

Great Plains Region, Facility Status & Snowpack Condition Update: **June 2, 2011**

For more information contact the Great Plains Regional Public Affairs Office, 406-247-7610

Ft Peck Dam Reservoir/Garrison Dam/Lake Sakakawea: Record high runoff from recent rains in the drainage basins above both facilities has resulted in record inflows to both U.S. Army Corps of Engineers (Corps) facilities.

This extremely high runoff event has filled all the lakes' multi-use pools and a good portion of exclusive flood pools. With nearly all mountain snowpack yet to melt and limited storage space available in the lakes, it has been necessary for the Corps to increase releases to the Missouri River to an all time record high of 50,000 cfs releases from Ft Peck Reservoir and Lake Sakakawea Reservoir of 150,000 cfs around mid June.

This Corps' release schedule can be viewed at <http://www.nwd-mr.usace.army.mil/rcc/reports/twout.html>. The high release schedule will be at all main stem dams on the Missouri River.

Lake Audubon: As an emergency measure to assist with controlling record flood runoff into the Corps' Lake Sakakawea (Garrison Dam), the Corps has begun releases into Lake Audubon and expect to fill this National Wildlife Refuge (also the lake that allows diversion to Reclamation's McClusky Canal) to elevation 1856.

Lovewell Reservoir: Heavy rain through much of Nebraska over the last couple of days resulted in high flood runoff in several basins. Inflow to Lovewell has filled the reservoir nearly 6 feet into its exclusive flood pool filling nearly half of the available flood control space.

Jamestown Reservoir: The Jamestown Reservoir level continues to slowly recede. The reservoir elevation is 1448.5. Releases from the dam continue at 1,600 cfs to maintain a flow close to 1,800 cfs at the Jamestown gage. To evacuate storage in a timely manner the current plan is to continue a combined release from Jamestown and Pipestem reservoirs of 1,800 cfs through the end of June.

Bighorn Lake: The current lake elevation is 3623. The lake elevation increased over 16 feet over the past week. A major storm system moved into the area and produced heavy rain causing high runoff above and below the dam. Inflows have increased to over 17,000 cfs while releases have been kept under 5,000 cfs to provide relief to flooding concerns downstream. Snowpack in the Bighorn basin above Bighorn Lake is currently well above average and with the cooler temperatures, very little of the mountain snowpack has started to melt.



RECLAMATION

Managing Water in the West

North Platte System: Snowpack above Seminoe Reservoir is at 220 percent of average and 153 percent of peak. The May 1 water supply forecast indicates April through July inflow into Seminoe Reservoir at 245% of average for the most probable inflow forecast. Seminoe Reservoir was evacuated to near its lowest practical level to provide space for flood control and is now starting to refill from high snowmelt runoff. Pathfinder has filled over a ½ of foot into its surcharge pool and is spilling over its natural spillway. Glendo Reservoir is gradually filling to control downstream flooding. Glendo is expected to fill most of its exclusive flood pool to control the high flood runoff this spring. River flows from the state line down to North Platte are currently above flood stage. Reclamation is working closely with state and local emergency management staff and the Corps of Engineers to carefully coordinate river and reservoir system operations.

Canyon Ferry: Canyon Ferry started filling on May 22. Inflows to Canyon Ferry have increased to over 20,000 cfs are forecasted to peak at over 30,000 cfs in June. Current releases are approximately 14,200 cfs. The current reservoir elevation is 3778.7 feet and is projected to fill into the exclusive flood control space, above 3797.0 feet, in June.



