

MC1 Stream Reach Summary

Study Reach: MC1, Muddy Creek - U.S. Highway 40 downstream to Wolford Mountain Reservoir.

Reach Description: Approximate channel length: 2.75 miles with an approximate channel slope of 0.2%.

This is the first reach of Muddy Creek above Wolford Reservoir. The creek meanders through easily eroded shale that gives the stream its muddy appearance. The adjacent land use is primarily dominated by agriculture and in private ownership. The streamflows are affected by diversions, agriculture and grazing-related impacts to channel and overbank.



Muddy Creek above Wolford Reservoir

Flow Recommendations:

Environmental Flow Methodology: A study site has not been established within this reach and CWCB instream flows have not been set.

Water Users:

- Irrigators, municipalities and industry flow-related issues: none reported
- Recreation: none reported

Summary of Flows:

Environmental, recommended flow target range

- none

CWCB flows

- none

Water Users

- Water rights diversions for local water users have not been reviewed for this reach
- Recreation: none reported

Stream Assessments: No assessments were conducted in MC1.

Spawning Observations: No trout spawning survey was conducted in this reach.

Hydrologic Records: USGS Gage Station 09041000 was in operation 17 miles northwest of Kremmling (about 10 miles upstream of Wolford Mountain Reservoir) for 28 years during the period 1938 to 1999. Streamflow exceedence plots and IHA analysis indicate median monthly flows ranged from a low of 4.5 cfs in September up to 290 cfs in May. The median daily high flow of about 340 cfs occurred in mid-May, while the flood flow with a 2-year return period was 551 cfs. A second gage within reach MC1, USGS Station 09041090, is located immediately upstream of Wolford Mountain Reservoir and has been in operation since 1991. Streamflow exceedence plots and IHA analysis for this station indicate median monthly flows have ranged from 6.0 cfs in September up to 297 cfs in May, with a median daily high flow of about 480 cfs in late May.

Water Temperature: MC1 is a Tier I stream reach as designated by CDPHE with a chronic temperature standard of 17°C MWAT and an acute temperature standard of 21.2°C DM. No temperature data are reviewed above Wolford Mountain Reservoir.

Water Quality: No water quality data were available for this reach.

Water Supply Issues (UPCO): No water supply issues are reported for this reach.

Summary of Results and Additional Remarks:

