

RECLAMATION

Managing Water in the West

BOYSEN RESERVOIR OPERATIONS

Water Supply Forecasts and Reservoir Operations

Prepared February 1, 2018

Present Elevation and Storage: 4719.42 & 638,172 acre-feet

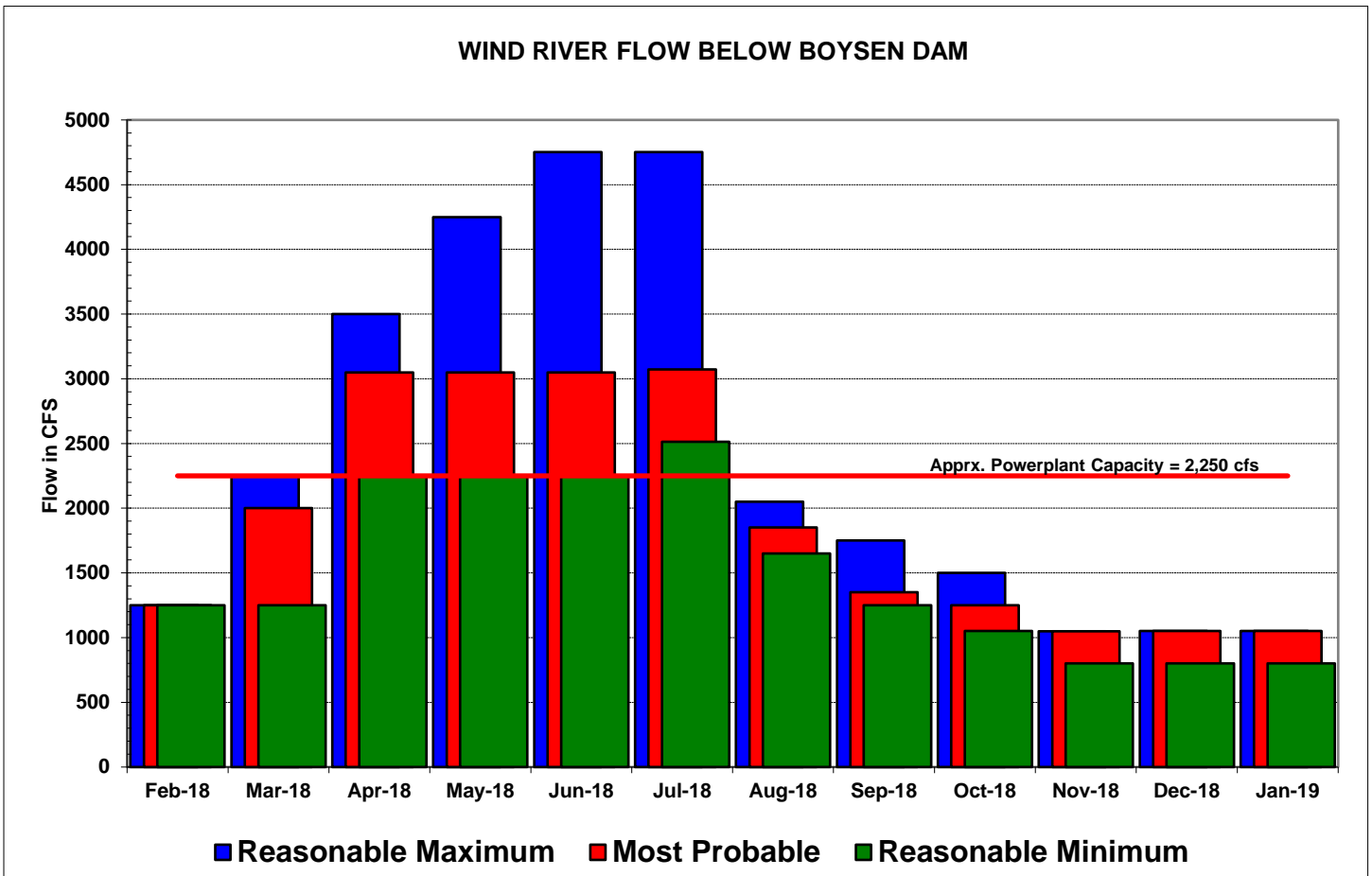
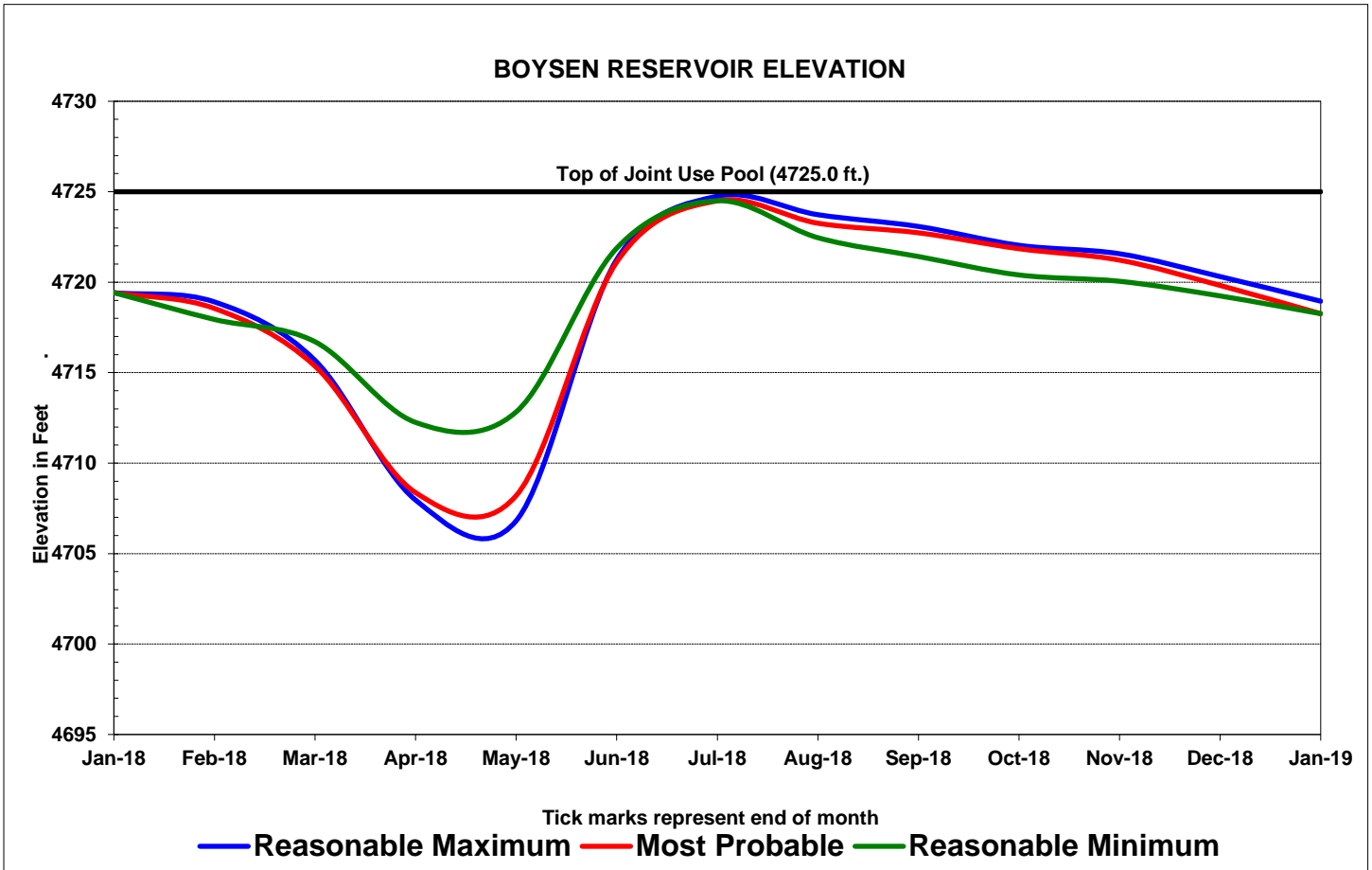
Actual Inflows (1,000 Acre-Feet):

