

**Arkansas Headwaters Watersheds**

| 12 code HUC  | 6th Level Watershed Name         | Acres   | 5th Level HUC Name         | 10 code HUC |
|--------------|----------------------------------|---------|----------------------------|-------------|
| 110200010101 | North Fork Lake Creek            | 15,415  | Lake Creek                 | 1102000101  |
| 110200010102 | South Fork Lake Creek            | 14,374  | Lake Creek                 | 1102000101  |
| 110200010103 | Lake Creek                       | 38,192  | Lake Creek                 | 1102000101  |
| 110200010201 | Tennessee Creeks                 | 29,622  | Headwaters Arkansas River  | 1102000102  |
| 110200010202 | East Fork Arkansas River         | 32,835  | Headwaters Arkansas River  | 1102000102  |
| 110200010203 | Turquoise Lake                   | 17,629  | Headwaters Arkansas River  | 1102000102  |
| 110200010204 | Willow Creek                     | 15,525  | Headwaters Arkansas River  | 1102000102  |
| 110200010205 | Halfmoon Creek                   | 16,082  | Headwaters Arkansas River  | 1102000102  |
| 110200010206 | City of Leadville-Arkansas River | 42,183  | Headwaters Arkansas River  | 1102000102  |
| 110200010207 | Big Union Creek                  | 12,467  | Headwaters Arkansas River  | 1102000102  |
| 110200010208 | Box Creek                        | 12,338  | Headwaters Arkansas River  | 1102000102  |
| 110200010209 | Two-Bit Gulch-Arkansas River     | 14,428  | Headwaters Arkansas River  | 1102000102  |
| 110200010401 | Headwaters Clear Creek           | 17,496  | Clear Creek-Arkansas River | 1102000104  |
| 110200010402 | Lake Fork-Clear Creek            | 26,648  | Clear Creek-Arkansas River | 1102000104  |
| 110200010403 | Pine Creek                       | 13,683  | Clear Creek-Arkansas River | 1102000104  |
| 110200010404 | Cache Creek-Arkansas River       | 30,474  | Clear Creek-Arkansas River | 1102000104  |
| 110200010405 | Four Mile Creek                  | 24,415  | Clear Creek-Arkansas River | 1102000104  |
| 110200010406 | Three Elk Creek-Arkansas River   | 38,714  | Clear Creek-Arkansas River | 1102000104  |
| 110200010701 | Trout Creek                      | 41,233  | Trout Creek-Arkansas River | 1102000107  |
| 140100030204 | French Creek-Homestake Creek     | 23,967  | Upper Eagle River          | 1401000302  |
| 140100040101 | Lincoln Creek                    | 21,310  | Upper Roaring Fork River   | 1401000401  |
| 140100040102 | Headwaters Roaring Fork River    | 18,412  | Upper Roaring Fork River   | 1401000401  |
| 140100040105 | Hunter Creek                     | 27,575  | Upper Roaring Fork River   | 1401000401  |
| 140100040501 | Headwaters Fryingpan River       | 28,998  | Fryingpan River            | 1401000405  |
| 140100040502 | North Fork Fryingpan River       | 27,015  | Fryingpan River            | 1401000405  |
| 140100040504 | Deeds Creek-Fryingpan River      | 30,547  | Fryingpan River            | 1401000405  |
|              | Total                            | 631,577 |                            |             |

### Legend

|                                                                    |  |
|--------------------------------------------------------------------|--|
| Category 1 (Lowest ranking)                                        |  |
| Category 2                                                         |  |
| Category 3                                                         |  |
| Category 4                                                         |  |
| Category 5 (Highest ranking)                                       |  |
|                                                                    |  |
| Result has been adjusted to avoid<br>skewing of the categorization |  |
| Result has been adjusted to obtain a<br>more accurate result       |  |

