

RECLAMATION

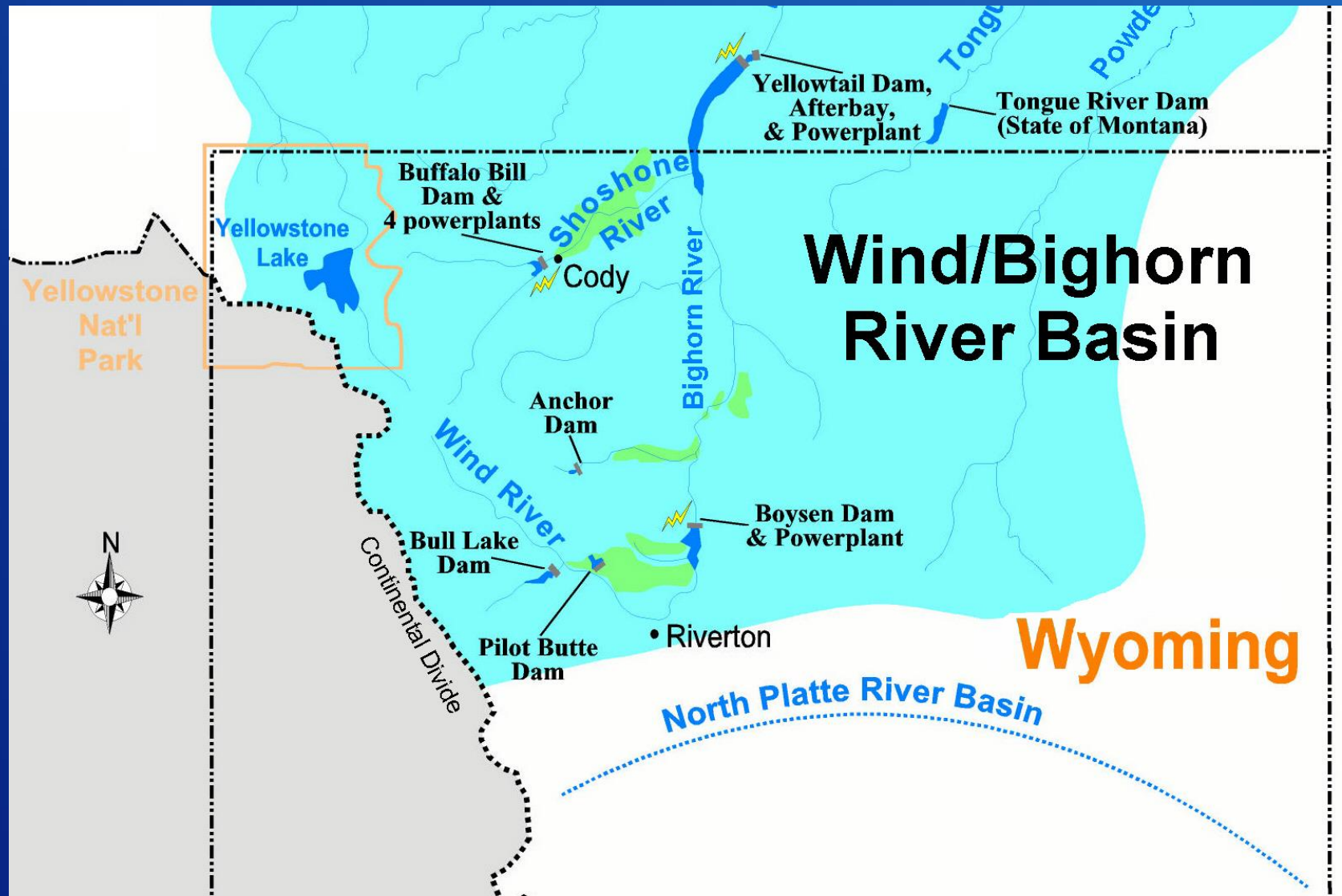
Wyoming Water Update Meeting Wind/Bighorn River Basin



May 25, 2017

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Wind/Bighorn River System



Projected WY 2017 Water Operations

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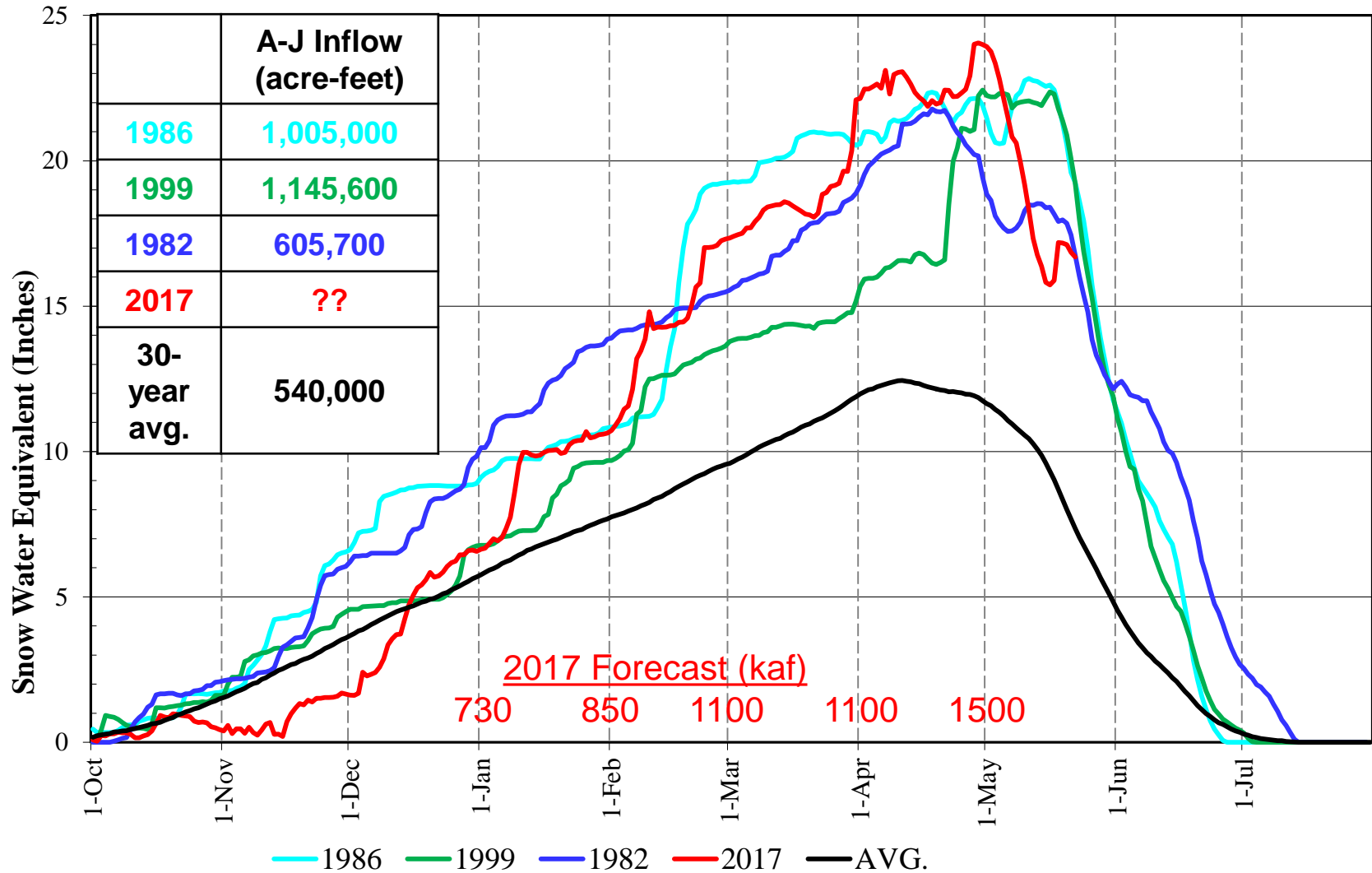
Current Reservoir Conditions