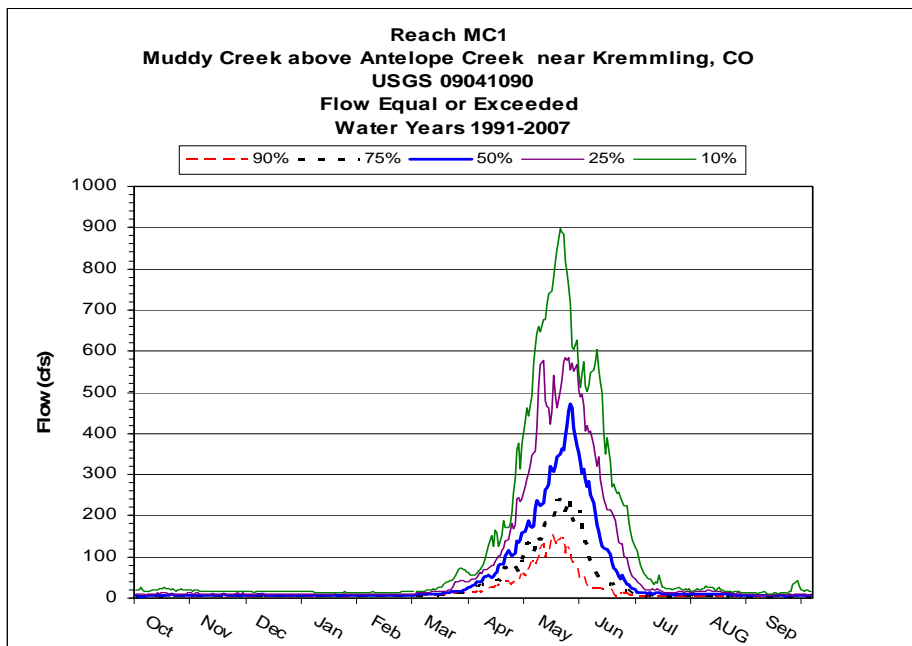
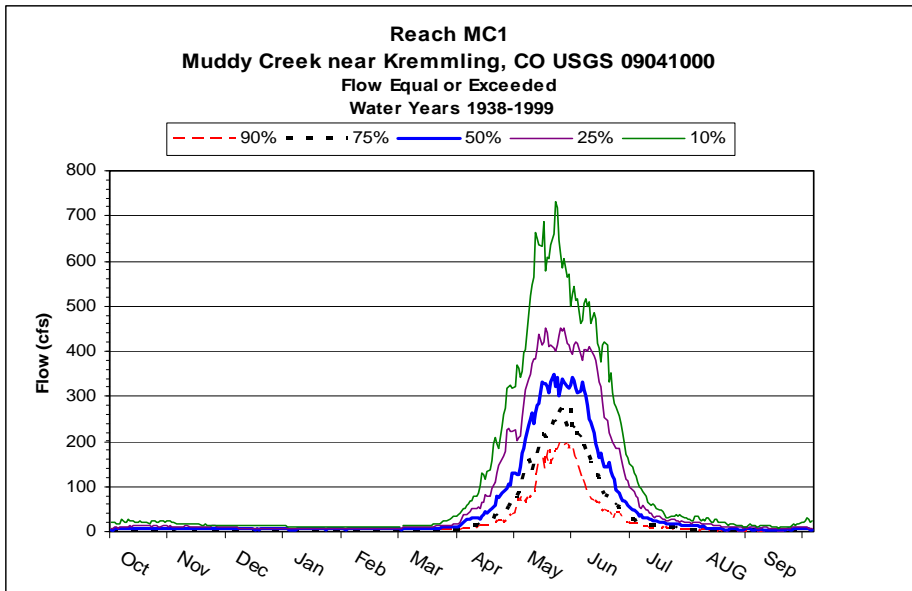
1. This reach of Muddy Creek lies above Wolford Reservoir, and is subject to anthropogenic influences, primarily from agricultural land uses and backwater effects from the reservoir. Future recommendations for this reach may include a biological and geomorphic analysis and restoration recommendations for improvements in and along the riparian corridor.
2. There does not appear to be a compelling reason to establish a study site within reach MC1 at this time. Should environmental flows be needed in the interim, the IHA analyses can provide useful guidance. Should future work entail channel surveys for habitat restoration purposes, this reach should be included in that effort.

Restoration Opportunities: No recommendations are made at this time.

Monitoring: No recommendations are made at this time.

Support Data

Hydrographs and Exceedance Plots and Tables:



| Return Period T (year) | Probability P (percent) | Flood Discharge Q (ft³/sec) |
|-----------------------------------|------------------------------------|---|
| 1.05 | 95.2 | 384 |
| 1.11 | 90.1 | 410 |
| 1.25 | 80 | 448 |
| 2 | 50 | 551 |
| 5 | 20 | 714 |
| 10 | 10 | 836 |
| 25 | 4 | 1006 |

Flood frequency analysis for USGS 09041000 Muddy Creek nr Kremmling, CO, for 28 years of record (Water years 1936-1999).

IHA Results

Reach MC1

Non-Parametric IHA Scorecard

Muddy Creek nr Kremmling, CO USGS 09041000 (above Wolford Reservoir)

Period of Analysis: 1938-1999 (28 years)

| | |
|--------------------------------|------|
| Mean annual flow (cfs) | 55.9 |
| Mean flow/area (dimensionless) | 55.9 |
| Annual C. V. | 2.06 |
| Flow predictability (%) | 0.49 |
| Constancy/predictability | 0.42 |
| % of floods in 60d period | 0.49 |
| Flood-free season (days) | 127 |

