

BBRAOP V1.04 Run: 05-Dec-2016 14:59
 Based on most probable April - July inflow of 680 kaf

BUFFALO BILL RESERVOIR MONTHLY OPERATIONS

Buffalo Bill Reservoir		Initial Cont Elev 466.7 kaf 5370.39 ft				Maximum Cont Elev 643.1 kaf 5393.59 ft				Minimum Cont Elev 41.8 kaf 5259.64 ft			
2016		Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Monthly Inflow	kaf	18.0	15.9	13.9	17.4	38.1	145.6	314.2	181.6	50.9	30.0	27.8	22.5
Shoshone Release	kaf	12.1	12.1	2.1	12.0	6.0	10.9	11.3	11.2	11.4	6.0	6.1	6.0
Non-Power Release	kaf	0.2	0.2	3.5	0.3	0.0	0.0	43.7	47.2	5.1	0.0	0.0	0.0
Total Flow Below Dam	kaf	12.3	12.3	5.6	12.3	6.0	10.9	55.0	58.4	16.5	6.0	6.1	6.0
Buffalo Bill Release	kaf	0.0	0.0	5.5	0.0	48.5	54.4	51.2	51.4	51.4	49.3	24.7	14.8
Municipal Delivery	kaf	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Heart Mtn Release	kaf	0.0	0.0	0.0	0.0	9.0	18.6	18.0	18.6	18.6	10.9	7.8	0.0
Heart Mtn Delivery	kaf	0.0	0.0	0.0	0.0	7.0	36.0	42.0	48.0	41.0	33.0	8.0	0.0
Total Outflow	kaf	12.6	12.6	11.4	12.6	70.8	120.2	166.5	176.7	127.8	99.5	46.9	21.1
Bypass/Spill	kaf	0.0	0.0	0.0	0.0	0.0	0.0	5.7	19.6	0.0	0.0	0.0	0.0
End-Month Targets	kaf					450.0			628.0		481.6		463.9
End-Month Content	kaf	472.1	475.4	477.9	482.7	450.0	475.4	623.1	628.0	551.1	481.6	462.5	463.9
Est Total Storage	kaf	475.5	478.8	481.3	486.1	453.4	478.8	626.5	631.4	554.5	485.0	465.9	467.3
End-Month Elevation	ft	5371.15	5371.60	5371.95	5372.62	5368.04	5371.60	5391.11	5391.72	5381.84	5372.46	5369.80	5370.00
Net Change Content	kaf	5.4	3.3	2.5	4.8	-32.7	25.4	147.7	4.9	-76.9	-69.5	-19.1	1.4
Flow Below BB Pwr	kaf	12.3	12.3	11.1	12.3	54.5	65.3	106.2	109.8	67.9	55.3	30.8	20.8
Flow Below BB Pwr	cfs	200	200	200	200	916	1062	1785	1786	1104	929	501	350
Spring Inflow	kaf	3.7	3.7	3.3	3.7	3.6	3.7	3.6	3.7	3.7	3.6	3.7	3.6
Passing Cody Gage	kaf	16.0	16.0	14.4	16.0	67.1	87.6	127.8	132.1	90.2	69.8	42.3	24.4
Passing Cody Gage	cfs	260	260	259	260	1128	1425	2148	2148	1467	1173	688	410