## Wildfire Hazard Calculations

| 12 code HUC  | Sixth-level Watershed Name       | Category 1<br>(acres) | Category 2<br>(acres) | Category 3<br>(acres) | Category 4<br>(acres) | Wildfire<br>Value | Watershed<br>Area (acres) | Wildfire<br>Hazard Rank |
|--------------|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------|---------------------------|-------------------------|
| 110200010101 | North Fork Lake Creek            | 57.4                  | 9.2                   | 4.4                   | 29.0                  | 28.97             | 15,415                    | 0.7                     |
| 110200010102 | South Fork Lake Creek            | 50.9                  | 8.7                   | 4.3                   | 36.1                  | 36.09             | 14,374                    | 1.7                     |
| 110200010103 | Lake Creek                       | 47.7                  | 14.0                  | 5.9                   | 32.4                  | 32.43             | 38,192                    | 1.2                     |
| 110200010201 | Tennessee Creeks                 | 11.7                  | 25.5                  | 5.6                   | 57.1                  | 57.11             | 29,622                    | 4.7                     |
| 110200010202 | East Fork Arkansas River         | 32.5                  | 16.5                  | 4.3                   | 46.7                  | 46.67             | 32,835                    | 3.2                     |
| 110200010203 | Turquoise Lake                   | 30.7                  | 14.0                  | 3.8                   | 51.5                  | 51.45             | 17,629                    | 3.9                     |
| 110200010204 | Willow Creek                     | 29.5                  | 25.2                  | 3.9                   | 41.3                  | 41.32             | 15,525                    | 2.4                     |
| 110200010205 | Halfmoon Creek                   | 54.0                  | 13.5                  | 5.0                   | 27.6                  | 27.56             | 16,082                    | 0.5                     |
| 110200010206 | City of Leadville-Arkansas River | 22.5                  | 22.9                  | 2.3                   | 52.3                  | 52.28             | 42,183                    | 4.0                     |
| 110200010207 | Big Union Creek                  | 32.2                  | 16.8                  | 2.9                   | 48.2                  | 48.17             | 12,467                    | 3.4                     |
| 110200010208 | Box Creek                        | 15.3                  | 26.3                  | 3.7                   | 54.8                  | 54.76             | 12,338                    | 4.3                     |
| 110200010209 | Two-Bit Gulch-Arkansas River     | 9.5                   | 33.3                  | 3.6                   | 53.6                  | 53.61             | 14,428                    | 4.2                     |
| 110200010401 | Headwaters Clear Creek           | 56.2                  | 8.0                   | 4.3                   | 31.4                  | 31.41             | 17,496                    | 1.0                     |
| 110200010402 | Lake Fork-Clear Creek            | 45.8                  | 15.7                  | 6.1                   | 32.4                  | 32.41             | 26,648                    | 1.2                     |
| 110200010403 | Pine Creek                       | 50.1                  | 18.4                  | 3.8                   | 27.6                  | 27.61             | 13,683                    | 0.5                     |
| 110200010404 | Cache Creek-Arkansas River       | 6.8                   | 33.3                  | 4.2                   | 55.6                  | 55.59             | 30,474                    | 4.4                     |
| 110200010405 | Four Mile Creek                  | 3.5                   | 33.1                  | 8.2                   | 55.1                  | 55.13             | 24,415                    | 4.4                     |
| 110200010406 | Three Elk Creek-Arkansas River   | 13.1                  | 25.6                  | 7.7                   | 53.6                  | 53.63             | 38,714                    | 4.2                     |
| 110200010701 | Trout Creek                      | 4.2                   | 22.7                  | 10.1                  | 63.1                  | 63.11             | 41,233                    | 5.5                     |
| 140100030204 | French Creek-Homestake Creek     | 36.9                  | 9.6                   | 5.7                   | 47.8                  | 47.80             | 23,967                    | 3.3                     |
| 140100040101 | Lincoln Creek                    | 52.9                  | 8.1                   | 5.2                   | 33.7                  | 33.73             | 21,310                    | 1.4                     |
| 140100040102 | Headwaters Roaring Fork River    | 53.1                  | 8.0                   | 4.5                   | 34.3                  | 34.32             | 18,412                    | 1.5                     |
| 140100040105 | Hunter Creek                     | 20.7                  | 21.2                  | 4.5                   | 53.6                  | 53.56             | 27,575                    | 4.2                     |
| 140100040501 | Headwaters Fryingpan River       | 35.5                  | 12.0                  | 4.8                   | 47.7                  | 47.72             | 28,998                    | 3.3                     |
| 140100040502 | North Fork Fryingpan River       | 17.7                  | 21.9                  | 5.2                   | 55.3                  | 55.27             | 27,015                    | 4.4                     |
| 140100040504 | Deeds Creek-Fryingpan River      | 21.5                  | 22.7                  | 5.4                   | 50.4                  | 50.43             | 30,547                    | 3.7                     |

### Wildfire Hazard Categories

|          |          |         |
|----------|----------|---------|
| Min      | 27.56052 |         |
| Max      | 63.11200 |         |
| Range    | 35.55147 |         |
| Step     | 7.11029  |         |
| Category | From     | To      |
| 1        | 27.5605  | 34.6708 |
| 2        | 34.6708  | 41.7811 |
| 3        | 41.7811  | 48.8914 |
| 4        | 48.8914  | 56.0017 |
| 5        | 56.0017  | 63.1120 |

## Wildfire Hazard

| Sixth-level Watershed Name       | Watershed Area (acres) | Wildfire Hazard Calculation | Wildfire Hazard Rank |
|----------------------------------|------------------------|-----------------------------|----------------------|
| Trout Creek                      | 41,233                 | 63.11                       | 5.5                  |
| Tennessee Creeks                 | 29,622                 | 57.11                       | 4.7                  |
| Cache Creek-Arkansas River       | 30,474                 | 55.59                       | 4.4                  |
| North Fork Fryingpan River       | 27,015                 | 55.27                       | 4.4                  |
| Four Mile Creek                  | 24,415                 | 55.13                       | 4.4                  |
| Box Creek                        | 12,338                 | 54.76                       | 4.3                  |
| Three Elk Creek-Arkansas River   | 38,714                 | 53.63                       | 4.2                  |
| Two-Bit Gulch-Arkansas River     | 14,428                 | 53.61                       | 4.2                  |
| Hunter Creek                     | 27,575                 | 53.56                       | 4.2                  |
| City of Leadville-Arkansas River | 42,183                 | 52.28                       | 4.0                  |
| Turquoise Lake                   | 17,629                 | 51.45                       | 3.9                  |
| Deeds Creek-Fryingpan River      | 30,547                 | 50.43                       | 3.7                  |
| Big Union Creek                  | 12,467                 | 48.17                       | 3.4                  |
| French Creek-Homestake Creek     | 23,967                 | 47.80                       | 3.3                  |
| Headwaters Fryingpan River       | 28,998                 | 47.72                       | 3.3                  |
| East Fork Arkansas River         | 32,835                 | 46.67                       | 3.2                  |
| Willow Creek                     | 15,525                 | 41.32                       | 2.4                  |
| South Fork Lake Creek            | 14,374                 | 36.09                       | 1.7                  |
| Headwaters Roaring Fork River    | 18,412                 | 34.32                       | 1.5                  |
| Lincoln Creek                    | 21,310                 | 33.73                       | 1.4                  |
| Lake Creek                       | 38,192                 | 32.43                       | 1.2                  |
| Lake Fork-Clear Creek            | 26,648                 | 32.41                       | 1.2                  |
| Headwaters Clear Creek           | 17,496                 | 31.41                       | 1.0                  |
| North Fork Lake Creek            | 15,415                 | 28.97                       | 0.7                  |
| Pine Creek                       | 13,683                 | 27.61                       | 0.5                  |
| Halfmoon Creek                   | 16,082                 | 27.56                       | 0.5                  |

