

# RECLAMATION

## *Managing Water in the West*

### BUFFALO BILL RESERVOIR OPERATIONS

Water Supply Forecasts and Reservoir Operations

Prepared May 2022

**End of April Elevation and Storage:** 5356.22 FT & 375,364 Acre-Feet

**Actual Inflows (1,000 Acre-Feet):**

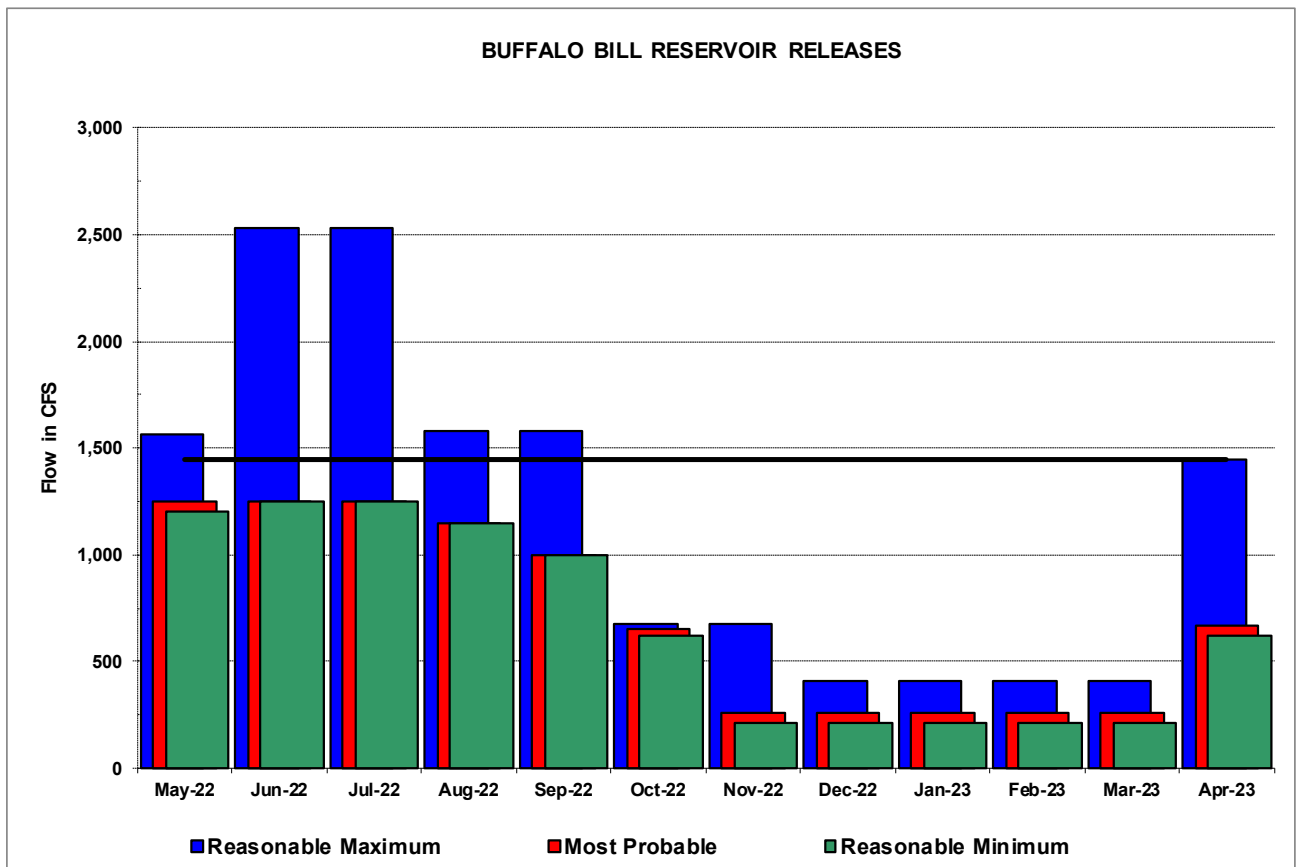
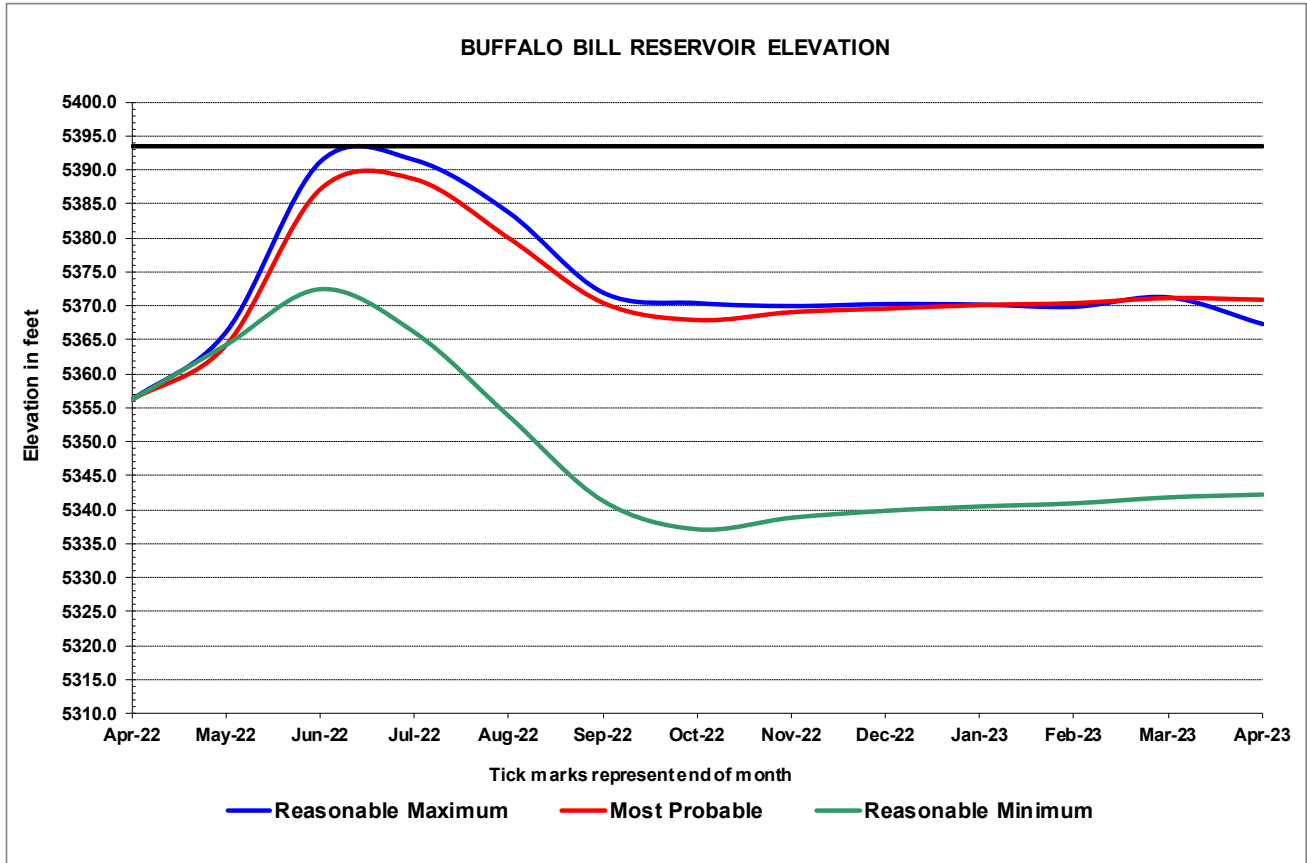
| <u>Month</u> | <u>Inflow</u> | <u>Percent of Normal</u> |
|--------------|---------------|--------------------------|
| May 21       | 165.6         | 87                       |
| June 21      | 278.5         | 83                       |
| July 21      | 63.2          | 36                       |
| August 21    | 31.5          | 72                       |
| September 21 | 16.8          | 65                       |
| October 21   | 23.2          | 81                       |
| November 21  | 17.8          | 75                       |
| December 21  | 11.9          | 70                       |
| January 22   | 11.3          | 72                       |
| February 22  | 8.7           | 65                       |
| March 22     | 17.4          | 80                       |
| April 22     | 24.0          | 51                       |