Shoshone Power	2016	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Shoshone Release	kaf	12.1	12.1	2.1	12.0	6.0	10.9	11.3	11.2	11.4	6.0	6.1	6.0
Generation	gwh	2.232	2.238	0.390	2.228	1.107	2.004	2.164	2.229	2.242	1.139	1.129	1.105
Max Generation	gwh	2.232	2.232	0.383	2.232	2.160	2.232	2.160	2.232	2.232	2.160	2.232	2.160
% Max Generation		100	100	102	100	51	90	100	100	100	53	51	51
Ave kwh/af		184	185	186	186	185	184	192	199	197	190	185	184
End-Month Power Cap	mw	3	3	1	3	3	3	3	3	3	3	3	3
Buffalo Bill Power	2016	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Buffalo Bill Release	kaf	0.0	0.0	5.5	0.0	48.5	54.4	51.2	51.4	51.4	49.3	24.7	14.8
Generation	gwh	0.000	0.000	1.523	0.000	12.750	13.392	12.963	13.386	13.385	12.748	6.709	4.057
Max Generation	gwh	0.000	0.000	12.096	0.000	12.960	13.392	12.960	13.392	13.392	12.960	13.392	12.960
% Max Generation		0	0	13	0	98	100	100	100	100	98	50	31
Ave kwh/af				277		263	246	253	260	260	259	272	274
End-Month Power Cap	mw	0	0	18	0	18	18	18	18	18	18	18	18
Spirit Mtn Power	2016	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Spirit Mtn Release	kaf	0.0	0.0	0.0	0.0	16.0	34.4	33.3	34.4	34.4	33.3	15.8	0.0
Generation	gwh	0.000	0.000	0.000	0.000	1.543	2.732	2.907	3.260	3.238	3.064	1.634	0.000
Max Generation	gwh	0.000	0.000	0.000	0.000	1.620	3.348	3.240	3.348	3.348	3.240	1.674	0.000
% Max Generation		0	0	0	0	95	82	90	97	97	95	98	0
Ave kwh/af						96	79	87	95	94	92	103	
End-Month Power Cap	mw	0	0	0	0	2	4	5	5	4	4	2	0
Heart Mtn Power	2016	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Heart Mtn Release	kaf	0.0	0.0	0.0	0.0	9.0	18.6	18.0	18.6	18.6	10.9	7.8	0.0
Generation	gwh	0.000	0.000	0.000	0.000	2.154	4.453	4.309	4.453	4.453	2.609	1.867	0.000
Max Generation	gwh	0.000	0.000	0.000	0.000	2.160	4.464	4.320	4.464	4.464	4.320	2.232	0.000
% Max Generation		0	0	0	0	100	100	100	100	100	60	84	0
Ave kwh/af						239	239	239	239	239	239	239	
End-Month Power Cap	mw	0	0	0	0	3	6	6	6	6	6	3	0
Total Generation	2016	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Total Generation	gwh	2.232	2.238	1.913	2.228	17.554	22.581	22.343	23.328	23.318	19.560	11.339	5.162
End-month Power Cap	mw	3	3	19	3	26	31	32	32	31	31	26	21

BBRAOP V1.04 Run: 05-Dec-2016 14:59
 Based on reasonable minimum April-July inflow of 455 kaf

BUFFALO BILL RESERVOIR MONTHLY OPERATIONS

Buffalo Bill Reservoir		Initial Cont Elev 466.7 kaf 5370.39 ft				Maximum Cont Elev 643.1 kaf 5393.59 ft				Minimum Cont Elev 41.8 kaf 5259.64 ft			
2016		Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Monthly Inflow	kaf	14.4	12.8	11.7	15.8	38.7	145.3	199.1	71.4	25.3	20.5	25.2	22.2
Shoshone Release	kaf	12.1	12.1	2.1	12.1	6.0	6.1	6.0	6.2	6.2	9.8	6.1	6.0
Non-Power Release	kaf	0.2	0.2	3.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Flow Below Dam	kaf	12.3	12.3	5.6	12.3	6.0	6.1	6.0	6.2	6.2	9.8	6.1	6.0
Buffalo Bill Release	kaf	0.0	0.0	5.5	0.0	10.2	51.5	48.7	50.2	42.9	32.9	23.4	5.9
Municipal Delivery	kaf	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Heart Mtn Release	kaf	0.0	0.0	0.0	0.0	8.2	7.3	8.0	14.0	17.9	18.0	3.7	0.0
Heart Mtn Delivery	kaf	0.0	0.0	0.0	0.0	7.0	36.0	42.0	48.0	41.0	33.0	8.0	0.0
Total Outflow	kaf	12.6	12.6	11.4	12.6	31.7	101.2	105.0	118.7	108.3	94.0	41.5	12.2
Bypass/Spill	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
End-Month Targets	kaf								628.0		481.6		407.3
End-Month Content	kaf	468.5	468.7	469.0	472.2	479.2	523.3	617.4	570.1	487.1	413.6	397.3	407.3
Est Total Storage	kaf	471.9	472.1	472.4	475.6	482.6	526.7	620.8	573.5	490.5	417.0	400.7	410.7
End-Month Elevation	ft	5370.64	5370.67	5370.71	5371.16	5372.13	5378.14	5390.40	5384.33	5373.22	5362.71	5360.21	5361.75
Net Change Content	kaf	1.8	0.2	0.3	3.2	7.0	44.1	94.1	-47.3	-83.0	-73.5	-16.3	10.0
Flow Below BB Pwr	kaf	12.3	12.3	11.1	12.3	16.2	57.6	54.7	56.4	49.1	42.7	29.5	11.9
Flow Below BB Pwr	cfs	200	200	200	200	272	937	919	917	799	718	480	200
Spring Inflow	kaf	3.7	3.7	3.3	3.7	3.6	3.7	3.6	3.7	3.7	3.6	3.7	3.6
Passing Cody Gage	kaf	16.0	16.0	14.4	16.0	28.0	68.6	66.3	74.1	70.7	64.3	36.9	15.5
Passing Cody Gage	cfs	260	260	259	260	471	1116	1114	1205	1150	1081	600	260