| | Medians | Coeff. of Disp. |
|--|---------|-----------------|
| Parameter Group #1 | | |
| October (cfs) | 5.85 | 1.167 |
| November (cfs) | 6.15 | 0.752 |
| December (cfs) | 5.25 | 0.7095 |
| January (cfs) | 5.3 | 0.7311 |
| February (cfs) | 5.25 | 0.8048 |
| March (cfs) | 8 | 0.6156 |
| April (cfs) | 50 | 1.195 |
| May (cfs) | 290 | 0.3905 |
| June (cfs) | 137 | 1.16 |
| July (cfs) | 21 | 0.7381 |
| August (cfs) | 5.55 | 1.432 |
| September (cfs) | 4.475 | 1.196 |
| Parameter Group #2 | | |
| 1-day minimum (cfs) | 2.15 | 1.023 |
| 3-day minimum (cfs) | 2.2 | 0.9318 |
| 7-day minimum (cfs) | 2.529 | 0.822 |
| 30-day minimum (cfs) | 3.533 | 0.3965 |
| 90-day minimum (cfs) | 4.649 | 0.8037 |
| 1-day maximum (cfs) | 481.5 | 0.3567 |
| 3-day maximum (cfs) | 463 | 0.3659 |
| 7-day maximum (cfs) | 441.4 | 0.3284 |
| 30-day maximum (cfs) | 346.3 | 0.4612 |
| 90-day maximum (cfs) | 192 | 0.4187 |
| Number of zero days (count) | 0 | 0 |
| Base flow index (7day minimum in cfs/median in cfs) | 0.05211 | 0.9384 |
| Parameter Group #3 | | |
| Date of minimum (Julian day) | 251.5 | 0.1154 |
| Date of maximum (Julian day) | 138.5 | 0.03689 |
| Parameter Group #4 | | |
| Low pulse count (#) | 5.5 | 1 |
| Low pulse duration (days) | 5.5 | 1.455 |
| High pulse count (#) | 2 | 1.375 |
| High pulse duration (days) | 38.25 | 1.748 |
| The low pulse threshold is (cfs) | 4.8 | |
| The high pulse threshold is (cfs) | 30 | |
| Parameter Group #5 | | |
| Rise rate (cfs difference between consecutive days) | 1 | 1.525 |
| Fall rate (cfs difference between consecutive days) | -1.6 | -0.6484 |
| Number of reversals | 80.5 | 0.323 |

Reach MC1

IHA Percentile Data

Muddy Creek nr Kremmling, CO USGS 09041000 (above Wolford Reservoir)

