WPIC
JUNE 21, 2011
EXHIBIT 4

Department of Natural Resources and Conservation, Water Resources Division

State Water Projects Bureau

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MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

WATER RESOURCES DIVISION - STATE WATER PROJECTS BUREAU

June 15, 2011

All Contents in Acre-Feet

RESERVOIR	TOTAL CAPACITY (includes dead storage)*	CONTENTS				% CAPACITY	%AVERAGE	READING	COMMENTS
	Full Pool	AVERAGE	Last Year	Last Month	PRESENT				
	Contents	1960 - 2010	6/15/2010	5/31/2011	6/15/2011	6/15/2011	6/15/2011	DATE	
ACKLEY	6,140	5,204	5,985	5,728	5,509	90	106	6/13/2011	from R. Epkes inflows=18 cfs outflows=25 cfs
BAIR	7,300	5,376	7,400	7,455	7,500	103	140	6/11/2011	from L. Hammond inflow=outflow~100 cfs (spilling)
CATARACT	1,478	687	650	500	779	53	113	6/9/2011	from D. Larson el.=6335.18
COONEY	28,230	24,469	27,878	28,230	29,230	104	119	6/15/2011	Full Pool (spilling) (volume estimated) inflow=500 cfs
COTTONWOOD	1,900	1,564	2,040	2,024	2,024	107	129	6/15/2011	volume estimated (spilling)
DEADMAN'S BASIN	75,968	53,485	63,210	76,170	74,950	99	140	6/12/2011	from T. Hice el.=3920.5
E.F. ROCK CREEK	16,040	12,210	15,820	13,304	13,986	87	115	6/14/2011	from data logger el.=6050.2 inflow=220 cfs outflow=150 cfs
FRENCHMAN	2,777	2,535	2,657	2,777	3,749	135	148	6/14/2011	elev.=2266.13 inflow=452 cfs outflow=871 cfs
MARTINSDALE	23,348	16,562	22,885	19,912	20,120	86	121	6/10/2011	from L. Hammond
MIDDLE CREEK	10,184	10,050	9,027	7,867	7,100	70	71	6/14/2011	from data logger el.=6706.8 inflow=150 cfs outflow=136 cfs
NEVADA CREEK	11,207	10,184	11,207	11,522	11,766	105	116	6/14/2011	from R. Hawkins el.=4617.5 (spilling) inflow=426 cfs
NILAN	10,992	8,671	9,996	10,809	10,850	99	125	6/14/2011	from J. Wolfe el.=4442.25 (9,950 AF)
N.FK. SMITH RIVER	11,406	9,616	11,434	11,553	11,553	101	120	6/15/2011	volume estimated (spilling) estimated elev=5488.8
RUBY RIVER	36,633	35,192	38,137	38,570	38,652	106	110	6/15/2011	volume estimated (spilling) inflow=1,260 cfs outflow=1,230 cfs
TONGUE RIVER	79,071	69,265	82,565	81,617	82,953	105	120	6/14/2011	from Data Logger el.=3429.4 (spilling)
W.F. BITTERROOT	32,362	30,649	32,362	33,108	36,242	112	118	6/14/2011	extrapolated from USGS outflow (1,940 cfs)
WILLOW CREEK	18,000	16,125	18,000	16,613	18,263	101	113	6/9/2011	from D. Larson el.=4736.26 (spilling)
YELLOWATER	3,842	1,322	1,530	3,842	4,418	115	334	6/13/2011	from T. Olson el.=3120.05 (spilling)

* Note: Reservoir contents include dead storage at the following:

Ackley	325 AF	**	Tongue River	711 AF	(O&M storage table includes dead storage)
Cooney	90 AF	**	W. F. Bitterroot	656 AF	(O&M storage table includes dead storage)
Deadman's	3750 AF	**	Willow Creek	269 AF	(O&M storage table includes dead storage)
Nilan	900 AF	**			

** O&M slope storage table does not include dead storage (so dead storage has to be added into the storage from the table)

* Note: Cooney capacity reflects capacity after 1982 dam rehabilitation; prior capacity was 24,195 A.F.. Average storage shown is for post rehabilitation data.

* Note: Middle Creek capacity reflects capacity after 1993 dam rehabilitation; prior capacity was 8,027 A.F.. Average storage shown is for post rehabilitation data.

