## CBRFC 2013 Runoff Recap: Upper Green and Yampa

## August 21, 2013 Ashley Nielson NWS Colorado Basin River Forecast Center











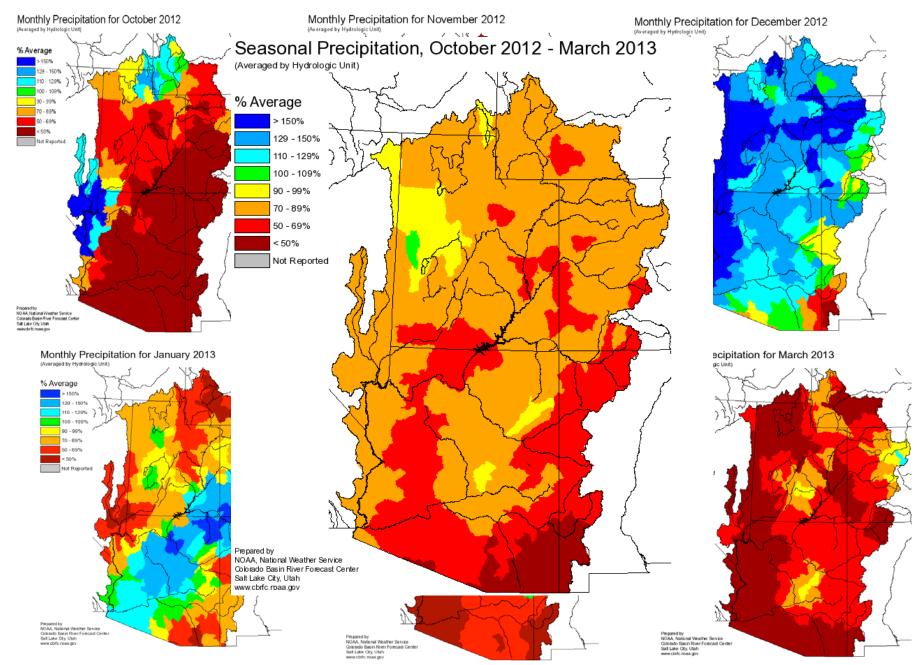
## 2013 Conditions Recap

- -Precipitation/Temperature
- -Snow
- -Streamflow

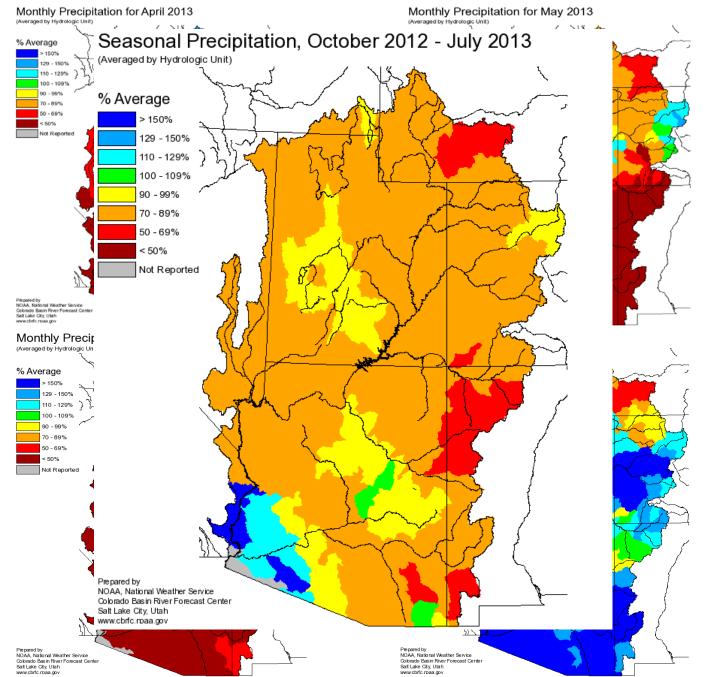
## April-July and Peak Flow Forecast Performance

Future forecasts (water supply and climate)