| Parameter Group #1 | Period of Analysis: 1938-1999 (28 years) | | Period of Analysis | | | (75-25)/50 |
|--|---|--------|--------------------|--------|---------|------------|
| | 10% | 25% | 50% | 75% | 90% | |
| October (cfs) | 3.47 | 3.925 | 5.85 | 10.75 | 20.8 | 1.167 |
| November (cfs) | 4.09 | 4.85 | 6.15 | 9.475 | 15.95 | 0.752 |
| December (cfs) | 3.49 | 4.275 | 5.25 | 8 | 13.1 | 0.7095 |
| January (cfs) | 3 | 3.7 | 5.3 | 7.575 | 9.2 | 0.7311 |
| February (cfs) | 3 | 3.65 | 5.25 | 7.875 | 10 | 0.8048 |
| March (cfs) | 3.97 | 5.075 | 8 | 10 | 15.2 | 0.6156 |
| April (cfs) | 14.75 | 27.63 | 50 | 87.38 | 145.8 | 1.195 |
| May (cfs) | 183.7 | 242.3 | 290 | 355.5 | 490.1 | 0.3905 |
| June (cfs) | 44.95 | 77.88 | 137 | 236.8 | 353.9 | 1.16 |
| July (cfs) | 5.94 | 11.25 | 21 | 26.75 | 41.3 | 0.7381 |
| August (cfs) | 1.76 | 3.8 | 5.55 | 11.75 | 16.3 | 1.432 |
| September (cfs) | 1.81 | 2.75 | 4.475 | 8.1 | 10.42 | 1.196 |
| Parameter Group #2 | | | | | | |
| 1-day minimum (cfs) | 0.48 | 1.275 | 2.15 | 3.475 | 5.11 | 1.023 |
| 3-day minimum (cfs) | 0.4867 | 1.517 | 2.2 | 3.567 | 5.217 | 0.9318 |
| 7-day minimum (cfs) | 0.5929 | 1.639 | 2.529 | 3.718 | 5.536 | 0.822 |
| 30-day minimum (cfs) | 1.283 | 2.83 | 3.533 | 4.231 | 6.742 | 0.3965 |
| 90-day minimum (cfs) | 2.912 | 3.634 | 4.649 | 7.371 | 9.816 | 0.8037 |
| 1-day maximum (cfs) | 384.4 | 424 | 481.5 | 595.8 | 753.3 | 0.3567 |
| 3-day maximum (cfs) | 363.7 | 409.8 | 463 | 579.3 | 736 | 0.3659 |
| 7-day maximum (cfs) | 334.3 | 367.1 | 441.4 | 512 | 697.7 | 0.3284 |
| 30-day maximum (cfs) | 245.8 | 267.9 | 346.3 | 427.6 | 522.4 | 0.4612 |
| 90-day maximum (cfs) | 131.7 | 143.9 | 192 | 224.3 | 317.2 | 0.4187 |
| Number of zero days (count) | 0 | 0 | 0 | 0 | 0 | 0 |
| Base flow index (7day minimum in cfs/median in cfs) | 0.01663 | 0.0249 | 0.05211 | 0.0738 | 0.08409 | 0.9384 |
| Parameter Group #3 | | | | | | |
| Date of minimum (Julian day) | 190.9 | 233.5 | 251.5 | 275.8 | 323 | 0.1154 |
| Date of maximum (Julian day) | 128.7 | 133.3 | 138.5 | 146.8 | 151.4 | 0.03689 |
| Parameter Group #4 | | | | | | |
| Low pulse count (#) | 0 | 2.25 | 5.5 | 7.75 | 11.5 | 1 |
| Low pulse duration (days) | 2 | 3 | 5.5 | 11 | 50.9 | 1.455 |
| High pulse count (#) | 1 | 1 | 2 | 3.75 | 5 | 1.375 |
| High pulse duration (days) | 1.9 | 3.875 | 38.25 | 70.75 | 86.7 | 1.748 |
| Parameter Group #5 | | | | | | |
| Rise rate (cfs difference between consecutive days) | 0.68 | 1 | 1 | 2.525 | 4.55 | 1.525 |
| Fall rate (cfs difference between consecutive days) | -3.1 | -2.038 | -1.6 | -1 | -0.795 | -0.6484 |
| Number of reversals | 60 | 71.25 | 80.5 | 97.25 | 113.2 | 0.323 |
| EFC Monthly Low Flows | | | | | | |