As of May 23, 2017

<u>Reservoir</u>	<u>Elev</u>	<u>Content</u>	<u>% Full</u>	<u>% Avg</u>
Boysen	4710.17	495,049	67%	91%
Buffalo Bill	5350.15	338,346	52%	81%
Bull Lake	5777.42	74,961	49%	89%

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Boysen Historic A-J Inflows



April 1 – May 24 inflow = 412.6 kaf

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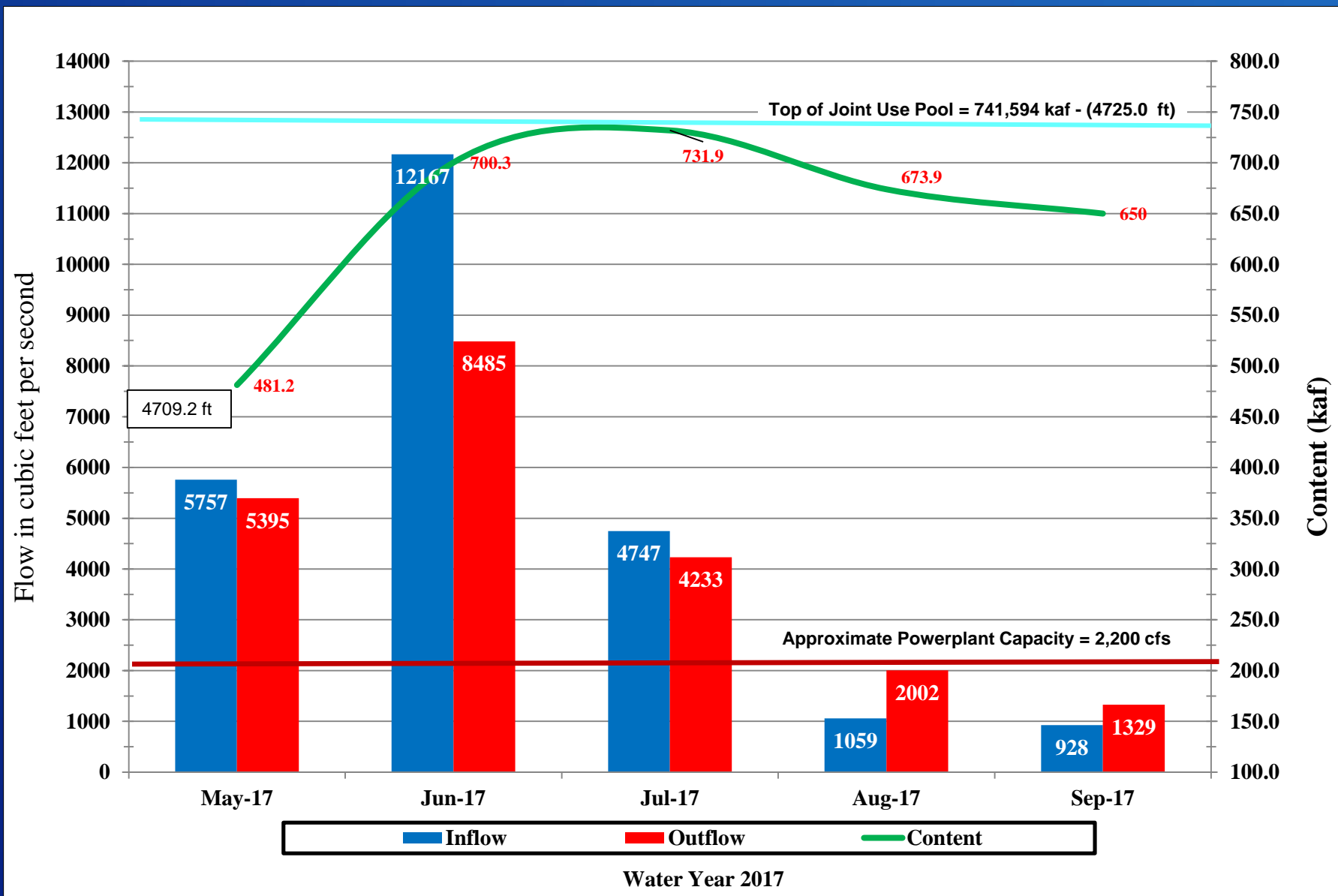
Wind/Bighorn Basin Water Supply Forecast