— BUREAU OF —  
RECLAMATION

U.S Department of the Interior  
Bureau of Reclamation  
Missouri Basin Region  
Wyoming Area Office  
Mills, Wyoming

# BUFFALO BILL RESERVOIR



BBRAOP V1.04 Run: 05-May-2022 13:18  
 Based on a most probable April - July inflow of 600 kaf

BUFFALO BILL RESERVOIR MONTHLY OPERATIONS

| Buffalo Bill Reservoir |      | Initial Cont |         |         | 372.0 kaf  |         |         | Maximum Cont |         |         | 643.1 kaf  |         |         | Minimum Cont |  |  | 41.8 kaf   |  |  |
|------------------------|------|--------------|---------|---------|------------|---------|---------|--------------|---------|---------|------------|---------|---------|--------------|--|--|------------|--|--|
|                        |      | Elev         |         |         | 5356.27 ft |         |         | Elev         |         |         | 5393.59 ft |         |         | Elev         |  |  | 5259.64 ft |  |  |
| Buffalo Bill           | 2022 | May          | Jun     | Jul     | Aug        | Sep     | Oct     | Nov          | Dec     | Jan     | Feb        | Mar     | Apr     | Total        |  |  |            |  |  |
| Monthly Inflow         | kaf  | 161.3        | 280.7   | 132.5   | 42.0       | 19.7    | 26.8    | 20.4         | 16.3    | 16.3    | 13.4       | 17.9    | 41.7    | 789.0        |  |  |            |  |  |
| Shoshone Release       | kaf  | 6.2          | 6.0     | 6.2     | 6.2        | 6.0     | 6.2     | 11.8         | 12.2    | 12.1    | 11.0       | 12.1    | 6.0     | 102.0        |  |  |            |  |  |
| Non-Power Release      | kaf  | 0.0          | 0.0     | 0.0     | 0.0        | 0.0     | 0.0     | 0.1          | 0.1     | 0.2     | 0.1        | 0.2     | 0.0     | 0.7          |  |  |            |  |  |
| Total Flow Below Dam   | kaf  | 6.2          | 6.0     | 6.2     | 6.2        | 6.0     | 6.2     | 11.9         | 12.3    | 12.3    | 11.1       | 12.3    | 6.0     | 102.7        |  |  |            |  |  |
| Buffalo Bill Release   | kaf  | 54.5         | 50.3    | 50.2    | 50.2       | 49.6    | 15.2    | 0.0          | 0.0     | 0.0     | 0.0        | 0.0     | 30.1    | 300.1        |  |  |            |  |  |
| 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     | 3.6          |  |  |            |  |  |
| Heart Mtn Release      | kaf  | 12.5         | 14.5    | 16.8    | 10.6       | 0.3     | 14.9    | 0.0          | 0.0     | 0.0     | 0.0        | 0.0     | 0.0     | 69.6         |  |  |            |  |  |
| Heart Mtn Delivery     | kaf  | 36.0         | 42.0    | 48.0    | 41.0       | 33.0    | 8.0     | 0.0          | 0.0     | 0.0     | 0.0        | 0.0     | 7.0     | 215.0        |  |  |            |  |  |
| Total Outflow          | kaf  | 109.5        | 113.1   | 121.5   | 108.3      | 89.2    | 44.6    | 12.2         | 12.6    | 12.6    | 11.4       | 12.6    | 43.4    | 691.0        |  |  |            |  |  |
| Spill/Waste            | 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     | 0.0          |  |  |            |  |  |
| End-Month Targets      | kaf  | 626.2        |         |         |            |         |         |              |         |         |            |         | 470.0   |              |  |  |            |  |  |
| End-Month Content      | kaf  | 423.8        | 591.4   | 602.4   | 536.1      | 466.6   | 448.8   | 457.0        | 460.7   | 464.4   | 466.4      | 471.7   | 470.0   | 470.0        |  |  |            |  |  |
| Est Total Storage      | kaf  | 427.2        | 594.8   | 605.8   | 539.5      | 470.0   | 452.2   | 460.4        | 464.1   | 467.8   | 469.8      | 475.1   | 473.4   | 473.4        |  |  |            |  |  |
| End-Month Elevation    | ft   | 5364.24      | 5387.09 | 5388.50 | 5379.85    | 5370.38 | 5367.87 | 5369.03      | 5369.55 | 5370.07 | 5370.35    | 5371.09 | 5370.85 | 5370.85      |  |  |            |  |  |
| Net Change Content     | kaf  | 51.8         | 167.6   | 11.0    | -66.3      | -69.5   | -17.8   | 8.2          | 3.7     | 3.7     | 2.0        | 5.3     | -1.7    | 98.0         |  |  |            |  |  |
| Flow Below BB Pwr      | kaf  | 60.7         | 56.3    | 56.4    | 56.4       | 55.6    | 21.4    | 11.9         | 12.3    | 12.3    | 11.1       | 12.3    | 36.1    | 402.8        |  |  |            |  |  |
| Flow Below BB Pwr      | cfs  | 987          | 946     | 917     | 917        | 934     | 348     | 200          | 200     | 200     | 200        | 200     | 607     | 607          |  |  |            |  |  |
| Spring Inflow          | kaf  | 3.7          | 3.6     | 3.7     | 3.7        | 3.6     | 3.7     | 3.6          | 3.7     | 3.7     | 3.3        | 3.7     | 3.6     | 43.6         |  |  |            |  |  |
| Passing Cody Gage      | kaf  | 76.9         | 74.4    | 76.9    | 70.7       | 59.5    | 40.0    | 15.5         | 16.0    | 16.0    | 14.4       | 16.0    | 39.7    | 516.0        |  |  |            |  |  |
| Passing Cody Gage      | cfs  | 1251         | 1250    | 1251    | 1150       | 1000    | 651     | 260          | 260     | 260     | 259        | 260     | 667     | 667          |  |  |            |  |  |