U.S. Department of the Interior
Bureau of Reclamation

**Snow Precipitation Update
NRCS SNOTEL Sites**

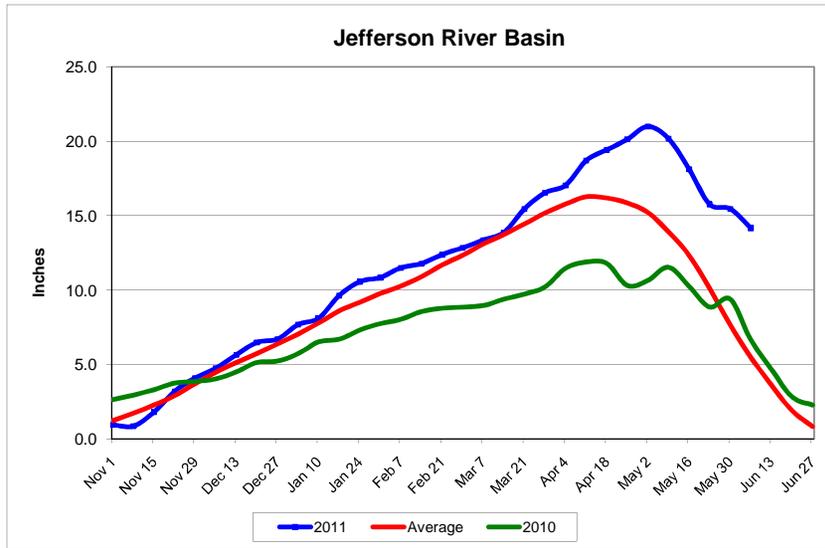
	May 16, 2011		May 23, 2011		May 30, 2011		June 6, 2011			
	Snow Water Equiv	Change From Last Wk	Snow Water Equiv	Change From Last Wk	Snow Water Equiv	Change From Last Wk	Snow Water Equiv	Change From Last Wk	Snow Water Equiv	
	% of Avg	%	% of Avg Peak							
MONTANA										
Jefferson River Basin	147	2	156	9	202	46	259	↑	57	85
Madison River Basin	141	0	154	13	193	39	254	↑	61	99
Gallatin River Basin	169	10	189	20	229	40	266	↑	37	96
Missouri River Basin above Toston	155	4	168	13	212	44	270	↑	58	88
Missouri River Basin Mainstem	182	14	211	29	268	57	401	↑	133	92
Smith, Judith and Musselshell River Basins	218	2	276	58	345	69	544	↑	199	85
Sun, Teton and Marias River Basins	200	12	218	18	275	57	328	↑	53	92
St Marys and Milk River Basins	152	-15	148	-4	165	17	168	↑	3	83
Upper Yellowstone River Basin	159	4	175	16	203	28	244	↑	41	103
WYOMING										
Wind River Basin	145	19	207	62	263	56	324	↑	61	101
Bighorn River Basin	157	13	197	40	251	54	285	↑	34	109
Shoshone River Basin	145	5	155	10	193	38	225	↑	32	107
Powder/Tongue River Basins	183	26	306	123	447	141	727	↑	280	98
Belle Fourche River Basin	533	231	0	-533	0	0	0	→	0	0
Upper North Platte River Basin	195	15	220	25	301	81	301	→	0	123
Lower North Platte River Basin	156	14	200	44	235	35	281	↑	46	85
COLORADO										
Upper Colorado River Basin	191	29	247	56	275	28	274	↓	-1	67
South Platte River Basin	181	26	236	55	313	77	370	↑	57	98
Arkansas River Basin	130	13	159	29	138	-21	105	↓	-33	27
Upper Rio Grande River Basin	87	2	106	19	96	-10	81	↓	-15	20

Footnotes:

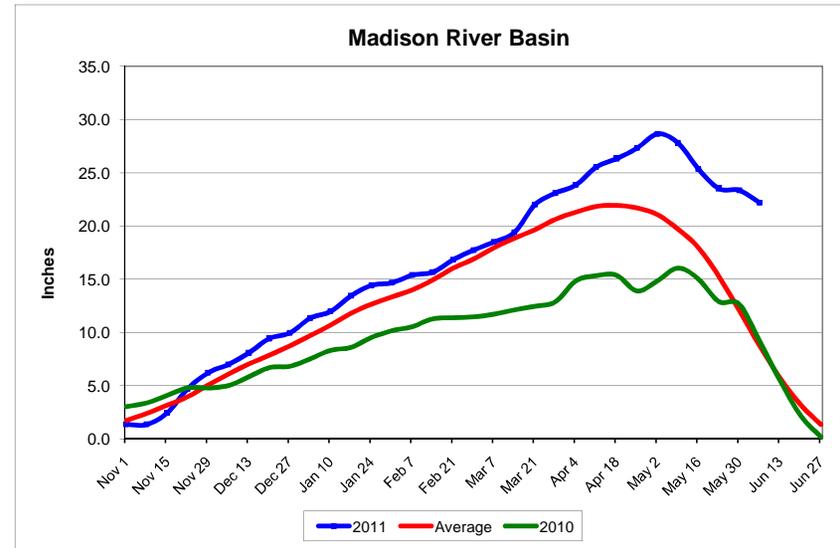
-Average is generally the 30 year average (1971-2000)

-In many basins, the snow water equivalent (SWE) typically peaks about mid-April. Past mid-April, the SWE as a % of average SWE can be misleading since the average SWE is decreasing. It is important to also observe the SWE as a % of average peak and the SWE graphs.