#### PRECIPITATION

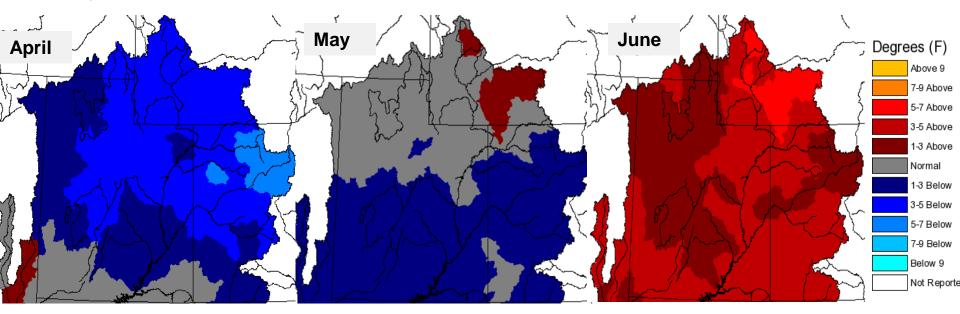


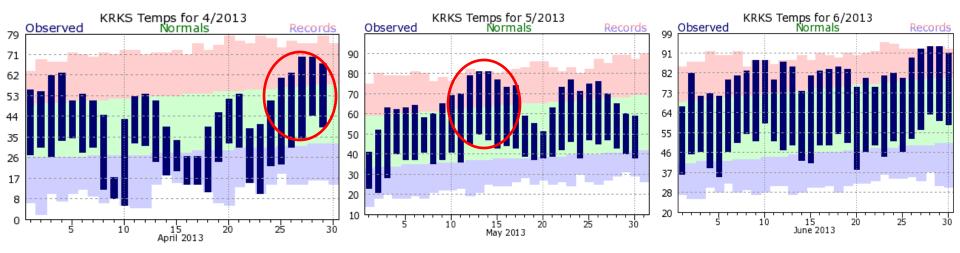
#### PRECIPITATION



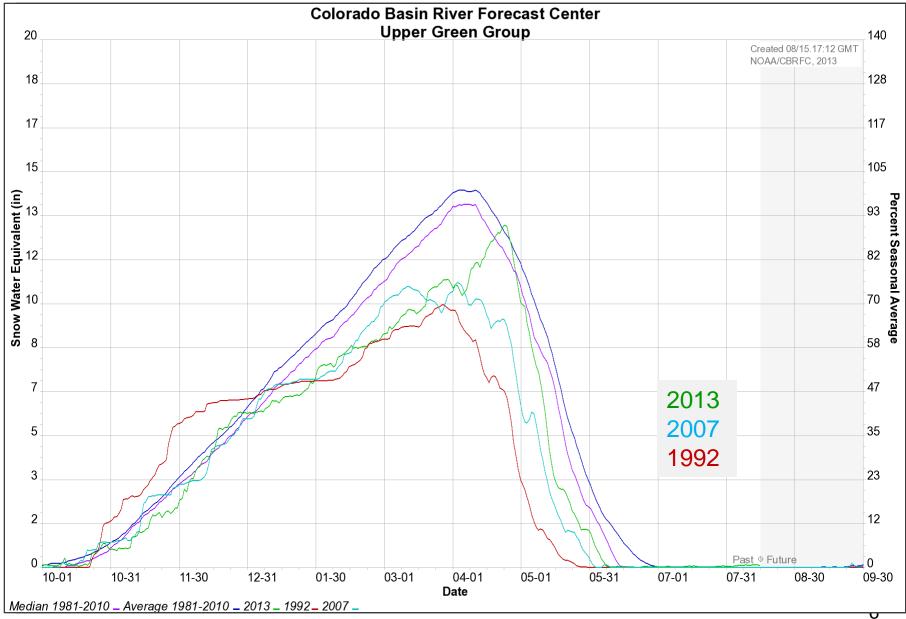
4

#### Monthly Max Temperature Deviation

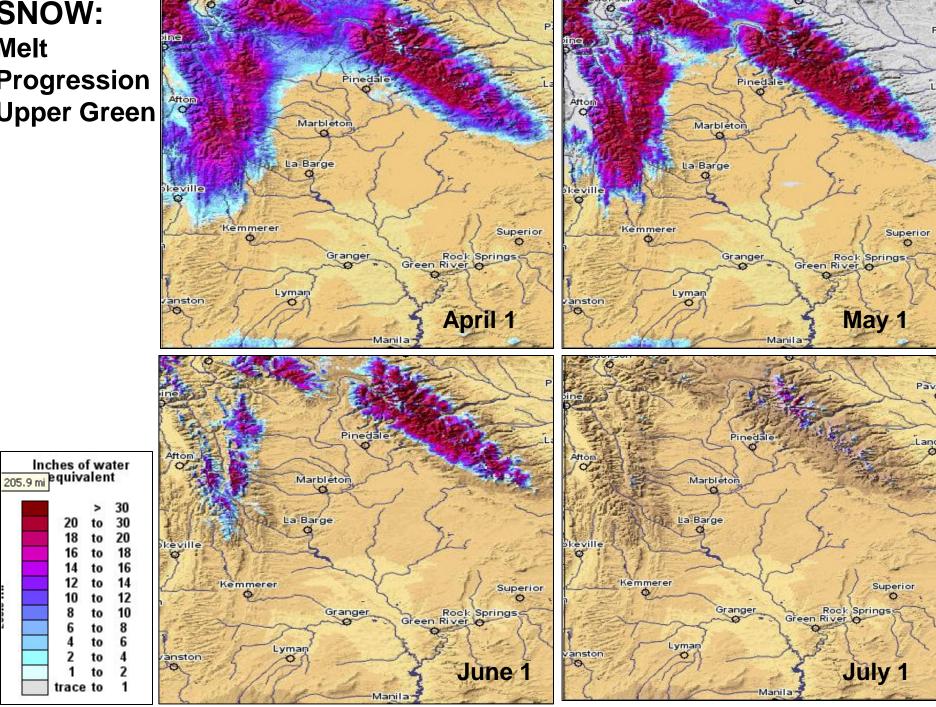