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## Ruggedness Calculations

| 12 code HUC  | Sixth-level Watershed Name       | Watershed Area (sq. ft.) | Maximum Elevation | Minimum Elevation | Difference Elevation | Area -0.5 | Ruggedness | Ruggedness Rank | Adjustments |
|--------------|----------------------------------|--------------------------|-------------------|-------------------|----------------------|-----------|------------|-----------------|-------------|
| 110200010101 | North Fork Lake Creek            | 671,477,400              | 13,875            | 10,070            | 3,805                | 0.000039  | 0.1469     | 2.5             | 1           |
| 110200010102 | South Fork Lake Creek            | 626,131,440              | 13,958            | 10,071            | 3,887                | 0.000040  | 0.1554     | 2.8             | 1           |
| 110200010103 | Lake Creek                       | 1,330,914,816            | 14,419            | 9,038             | 5,381                | 0.000027  | 0.1475     | 2.5             | 1.25        |
| 110200010201 | Tennessee Creeks                 | 1,290,334,320            | 13,204            | 9,730             | 3,474                | 0.000028  | 0.0967     | 0.8             | 1           |
| 110200010202 | East Fork Arkansas River         | 1,144,234,080            | 14,088            | 9,727             | 4,361                | 0.000003  | 0.1289     | 1.9             | 1.25        |
| 110200010203 | Turquoise Lake                   | 767,919,240              | 13,125            | 9,843             | 3,283                | 0.000036  | 0.1185     | 1.5             | 1           |
| 110200010204 | Willow Creek                     | 676,269,000              | 14,407            | 9,497             | 4,910                | 0.000038  | 0.1888     | 4.0             | 1           |
| 110200010205 | Halfmoon Creek                   | 700,531,920              | 14,413            | 9,443             | 4,970                | 0.000038  | 0.1878     | 4.0             | 1           |
| 110200010206 | City of Leadville-Arkansas River | 1,469,993,184            | 14,016            | 9,182             | 4,834                | 0.000026  | 0.1261     | 1.8             | 1.25        |
| 110200010207 | Big Union Creek                  | 543,062,520              | 13,909            | 9,181             | 4,728                | 0.000043  | 0.2029     | 4.5             | 1           |
| 110200010208 | Box Creek                        | 537,443,280              | 14,350            | 9,108             | 5,242                | 0.000043  | 0.2261     | 5.3             | 1           |
| 110200010209 | Two-Bit Gulch-Arkansas River     | 628,483,680              | 12,879            | 9,039             | 3,839                | 0.000040  | 0.1531     | 2.7             | 1           |
| 110200010401 | Headwaters Clear Creek           | 762,125,760              | 13,994            | 10,229            | 3,765                | 0.000036  | 0.1364     | 2.2             | 1           |
| 110200010402 | Lake Fork-Clear Creek            | 1,160,786,880            | 14,167            | 8,768             | 5,398                | 0.000029  | 0.1585     | 2.9             | 1           |
| 110200010403 | Pine Creek                       | 596,031,480              | 14,372            | 8,719             | 5,653                | 0.000041  | 0.2316     | 5.5             | 1           |
| 110200010404 | Cache Creek-Arkansas River       | 1,061,957,952            | 12,849            | 8,704             | 4,145                | 0.000031  | 0.1272     | 1.8             | 1.25        |
| 110200010405 | Four Mile Creek                  | 1,063,517,400            | 13,318            | 8,006             | 5,312                | 0.000031  | 0.1629     | 3.1             | 1           |
| 110200010406 | Three Elk Creek-Arkansas River   | 1,124,254,560            | 14,045            | 7,882             | 6,163                | 0.000030  | 0.1838     | 3.8             | 1.5         |
| 110200010701 | Trout Creek                      | 1,197,406,320            | 10,768            | 7,682             | 3,087                | 0.000029  | 0.0892     | 0.5             | 1.5         |
| 140100030204 | French Creek-Homestake Creek     | 835,202,016              | 13,749            | 9,189             | 4,560                | 0.000035  | 0.1578     | 2.9             | 1.25        |
| 140100040101 | Lincoln Creek                    | 928,263,600              | 13,924            | 9,582             | 4,342                | 0.000033  | 0.1425     | 2.4             | 1           |
| 140100040102 | Headwaters Roaring Fork River    | 802,026,720              | 13,677            | 9,581             | 4,095                | 0.000035  | 0.1446     | 2.4             | 1           |
| 140100040105 | Hunter Creek                     | 1,201,167,000            | 13,330            | 7,828             | 5,502                | 0.000003  | 0.1588     | 2.9             | 1           |
| 140100040501 | Headwaters Fryingpan River       | 1,263,152,880            | 14,160            | 8,744             | 5,416                | 0.000028  | 0.1524     | 2.7             | 1           |
| 140100040502 | North Fork Fryingpan River       | 1,176,773,400            | 13,131            | 8,226             | 4,905                | 0.000029  | 0.1430     | 2.4             | 1           |
| 140100040504 | Deeds Creek-Fryingpan River      | 1,330,627,320            | 13,334            | 8,041             | 5,293                | 0.000027  | 0.1451     | 2.5             | 1           |