<u>Month</u>	<u>Inflow</u>	<u>Percent of Normal</u>
February	79.9	219
March	85.1	165
April	132.8	277
May	370.2	304
June	819.0	331
July	314.3	256
August	99.8	205
September	96.0	210
October	114.5	218
November	86.0	182
December	59.3	159
January	55.0	151



U.S Department of the Interior
Bureau of Reclamation
Great Plains Region
Wyoming Area Office
Mills, Wyoming

Boysen Reservoir



BOYAOP V1.48 Run: 02-Feb-2018 15:37
 Based on Expected April-July inflow of 900 kaf

BOYSEN RESERVOIR MONTHLY OPERATIONS													
Boysen Reservoir	2018	Initial Cont				Maximum Cont				Minimum Cont			
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
		Elev 4719.42 ft				Elev 4732.20 ft				Elev 4685.00 ft			
Monthly Inflow	kaf	54.5	71.0	80.8	185.2	381.4	252.6	90.0	70.4	60.5	51.0	39.6	36.8
Monthly Inflow	cfs	981	1155	1358	3012	6410	4108	1464	1183	984	857	644	598
Turbine Release	kaf	62.2	70.9	74.5	137.3	137.7	135.5	113.8	80.4	76.9	62.5	64.6	64.6
Bypass/Spill	kaf	7.2	52.1	107.0	50.2	43.8	53.4	0.0	0.0	0.0	0.0	0.0	0.0
Total Release	kaf	69.4	123.0	181.5	187.5	181.5	188.9	113.8	80.4	76.9	62.5	64.6	64.6
Total Release	cfs	1250	2000	3050	3049	3050	3072	1851	1351	1251	1050	1051	1051
End-Month Content	kaf	623.3	571.3	470.6	468.3	668.2	731.9	708.1	698.1	681.7	670.2	645.2	617.4
End-Month Elevation	ft	4718.55	4715.36	4708.37	4708.20	4721.11	4724.50	4723.26	4722.73	4721.85	4721.22	4719.82	4718.21
Net Change Content	kaf	-14.9	-52.0	-100.7	-2.3	199.9	63.7	-23.8	-10.0	-16.4	-11.5	-25.0	-27.8

BOYAOP V1.48 Run: 02-Feb-2018 15:37
 Based on a reasonable minimum April-July inflow of 700 kaf

BOYSEN RESERVOIR MONTHLY OPERATIONS													
Boysen Reservoir	2018	Initial Cont				Maximum Cont				Minimum Cont			
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
		Elev 4719.42 ft				Elev 4732.20 ft				Elev 4685.00 ft			
Monthly Inflow	kaf	44.1	56.7	65.8	146.9	283.1	204.2	62.7	55.2	46.2	41.4	34.9	32.5
Monthly Inflow	cfs	794	922	1106	2389	4758	3321	1020	928	751	696	568	529
Turbine Release	kaf	62.4	70.0	75.8	138.4	133.9	134.4	101.5	74.4	64.6	47.6	49.2	49.2
Bypass/Spill	kaf	7.0	6.9	58.1	0.0	0.0	20.2	0.0	0.0	0.0	0.0	0.0	0.0
Total Release	kaf	69.4	76.9	133.9	138.4	133.9	154.6	101.5	74.4	64.6	47.6	49.2	49.2
Total Release	cfs	1250	1251	2250	2251	2250	2514	1651	1250	1051	800	800	800
End-Month Content	kaf	612.9	592.7	524.6	533.1	682.3	731.9	693.1	673.9	655.5	649.3	635.0	618.3
End-Month Elevation	ft	4717.94	4716.71	4712.25	4712.83	4721.88	4724.50	4722.46	4721.42	4720.40	4720.05	4719.24	4718.26
Net Change Content	kaf	-25.3	-20.2	-68.1	8.5	149.2	49.6	-38.8	-19.2	-18.4	-6.2	-14.3	-16.7

BOYAOP V1.48 Run: 02-Feb-2018 15:37
 Based on reasonable maximum April-July inflow of 1,200 kaf

BOYSEN RESERVOIR MONTHLY OPERATIONS													
Boysen Reservoir	2018	Initial Cont				Maximum Cont				Minimum Cont			
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
		Elev 4719.42 ft				Elev 4732.20 ft				Elev 4685.00 ft			
Monthly Inflow	kaf	60.7	85.3	97.1	246.3	503.4	353.2	111.3	91.7	72.9	54.0	41.8	40.7
Monthly Inflow	cfs	1093	1387	1632	4006	8460	5744	1810	1541	1186	908	680	662
Turbine Release	kaf	62.1	70.9	74.3	135.8	136.4	137.2	126.1	104.2	92.3	62.5	64.6	64.6
Bypass/Spill	kaf	7.4	67.5	134.0	125.5	146.3	154.9	0.0	0.0	0.0	0.0	0.0	0.0
Total Release	kaf	69.5	138.4	208.3	261.3	282.7	292.1	126.1	104.2	92.3	62.5	64.6	64.6
Total Release	cfs	1251	2251	3501	4250	4751	4751	2051	1751	1501	1050	1051	1051
End-Month Content	kaf	629.4	576.3	465.1	450.1	670.8	731.9	717.1	704.6	685.2	676.7	653.9	630.0
End-Month Elevation	ft	4718.91	4715.68	4707.96	4706.81	4721.25	4724.50	4723.73	4723.08	4722.04	4721.57	4720.31	4718.95
Net Change Content	kaf	-8.8	-53.1	-111.2	-15.0	220.7	61.1	-14.8	-12.5	-19.4	-8.5	-22.8	-23.9