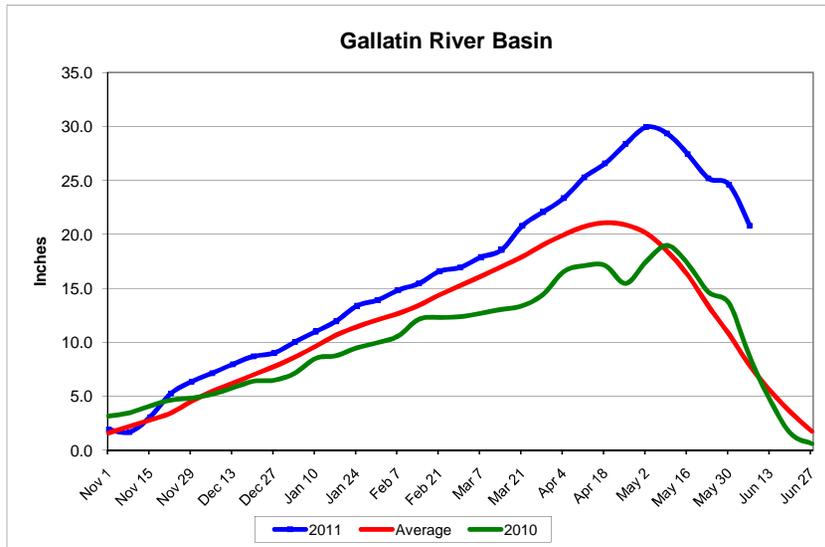
NRCS SNOTEL DATA
SNOW WATER EQUIVALENCES IN INCHES
STATE OF MONTANA - GREAT PLAINS REGION WATERSHEDS



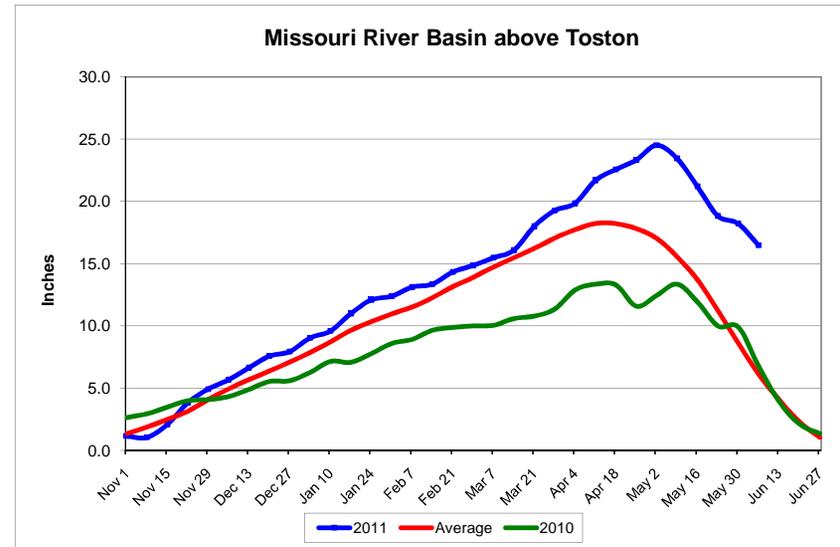
Percent of Average for June 6, 2011 **259 %**
WY 2011 Compared to WY 2010 **213 %**



Percent of Average for June 6, 2011 **254 %**
WY 2011 Compared to WY 2010 **242 %**

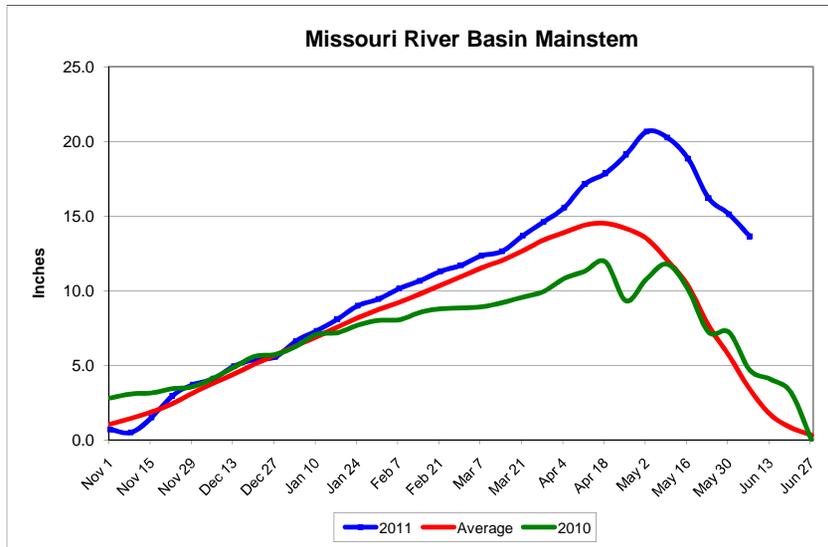


Percent of Average for June 6, 2011 **266 %**
WY 2011 Compared to WY 2010 **242 %**