May 1 Forecast of April – July Snowmelt Runoff

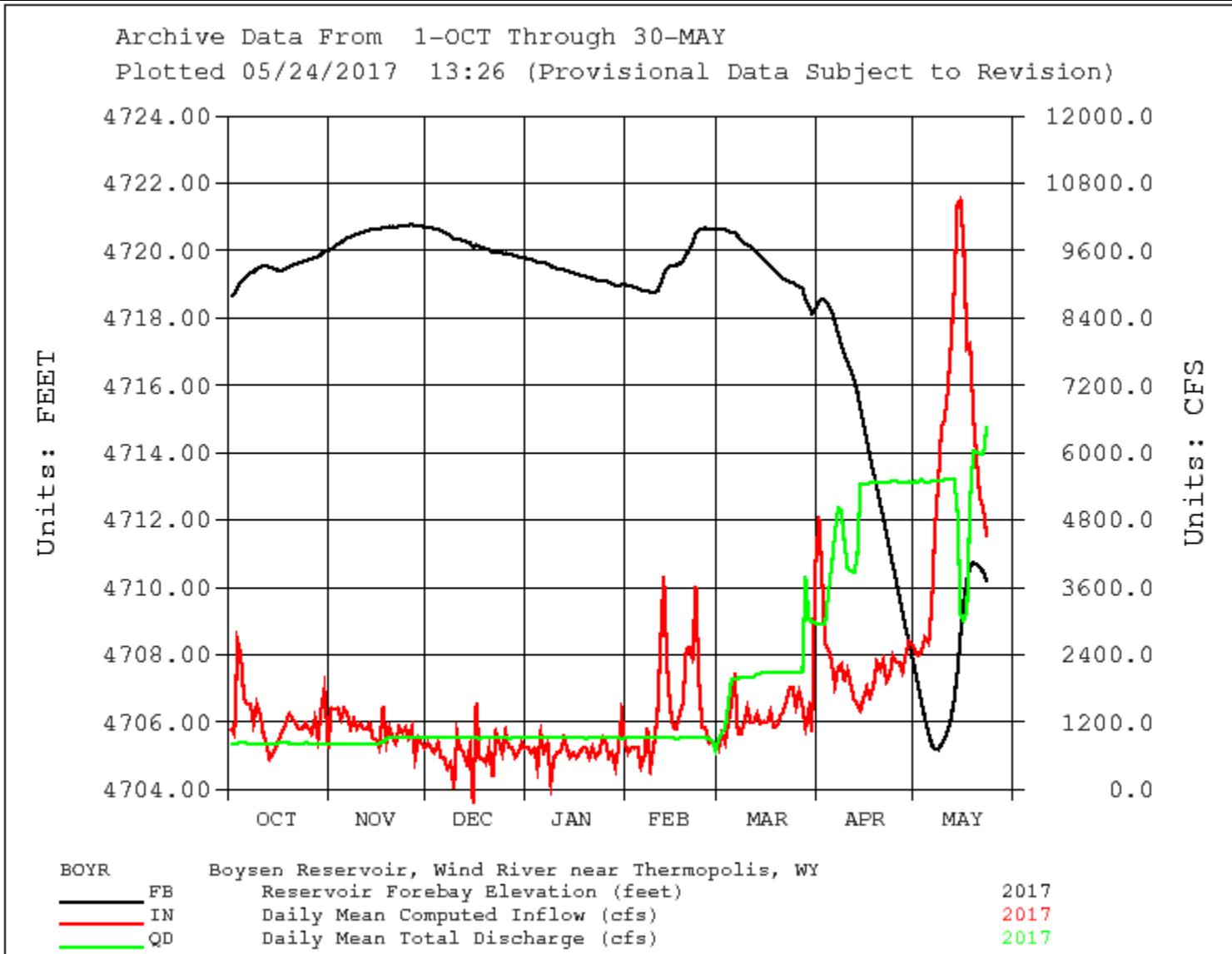
(1000 acre-feet)

Forecast Points	May 1, 2017 Forecast of April-July Runoff			30 Yr. April-July Avg ²	Expected % of Avg 2017	Comparative Actual April - July Runoff			
	Reasonable Minimum ¹	Most Probable	Reasonable Maximum ¹			W. Yr. 2016	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013
	Bull Lake Reservoir	220	250	270	136.0	184	145	138	148
Wind River above Bull Lake Creek	700	800	900	398.1	201	323	529	580	283
Boysen Reservoir	1300	1500	1700	540.0	278	753	750	695	216
Buffalo Bill Reservoir	1050	1250	1450	677.2	185	592	696	1062	577

