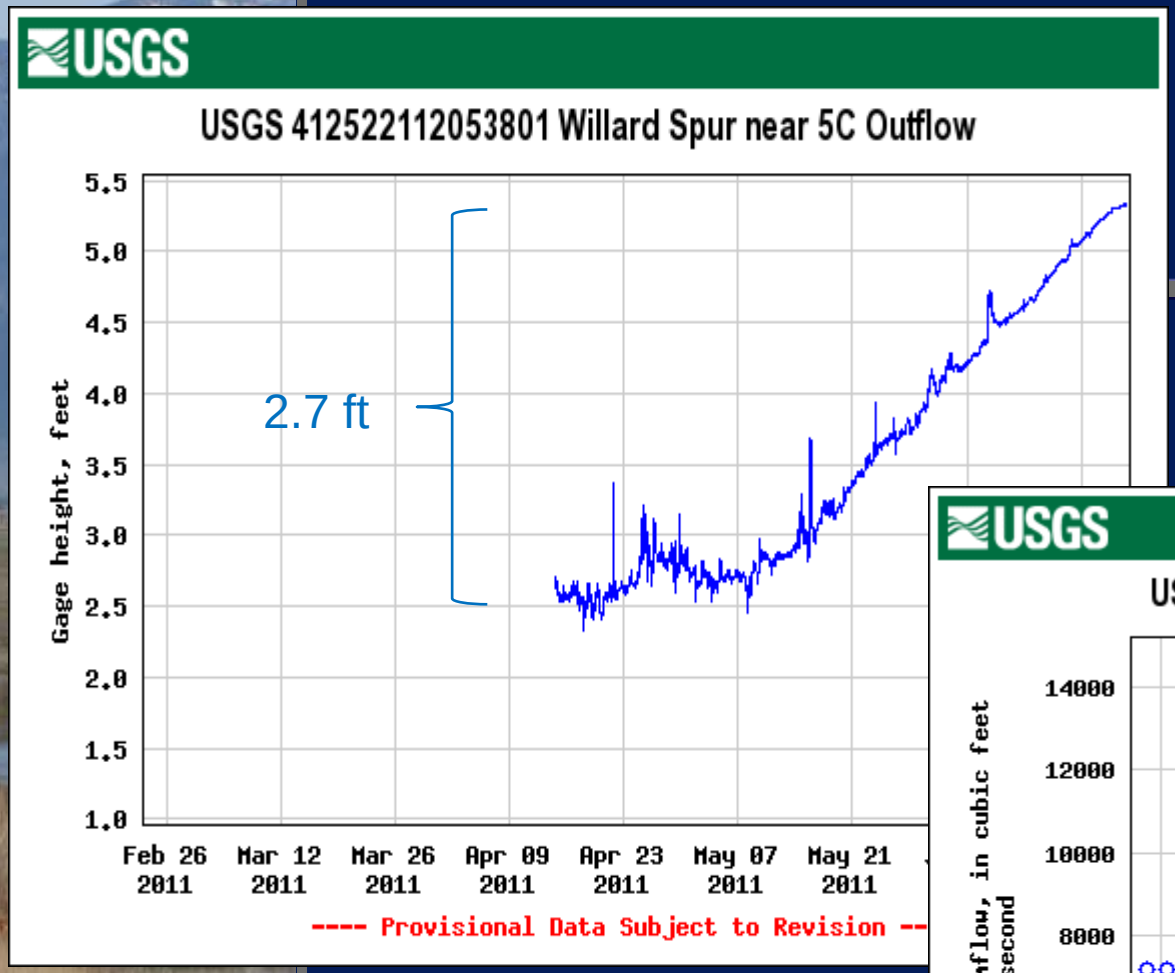
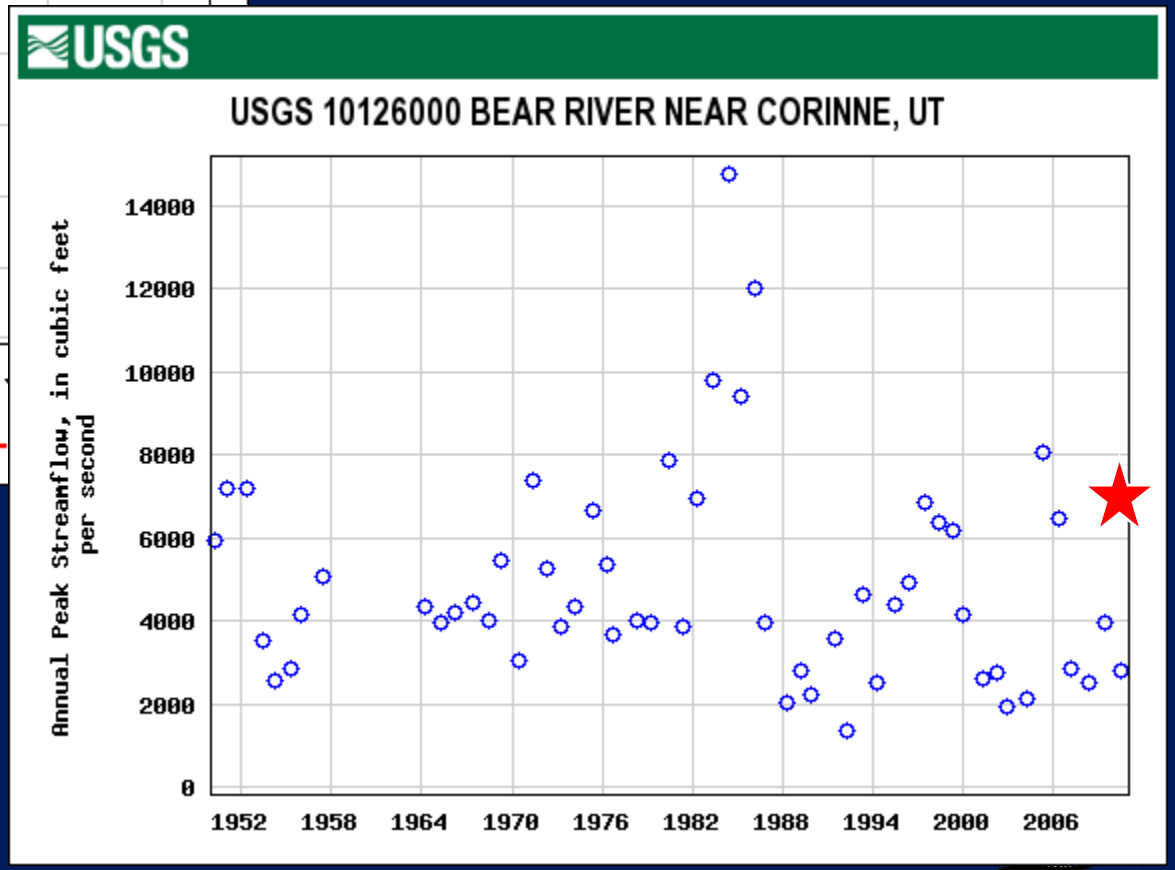
# Development of Water Quality Standards for Willard Spur