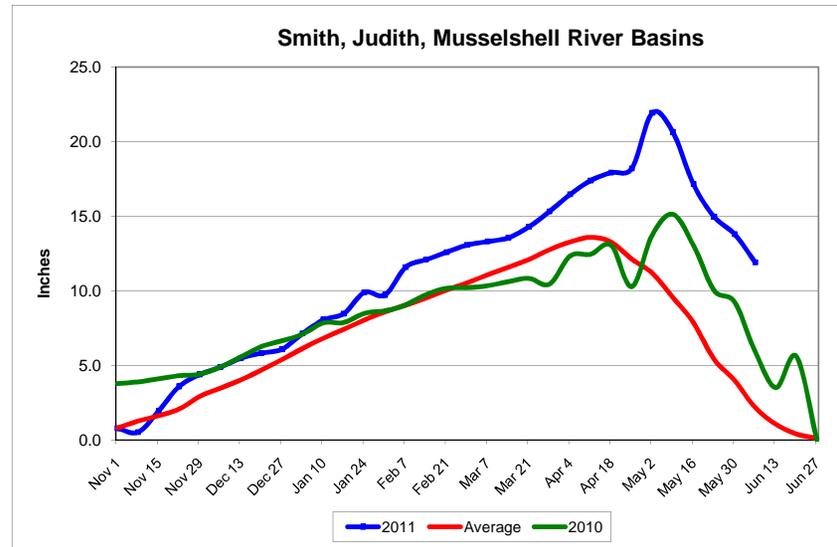


Percent of Average for June 6, 2011 **270 %**
WY 2011 Compared to WY 2010 **245 %**

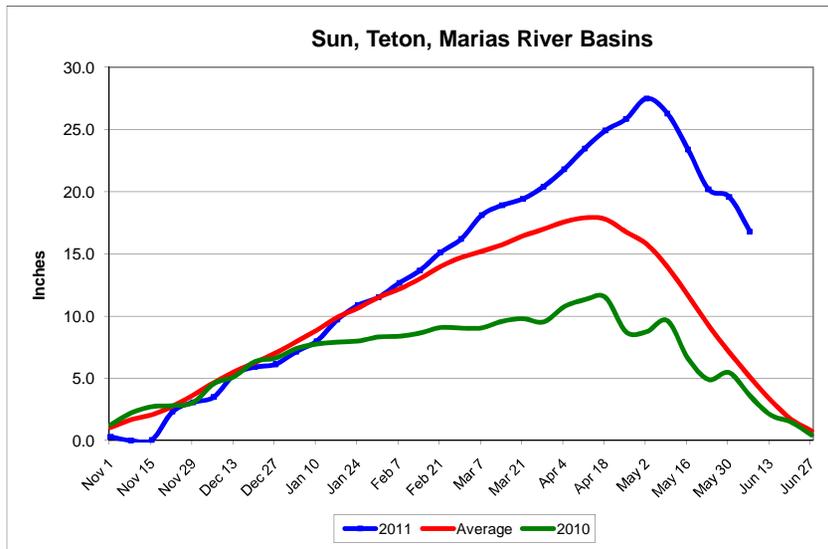
NRCS SNOTEL DATA
SNOW WATER EQUIVALENCES IN INCHES
STATE OF MONTANA - GREAT PLAINS REGION WATERSHEDS



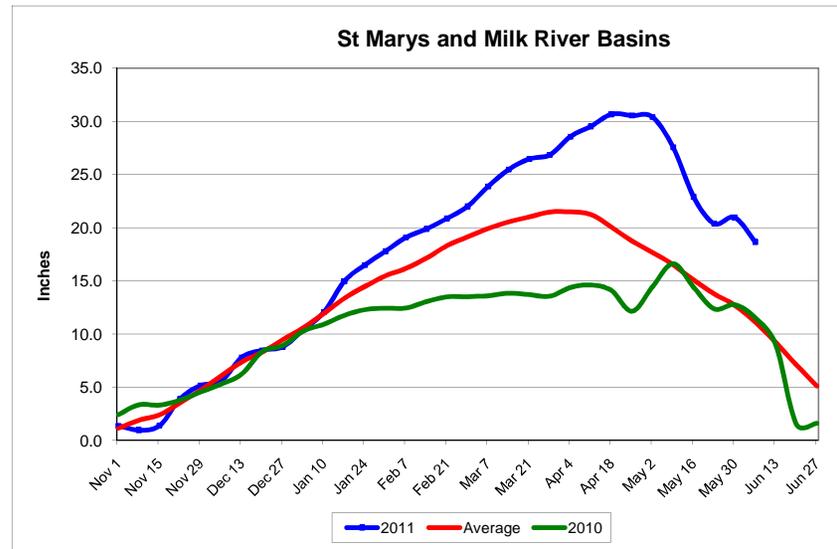
**Percent of Average for June 6, 2011
WY 2011 Compared to WY 2010** **401 %
291 %**