| Shoshone Power      | 2022 | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | Total  |
|---------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Shoshone Release    | kaf  | 6.2   | 6.0   | 6.2   | 6.2   | 6.0   | 6.2   | 11.8  | 12.2  | 12.1  | 11.0  | 12.1  | 6.0   | 102.0  |
| Generation          | gwh  | 1.096 | 1.133 | 1.227 | 1.210 | 1.129 | 1.138 | 2.156 | 2.237 | 2.223 | 2.025 | 2.232 | 1.110 | 18.916 |
| Max Generation      | gwh  | 2.232 | 2.160 | 2.232 | 2.232 | 2.160 | 2.232 | 2.160 | 2.232 | 2.232 | 2.016 | 2.232 | 2.160 | 26.280 |
| % Max Generation    |      | 49    | 52    | 55    | 54    | 52    | 51    | 100   | 100   | 100   | 100   | 100   | 51    | 51     |
| Ave kwh/af          |      | 177   | 189   | 198   | 195   | 188   | 184   | 183   | 183   | 184   | 184   | 184   | 185   | 185    |
| End-Month Power Cap | mw   | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3      |

| Buffalo Bill Power   | 2022 | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov   | Dec   | Jan   | Feb   | Mar   | Apr    | Total  |
|----------------------|------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|
| Buffalo Bill Release | kaf  | 54.5   | 50.3   | 50.2   | 50.2   | 49.6   | 15.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 30.1   | 300.1  |
| Generation           | gwh  | 13.111 | 12.640 | 13.031 | 13.179 | 12.940 | 4.117  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 8.169  | 77.187 |
| Max Generation       | gwh  | 13.392 | 12.960 | 13.392 | 13.392 | 12.960 | 13.392 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 12.182 | 91.670 |
| % Max Generation     |      | 98     | 98     | 97     | 98     | 100    | 31     | 0     | 0     | 0     | 0     | 0     | 67     | 67     |
| Ave kwh/af           |      | 241    | 251    | 260    | 263    | 261    | 271    |       |       |       |       |       | 271    | 257    |
| End-Month Power Cap  | mw   | 18     | 18     | 18     | 18     | 18     | 18     | 0     | 0     | 0     | 0     | 0     | 17     | 17     |

| Spirit Mtn Power    | 2022 | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | Total  |
|---------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Spirit Mtn Release  | kaf  | 34.4  | 33.3  | 34.4  | 34.4  | 33.3  | 22.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 192.7  |
| Generation          | gwh  | 2.527 | 2.812 | 3.199 | 3.304 | 3.145 | 2.336 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 17.323 |
| Max Generation      | gwh  | 3.348 | 3.240 | 3.348 | 3.348 | 3.240 | 3.348 | 2.592 | 2.678 | 3.348 | 2.903 | 1.741 | 0.000 | 33.134 |
| % Max Generation    |      | 75    | 87    | 96    | 99    | 97    | 70    | 0     | 0     | 0     | 0     | 0     | 0     | 0      |
| Ave kwh/af          |      | 73    | 84    | 93    | 96    | 94    | 102   |       |       |       |       |       |       | 90     |
| End-Month Power Cap | mw   | 4     | 5     | 5     | 4     | 4     | 3     | 0     | 0     | 0     | 0     | 0     | 0     | 0      |

| Heart Mtn Power     | 2022 | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | Total  |
|---------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Heart Mtn Release   | kaf  | 12.5  | 14.5  | 16.8  | 10.6  | 0.3   | 14.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 69.6   |
| Generation          | gwh  | 2.992 | 3.471 | 4.022 | 2.538 | 0.072 | 3.567 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 16.662 |
| Max Generation      | gwh  | 4.464 | 4.320 | 4.464 | 4.464 | 4.320 | 3.571 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 25.603 |
| % Max Generation    |      | 67    | 80    | 90    | 57    | 2     | 100   | 0     | 0     | 0     | 0     | 0     | 0     | 0      |
| Ave kwh/af          |      | 239   | 239   | 239   | 239   | 240   | 239   |       |       |       |       |       |       | 239    |
| End-Month Power Cap | mw   | 6     | 6     | 6     | 6     | 6     | 5     | 0     | 0     | 0     | 0     | 0     | 0     | 0      |

| Total Generation    | 2022 | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | Total   |
|---------------------|------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|---------|
| Total Generation    | gwh  | 19.726 | 20.056 | 21.479 | 20.231 | 17.286 | 11.158 | 2.156 | 2.237 | 2.223 | 2.025 | 2.232 | 9.279 | 130.088 |
| End-month Power Cap | mw   | 31     | 32     | 32     | 31     | 31     | 29     | 3     | 3     | 3     | 3     | 3     | 20    | 20      |

BBRAOP V1.04 Run: 05-May-2022 13:18  
 Based on reasonable minimum April-July inflow of 430.0 kaf