Shoshone Power	2016	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Shoshone Release	kaf	12.1	12.1	2.1	12.1	6.0	6.1	6.0	6.2	6.2	9.8	6.1	6.0
Generation	gwh	2.230	2.231	0.388	2.234	1.113	1.148	1.172	1.225	1.185	1.789	1.084	1.064
Max Generation	gwh	2.232	2.232	0.383	2.232	2.160	2.232	2.160	2.232	2.232	2.160	2.232	2.160
% Max Generation		100	100	101	100	52	51	54	55	53	83	49	49
Ave kwh/af		184	184	185	185	186	188	195	198	191	183	178	177
End-Month Power Cap	mw	3	3	1	3	3	3	3	3	3	3	3	3
Buffalo Bill Power	2016	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Buffalo Bill Release	kaf	0.0	0.0	5.5	0.0	10.2	51.5	48.7	50.2	42.9	32.9	23.4	5.9
Generation	gwh	0.000	0.000	1.518	0.000	2.806	13.254	12.786	13.081	11.087	8.411	6.179	1.578
Max Generation	gwh	0.000	0.000	12.096	0.000	12.960	13.392	12.960	13.392	11.383	8.424	13.392	12.960
% Max Generation		0	0	13	0	22	99	99	98	97	100	46	12
Ave kwh/af				276		275	257	263	261	258	256	264	267
End-Month Power Cap	mw	0	0	18	0	18	18	18	18	15	12	18	18
Spirit Mtn Power	2016	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Spirit Mtn Release	kaf	0.0	0.0	0.0	0.0	15.2	34.4	33.3	34.4	34.4	33.3	11.7	0.0
Generation	gwh	0.000	0.000	0.000	0.000	1.612	3.122	3.200	3.235	3.134	2.914	1.116	0.000
Max Generation	gwh	0.000	0.000	0.000	0.000	1.620	3.348	3.240	3.348	3.348	3.240	1.674	0.000
% Max Generation		0	0	0	0	100	93	99	97	94	90	67	0
Ave kwh/af						106	91	96	94	91	88	95	
End-Month Power Cap	mw	0	0	0	0	2	4	5	4	4	4	1	0
Heart Mtn Power	2016	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Heart Mtn Release	kaf	0.0	0.0	0.0	0.0	8.2	7.3	8.0	14.0	17.9	18.0	3.7	0.0
Generation	gwh	0.000	0.000	0.000	0.000	1.963	1.748	1.915	3.351	4.285	4.309	0.886	0.000
Max Generation	gwh	0.000	0.000	0.000	0.000	2.160	4.464	4.320	4.464	4.464	4.320	0.893	0.000
% Max Generation		0	0	0	0	91	39	44	75	96	100	99	0
Ave kwh/af						239	239	239	239	239	239	239	
End-Month Power Cap	mw	0	0	0	0	3	6	6	6	6	6	1	0
Total Generation	2016	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Total Generation	gwh	2.230	2.231	1.906	2.234	7.494	19.272	19.073	20.892	19.691	17.423	9.265	2.642
End-month Power Cap	mw	3	3	19	3	26	31	32	31	28	25	23	21

BBRAOP V1.04 Run: 05-Dec-2016 14:59
 Based on reasonable maximum April-July inflow of 1,015 kaf