| October Low Flow (cfs) | 3.8 | 4.25 | 5.9 | 10 | 18.5 | 0.9746 |
| November Low Flow (cfs) | 4.135 | 5.013 | 6.125 | 9.475 | 15.3 | 0.7286 |
| December Low Flow (cfs) | 3.9 | 4.8 | 5.4 | 8 | 13.2 | 0.5926 |
| January Low Flow (cfs) | 3.56 | 4 | 6.2 | 7.8 | 9.8 | 0.6129 |
| February Low Flow (cfs) | 3.56 | 4.125 | 6 | 7.95 | 10 | 0.6375 |
| March Low Flow (cfs) | 3.88 | 5 | 8 | 10 | 15 | 0.625 |
| April Low Flow (cfs) | 5.15 | 9.313 | 16 | 26.13 | 27.25 | 1.051 |
| May Low Flow (cfs) | | | | | | |
| June Low Flow (cfs) | 15 | 17.5 | 20.5 | 25.75 | 29 | 0.4024 |
| July Low Flow (cfs) | 7.08 | 10 | 16 | 20.5 | 25.6 | 0.6563 |
| August Low Flow (cfs) | 3.58 | 4.7 | 5.9 | 10 | 14 | 0.8983 |
| September Low Flow (cfs) | 3.44 | 4.3 | 5.05 | 7 | 8.84 | 0.5347 |
| EFC Parameters | | | | | | |
| Extreme low peak (cfs) | 1.855 | 2.113 | 2.475 | 2.775 | 3 | 0.2677 |
| Extreme low duration (days) | 1.55 | 2 | 3.75 | 7.375 | 12.85 | 1.433 |
| Extreme low timing (Julian date) | 67.5 | 232.3 | 247.8 | 265 | 319.6 | 0.08948 |
| Extreme low freq. (#/year) | 0 | 0 | 2.5 | 4.75 | 6 | 1.9 |
| High flow peak (cfs) | 14.5 | 16.38 | 21.5 | 29.38 | 38.95 | 0.6047 |
| High flow duration (days) | 2.5 | 3 | 3.75 | 5.125 | 7.65 | 0.5667 |
| High flow timing (Julian date) | 188 | 211 | 231.8 | 253.3 | 285.1 | 0.1154 |
| High flow frequency (#/year) | 1.8 | 3 | 5 | 6 | 8 | 0.6 |
| High flow rise rate (cfs difference between consecutive days) | 2.975 | 3.978 | 5.413 | 6.945 | 8.289 | 0.5482 |
| High flow fall rate (cfs difference between consecutive days) | -5.968 | -4.154 | -3.058 | -2.194 | -1.493 | -0.641 |
| Small Flood peak (cfs) | 482 | 498.3 | 549.5 | 703.5 | 744.2 | 0.3735 |
| Small Flood duration (days) | 77.5 | 86.75 | 98 | 117 | 126.9 | 0.3087 |
| Small Flood timing (Julian date) | 124.6 | 130.8 | 139.5 | 145.8 | 155.9 | 0.04098 |
| Small Flood freq. (#/year) | 0 | 0 | 0 | 1 | 1 | 0 |
| Small Flood riserate (cfs difference between consecutive days) | 7.624 | 7.762 | 12.73 | 15.09 | 29.12 | 0.5758 |
| Small Flood fallrate (cfs difference between consecutive days) | -15.01 | -12.92 | -10.24 | -8.149 | -7.364 | -0.4656 |
| Large flood peak (cfs) | 819 | 819 | 891.5 | 964 | 964 | 0.1626 |
| Large flood duration (days) | 92 | 92 | 99 | 106 | 106 | 0.1414 |
| Large flood timing (Julian date) | 138 | 138 | 138.5 | 139 | 139 | 0.002732 |
| Large flood freq. (#/year) | 0 | 0 | 0 | 0 | 0.1 | 0 |
| Large flood riserate (cfs difference between consecutive days) | 16.12 | 16.12 | 19.18 | 22.24 | 22.24 | 0.3189 |
| Large flood fallrate (cfs difference between consecutive days) | -18.35 | -18.35 | -16.04 | -13.72 | -13.72 | -0.2886 |