BUFFALO BILL RESERVOIR MONTHLY OPERATIONS

| Buffalo Bill Reservoir |      | Initial Cont | 372.0 kaf  |         |         |         |         | Maximum Cont | 643.1 kaf  |         |         |         |         | Minimum Cont | 41.8 kaf   |  |
|------------------------|------|--------------|------------|---------|---------|---------|---------|--------------|------------|---------|---------|---------|---------|--------------|------------|--|
|                        |      | Elev         | 5356.27 ft |         |         |         |         | Elev         | 5393.59 ft |         |         |         |         | Elev         | 5259.64 ft |  |
|                        | 2022 | May          | Jun        | Jul     | Aug     | Sep     | Oct     | Nov          | Dec        | Jan     | Feb     | Mar     | Apr     | Total        |            |  |
| Monthly Inflow         | kaf  | 158.3        | 170.4      | 76.3    | 28.4    | 16.8    | 21.0    | 18.0         | 14.8       | 12.9    | 11.2    | 14.2    | 43.0    | 585.3        |            |  |
| Shoshone Release       | kaf  | 6.2          | 6.0        | 6.2     | 6.2     | 6.0     | 6.2     | 8.9          | 9.2        | 9.2     | 8.4     | 9.2     | 6.0     | 87.7         |            |  |
| Non-Power Release      | 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     | 0.0          |            |  |
| Total Flow Below Dam   | kaf  | 6.2          | 6.0        | 6.2     | 6.2     | 6.0     | 6.2     | 8.9          | 9.2        | 9.2     | 8.4     | 9.2     | 6.0     | 87.7         |            |  |
| Buffalo Bill Release   | kaf  | 54.5         | 51.8       | 53.8    | 55.1    | 49.6    | 13.4    | 0.0          | 0.0        | 0.0     | 0.0     | 0.0     | 27.4    | 305.6        |            |  |
| 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     | 3.6          |            |  |
| Heart Mtn Release      | kaf  | 9.4          | 13.0       | 13.2    | 5.7     | 0.3     | 14.9    | 0.0          | 0.0        | 0.0     | 0.0     | 0.0     | 0.0     | 56.5         |            |  |
| Heart Mtn Delivery     | kaf  | 36.0         | 42.0       | 48.0    | 41.0    | 33.0    | 8.0     | 0.0          | 0.0        | 0.0     | 0.0     | 0.0     | 7.0     | 215.0        |            |  |
| Total Outflow          | kaf  | 106.4        | 113.1      | 121.5   | 108.3   | 89.2    | 42.8    | 9.2          | 9.5        | 9.5     | 8.7     | 9.5     | 40.7    | 668.4        |            |  |
| Spill/Waste            | 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     | 0.0          |            |  |
| End-Month Targets      | kaf  | 550.0        | 626.2      | 626.2   |         | 475.0   |         | 463.9        |            |         |         |         | 463.9   |              |            |  |
| End-Month Content      | kaf  | 423.9        | 481.2      | 436.0   | 356.1   | 283.7   | 261.9   | 270.7        | 276.0      | 279.4   | 281.9   | 286.6   | 288.9   |              |            |  |
| Est Total Storage      | kaf  | 427.3        | 484.6      | 439.4   | 359.5   | 287.1   | 265.3   | 274.1        | 279.4      | 282.8   | 285.3   | 290.0   | 292.3   |              |            |  |
| End-Month Elevation    | ft   | 5364.26      | 5372.41    | 5366.03 | 5353.74 | 5341.32 | 5337.17 | 5338.87      | 5339.88    | 5340.52 | 5340.98 | 5341.85 | 5342.27 |              |            |  |
| Net Change Content     | kaf  | 51.9         | 57.3       | -45.2   | -79.9   | -72.4   | -21.8   | 8.8          | 5.3        | 3.4     | 2.5     | 4.7     | 2.3     | -83.1        |            |  |
| Flow Below BB Pwr      | kaf  | 60.7         | 57.8       | 60.0    | 61.3    | 55.6    | 19.6    | 8.9          | 9.2        | 9.2     | 8.4     | 9.2     | 33.4    | 393.3        |            |  |
| Flow Below BB Pwr      | cfs  | 987          | 971        | 976     | 997     | 934     | 319     | 150          | 150        | 150     | 151     | 150     | 561     |              |            |  |
| Spring Inflow          | kaf  | 3.7          | 3.6        | 3.7     | 3.7     | 3.6     | 3.7     | 3.6          | 3.7        | 3.7     | 3.3     | 3.7     | 3.6     | 43.6         |            |  |
| Passing Cody Gage      | kaf  | 73.8         | 74.4       | 76.9    | 70.7    | 59.5    | 38.2    | 12.5         | 12.9       | 12.9    | 11.7    | 12.9    | 37.0    | 493.4        |            |  |
| Passing Cody Gage      | cfs  | 1200         | 1250       | 1251    | 1150    | 1000    | 621     | 210          | 210        | 210     | 211     | 210     | 622     |              |            |  |