BUFFALO BILL RESERVOIR MONTHLY OPERATIONS

Buffalo Bill Reservoir		Initial Cont Elev 466.7 kaf 5370.39 ft				Maximum Cont Elev 643.1 kaf 5393.59 ft				Minimum Cont Elev 41.8 kaf 5259.64 ft			
2016		Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Monthly Inflow	kaf	19.8	16.7	14.8	21.4	52.9	210.1	446.9	305.4	76.0	34.5	28.5	24.6
Shoshone Release	kaf	12.1	12.1	2.1	12.0	10.7	12.2	11.4	11.3	11.4	6.0	6.2	6.0
Non-Power Release	kaf	0.2	0.2	3.5	0.3	0.0	87.7	166.5	172.5	31.6	0.0	0.0	0.0
Total Flow Below Dam	kaf	12.3	12.3	5.6	12.3	10.7	99.9	177.9	183.8	43.0	6.0	6.2	6.0
Buffalo Bill Release	kaf	0.0	0.0	5.5	0.0	49.1	54.5	51.5	51.7	51.5	49.4	27.1	14.9
Municipal Delivery	kaf	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Heart Mtn Release	kaf	0.0	0.0	0.0	0.0	9.0	18.6	18.0	18.6	18.6	13.8	8.0	0.0
Heart Mtn Delivery	kaf	0.0	0.0	0.0	0.0	7.0	36.0	42.0	48.0	41.0	33.0	8.0	0.0
Total Outflow	kaf	12.6	12.6	11.4	12.6	76.1	209.3	289.7	302.4	154.4	102.5	49.6	21.2
Bypass/Spill	kaf	0.0	0.0	0.0	0.0	0.0	23.0	13.0	42.6	0.0	0.0	0.0	0.0
End-Month Targets	kaf							625.0	628.0		481.6		463.9
End-Month Content	kaf	473.9	478.0	481.4	490.2	467.0	467.8	625.0	628.0	549.6	481.6	460.5	463.9
Est Total Storage	kaf	477.3	481.4	484.8	493.6	470.4	471.2	628.4	631.4	553.0	485.0	463.9	467.3
End-Month Elevation	ft	5371.40	5371.97	5372.44	5373.65	5370.43	5370.55	5391.35	5391.72	5381.64	5372.46	5369.52	5370.00
Net Change Content	kaf	7.2	4.1	3.4	8.8	-23.2	0.8	157.2	3.0	-78.4	-68.0	-21.1	3.4
Flow Below BB Pwr	kaf	12.3	12.3	11.1	12.3	59.8	154.4	229.4	235.5	94.5	55.4	33.3	20.9
Flow Below BB Pwr	cfs	200	200	200	200	1005	2511	3855	3830	1537	931	542	351
Spring Inflow	kaf	3.7	3.7	3.3	3.7	3.6	3.7	3.6	3.7	3.7	3.6	3.7	3.6
Passing Cody Gage	kaf	16.0	16.0	14.4	16.0	72.4	176.7	251.0	257.8	116.8	72.8	45.0	24.5
Passing Cody Gage	cfs	260	260	259	260	1217	2874	4218	4193	1900	1223	732	412

Shoshone Power	2016	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Shoshone Release	kaf	12.1	12.1	2.1	12.0	10.7	12.2	11.4	11.3	11.4	6.0	6.2	6.0
Generation	gwh	2.233	2.241	0.391	2.235	1.985	2.225	2.164	2.235	2.231	1.138	1.147	1.104
Max Generation	gwh	2.232	2.232	0.383	2.232	2.160	2.232	2.160	2.232	2.232	2.160	2.232	2.160
% Max Generation		100	100	102	100	92	100	100	100	100	53	51	51
Ave kwh/af		185	185	186	186	186	182	190	198	196	190	185	184
End-Month Power Cap	mw	3	3	1	3	3	3	3	3	3	3	3	3
Buffalo Bill Power	2016	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Buffalo Bill Release	kaf	0.0	0.0	5.5	0.0	49.1	54.5	51.5	51.7	51.5	49.4	27.1	14.9
Generation	gwh	0.000	0.000	1.525	0.000	12.967	13.383	12.949	13.397	13.384	12.706	7.341	4.082
Max Generation	gwh	0.000	0.000	12.096	0.000	12.960	13.392	12.960	13.392	13.392	12.960	13.392	12.960
% Max Generation		0	0	13	0	100	100	100	100	100	98	55	31
Ave kwh/af				277		264	246	251	259	260	257	271	274
End-Month Power Cap	mw	0	0	18	0	18	18	18	18	18	18	18	18
Spirit Mtn Power	2016	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Spirit Mtn Release	kaf	0.0	0.0	0.0	0.0	16.0	34.4	33.3	34.4	34.4	33.3	16.0	0.0
Generation	gwh	0.000	0.000	0.000	0.000	1.565	2.751	2.890	3.259	3.233	3.016	1.645	0.000
Max Generation	gwh	0.000	0.000	0.000	0.000	1.620	3.348	3.240	3.348	3.348	3.240	1.674	0.000
% Max Generation		0	0	0	0	97	82	89	97	97	93	98	0
Ave kwh/af						98	80	87	95	94	91	103	
End-Month Power Cap	mw	0	0	0	0	2	4	5	5	4	4	2	0
Heart Mtn Power	2016	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Heart Mtn Release	kaf	0.0	0.0	0.0	0.0	9.0	18.6	18.0	18.6	18.6	13.8	8.0	0.0
Generation	gwh	0.000	0.000	0.000	0.000	2.154	4.453	4.309	4.453	4.453	3.304	1.915	0.000
Max Generation	gwh	0.000	0.000	0.000	0.000	2.160	4.464	4.320	4.464	4.464	4.320	2.232	0.000
% Max Generation		0	0	0	0	100	100	100	100	100	76	86	0
Ave kwh/af						239	239	239	239	239	239	239	
End-Month Power Cap	mw	0	0	0	0	3	6	6	6	6	6	3	0
Total Generation	2016	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Total Generation	gwh	2.233	2.241	1.916	2.235	18.671	22.812	22.312	23.344	23.301	20.164	12.048	5.186
End-month Power Cap	mw	3	3	19	3	26	31	32	32	31	31	26	21