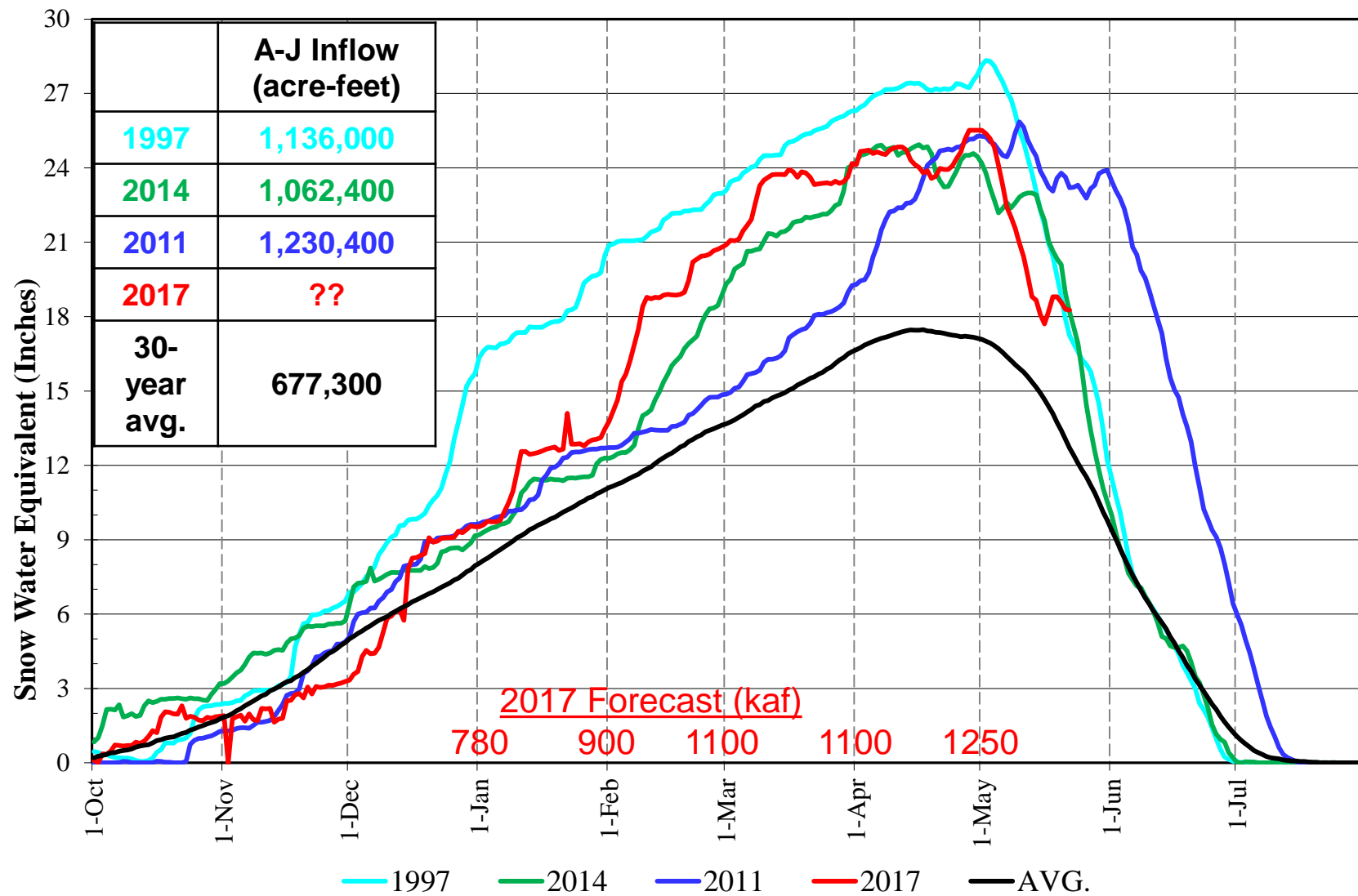
Boysen Reservoir Operations – Water Year 2017 Projections