**Percent of Average for June 6, 2011
WY 2011 Compared to WY 2010** **544 %
201 %**

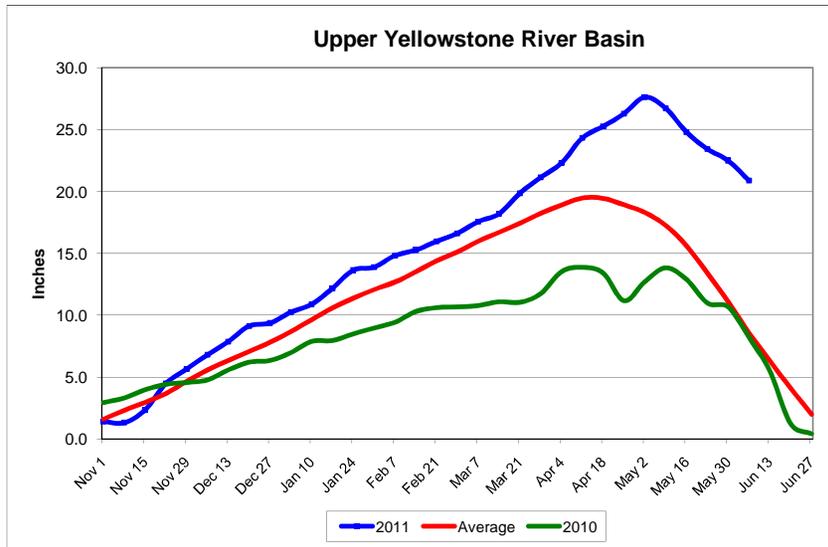


**Percent of Average for June 6, 2011
WY 2011 Compared to WY 2010** **328 %
464 %**

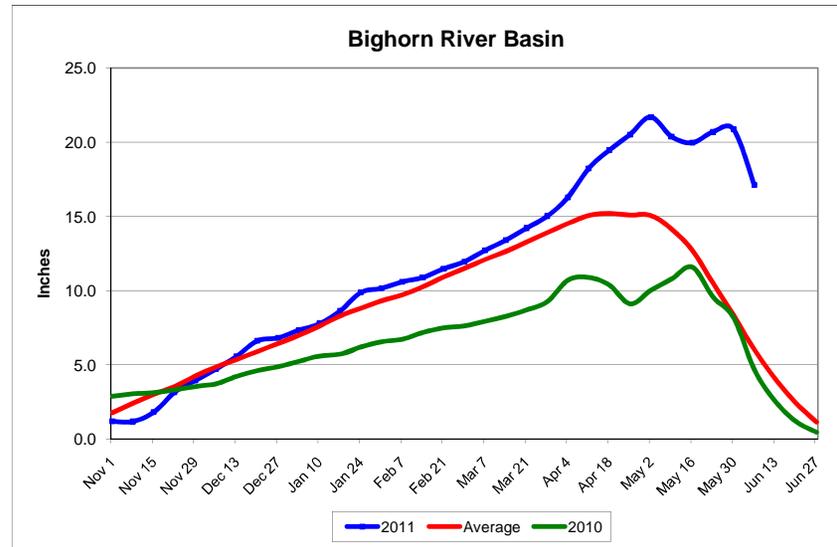


**Percent of Average for June 6, 2011
WY 2011 Compared to WY 2010** **168 %
162 %**

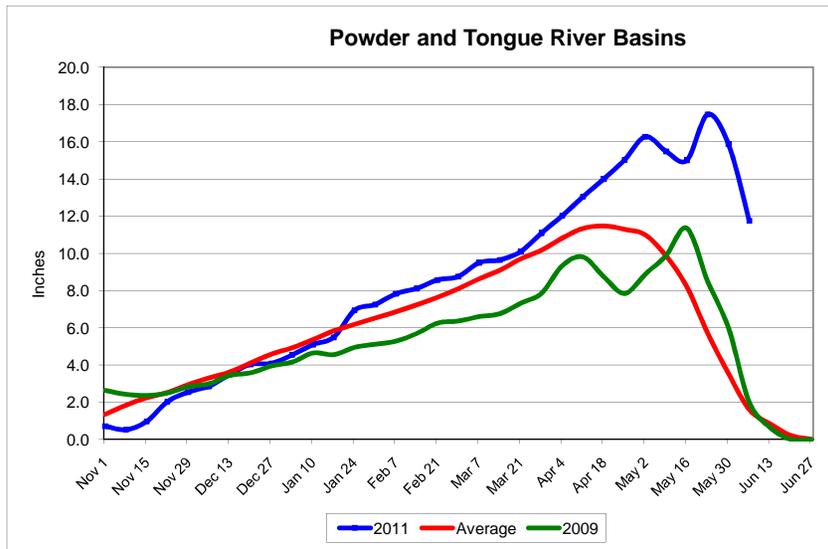
NRCS SNOTEL DATA
SNOW WATER EQUIVALENCES IN INCHES
STATE OF MONTANA AND WYOMING - GREAT PLAINS REGION WATERSHEDS