### Ruggedness Categories

|          |         |        |
|----------|---------|--------|
| Min      | 0.08920 |        |
| Max      | 0.23157 |        |
| Range    | 0.14236 |        |
| Step     | 0.02847 |        |
| Category | From    | To     |
| 1        | 0.0892  | 0.1177 |
| 2        | 0.1177  | 0.1461 |
| 3        | 0.1461  | 0.1746 |
| 4        | 0.1746  | 0.2031 |
| 5        | 0.2031  | 0.2316 |

## Ruggedness

| Sixth-level Watershed Name       | Maximum Elevation | Minimum Elevation | Difference Elevation | Ruggedness | Ruggedness Rank |
|----------------------------------|-------------------|-------------------|----------------------|------------|-----------------|
| Pine Creek                       | 14,372            | 8,719             | 5,653                | 0.2316     | 5.5             |
| Box Creek                        | 14,350            | 9,108             | 5,242                | 0.2261     | 5.3             |
| Big Union Creek                  | 13,909            | 9,181             | 4,728                | 0.2029     | 4.5             |
| Willow Creek                     | 14,407            | 9,497             | 4,910                | 0.1888     | 4.0             |
| Halfmoon Creek                   | 14,413            | 9,443             | 4,970                | 0.1878     | 4.0             |
| Three Elk Creek-Arkansas River   | 14,045            | 7,882             | 6,163                | 0.1838     | 3.8             |
| Four Mile Creek                  | 13,318            | 8,006             | 5,312                | 0.1629     | 3.1             |
| Hunter Creek                     | 13,330            | 7,828             | 5,502                | 0.1588     | 2.9             |
| Lake Fork-Clear Creek            | 14,167            | 8,768             | 5,398                | 0.1585     | 2.9             |
| French Creek-Homestake Creek     | 13,749            | 9,189             | 4,560                | 0.1578     | 2.9             |
| South Fork Lake Creek            | 13,958            | 10,071            | 3,887                | 0.1554     | 2.8             |
| Two-Bit Gulch-Arkansas River     | 12,879            | 9,039             | 3,839                | 0.1531     | 2.7             |
| Headwaters Fryingpan River       | 14,160            | 8,744             | 5,416                | 0.1524     | 2.7             |
| Lake Creek                       | 14,419            | 9,038             | 5,381                | 0.1475     | 2.5             |
| North Fork Lake Creek            | 13,875            | 10,070            | 3,805                | 0.1469     | 2.5             |
| Deeds Creek-Fryingpan River      | 13,334            | 8,041             | 5,293                | 0.1451     | 2.5             |
| Headwaters Roaring Fork River    | 13,677            | 9,581             | 4,095                | 0.1446     | 2.4             |
| North Fork Fryingpan River       | 13,131            | 8,226             | 4,905                | 0.1430     | 2.4             |
| Lincoln Creek                    | 13,924            | 9,582             | 4,342                | 0.1425     | 2.4             |
| Headwaters Clear Creek           | 13,994            | 10,229            | 3,765                | 0.1364     | 2.2             |
| East Fork Arkansas River         | 14,088            | 9,727             | 4,361                | 0.1289     | 1.9             |
| Cache Creek-Arkansas River       | 12,849            | 8,704             | 4,145                | 0.1272     | 1.8             |
| City of Leadville-Arkansas River | 14,016            | 9,182             | 4,834                | 0.1261     | 1.8             |
| Turquoise Lake                   | 13,125            | 9,843             | 3,283                | 0.1185     | 1.5             |
| Tennessee Creeks                 | 13,204            | 9,730             | 3,474                | 0.0967     | 0.8             |
| Trout Creek                      | 10,768            | 7,682             | 3,087                | 0.0892     | 0.5             |

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## Road Density Calculations

