr>
<td>Dry*</td>
<td>750</td>
<td>750</td>
<td>750/790</td>
<td>750/890</td>
<td>750/890</td>
<td>1050</td>
<td>1050</td>
<td>1050</td>
<td>750/890</td>
<td>750/790</td>
<td>750/790</td>
<td>750</td>
</tr>
</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.