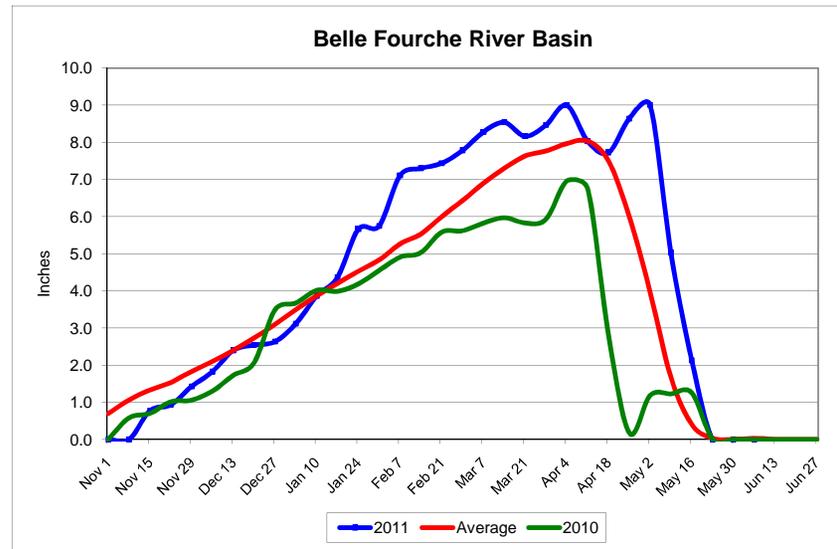
**Percent of Average for June 6, 2011
WY 2011 Compared to WY 2010** **244 %
255 %**