| 12 code HUC  | Sixth-level Watershed Name       | Roads (miles) | Roads Adjusted (miles) | Watershed Area (sq. mi.) | Road density (miles per sq. mi.) | Road Density Rank |
|--------------|----------------------------------|---------------|------------------------|--------------------------|----------------------------------|-------------------|
| 110200010101 | North Fork Lake Creek            | 14.1          | 14.1                   | 24.09                    | 0.59                             | 2.3               |
| 110200010102 | South Fork Lake Creek            | 8.5           | 8.5                    | 22.46                    | 0.38                             | 1.6               |
| 110200010103 | Lake Creek                       | 56.9          | 56.9                   | 59.68                    | 0.95                             | 3.5               |
| 110200010201 | Tennessee Creeks                 | 56.5          | 56.5                   | 46.28                    | 1.22                             | 4.4               |
| 110200010202 | East Fork Arkansas River         | 69.8          | 69.8                   | 51.30                    | 1.36                             | 4.9               |
| 110200010203 | Turquoise Lake                   | 30.6          | 30.6                   | 27.55                    | 1.11                             | 4.0               |
| 110200010204 | Willow Creek                     | 4.0           | 4.0                    | 24.26                    | 0.17                             | 0.9               |
| 110200010205 | Halfmoon Creek                   | 17.0          | 17.0                   | 25.13                    | 0.68                             | 2.6               |
| 110200010206 | City of Leadville-Arkansas River | 204.0         | 102.0                  | 65.91                    | 1.55                             | 5.5               |
| 110200010207 | Big Union Creek                  | 26.7          | 13.3                   | 19.48                    | 0.68                             | 2.6               |
| 110200010208 | Box Creek                        | 46.7          | 18.7                   | 19.28                    | 0.97                             | 3.6               |
| 110200010209 | Two-Bit Gulch-Arkansas River     | 16.6          | 16.6                   | 22.54                    | 0.73                             | 2.8               |
| 110200010401 | Headwaters Clear Creek           | 2.9           | 8.8                    | 27.34                    | 0.32                             | 1.4               |
| 110200010402 | Lake Fork-Clear Creek            | 16.8          | 16.8                   | 41.64                    | 0.40                             | 1.7               |
| 110200010403 | Pine Creek                       | 1.2           | 1.2                    | 21.38                    | 0.06                             | 0.5               |
| 110200010404 | Cache Creek-Arkansas River       | 60.9          | 60.9                   | 47.62                    | 1.28                             | 4.6               |
| 110200010405 | Four Mile Creek                  | 39.7          | 39.7                   | 38.15                    | 1.04                             | 3.8               |
| 110200010406 | Three Elk Creek-Arkansas River   | 98.7          | 49.3                   | 60.49                    | 0.82                             | 3.0               |
| 110200010701 | Trout Creek                      | 87.4          | 87.4                   | 64.43                    | 1.36                             | 4.9               |
| 140100030204 | French Creek-Homestake Creek     | 15.6          | 15.6                   | 37.45                    | 0.42                             | 1.7               |
| 140100040101 | Lincoln Creek                    | 11.1          | 16.6                   | 33.30                    | 0.50                             | 2.0               |
| 140100040102 | Headwaters Roaring Fork River    | 10.6          | 10.6                   | 28.77                    | 0.37                             | 1.5               |
| 140100040105 | Hunter Creek                     | 16.0          | 16.0                   | 43.09                    | 0.37                             | 1.6               |
| 140100040501 | Headwaters Fryingpan River       | 21.3          | 26.6                   | 45.31                    | 0.59                             | 2.3               |
| 140100040502 | North Fork Fryingpan River       | 14.6          | 21.8                   | 42.21                    | 0.52                             | 2.0               |
| 140100040504 | Deeds Creek-Fryingpan River      | 21.2          | 21.2                   | 47.73                    | 0.44                             | 1.8               |
| Totals       |                                  | 969.2         | 800.5                  | 987                      | 0.81                             |                   |

### Road Density Categories

|          |         |        |
|----------|---------|--------|
| Min      | 0.05706 |        |
| Max      | 1.54727 |        |
| Range    | 1.49021 |        |
| Step     | 0.29804 |        |
| Category | From    | To     |
| 1        | 0.0571  | 0.3551 |
| 2        | 0.3551  | 0.6531 |
| 3        | 0.6531  | 0.9512 |
| 4        | 0.9512  | 1.2492 |
| 5        | 1.2492  | 1.5473 |

## Road Density

| Sixth-level Watershed Name       | Roads (miles) | Roads Adjusted (miles) | Watershed Area (sq. mi.) | Road density (miles per sq. mi.) | Road Density Rank |
|----------------------------------|---------------|------------------------|--------------------------|----------------------------------|-------------------|
| City of Leadville-Arkansas River | 204.0         | 102.0                  | 65.91                    | 1.55                             | 5.5               |
| East Fork Arkansas River         | 69.8          | 69.8                   | 51.30                    | 1.36                             | 4.9               |
| Trout Creek                      | 87.4          | 87.4                   | 64.43                    | 1.36                             | 4.9               |
| Cache Creek-Arkansas River       | 60.9          | 60.9                   | 47.62                    | 1.28                             | 4.6               |
| Tennessee Creeks                 | 56.5          | 56.5                   | 46.28                    | 1.22                             | 4.4               |
| Turquoise Lake                   | 30.6          | 30.6                   | 27.55                    | 1.11                             | 4.0               |
| Four Mile Creek                  | 39.7          | 39.7                   | 38.15                    | 1.04                             | 3.8               |
| Box Creek                        | 46.7          | 18.7                   | 19.28                    | 0.97                             | 3.6               |
| Lake Creek                       | 56.9          | 56.9                   | 59.68                    | 0.95                             | 3.5               |
| Three Elk Creek-Arkansas River   | 98.7          | 49.3                   | 60.49                    | 0.82                             | 3.0               |
| Two-Bit Gulch-Arkansas River     | 16.6          | 16.6                   | 22.54                    | 0.73                             | 2.8               |
| Big Union Creek                  | 26.7          | 13.3                   | 19.48                    | 0.68                             | 2.6               |
| Halfmoon Creek                   | 17.0          | 17.0                   | 25.13                    | 0.68                             | 2.6               |
| Headwaters Fryingpan River       | 21.3          | 26.6                   | 45.31                    | 0.59                             | 2.3               |
| North Fork Lake Creek            | 14.1          | 14.1                   | 24.09                    | 0.59                             | 2.3               |
| North Fork Fryingpan River       | 14.6          | 21.8                   | 42.21                    | 0.52                             | 2.0               |
| Lincoln Creek                    | 11.1          | 16.6                   | 33.30                    | 0.50                             | 2.0               |
| Deeds Creek-Fryingpan River      | 21.2          | 21.2                   | 47.73                    | 0.44                             | 1.8               |
| French Creek-Homestake Creek     | 15.6          | 15.6                   | 37.45                    | 0.42                             | 1.7               |
| Lake Fork-Clear Creek            | 16.8          | 16.8                   | 41.64                    | 0.40                             | 1.7               |
| South Fork Lake Creek            | 8.5           | 8.5                    | 22.46                    | 0.38                             | 1.6               |
| Hunter Creek                     | 16.0          | 16.0                   | 43.09                    | 0.37                             | 1.6               |
| Headwaters Roaring Fork River    | 10.6          | 10.6                   | 28.77                    | 0.37                             | 1.5               |
| Headwaters Clear Creek           | 2.9           | 8.8                    | 27.34                    | 0.32                             | 1.4               |
| Willow Creek                     | 4.0           | 4.0                    | 24.26                    | 0.17                             | 0.9               |
| Pine Creek                       | 1.2           | 1.2                    | 21.38                    | 0.06                             | 0.5               |
| Totals                           | 969.2         | 800.5                  | 986.84                   | 0.81                             |                   |