* Note: Nevada Creek Reservoir Capacity reflects live storage capacity survey conducted in year 2000. Prior live storage capacity documented as 12,723 AF.

* Note: Ruby River capacity reflects capacity at concrete crest elevation; capacity at top of flashboards is 37,612 A.F.

* Note: Tongue River capacity reflects capacity after 1999 dam rehabilitation; prior capacity was 68,040 A.F.. Average storage is post rehabilitation data.

* Note: Frenchman Reservoir capacity tables updated based on aerial survey; prior capacity was 3752 A.F. Average shown is pre aerial survey

Reservoir Contents Report
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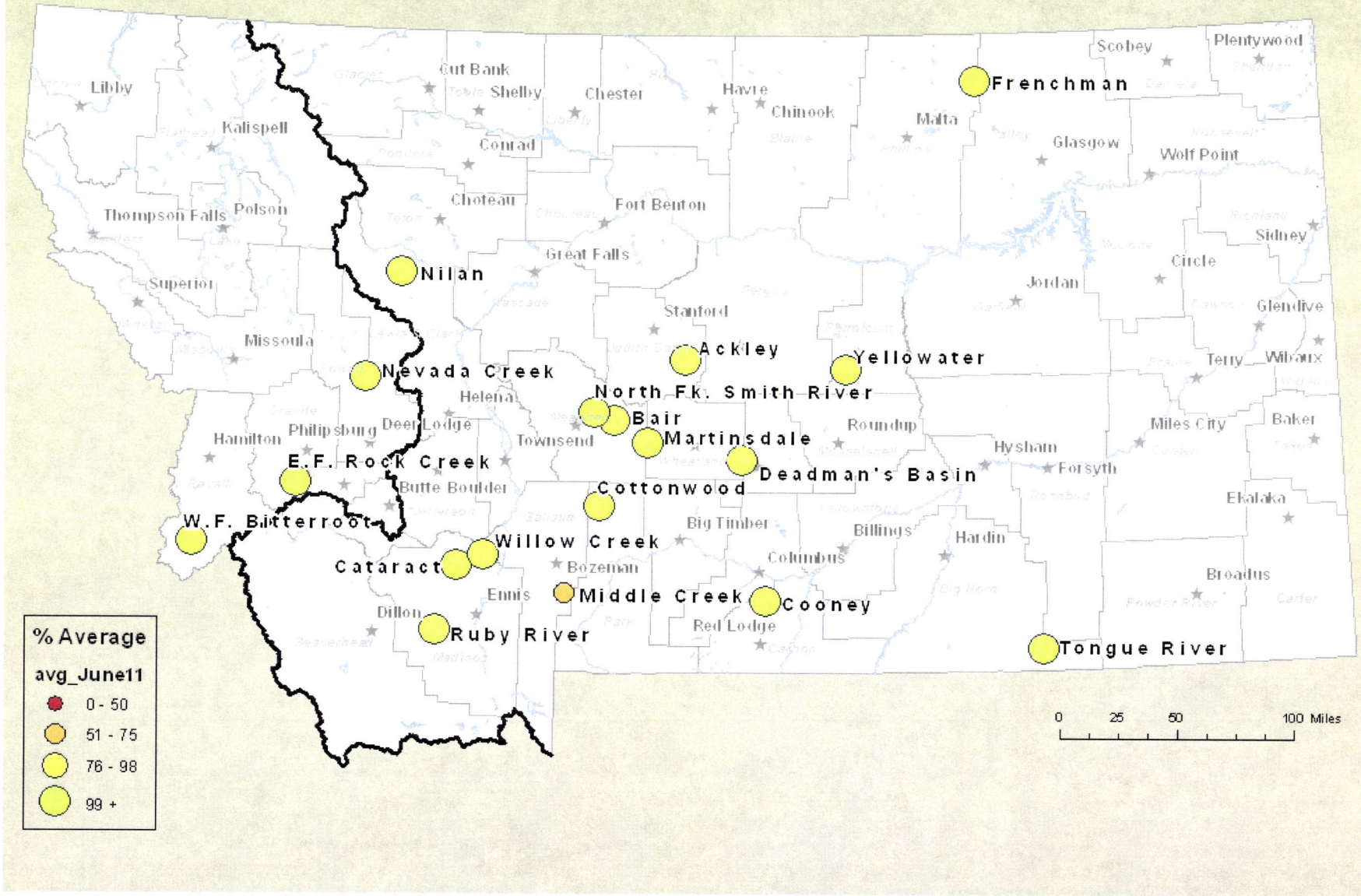
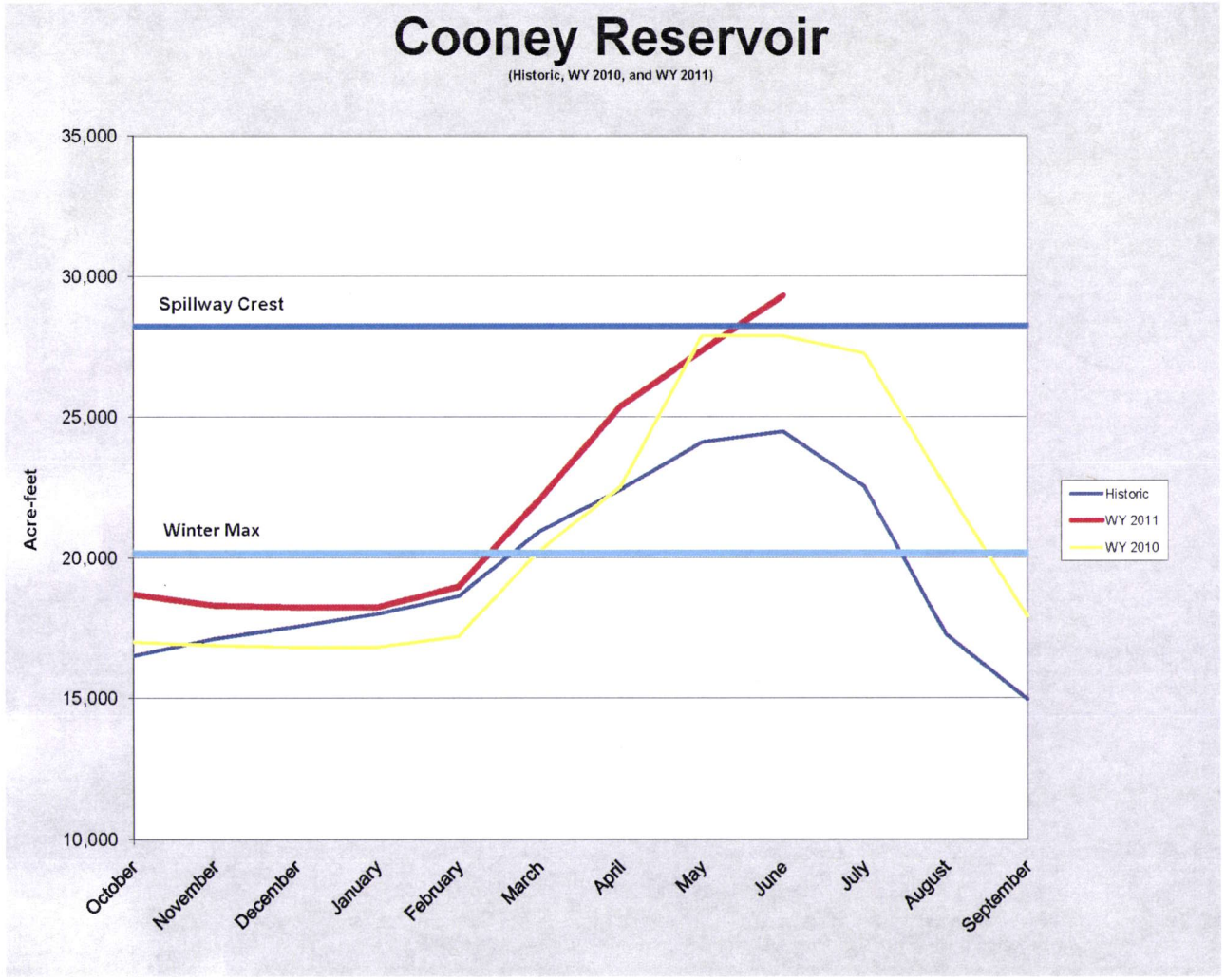
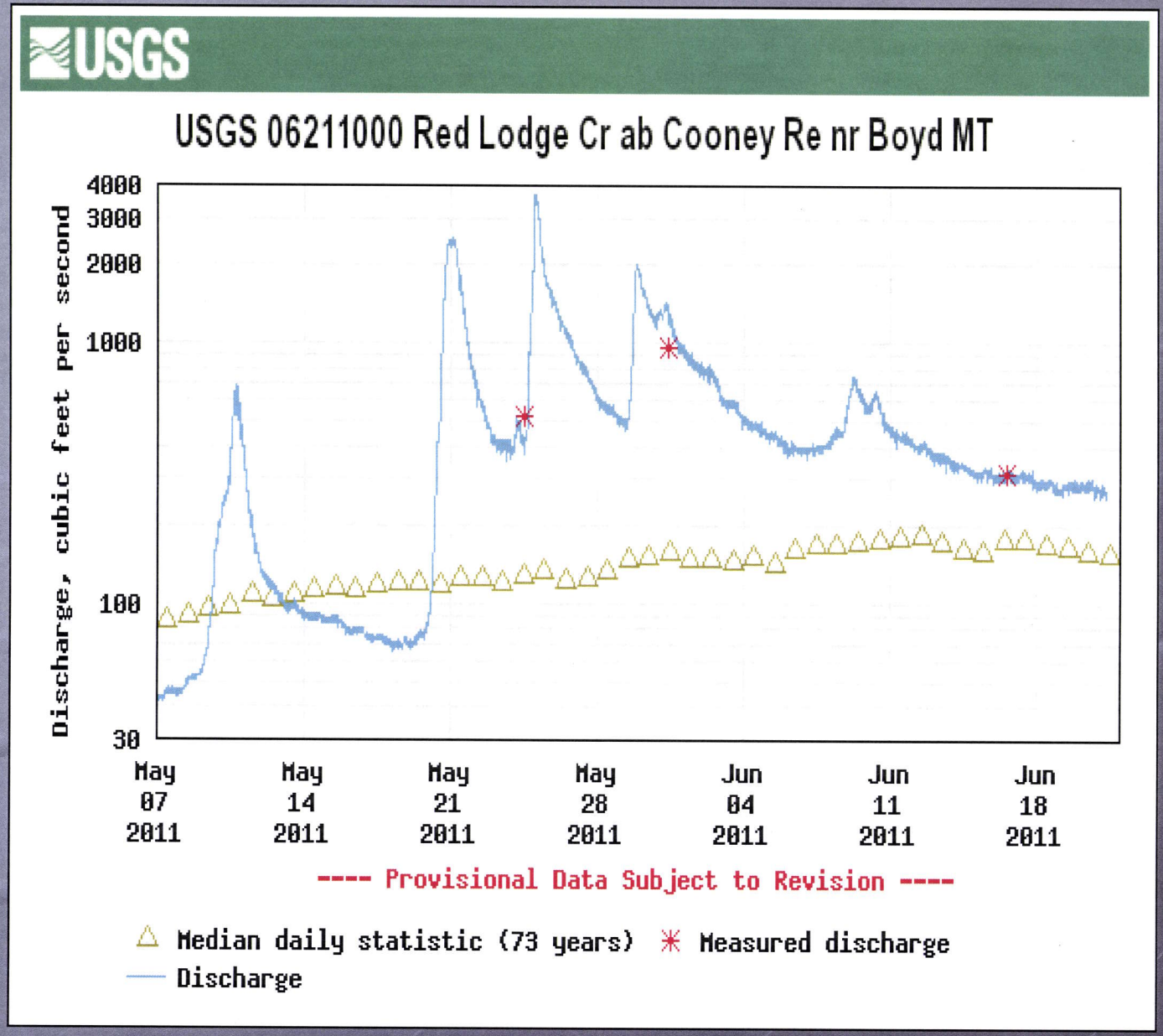
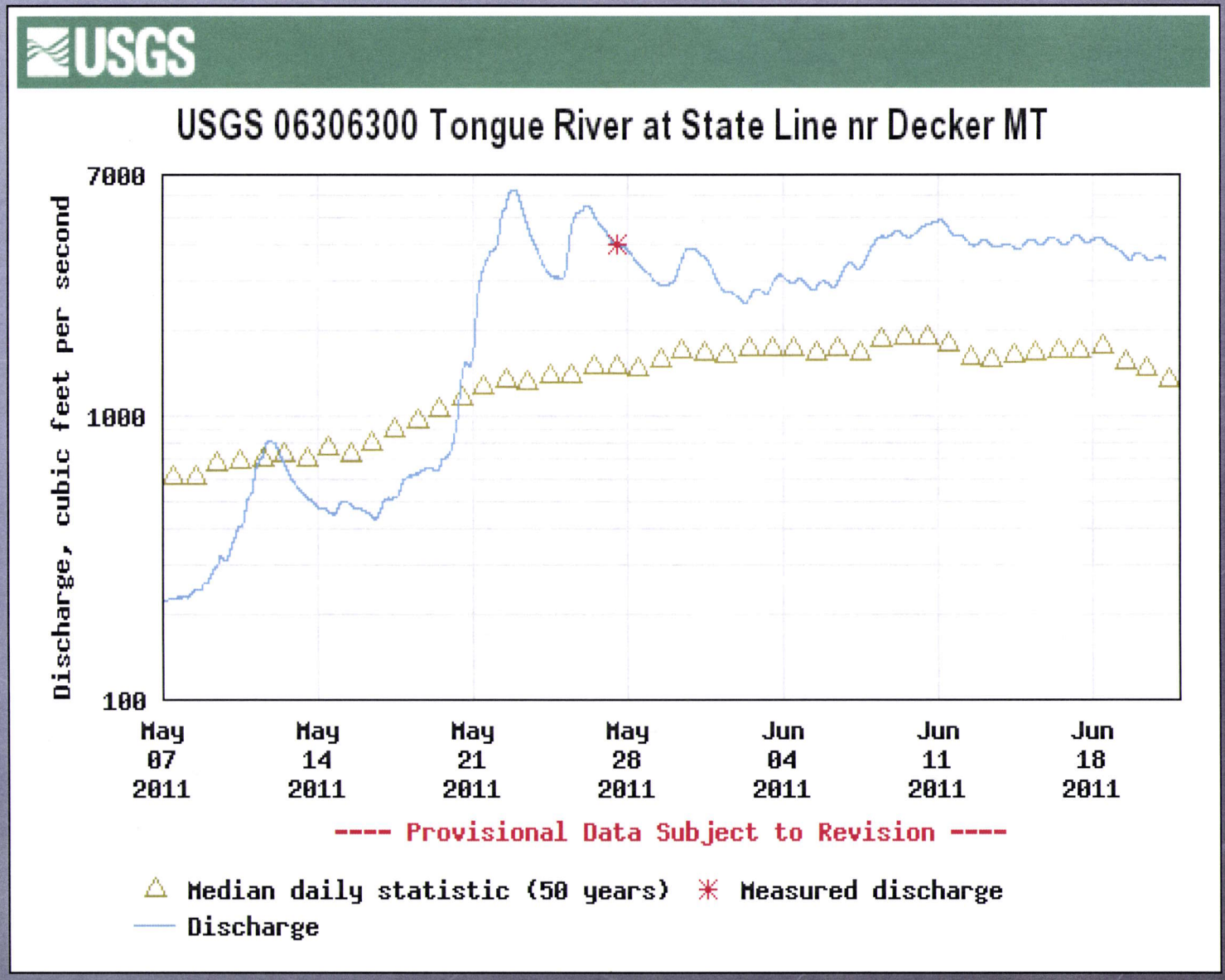
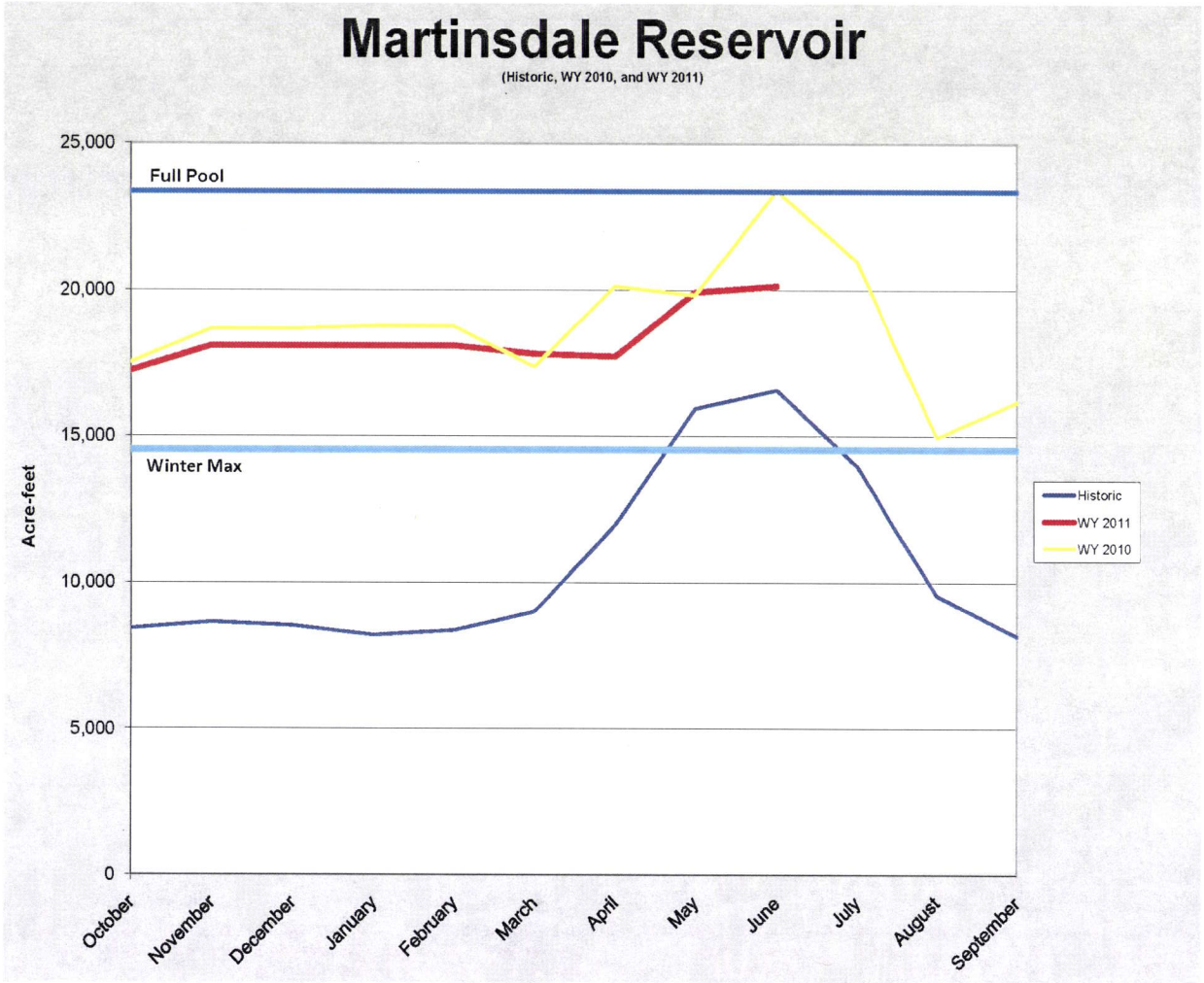