Boysen Reservoir Operations through May 24th



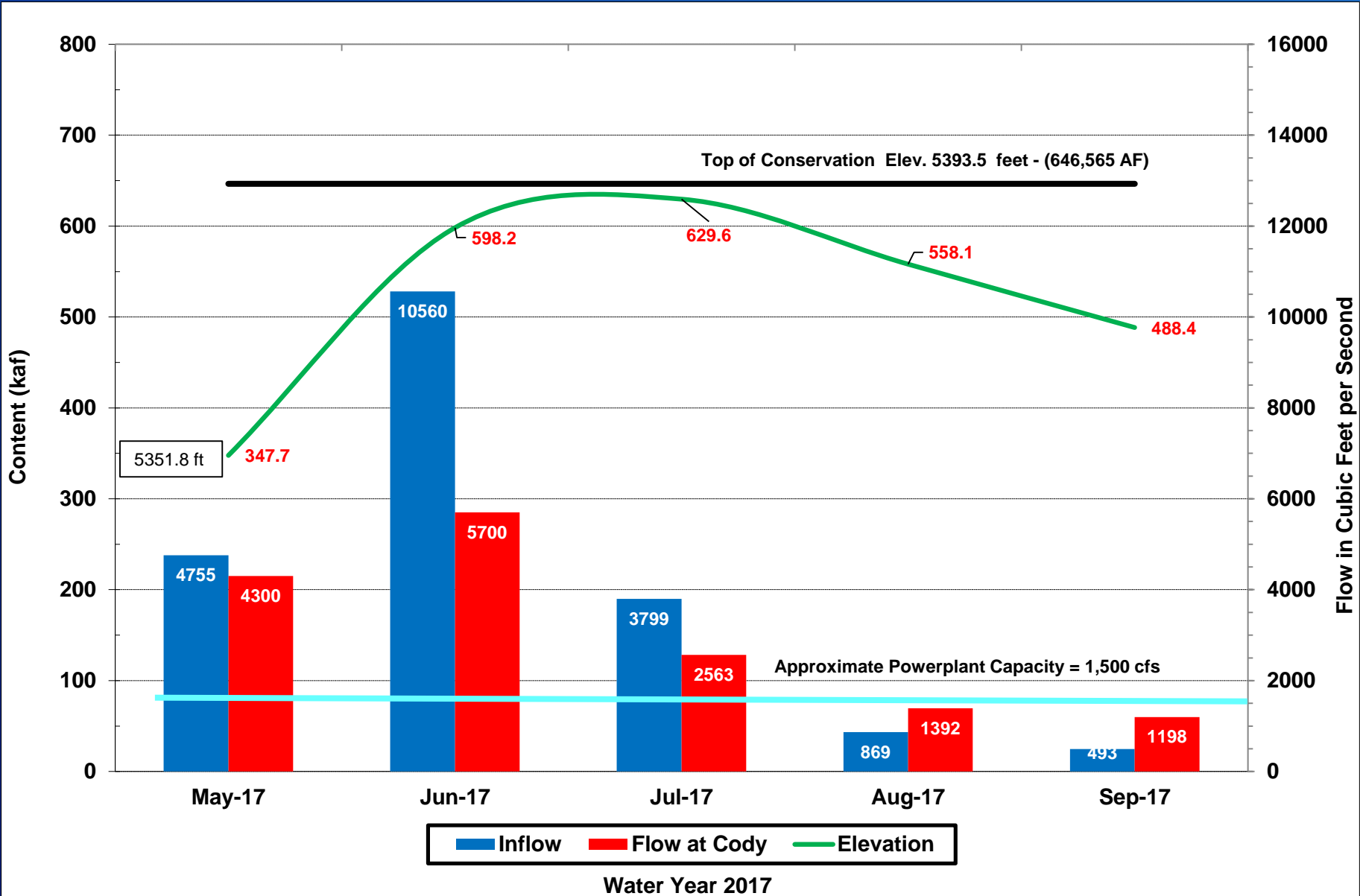
Buffalo Bill Historic A-J Inflows



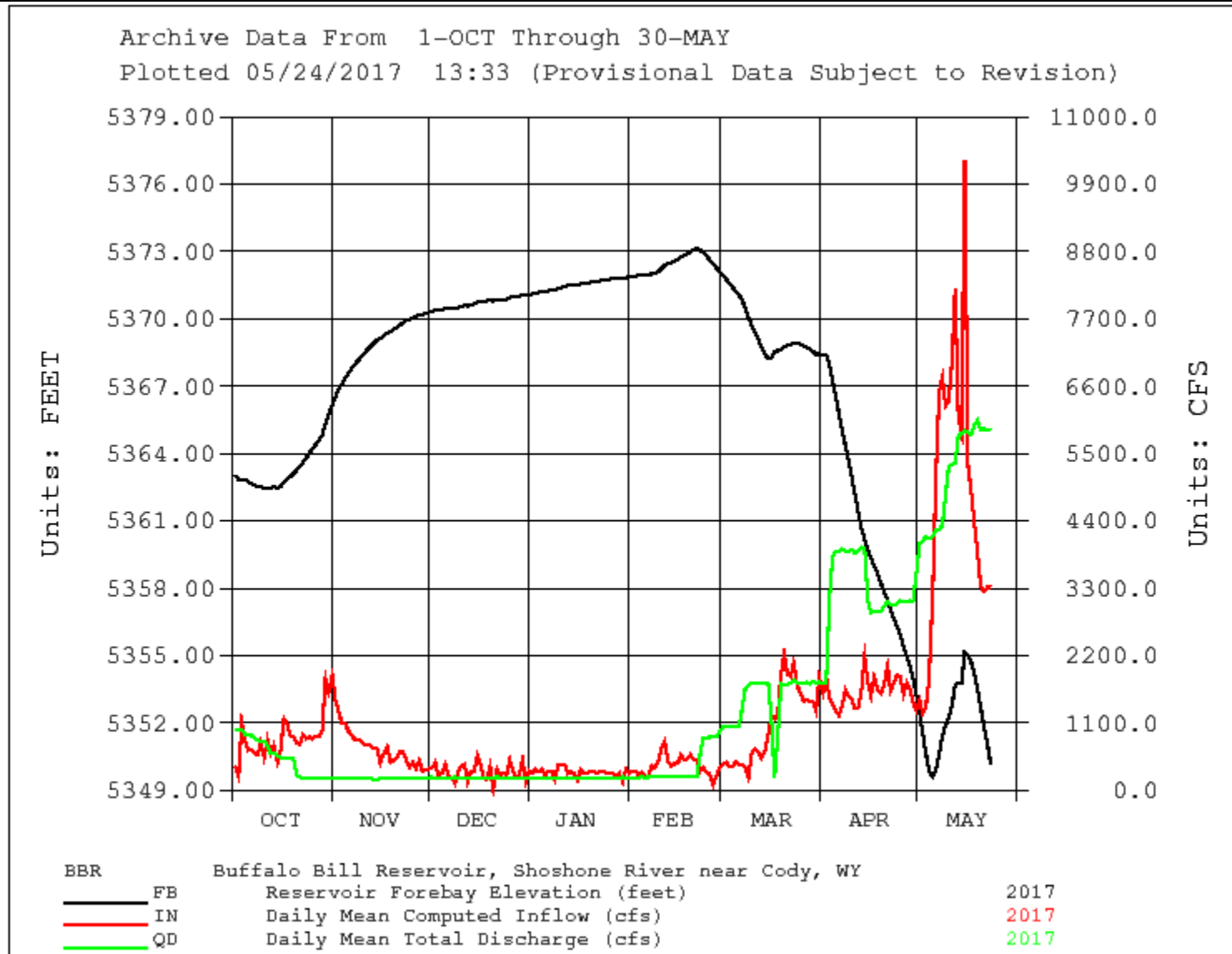
April 1 – May 24 inflow = 322.1 kaf

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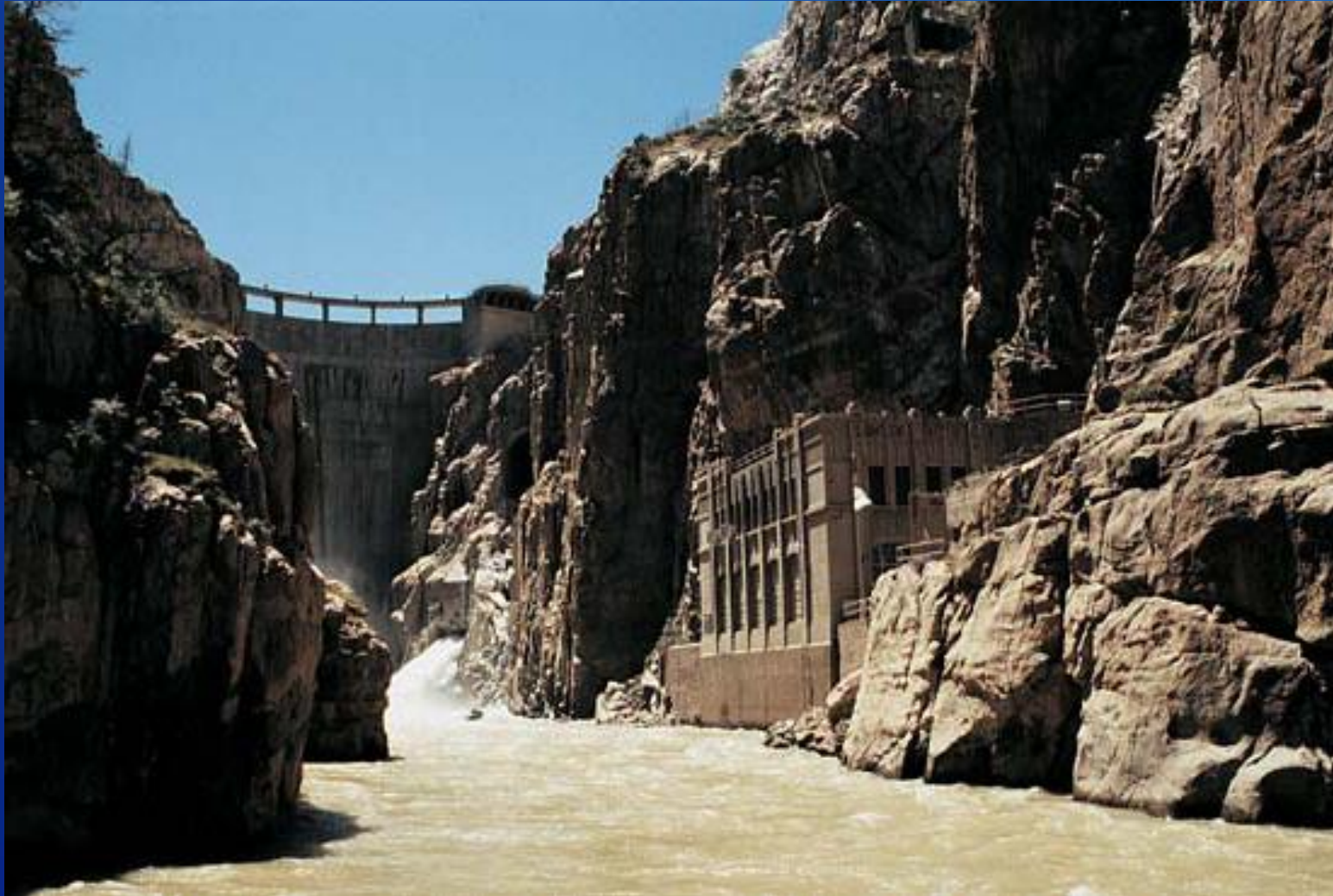
Buffalo Bill Reservoir Operations – Water Year 2017 Projections



Buffalo Bill Reservoir Operations through May 24th



Thank You. Questions?



RECLAMATION

05/24/17
05:57 PM

WYOMING AREA OFFICE
RESERVOIR AND RIVER GAGE REPORT for

m:\ur\wy410\bighorn\resday17.xlsx

05/23/17

23-May-17

RESERVOIR	ELEVATION (feet)	TOTAL STORAGE (ac - ft)	DAILY INFLOW ¹ (cfs)	DAILY OUTFLOW (cfs)	FEET TO FILL	SPACE TO FILL (ac - ft)	PERCENT FULL (%)	HISTORIC DAILY AVG. (%)
<u>NORTH PLATTE RIVER BASIN</u>								
SEMINOE RESERVOIR	6345.83	809,553	4,143	1,507	11.17	207,720	80	143
KORTES RESERVOIR	6142.59	4,788	1,507	1,507	-0.59	-49	101	101
PATHFINDER RESERVOIR	5849.94	1,012,989	2,232	2,064	2.55	57,011	95	167