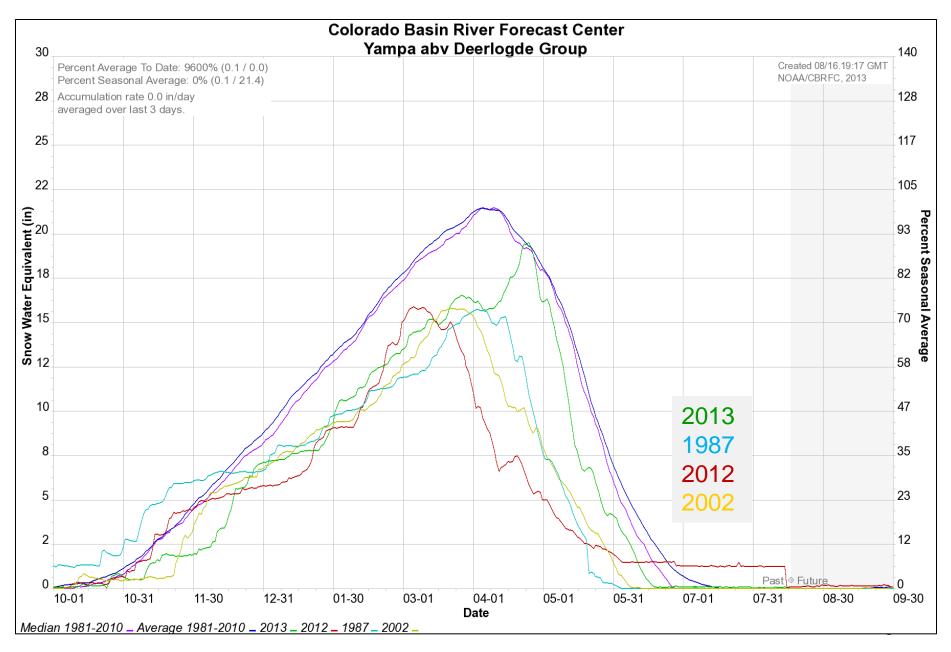
### SNOW: Upper Green



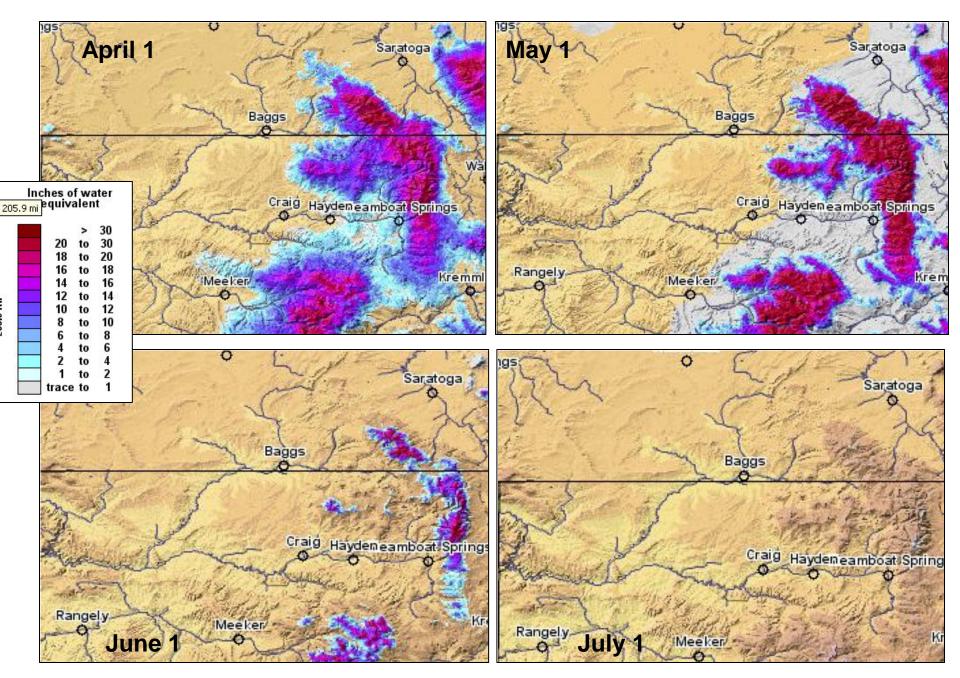




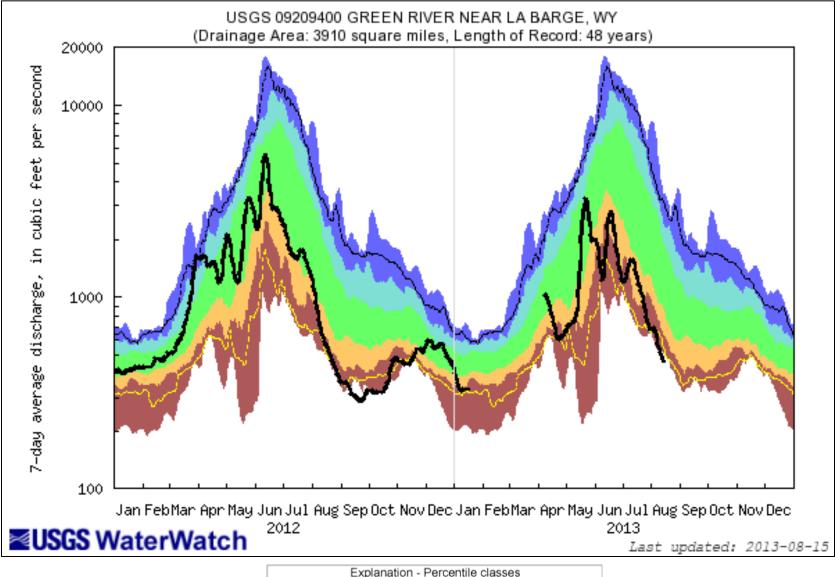
#### **SNOW:** Yampa



#### **SNOW:** Melt Progression Yampa

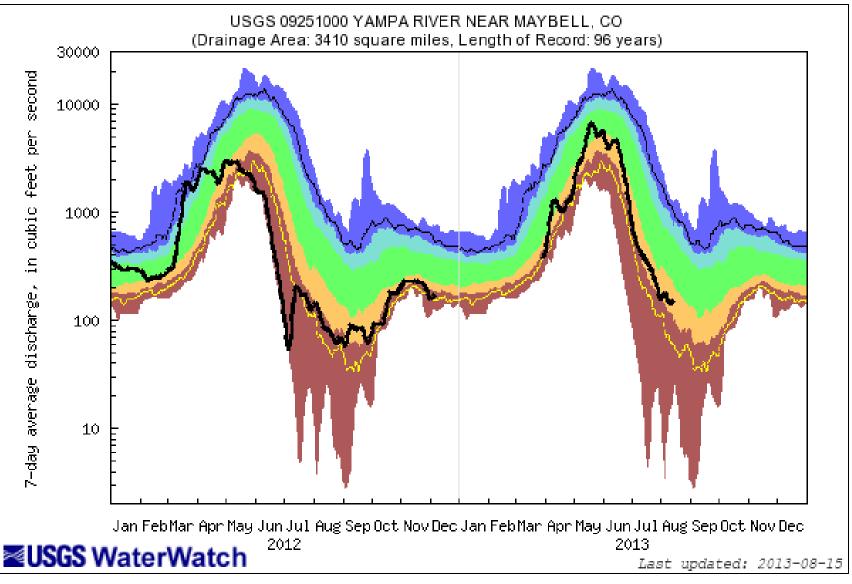


#### **STREAMFLOW: Green River nr LaBarge**



Explanation - Percentile classes							
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below Normal		Below normal	Normal	Above normal	Much above normal		