- 104% Capacity
- 119% average
- ~29,300 Acre-Feet
- Inflows=500 cfs+/-
- Elev.=4252.3
- Reservoir conditions are normal


USGS
USGS 06211000 Red Lodge Cr ab Cooney Re nr Boyd MT
Discharge, cubic feet per second
4000
3000
2000
1000
100
30
May 07 2011
May 14 2011
May 21 2011
May 28 2011
Jun 04 2011
Jun 11 2011
Jun 18 2011
---- Provisional Data Subject to Revision ----
Median daily statistic (73 years)
Measured discharge
Discharge


USGS
USGS 06306300 Tongue River at State Line nr Decker MT
Discharge, cubic feet per second
7000
1000
100
May 07 2011
May 14 2011
May 21 2011
May 28 2011
Jun 04 2011
Jun 11 2011
Jun 18 2011
---- Provisional Data Subject to Revision ----
Median daily statistic (50 years)
Measured discharge
Discharge



- 86% Capacity
- 121% average
- 20,120 Acre-Feet
- Inflows=2 cfs+/-
- Outflows=0 cfs
- Elev.=4775.83
- Supply Canal was breached and has sustained damaged at HG
- Reservoir conditions are normal

Summary

- Majority of reservoirs are full and spilling (drafted reservoirs are exceptions)
- Winter carryover+May precipitation=fast storage
- 17 of 18 reservoirs are above historic averages for this time of year (Middle Ck @ 71% was drafted and runoff starting to refill res.)
- Delivery canals for off-stream storage projects incurring damage-assessment to be completed once water recedes
- All DNRC SWP Reservoirs are stable and site conditions are normal
- *If needed*-Water User's will have full water supply from reservoirs