**Percent of Average for June 6, 2011
WY 2011 Compared to WY 2010** **285 %
368 %**

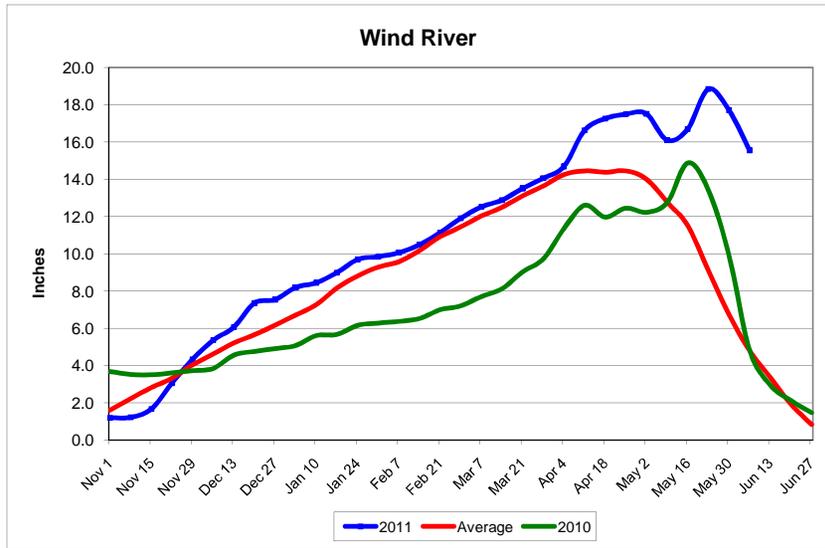


**Percent of Average for June 6, 2011
WY 2011 Compared to WY 2010** **727 %
592 %**

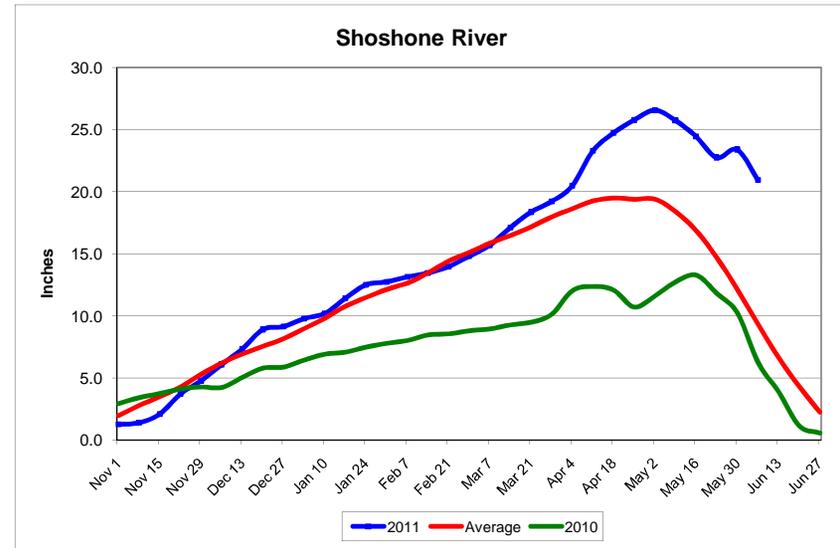


**Percent of Average for June 6, 2011
WY 2011 Compared to WY 2010** **0 %
592 %**

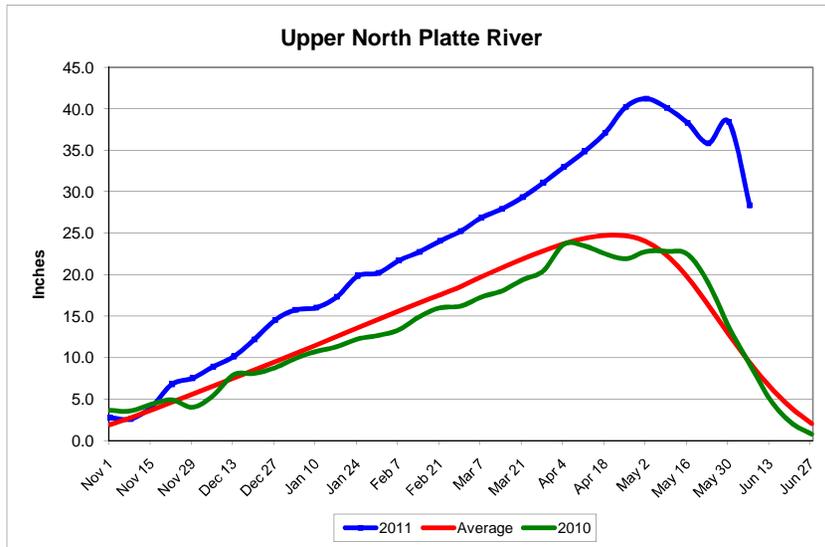
NRCS SNOTEL DATA
SNOW WATER EQUIVALENCES IN INCHES
STATE OF WYOMING - GREAT PLAINS REGION WATERSHEDS



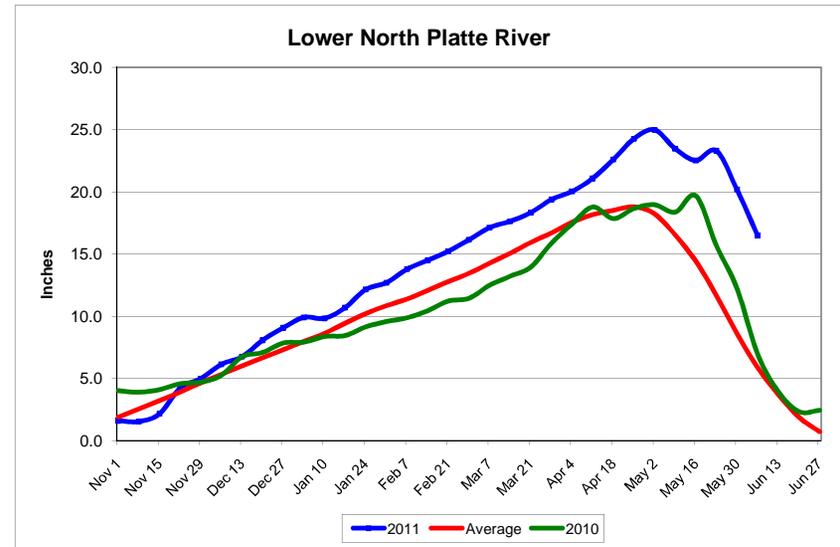
Percent of Average for June 6, 2011 **324 %**
WY 2011 Compared to WY 2010 **325 %**



Percent of Average for June 6, 2011 **225 %**
WY 2011 Compared to WY 2010 **334 %**

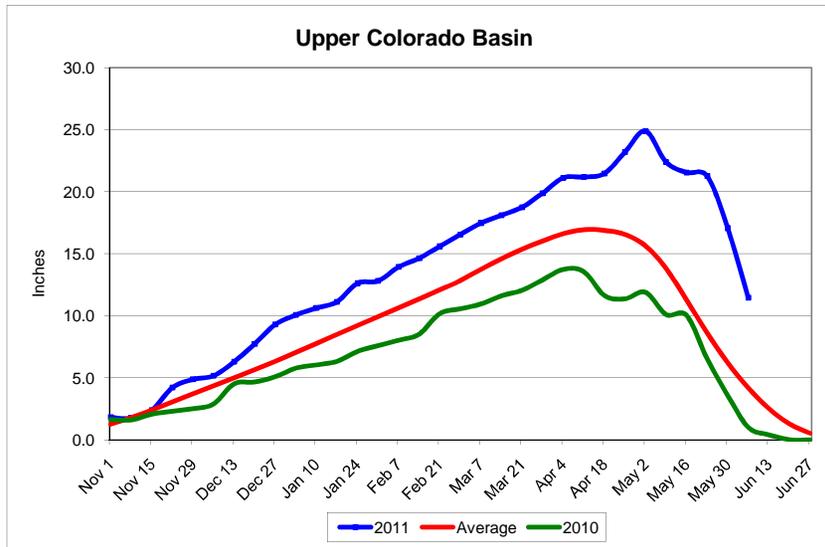


Percent of Average for June 6, 2011 **301 %**
WY 2011 Compared to WY 2010 **307 %**