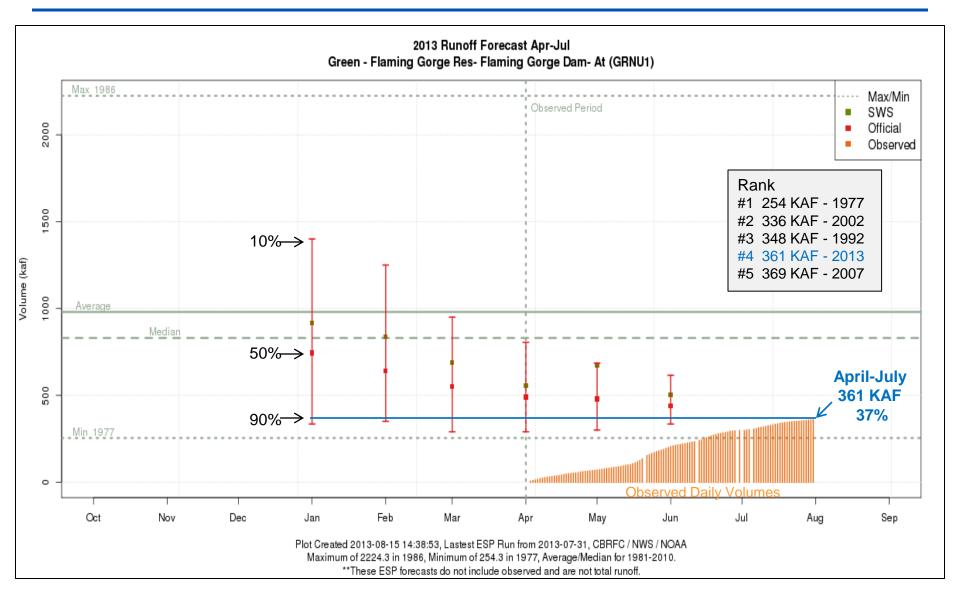
#### **STREAMFLOW:** Yampa River nr Deerlodge



Explanation - Percentile classes							
lowest- 0th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below Normal		Below normal	Normal	Above normal	Much above normal		