ALCOVA RESERVOIR	5498.21	180,010	2,064	2,043	1.79	4,395	98	100
GRAY REEF RESERVOIR	5329.60	1,399	2,043	2,003	2.40	401	78	96
GLENDO RESERVOIR	4634.02	480,376	3,529	1,391	0.98	11,646	98	104
GUERNSEY RESERVOIR	4413.36	30,892	2,173	2,027	6.64	14,720	68	96
LAKE ALICE RESERVOIR	4170.70	3,571	431	357	11.30	7,463	32	91
LITTLE LAKE ALICE RESERVOIR	4133.09	321	164	162	5.91	845	28	117
WINTERS CREEK RESERVOIR	4123.43	1,319	6	0	5.57	1,764	43	138
LAKE MINATARE RESERVOIR	4120.00	48,415	389	117	5.00	10,380	82	124
<u>WIND/BIGHORN RIVER BASIN</u>								
BULL LAKE RESERVOIR	5777.42	74,961	408	112	27.58	77,498	49	88
PILOT BUTTE RESERVOIR	5454.81	29,191	-55	0	5.19	4,530	87	110
BOYSEN RESERVOIR	4710.17	495,049	4,505	6,471	14.83	246,545	67	91
ANCHOR RESERVOIR ²	6398.22	4,151	45	96	13.78	3,218	56	402
BIGHORN LAKE, MT	3605.83	740,670	13,170	13,988	34.17	279,903	73	90
<u>SHOSHONE RIVER BASIN</u>								
BUFFALO BILL RESERVOIR	5350.15	338,346	3,315	5,876	43.35	308,219	52	81