Reach MC1**Non-Parametric IHA Scorecard****MC1 Muddy Creek above Antelope Creek, nr Kremmling, CO USGS 09041090****Period of Analysis: 1991-2007 (17 years)**

| | |
|--------------------------------|-------|
| Mean annual flow (cfs) | 56.91 |
| Mean flow/area (dimensionless) | 56.91 |
| Annual C. V. | 2.22 |
| Flow predictability (%) | 0.5 |
| Constancy/predictability | 0.45 |
| % of floods in 60d period | 0.58 |
| Flood-free season (days) | 128 |

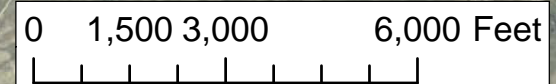
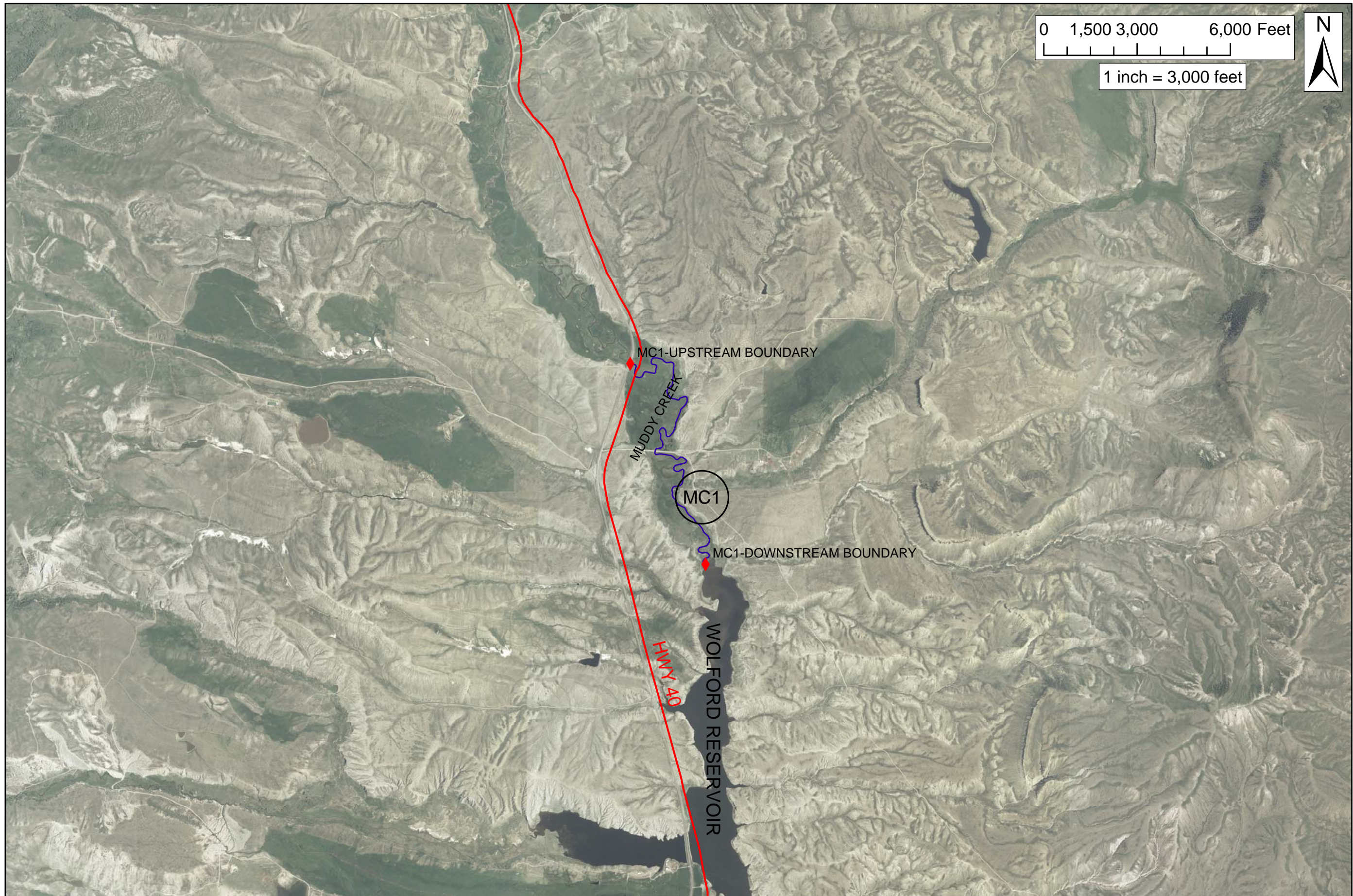
| | Medians | Coeff. of Disp. |
|--|----------------|------------------------|
| Parameter Group #1 | | |
| October (cfs) | 6.5 | 0.7923 |
| November (cfs) | 7 | 0.5821 |
| December (cfs) | 8 | 0.5 |
| January (cfs) | 7.4 | 0.7432 |
| February (cfs) | 7.3 | 0.524 |
| March (cfs) | 12 | 0.7833 |
| April (cfs) | 68 | 0.9301 |
| May (cfs) | 297 | 0.9024 |
| June (cfs) | 80.5 | 2.18 |
| July (cfs) | 9.9 | 1.126 |
| August (cfs) | 8.7 | 0.8793 |
| September (cfs) | 6.05 | 0.7727 |
| Parameter Group #2 | | |
| 1-day minimum (cfs) | 2.4 | 1.333 |
| 3-day minimum (cfs) | 2.767 | 1.181 |
| 7-day minimum (cfs) | 3.157 | 1.079 |
| 30-day minimum (cfs) | 3.96 | 0.8024 |
| 90-day minimum (cfs) | 5.584 | 0.7381 |
| 1-day maximum (cfs) | 572 | 0.5253 |
| 3-day maximum (cfs) | 550 | 0.4606 |
| 7-day maximum (cfs) | 526.9 | 0.4273 |
| 30-day maximum (cfs) | 373 | 0.5957 |
| 90-day maximum (cfs) | 193.9 | 0.5777 |
| Number of zero days (count) | 0 | 0 |
| Base flow index (7day minimum in cfs/median in cfs) | 0.05937 | 0.5965 |
| Parameter Group #3 | | |
| Date of minimum (Julian day) | 260 | 0.1489 |
| Date of maximum (Julian day) | 139 | 0.04508 |
| Parameter Group #4 | | |
| Low pulse count (#) | 5 | 1.1 |
| Low pulse duration (days) | 5.25 | 1.214 |
| High pulse count (#) | 2 | 1 |
| High pulse duration (days) | 44 | 1.318 |
| The low pulse threshold is (cfs) | 6.3 | |
| The high pulse threshold is (cfs) | 27 | |
| Parameter Group #5 | | |
| Rise rate (cfs difference between consecutive days) | 1 | 0.9 |
| Fall rate (cfs difference between consecutive days) | -1 | -0.95 |
| Number of reversals | 87 | 0.2126 |