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## Flooding Debris Flow Hazard Calculation

| Sixth-level Watershed Name       | Watershed Area (acres) | Ruggedness | Ruggedness Rank | Road density (mi per sq. mi.) | Road Density Rank | Combined Numeric Rank | Combined Ranking |
|----------------------------------|------------------------|------------|-----------------|-------------------------------|-------------------|-----------------------|------------------|
| North Fork Lake Creek            | 15,415                 | 0.1469     | 2.5             | 0.59                          | 2.3               | 7.32                  | 1.8              |
| South Fork Lake Creek            | 14,374                 | 0.1554     | 2.8             | 0.38                          | 1.6               | 7.23                  | 1.7              |
| Lake Creek                       | 38,192                 | 0.1475     | 2.5             | 0.95                          | 3.5               | 8.60                  | 2.8              |
| Tennessee Creeks                 | 29,622                 | 0.0967     | 0.8             | 1.22                          | 4.4               | 5.93                  | 0.7              |
| East Fork Arkansas River         | 32,835                 | 0.1289     | 1.9             | 1.36                          | 4.9               | 8.66                  | 2.8              |
| Turquoise Lake                   | 17,629                 | 0.1185     | 1.5             | 1.11                          | 4.0               | 7.09                  | 1.6              |
| Willow Creek                     | 15,525                 | 0.1888     | 4.0             | 0.17                          | 0.9               | 8.86                  | 3.0              |
| Halfmoon Creek                   | 16,082                 | 0.1878     | 4.0             | 0.68                          | 2.6               | 10.50                 | 4.3              |
| City of Leadville-Arkansas River | 42,183                 | 0.1261     | 1.8             | 1.55                          | 5.5               | 9.09                  | 3.2              |
| Big Union Creek                  | 12,467                 | 0.2029     | 4.5             | 0.68                          | 2.6               | 11.59                 | 5.2              |
| Box Creek                        | 12,338                 | 0.2261     | 5.3             | 0.97                          | 3.6               | 12.00                 | 5.5              |
| Two-Bit Gulch-Arkansas River     | 14,428                 | 0.1531     | 2.7             | 0.73                          | 2.8               | 8.26                  | 2.5              |
| Headwaters Clear Creek           | 17,496                 | 0.1364     | 2.2             | 0.32                          | 1.4               | 5.70                  | 0.5              |
| Lake Fork-Clear Creek            | 26,648                 | 0.1585     | 2.9             | 0.40                          | 1.7               | 7.53                  | 1.9              |
| Pine Creek                       | 13,683                 | 0.2316     | 5.5             | 0.06                          | 0.5               | 11.50                 | 5.1              |
| Cache Creek-Arkansas River       | 30,474                 | 0.1272     | 1.8             | 1.28                          | 4.6               | 8.27                  | 2.5              |
| Four Mile Creek                  | 24,415                 | 0.1629     | 3.1             | 1.04                          | 3.8               | 9.97                  | 3.9              |
| Three Elk Creek-Arkansas River   | 38,714                 | 0.1838     | 3.8             | 0.82                          | 3.0               | 10.69                 | 4.5              |
| Trout Creek                      | 41,233                 | 0.0892     | 0.5             | 1.36                          | 4.9               | 5.86                  | 0.6              |
| French Creek-Homestake Creek     | 23,967                 | 0.1578     | 2.9             | 0.42                          | 1.7               | 7.52                  | 1.9              |
| Lincoln Creek                    | 21,310                 | 0.1425     | 2.4             | 0.50                          | 2.0               | 6.73                  | 1.3              |
| Headwaters Roaring Fork River    | 18,412                 | 0.1446     | 2.4             | 0.37                          | 1.5               | 6.43                  | 1.1              |
| Hunter Creek                     | 27,575                 | 0.1588     | 2.9             | 0.37                          | 1.6               | 7.44                  | 1.9              |
| Headwaters Fryingpan River       | 28,998                 | 0.1524     | 2.7             | 0.59                          | 2.3               | 7.72                  | 2.1              |
| North Fork Fryingpan River       | 27,015                 | 0.1430     | 2.4             | 0.52                          | 2.0               | 6.82                  | 1.4              |
| Deeds Creek-Fryingpan River      | 30,547                 | 0.1451     | 2.5             | 0.44                          | 1.8               | 6.72                  | 1.3              |