<u>REPORT FOR RIVER GAGES ²</u>		FLOW CES	TIME			FLOW CES	TIME
BIGHORN BASIN		NORTH PLATTE BASIN					
BULL LAKE CREEK AB BULL LAKE	4.01	747	MAY 24, 2017 17:15	NORTH PLATTE RIVER NR NORTH GATE	4.20	1,200	MAY 24, 2017 17:45
BULL LAKE CREEK NEAR LENORE	1.64	123	MAY 24, 2017 17:15	NPR ABOVE SEMINOE NR SINCLAIR	5.36	3,110	MAY 24, 2017 17:30
WIND RIVER AB RED CREEK	5.47	2,503	MAY 24, 2017 17:45	MEDICINE BOW ABOVE SEMINOE	3.52	544	MAY 24, 2017 17:30
WIND RIVER NR CROWHEART	7.45	2,440	MAY 24, 2017 17:15	NPR BELOW KORTES	4.89	1,448	MAY 24, 2017 17:15
WIND RIVER NR KINNEAR	6.24	1,775	MAY 24, 2017 17:00	NPR BELOW PATHFINDER	0.96	96	MAY 24, 2017 17:45
WIND RIVER AT RIVERTON	5.93	1,590	MAY 24, 2017 17:15	SWEETWATER RIVER ABOVE ALCOVA	5.58	1,194	MAY 24, 2017 17:45
LITTLE WIND RIVER NR RIVERTON	5.16	1,843	MAY 24, 2017 17:15	NPR NR GLENROCK	2.62	2,538	MAY 24, 2017 17:30
WIND RIVER BELOW BOYSEN	9.52	6,974	MAY 24, 2017 17:00	NPR NR ORIN	5.39	3,428	MAY 24, 2017 17:45
BIGHORN RIVER NR WORLAND	5.74	6,208	MAY 24, 2017 17:30	NPR BELOW GLENDO	6.05	1,831	MAY 24, 2017 17:15
BIGHORN RIVER AT KANE	5.85	8,145	MAY 24, 2017 17:15	NPR BELOW GUERNSEY	5.10	3,152	MAY 24, 2017 17:15
NORTH FORK SHOSHONE RIVER	4.31	1,513	MAY 24, 2017 17:15	LARAMIE RIVER NR FT LARAMIE	4.16	398	MAY 24, 2017 17:00
SOUTH FORK SHOSHONE RIVER	6.47	1,583	MAY 24, 2017 17:00	NPR BELOW WHALEN	6.39	1,450	MAY 24, 2017 17:00
SHOSHONE RIVER BELOW BBR	7.56	5,346	MAY 24, 2017 17:00	NPR AT NE-WY STATE LINE	3.35	1,375	MAY 24, 2017 17:45

¹ Negative values are the result of calculated inflow based on reservoir release and change in reservoir content

² A value of 998877 indicates missing data. During the winter months erroneous gage heights and flows may be reported due to ice affects at the gage.

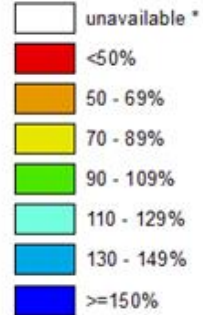
³ Elevation of v-notch in dike (6412 ft and 7,369 acre-feet)

Wyoming Snotel Basin Report

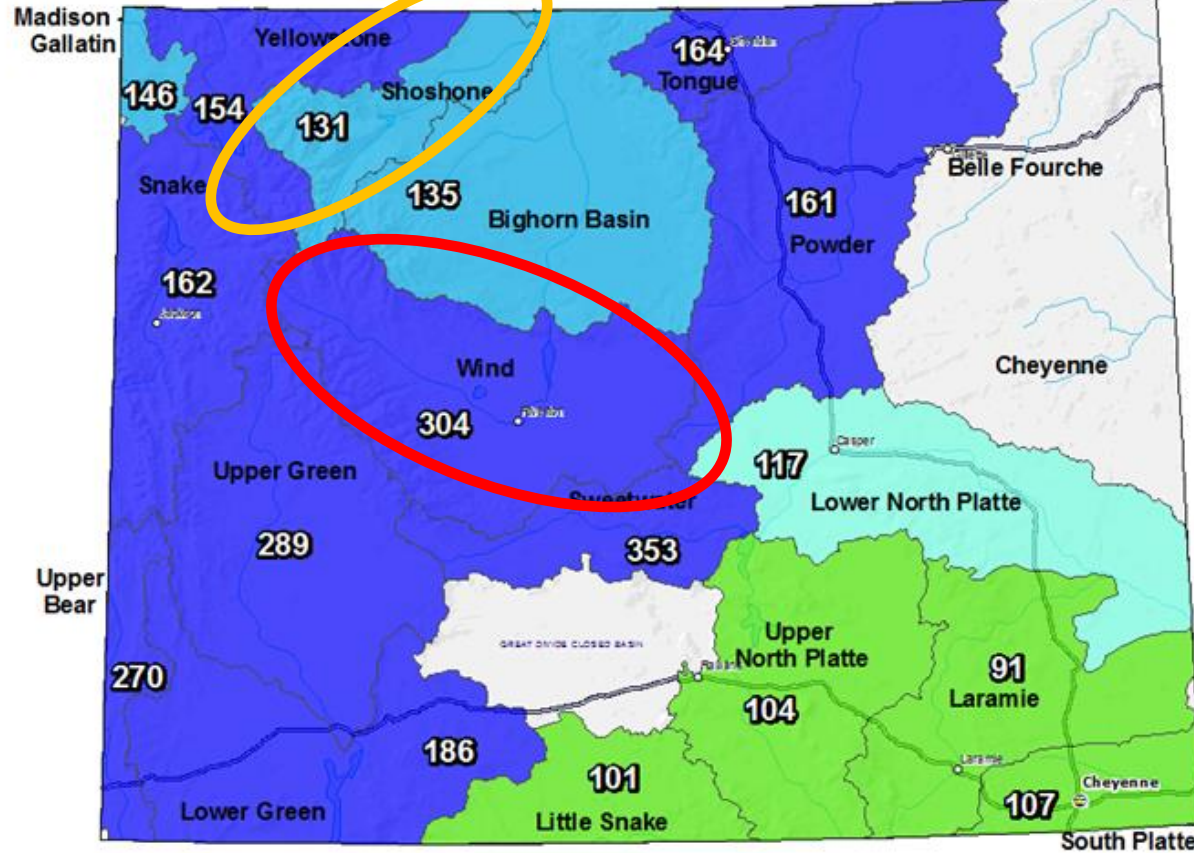
Wyoming SNOTEL Current Snow Water Equivalent (SWE) % of Normal

May 22, 2017

Current Snow Water Equivalent (SWE) Basin-wide Percent of 1981-2010 Median



Provisional Data
Subject to Revision



The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).



Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>

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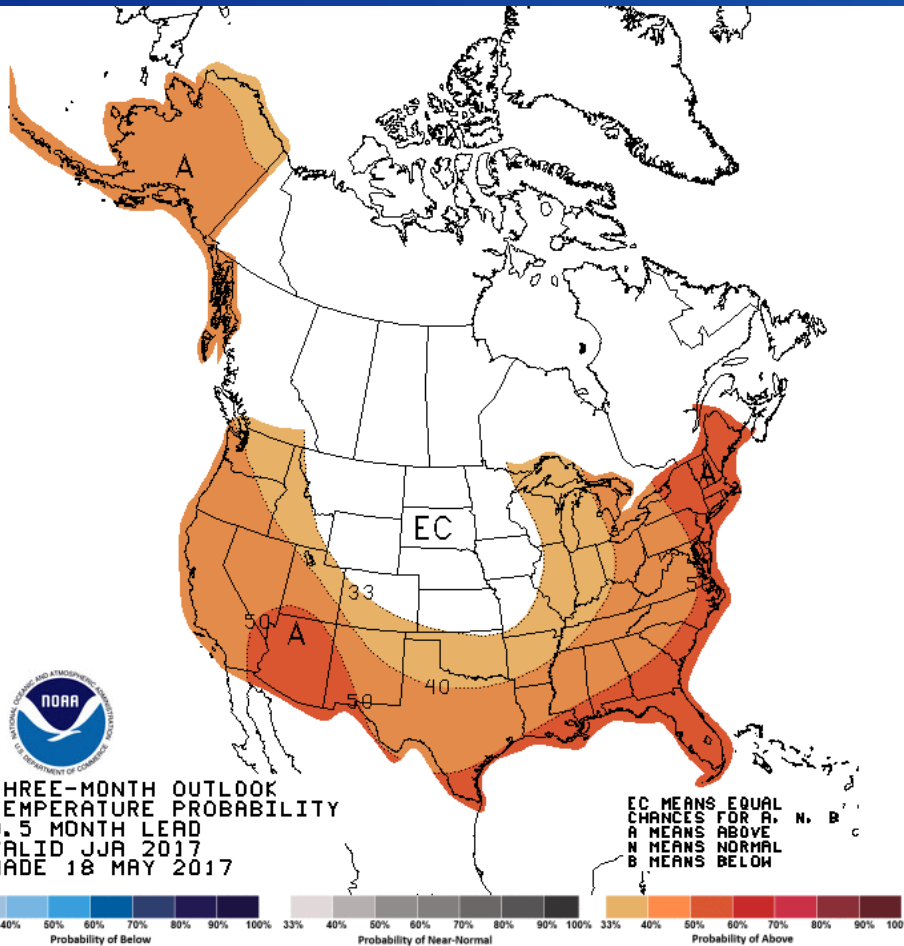
Snow Water Equivalent - % of Median

DRAINAGE BASIN	5/22/2017	5/15/2017	5/8/2017	5/22/2016	5/22/2015	5/22/2014
WIND RIVER	304	210	227	152	88	153
BIGHORN BASIN	135	99	130	69	62	190
SHOSHONE RIVER	131	124	138	66	72	146

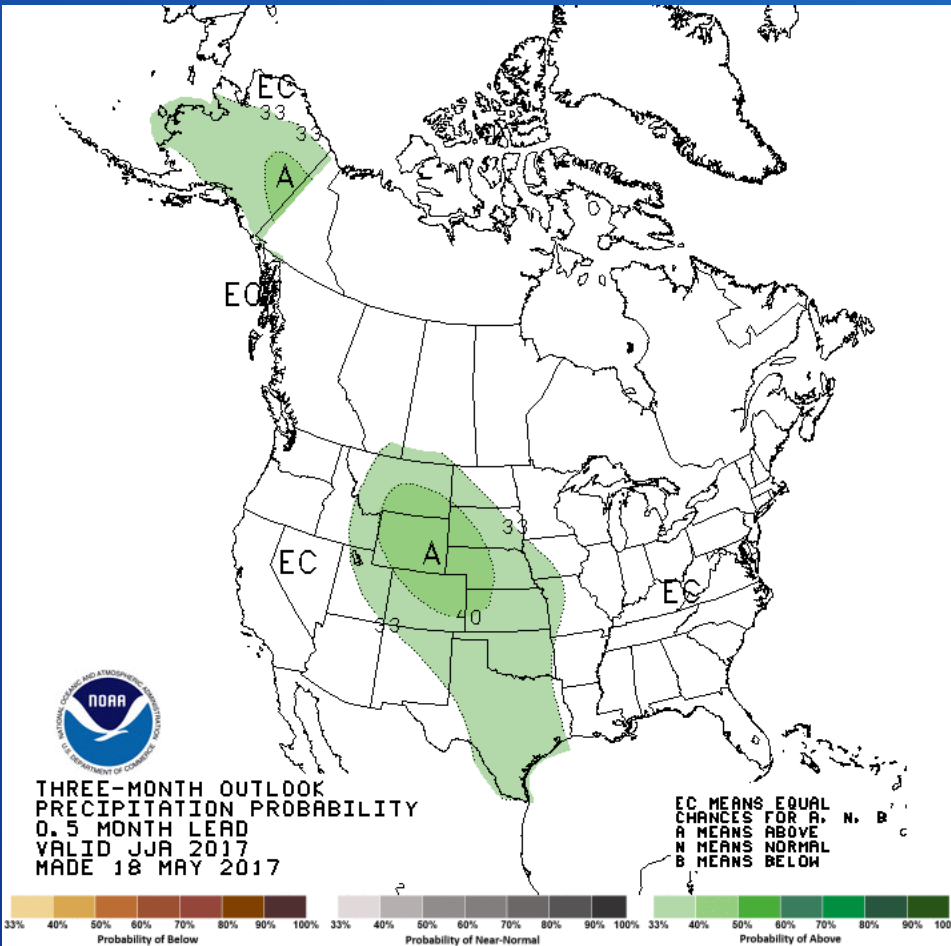
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NWS Outlook June-July-August

Temperature



Precipitation



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