Reach MC1

IHA Percentile Data

MC1 Muddy Creek above Antelope Creek, nr Kremmling, CO USGS 09041090

| Parameter Group #1 | Period of Analysis: 1991-2007 (17 years) | | | | | |
|--|---|---------|---------|---------|--------|------------|
| | 10% | 25% | 50% | 75% | 90% | (75-25)/50 |
| October (cfs) | 4.26 | 4.75 | 6.5 | 9.9 | 20.2 | 0.7923 |
| November (cfs) | 4.64 | 5.925 | 7 | 10 | 15.6 | 0.5821 |
| December (cfs) | 2.94 | 5.6 | 8 | 9.6 | 15.4 | 0.5 |
| January (cfs) | 2.58 | 5 | 7.4 | 10.5 | 13.6 | 0.7432 |
| February (cfs) | 3.64 | 5.5 | 7.3 | 9.325 | 13.8 | 0.524 |
| March (cfs) | 7.94 | 9.1 | 12 | 18.5 | 35.6 | 0.7833 |
| April (cfs) | 37.5 | 45.5 | 68 | 108.8 | 153 | 0.9301 |
| May (cfs) | 135.6 | 228 | 297 | 496 | 673.8 | 0.9024 |
| June (cfs) | 17.78 | 27.5 | 80.5 | 203 | 273.2 | 2.18 |
| July (cfs) | 2.44 | 4.35 | 9.9 | 15.5 | 25.2 | 1.126 |
| August (cfs) | 2.5 | 5.35 | 8.7 | 13 | 16.2 | 0.8793 |
| September (cfs) | 2.91 | 3.4 | 6.05 | 8.075 | 10.8 | 0.7727 |
| Parameter Group #2 | | | | | | |
| 1-day minimum (cfs) | 0.928 | 1.5 | 2.4 | 4.7 | 7 | 1.333 |
| 3-day minimum (cfs) | 1.066 | 1.717 | 2.767 | 4.983 | 7.08 | 1.181 |
| 7-day minimum (cfs) | 1.169 | 1.814 | 3.157 | 5.221 | 7.411 | 1.079 |
| 30-day minimum (cfs) | 1.926 | 2.673 | 3.96 | 5.85 | 8.611 | 0.8024 |
| 90-day minimum (cfs) | 2.735 | 3.505 | 5.584 | 7.627 | 11.23 | 0.7381 |
| 1-day maximum (cfs) | 252.2 | 400 | 572 | 700.5 | 899.2 | 0.5253 |
| 3-day maximum (cfs) | 245.3 | 394.8 | 550 | 648.2 | 890.3 | 0.4606 |
| 7-day maximum (cfs) | 230.6 | 376.6 | 526.9 | 601.8 | 867.6 | 0.4273 |
| 30-day maximum (cfs) | 155.1 | 270.5 | 373 | 492.7 | 670.6 | 0.5957 |
| 90-day maximum (cfs) | 82.93 | 139.4 | 193.9 | 251.5 | 358.3 | 0.5777 |
| Number of zero days (count) | 0 | 0 | 0 | 0 | 0 | 0 |
| Base flow index (7day minimum in cfs/median in cfs) | 0.0335 | 0.04392 | 0.05937 | 0.07934 | 0.1054 | 0.5965 |
| Parameter Group #3 | | | | | | |
| Date of minimum (Julian day) | 153.6 | 224 | 260 | 278.5 | 296.4 | 0.1489 |
| Date of maximum (Julian day) | 122.8 | 128.5 | 139 | 145 | 149.2 | 0.04508 |
| Parameter Group #4 | | | | | | |
| Low pulse count (#) | 0 | 2 | 5 | 7.5 | 11 | 1.1 |
| Low pulse duration (days) | 3.25 | 4 | 5.25 | 10.38 | 48.25 | 1.214 |
| High pulse count (#) | 1 | 1 | 2 | 3 | 2 | 3.8 |
| High pulse duration (days) | 2.8 | 19.5 | 44 | 77.5 | 97.2 | 1.318 |
| Parameter Group #5 | | | | | | |
| Rise rate (cfs difference between consecutive days) | 0.48 | 0.85 | 1 | 1.75 | 3.2 | 0.9 |
| Fall rate (cfs difference between consecutive days) | -3 | -1.85 | -1 | -0.9 | -0.62 | -0.95 |
| Number of reversals | 62.4 | 75.5 | 87 | 94 | 100.2 | 0.2126 |