| Shoshone Power      | 2022 | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | Total  |
|---------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Shoshone Release    | kaf  | 6.2   | 6.0   | 6.2   | 6.2   | 6.0   | 6.2   | 8.9   | 9.2   | 9.2   | 8.4   | 9.2   | 6.0   | 87.7   |
| Generation          | gwh  | 1.096 | 1.098 | 1.139 | 1.095 | 1.003 | 0.996 | 1.419 | 1.477 | 1.482 | 1.357 | 1.491 | 0.977 | 14.630 |
| Max Generation      | gwh  | 2.232 | 2.160 | 2.232 | 2.232 | 2.160 | 2.232 | 2.160 | 2.232 | 2.232 | 2.016 | 2.232 | 2.160 | 26.280 |
| % Max Generation    |      | 49    | 51    | 51    | 49    | 46    | 45    | 66    | 66    | 66    | 67    | 67    | 45    |        |
| Ave kwh/af          |      | 177   | 183   | 184   | 177   | 167   | 161   | 159   | 161   | 161   | 162   | 162   | 163   | 167    |
| End-Month Power Cap | mw   | 3     | 3     | 3     | 3     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     |        |

| Buffalo Bill Power   | 2022 | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov   | Dec   | Jan   | Feb   | Mar   | Apr    | Total  |
|----------------------|------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|
| Buffalo Bill Release | kaf  | 54.5   | 51.8   | 53.8   | 55.1   | 49.6   | 13.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 27.4   | 305.6  |
| Generation           | gwh  | 13.184 | 12.662 | 13.071 | 13.267 | 11.744 | 3.283  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 6.757  | 73.968 |
| Max Generation       | gwh  | 13.392 | 12.960 | 13.392 | 13.392 | 12.960 | 13.392 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 12.182 | 91.670 |
| % Max Generation     |      | 98     | 98     | 98     | 99     | 91     | 25     | 0     | 0     | 0     | 0     | 0     | 55     |        |
| Ave kwh/af           |      | 242    | 244    | 243    | 241    | 237    | 245    |       |       |       |       |       | 247    | 242    |
| End-Month Power Cap  | mw   | 18     | 18     | 18     | 18     | 17     | 18     | 0     | 0     | 0     | 0     | 0     | 17     |        |

| Spirit Mtn Power    | 2022 | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | Total  |
|---------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Spirit Mtn Release  | kaf  | 34.4  | 33.3  | 34.4  | 34.4  | 33.3  | 22.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 7.0   | 199.7  |
| Generation          | gwh  | 2.575 | 2.578 | 2.610 | 2.536 | 2.303 | 1.712 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.542 | 14.856 |
| Max Generation      | gwh  | 3.348 | 3.240 | 3.348 | 3.348 | 3.240 | 3.348 | 2.592 | 2.678 | 3.348 | 2.903 | 1.741 | 3.013 | 36.147 |
| % Max Generation    |      | 77    | 80    | 78    | 76    | 71    | 51    | 0     | 0     | 0     | 0     | 0     | 18    |        |
| Ave kwh/af          |      | 75    | 77    | 76    | 74    | 69    | 75    |       |       |       |       |       | 77    | 74     |
| End-Month Power Cap | mw   | 4     | 4     | 4     | 3     | 3     | 2     | 0     | 0     | 0     | 0     | 0     | 1     |        |

| Heart Mtn Power     | 2022 | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | Total  |
|---------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Heart Mtn Release   | kaf  | 9.4   | 13.0  | 13.2  | 5.7   | 0.3   | 14.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 56.5   |
| Generation          | gwh  | 2.250 | 3.112 | 3.160 | 1.365 | 0.072 | 3.567 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 13.526 |
| Max Generation      | gwh  | 4.464 | 4.320 | 4.464 | 4.464 | 4.320 | 3.571 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 25.603 |
| % Max Generation    |      | 50    | 72    | 71    | 31    | 2     | 100   | 0     | 0     | 0     | 0     | 0     | 0     |        |
| Ave kwh/af          |      | 239   | 239   | 239   | 239   | 240   | 239   |       |       |       |       |       |       | 239    |
| End-Month Power Cap | mw   | 6     | 6     | 6     | 6     | 6     | 5     | 0     | 0     | 0     | 0     | 0     | 0     |        |

| Total Generation    | 2022 | May    | Jun    | Jul    | Aug    | Sep    | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | Total   |
|---------------------|------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|---------|
| Total Generation    | gwh  | 19.105 | 19.450 | 19.980 | 18.263 | 15.122 | 9.558 | 1.419 | 1.477 | 1.482 | 1.357 | 1.491 | 8.276 | 116.980 |
| End-month Power Cap | mw   | 31     | 31     | 31     | 30     | 28     | 27    | 2     | 2     | 2     | 2     | 2     | 20    |         |

BBRAOP V1.04 Run: 05-May-2022 13:18  
 Based on reasonable maximum April - July inflow of 800 kaf