### Flooding Categories

|          |          |         |
|----------|----------|---------|
| Min      | 5.70250  |         |
| Max      | 12.00000 |         |
| Range    | 6.29750  |         |
| Step     | 1.25950  |         |
| Category | From     | To      |
| 1        | 5.7025   | 6.9620  |
| 2        | 6.9620   | 8.2215  |
| 3        | 8.2215   | 9.4810  |
| 4        | 9.4810   | 10.7405 |
| 5        | 10.7405  | 12.0000 |

## Flooding Debris Flow Hazard

| Sixth-level Watershed Name       | Ruggedness Ranking | Road Density Ranking | Combined Numeric Rank | Combined Ranking |
|----------------------------------|--------------------|----------------------|-----------------------|------------------|
| Box Creek                        | 5.3                | 3.6                  | 12.00                 | 5.5              |
| Big Union Creek                  | 4.5                | 2.6                  | 11.59                 | 5.2              |
| Pine Creek                       | 5.5                | 0.5                  | 11.50                 | 5.1              |
| Three Elk Creek-Arkansas River   | 3.8                | 3.0                  | 10.69                 | 4.5              |
| Halfmoon Creek                   | 4.0                | 2.6                  | 10.50                 | 4.3              |
| Four Mile Creek                  | 3.1                | 3.8                  | 9.97                  | 3.9              |
| City of Leadville-Arkansas River | 1.8                | 5.5                  | 9.09                  | 3.2              |
| Willow Creek                     | 4.0                | 0.9                  | 8.86                  | 3.0              |
| East Fork Arkansas River         | 1.9                | 4.9                  | 8.66                  | 2.8              |
| Lake Creek                       | 2.5                | 3.5                  | 8.60                  | 2.8              |
| Cache Creek-Arkansas River       | 1.8                | 4.6                  | 8.27                  | 2.5              |
| Two-Bit Gulch-Arkansas River     | 2.7                | 2.8                  | 8.26                  | 2.5              |
| Headwaters Fryingpan River       | 2.7                | 2.3                  | 7.72                  | 2.1              |
| Lake Fork-Clear Creek            | 2.9                | 1.7                  | 7.53                  | 1.9              |
| French Creek-Homestake Creek     | 2.9                | 1.7                  | 7.52                  | 1.9              |
| Hunter Creek                     | 2.9                | 1.6                  | 7.44                  | 1.9              |
| North Fork Lake Creek            | 2.5                | 2.3                  | 7.32                  | 1.8              |
| South Fork Lake Creek            | 2.8                | 1.6                  | 7.23                  | 1.7              |
| Turquoise Lake                   | 1.5                | 4.0                  | 7.09                  | 1.6              |
| North Fork Fryingpan River       | 2.4                | 2.0                  | 6.82                  | 1.4              |
| Lincoln Creek                    | 2.4                | 2.0                  | 6.73                  | 1.3              |
| Deeds Creek-Fryingpan River      | 2.5                | 1.8                  | 6.72                  | 1.3              |
| Headwaters Roaring Fork River    | 2.4                | 1.5                  | 6.43                  | 1.1              |
| Tennessee Creeks                 | 0.8                | 4.4                  | 5.93                  | 0.7              |
| Trout Creek                      | 0.5                | 4.9                  | 5.86                  | 0.6              |
| Headwaters Clear Creek           | 2.2                | 1.4                  | 5.70                  | 0.5              |

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## Soil Erodibility Calculation