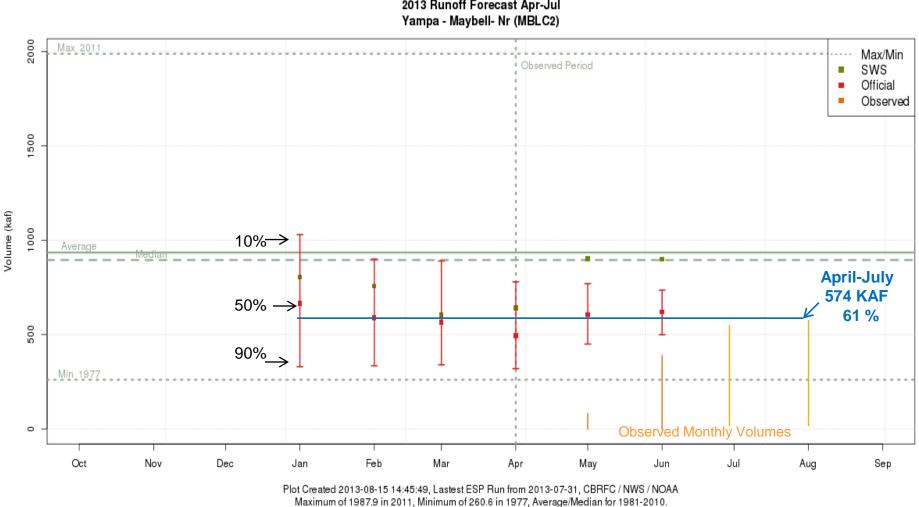
April-July Water Supply: Flaming Gorge

CBRFC









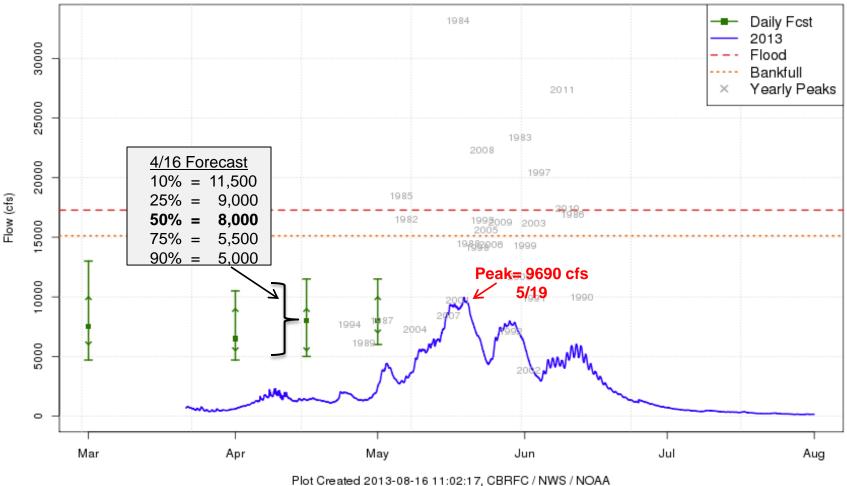
\*\*These ESP forecasts do not include observed and are not total runoff.

2013 Runoff Forecast Apr-Jul







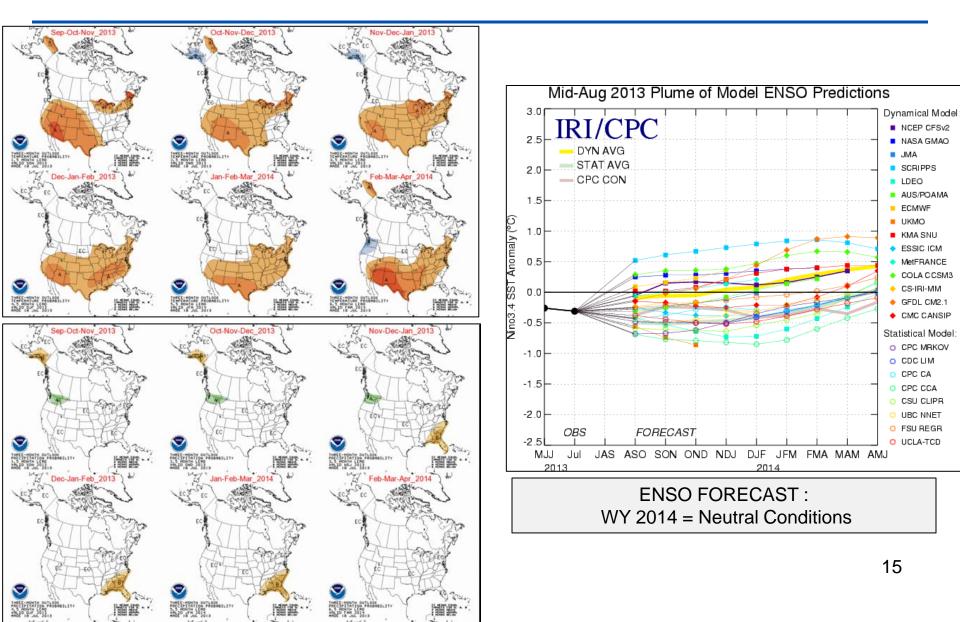


2013 Peak Flow Forecast Yampa - Deerlodge Park (YDLC2)

Plot Created 2013-08-16 11:02:17, CBRFC / NWS / NOAA Maximum peak of 33200 on 1984-05-18, Minimum peak of 3810 on 2002-06-02 Earliest peak of 7670 on 1994-04-25, Latest peak of 9960 on 1990-06-13 Yearly Peaks are Instantaneous (Inst). Previous year data are Mean Daily (Daily).









# Water Supply Forecasts: 8/1



#### **Flaming Gorge Inflow**

August	September	October
30 KAF	24 KAF	28 KAF
34%	44%	48%

#### Yampa nr Maybell

October	November	December
14 KAF	15 KAF	12 KAF
57%	65%	64%

#### Below average flows forecasted for both basins



#### Feedback, Questions, Concerns always welcome....