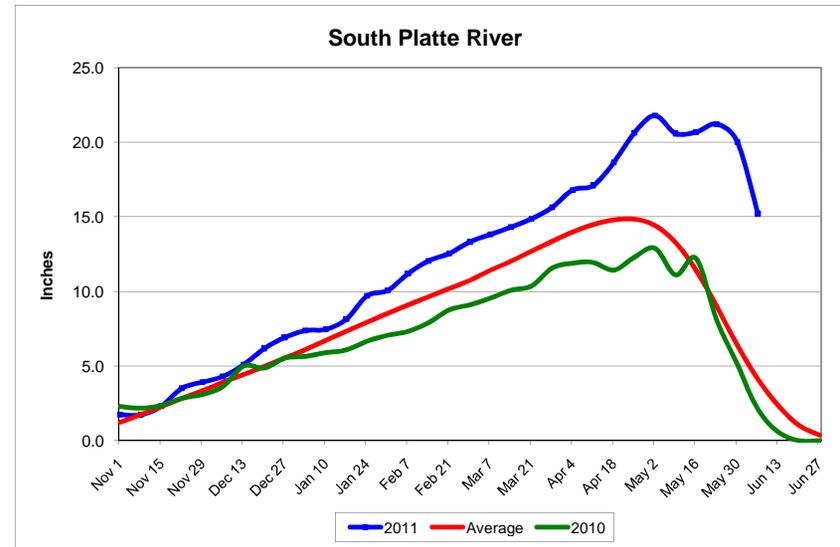


Percent of Average for June 6, 2011 **281 %**
WY 2011 Compared to WY 2010 **238 %**

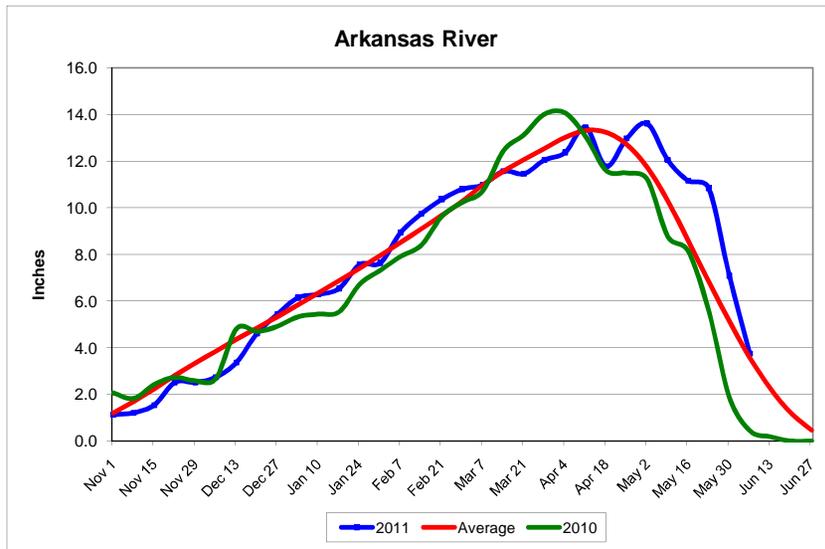
NRCS SNOTEL DATA
SNOW WATER EQUIVALENCES IN INCHES
STATE OF COLORADO - GREAT PLAINS REGION WATERSHEDS



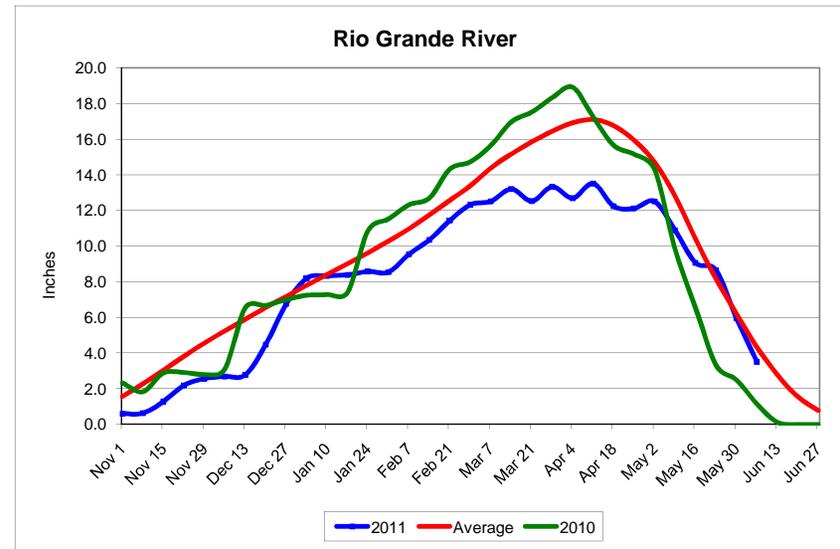
Percent of Average for June 6, 2011 **274 %**
WY 2011 Compared to WY 2010 **1124 %**



Percent of Average for June 6, 2011 **370 %**
WY 2011 Compared to WY 2010 **724 %**



Percent of Average for June 6, 2011 **105 %**
WY 2011 Compared to WY 2010 **856 %**



Percent of Average for June 6, 2011 **81 %**
WY 2011 Compared to WY 2010 **306 %**