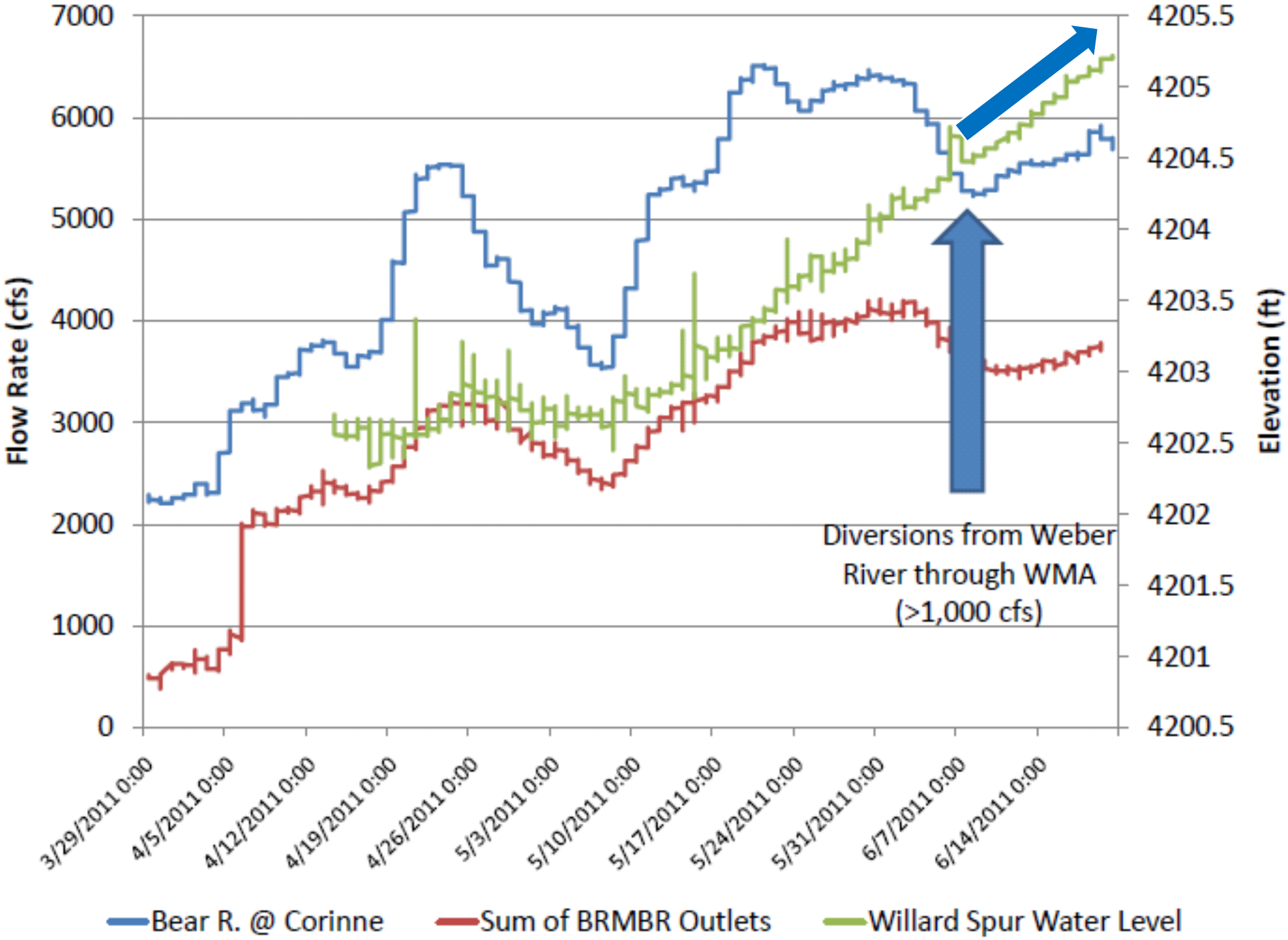
# Hydrology Update

Willard Spur Steering Committee

June 23, 2011

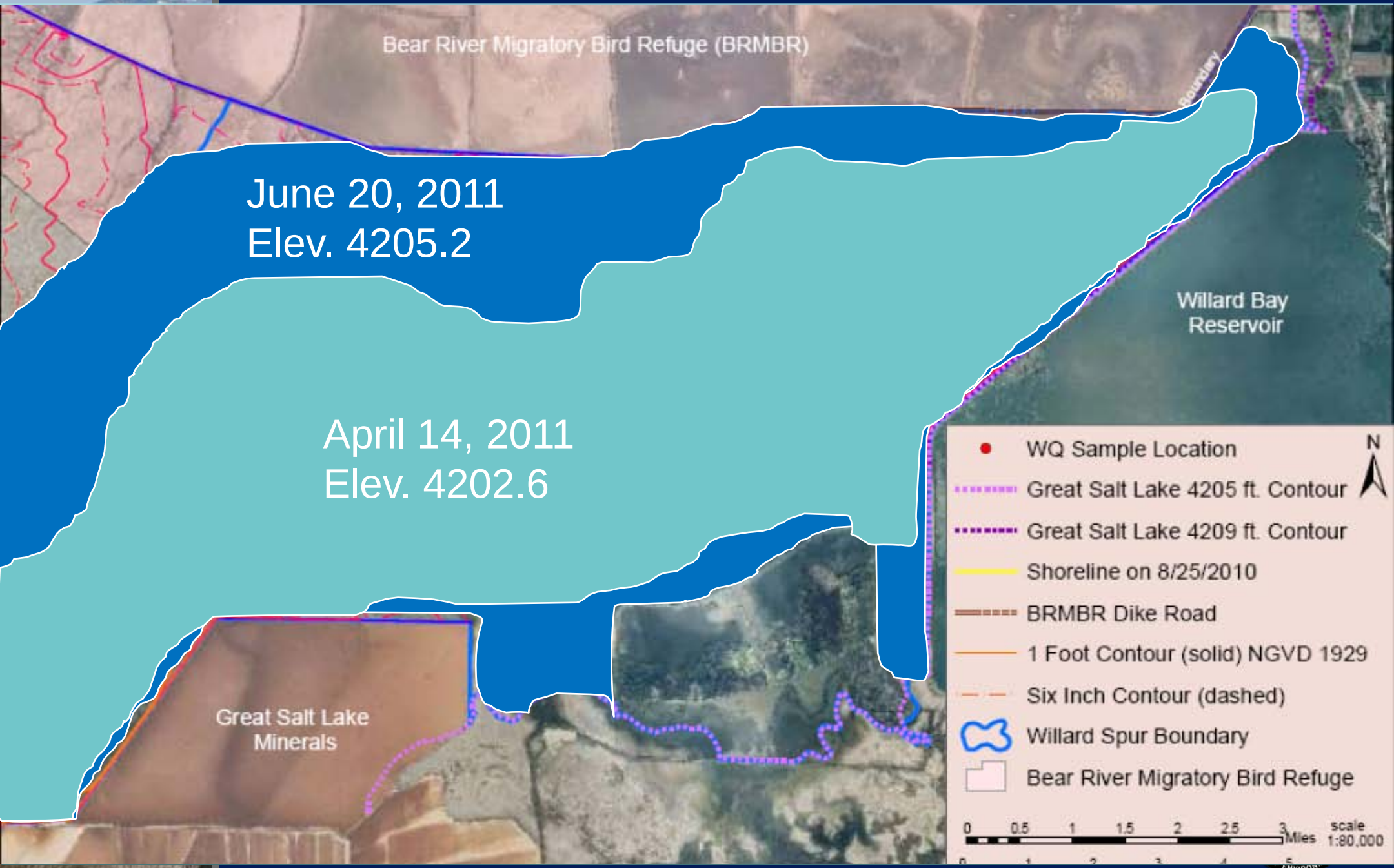

USGS
USGS 412522112053801 Willard Spur near 5C Outflow
Gage height, feet
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
2.7 ft
Feb 26 2011
Mar 12 2011
Mar 26 2011
Apr 09 2011
Apr 23 2011
May 07 2011
May 21 2011
---- Provisional Data Subject to Revision --


USGS
USGS 10126000 BEAR RIVER NEAR CORINNE, UT
Annual Peak Streamflow, in cubic feet per second
14000
12000
10000
8000
6000
4000
2000
0
1952
1958
1964
1970
1976
1982
1988
1994
2000
2006


7000
6000
5000
4000
3000
2000
1000
0
Flow Rate (cfs)
4205.5
4205
4204.5
4204
4203.5
4203
4202.5
4202
4201.5
4201
4200.5
Elevation (ft)
Diversions from Weber River through WMA (>1,000 cfs)
3/29/2011 0:00
4/5/2011 0:00
4/12/2011 0:00
4/19/2011 0:00
4/26/2011 0:00
5/3/2011 0:00
5/10/2011 0:00
5/17/2011 0:00
5/24/2011 0:00
5/31/2011 0:00
6/7/2011 0:00
6/14/2011 0:00
Bear R. @ Corinne
Sum of BRMBR Outlets
Willard Spur Water Level

# Harold Crane WMA

- Lost ability to measure flows at the WMA (May 30 – June 13)
- Flows being diverted from Weber R to Willard Spur (1,000 – 1,500 cfs)


Bear River Migratory Bird Refuge (BRMBR)
June 20, 2011
Elev. 4205.2
April 14, 2011
Elev. 4202.6
Willard Bay
Reservoir
Great Salt Lake
Minerals
WQ Sample Location
Great Salt Lake 4205 ft. Contour
Great Salt Lake 4209 ft. Contour
Shoreline on 8/25/2010
BRMBR Dike Road
1 Foot Contour (solid) NGVD 1929
Six Inch Contour (dashed)
Willard Spur Boundary
Bear River Migratory Bird Refuge
N
0 0.5 1 1.5 2 2.5 3 Miles
scale
1:80,000

# What does this mean?

- **While not a typical year, sampling will still:**
  - Define existing water, sediment chemistry
  - Define existing habitat, users, and food items
  - Capture the best case condition
  - Provide data needed to define follow-on research studies