| EFC Monthly Low Flows | | | | | | |
| October Low Flow (cfs) | 4.3 | 4.625 | 6.625 | 8.325 | 11.8 | 0.5585 |
| November Low Flow (cfs) | 5 | 6.4 | 7.3 | 10 | 15.6 | 0.4932 |
| December Low Flow (cfs) | 3.5 | 5.6 | 8 | 9.1 | 15.4 | 0.4375 |
| January Low Flow (cfs) | 4.16 | 6 | 7.6 | 11 | 15.2 | 0.6579 |
| February Low Flow (cfs) | 3.97 | 6.425 | 7.65 | 9.663 | 14.45 | 0.4232 |
| March Low Flow (cfs) | 6.72 | 7.875 | 11 | 16 | 18.3 | 0.7386 |
| April Low Flow (cfs) | 11.5 | 12.25 | 23 | 25.5 | 26 | 0.5761 |
| May Low Flow (cfs) | | | 21 | | | |
| June Low Flow (cfs) | 7.47 | 9.7 | 11 | 20.5 | 23.4 | 0.9818 |
| July Low Flow (cfs) | 4.06 | 5 | 9 | 13.75 | 18.3 | 0.9722 |
| August Low Flow (cfs) | 4.21 | 5.3 | 8.5 | 12.5 | 13.8 | 0.8471 |
| September Low Flow (cfs) | 3.68 | 4.75 | 6.05 | 7.25 | 9.84 | 0.4132 |
| EFC Parameters | | | | | | |
| Extreme low peak (cfs) | 1.62 | 2 | 2.5 | 2.8 | 2.98 | 0.32 |
| Extreme low duration (days) | 2.2 | 3 | 5 | 13 | 54.2 | 2 |
| Extreme low timing (Julian date) | 54.1 | 207 | 246 | 279 | 320 | 0.1967 |
| Extreme low freq. (#/year) | 0 | 0 | 1 | 4 | 5.8 | 4 |
| High flow peak (cfs) | 15.4 | 16 | 18 | 22.25 | 87.4 | 0.3472 |
| High flow duration (days) | 2 | 2 | 4 | 5.75 | 17 | 0.9375 |
| High flow timing (Julian date) | 126.2 | 187.3 | 219 | 237.8 | 277 | 0.138 |
| High flow frequency (#/year) | 1.8 | 3 | 4 | 5 | 6.4 | 0.5 |
| High flow rise rate (cfs difference between consecutive days) | 3.468 | 4.217 | 5.65 | 7.1 | 9.478 | 0.5103 |
| High flow fall rate (cfs difference between consecutive days) | -7.149 | -5.125 | -2.7 | -1.935 | -1.691 | -1.181 |
| Small Flood peak (cfs) | 572 | 639.8 | 678 | 767.5 | 897 | 0.1884 |
| Small Flood duration (days) | 86 | 89.25 | 95.5 | 105.5 | 108 | 0.1702 |
| Small Flood timing (Julian date) | 128 | 139 | 143.5 | 146.8 | 158 | 0.02117 |
| Small Flood freq. (#/year) | 0 | 0 | 0 | 1 | 1 | 0 |
| Small Flood riserate (cfs difference between consecutive days) | 9.738 | 10.42 | 11.87 | 13.12 | 17.44 | 0.2279 |
| Small Flood fallrate (cfs difference between consecutive days) | -29.39 | -19.42 | -17.07 | -13.44 | -11.22 | -0.3509 |
| Large flood peak (cfs) | | | 908 | | | |
| Large flood duration (days) | | | 96 | | | |
| Large flood timing (Julian date) | | | 139 | | | |
| Large flood freq. (#/year) | 0 | 0 | 0 | 0 | 0.2 | 0 |
| Large flood riserate (cfs difference between consecutive days) | | | 18.42 | | | |
| Large flood fallrate (cfs difference between consecutive days) | | | -18.02 | | | |



1 inch = 3,000 feet



GRAND COUNTY
STREAM MANAGEMENT PLAN
REACHES

Legend

- ◆ REACH BOUNDARY
- ★ PHABSIM SITES
- DIVERSIONS

REACH: MC1

SHEET # :
1 OF 1