BUFFALO BILL RESERVOIR MONTHLY OPERATIONS

| Buffalo Bill Reservoir |      | Initial Cont<br>Elev 372.0 kaf<br>5356.27 ft |         |         | Maximum Cont<br>Elev 643.1 kaf<br>5393.59 ft |         |         | Minimum Cont<br>Elev 41.8 kaf<br>5259.64 ft |         |         |         |         |         |        |
|------------------------|------|--|---------|---------|--|---------|---------|---|---------|---------|---------|---------|---------|--------|
|                        | 2022 | May  | Jun     | Jul     | Aug  | Sep     | Oct     | Nov   | Dec     | Jan     | Feb     | Mar     | Apr     | Total  |
| Monthly Inflow         | kaf  | 194.0  | 376.8   | 201.8   | 74.2   | 36.0    | 35.3    | 33.9  | 23.9    | 21.3    | 17.5    | 31.7    | 62.1    | 1108.5 |
| Shoshone Release       | kaf  | 12.6   | 11.4    | 11.2    | 11.3   | 11.4    | 6.2     | 11.7  | 12.1    | 8.0     | 7.2     | 8.0     | 11.8    | 122.9  |
| Non-Power Release      | kaf  | 4.7  | 66.0    | 70.7    | 12.3   | 10.2    | 0.0     | 0.2   | 0.2     | 0.0     | 0.0     | 0.0     | 24.9    | 189.2  |
| Total Flow Below Dam   | kaf  | 17.3   | 77.4    | 81.9    | 23.6   | 21.6    | 6.2     | 11.9  | 12.3    | 8.0     | 7.2     | 8.0     | 36.7    | 312.1  |
| Buffalo Bill Release   | kaf  | 56.4   | 51.7    | 51.5    | 51.3   | 50.8    | 16.9    | 24.8  | 9.2     | 13.5    | 12.3    | 13.5    | 46.0    | 397.9  |
| 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     | 3.6    |
| Heart Mtn Release      | kaf  | 18.6   | 18.0    | 18.6    | 18.6   | 18.0    | 14.9    | 0.0   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 106.7  |
| Heart Mtn Delivery     | kaf  | 36.0   | 42.0    | 48.0    | 41.0   | 33.0    | 8.0     | 0.0   | 0.0     | 0.0     | 0.0     | 0.0     | 7.0     | 215.0  |
| Total Outflow          | kaf  | 128.6  | 189.4   | 200.3   | 134.8  | 123.7   | 46.3    | 37.0  | 21.8    | 21.8    | 19.8    | 21.8    | 90.0    | 1035.3 |
| Spill/Waste            | kaf  | 4.7  | 64.4    | 66.5    | 12.3   | 10.2    | 0.0     | 0.0   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 158.1  |
| End-Month Targets      | kaf  |  |         | 626.3   |  | 478.0   |         | 463.9                                       |         |         |         |         | 480.0   |        |
| End-Month Content      | kaf  | 437.4  | 624.8   | 626.3   | 565.7  | 478.0   | 467.0   | 463.9                                       | 466.0   | 465.5   | 463.2   | 473.1   | 445.2   |        |
| Est Total Storage      | kaf  | 440.8  | 628.2   | 629.7   | 569.1  | 481.4   | 470.4   | 467.3                                       | 469.4   | 468.9   | 466.6   | 476.5   | 448.6   |        |
| End-Month Elevation    | ft   | 5366.24                                      | 5391.32 | 5391.51 | 5383.75                                      | 5371.97 | 5370.43 | 5370.00                                     | 5370.29 | 5370.22 | 5369.90 | 5371.28 | 5367.35 |        |
| Net Change Content     | kaf  | 65.4   | 187.4   | 1.5     | -60.6  | -87.7   | -11.0   | -3.1  | 2.1     | -0.5    | -2.3    | 9.9     | -27.9   | 73.2   |
| Flow Below BB Pwr      | kaf  | 73.7   | 129.1   | 133.4   | 74.9   | 72.4    | 23.1    | 36.7  | 21.5    | 21.5    | 19.5    | 21.5    | 82.7    | 710.0  |
| Flow Below BB Pwr      | cfs  | 1199   | 2170    | 2170    | 1218   | 1217    | 376     | 617   | 350     | 350     | 351     | 350     | 1390    |        |
| Spring Inflow          | kaf  | 3.7  | 3.6     | 3.7     | 3.7  | 3.6     | 3.7     | 3.6   | 3.7     | 3.7     | 3.3     | 3.7     | 3.6     | 43.6   |
| Passing Cody Gage      | kaf  | 96.0   | 150.7   | 155.7   | 97.2   | 94.0    | 41.7    | 40.3  | 25.2    | 25.2    | 22.8    | 25.2    | 86.3    | 860.3  |
| Passing Cody Gage      | cfs  | 1561   | 2533    | 2532    | 1581   | 1580    | 678     | 677   | 410     | 410     | 411     | 410     | 1450    |        |

| Shoshone Power      | 2022 | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | Total  |
|---------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Shoshone Release    | kaf  | 12.6  | 11.4  | 11.2  | 11.3  | 11.4  | 6.2   | 11.7  | 12.1  | 8.0   | 7.2   | 8.0   | 11.8  | 122.9  |
| Generation          | gwh  | 2.230 | 2.158 | 2.225 | 2.225 | 2.160 | 1.148 | 2.153 | 2.226 | 1.475 | 1.326 | 1.477 | 2.153 | 22.956 |
| Max Generation      | gwh  | 2.232 | 2.160 | 2.232 | 2.232 | 2.160 | 2.232 | 2.160 | 2.232 | 2.232 | 2.016 | 2.232 | 2.160 | 26.280 |
| % Max Generation    |      | 100   | 100   | 100   | 100   | 100   | 51    | 100   | 100   | 66    | 66    | 66    | 100   |        |
| Ave kwh/af          |      | 177   | 189   | 199   | 197   | 189   | 185   | 184   | 184   | 184   | 184   | 185   | 182   | 187    |
| End-Month Power Cap | mw   | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |        |

| Buffalo Bill Power   | 2022 | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    | Jan    | Feb   | Mar    | Apr    | Total   |
|----------------------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|---------|
| Buffalo Bill Release | kaf  | 56.4   | 51.7   | 51.5   | 51.3   | 50.8   | 16.9   | 24.8   | 9.2    | 13.5   | 12.3  | 13.5   | 46.0   | 397.9   |
| Generation           | gwh  | 13.394 | 12.951 | 13.395 | 13.393 | 12.955 | 4.601  | 6.763  | 2.528  | 3.707  | 3.375 | 3.711  | 12.181 | 102.954 |
| Max Generation       | gwh  | 13.392 | 12.960 | 13.392 | 13.392 | 12.960 | 13.392 | 10.368 | 10.714 | 10.714 | 9.677 | 10.178 | 12.182 | 143.321 |
| % Max Generation     |      | 100    | 100    | 100    | 100    | 100    | 34     | 65     | 24     | 35     | 35    | 36     | 100    |         |
| Ave kwh/af           |      | 237    | 251    | 260    | 261    | 255    | 272    | 273    | 275    | 275    | 274   | 275    | 265    | 259     |
| End-Month Power Cap  | mw   | 18     | 18     | 18     | 18     | 18     | 18     | 14     | 14     | 14     | 14    | 14     | 17     |         |

| Spirit Mtn Power    | 2022 | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | Total  |
|---------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Spirit Mtn Release  | kaf  | 34.4  | 33.3  | 34.4  | 34.4  | 33.3  | 22.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 7.0   | 199.7  |
| Generation          | gwh  | 2.429 | 2.824 | 3.258 | 3.266 | 2.954 | 2.373 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.691 | 17.795 |
| Max Generation      | gwh  | 3.348 | 3.240 | 3.348 | 3.348 | 3.240 | 3.348 | 2.592 | 2.678 | 3.348 | 2.903 | 1.741 | 3.013 | 36.147 |
| % Max Generation    |      | 73    | 87    | 97    | 98    | 91    | 71    | 0     | 0     | 0     | 0     | 0     | 23    |        |
| Ave kwh/af          |      | 71    | 85    | 95    | 95    | 89    | 104   |       |       |       |       |       | 99    | 89     |
| End-Month Power Cap | mw   | 4     | 5     | 5     | 5     | 4     | 3     | 0     | 0     | 0     | 0     | 0     | 1     |        |

| Heart Mtn Power     | 2022 | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | Total  |
|---------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Heart Mtn Release   | kaf  | 18.6  | 18.0  | 18.6  | 18.6  | 18.0  | 14.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 106.7  |
| Generation          | gwh  | 4.453 | 4.309 | 4.453 | 4.453 | 4.309 | 3.567 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 25.544 |
| Max Generation      | gwh  | 4.464 | 4.320 | 4.464 | 4.464 | 4.320 | 3.571 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 25.603 |
| % Max Generation    |      | 100   | 100   | 100   | 100   | 100   | 100   | 0     | 0     | 0     | 0     | 0     | 0     |        |
| Ave kwh/af          |      | 239   | 239   | 239   | 239   | 239   | 239   |       |       |       |       |       |       | 239    |
| End-Month Power Cap | mw   | 6     | 6     | 6     | 6     | 6     | 5     | 0     | 0     | 0     | 0     | 0     | 0     |        |

| Total Generation    | 2022 | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov   | Dec   | Jan   | Feb   | Mar   | Apr    | Total   |
|---------------------|------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|---------|
| Total Generation    | gwh  | 22.506 | 22.242 | 23.331 | 23.337 | 22.378 | 11.689 | 8.916 | 4.754 | 5.182 | 4.701 | 5.188 | 15.025 | 169.249 |
| End-month Power Cap | mw   | 31     | 32     | 32     | 32     | 31     | 29     | 17    | 17    | 17    | 17    | 17    | 21     |         |