| 12 code HUC  | Sixth-level Watershed Name       | Severe (acres) | Severe (%) | Very Severe (acres) | Very Severe (%) | Soil Erodibility Value | Watershed Area | Soil Erodibility Rank |
|--------------|----------------------------------|----------------|------------|---------------------|-----------------|------------------------|----------------|-----------------------|
| 110200010101 | North Fork Lake Creek            | 2,548.4        | 16.5%      | 0.0                 | 0.0%            | 0.165                  | 15,415         | 2.7                   |
| 110200010102 | South Fork Lake Creek            | 2,012.9        | 14.0%      | 0.0                 | 0.0%            | 0.140                  | 14,374         | 2.4                   |
| 110200010103 | Lake Creek                       | 6,582.7        | 17.2%      | 4.9                 | 0.0%            | 0.173                  | 38,192         | 2.8                   |
| 110200010201 | Tennessee Creeks                 | 1,667.7        | 5.6%       | 31.6                | 0.1%            | 0.058                  | 29,622         | 1.2                   |
| 110200010202 | East Fork Arkansas River         | 2,920.7        | 8.9%       | 1,434.7             | 4.4%            | 0.176                  | 32,835         | 2.9                   |
| 110200010203 | Turquoise Lake                   | 1,752.0        | 9.9%       | 839.1               | 4.8%            | 0.195                  | 17,629         | 3.1                   |
| 110200010204 | Willow Creek                     | 1,560.1        | 10.0%      | 772.4               | 5.0%            | 0.200                  | 15,525         | 3.2                   |
| 110200010205 | Halfmoon Creek                   | 1,544.3        | 9.6%       | 825.5               | 5.1%            | 0.199                  | 16,082         | 3.2                   |
| 110200010206 | City of Leadville-Arkansas River | 881.8          | 2.1%       | 53.6                | 0.1%            | 0.023                  | 42,183         | 0.8                   |
| 110200010207 | Big Union Creek                  | 1,036.8        | 8.3%       | 319.4               | 2.6%            | 0.134                  | 12,467         | 2.3                   |
| 110200010208 | Box Creek                        | 58.0           | 0.5%       | 0.0                 | 0.0%            | 0.005                  | 12,338         | 0.5                   |
| 110200010209 | Two-Bit Gulch-Arkansas River     | 1,427.8        | 9.9%       | 32.5                | 0.2%            | 0.103                  | 14,428         | 1.9                   |
| 110200010401 | Headwaters Clear Creek           | 2,297.3        | 13.1%      | 3,116.0             | 17.8%           | 0.370                  | 17,496         | 5.5                   |
| 110200010402 | Lake Fork-Clear Creek            | 3,042.1        | 11.4%      | 6,592.9             | 24.7%           | 0.370                  | 26,648         | 5.5                   |
| 110200010403 | Pine Creek                       | 1,574.1        | 11.5%      | 0.0                 | 0.0%            | 0.115                  | 13,683         | 2.0                   |
| 110200010404 | Cache Creek-Arkansas River       | 3,973.8        | 13.0%      | 494.2               | 1.6%            | 0.163                  | 30,474         | 2.7                   |
| 110200010405 | Four Mile Creek                  | 1,414.9        | 5.8%       | 592.9               | 2.4%            | 0.107                  | 24,415         | 1.9                   |
| 110200010406 | Three Elk Creek-Arkansas River   | 2,859.8        | 7.4%       | 699.9               | 1.8%            | 0.110                  | 38,714         | 1.9                   |
| 110200010701 | Trout Creek                      | 158.6          | 0.4%       | 0.0                 | 0.0%            | 0.004                  | 41,233         | 0.5                   |
| 140100030204 | French Creek-Homestake Creek     | 4,861.3        | 20.3%      | 0.0                 | 0.0%            | 0.203                  | 23,967         | 3.2                   |
| 140100040101 | Lincoln Creek                    | 7,990.2        | 37.5%      | 0.0                 | 0.0%            | 0.370                  | 21,310         | 5.5                   |
| 140100040102 | Headwaters Roaring Fork River    | 4,533.1        | 24.6%      | 0.0                 | 0.0%            | 0.246                  | 18,412         | 3.8                   |
| 140100040105 | Hunter Creek                     | 2,931.6        | 10.6%      | 0.0                 | 0.0%            | 0.106                  | 27,575         | 1.9                   |
| 140100040501 | Headwaters Fryingpan River       | 6,315.6        | 21.8%      | 0.0                 | 0.0%            | 0.218                  | 28,998         | 3.4                   |
| 140100040502 | North Fork Fryingpan River       | 3,085.3        | 11.4%      | 0.0                 | 0.0%            | 0.114                  | 27,015         | 2.0                   |
| 140100040504 | Deeds Creek-Fryingpan River      | 4,715.9        | 15.4%      | 0.0                 | 0.0%            | 0.154                  | 30,547         | 2.6                   |

### Soils Categories

|          |         |        |
|----------|---------|--------|
| Min      | 0.00385 |        |
| Max      | 0.37000 |        |
| Range    | 0.36615 |        |
| Step     | 0.07323 |        |
| Category | From    | To     |
| 1        | 0.0038  | 0.0771 |
| 2        | 0.0771  | 0.1503 |
| 3        | 0.1503  | 0.2235 |
| 4        | 0.2235  | 0.2968 |
| 5        | 0.2968  | 0.3700 |

## Soil Erodibility

| Sixth-level Watershed Name       | Severe (%) | Very Severe (%) | Soil Erodibility Value | Soil Erodibility Rank |
|----------------------------------|------------|-----------------|------------------------|-----------------------|
| Headwaters Clear Creek           | 13.1%      | 17.8%           | 0.370                  | 5.5                   |
| Lake Fork-Clear Creek            | 11.4%      | 24.7%           | 0.370                  | 5.5                   |
| Lincoln Creek                    | 37.5%      | 0.0%            | 0.370                  | 5.5                   |
| Headwaters Roaring Fork River    | 24.6%      | 0.0%            | 0.246                  | 3.8                   |
| Headwaters Fryingpan River       | 21.8%      | 0.0%            | 0.218                  | 3.4                   |
| French Creek-Homestake Creek     | 20.3%      | 0.0%            | 0.203                  | 3.2                   |
| Willow Creek                     | 10.0%      | 5.0%            | 0.200                  | 3.2                   |
| Halfmoon Creek                   | 9.6%       | 5.1%            | 0.199                  | 3.2                   |
| Turquoise Lake                   | 9.9%       | 4.8%            | 0.195                  | 3.1                   |
| East Fork Arkansas River         | 8.9%       | 4.4%            | 0.176                  | 2.9                   |
| Lake Creek                       | 17.2%      | 0.0%            | 0.173                  | 2.8                   |
| North Fork Lake Creek            | 16.5%      | 0.0%            | 0.165                  | 2.7                   |
| Cache Creek-Arkansas River       | 13.0%      | 1.6%            | 0.163                  | 2.7                   |
| Deeds Creek-Fryingpan River      | 15.4%      | 0.0%            | 0.154                  | 2.6                   |
| South Fork Lake Creek            | 14.0%      | 0.0%            | 0.140                  | 2.4                   |
| Big Union Creek                  | 8.3%       | 2.6%            | 0.134                  | 2.3                   |
| Pine Creek                       | 11.5%      | 0.0%            | 0.115                  | 2.0                   |
| North Fork Fryingpan River       | 11.4%      | 0.0%            | 0.114                  | 2.0                   |
| Three Elk Creek-Arkansas River   | 7.4%       | 1.8%            | 0.110                  | 1.9                   |
| Four Mile Creek                  | 5.8%       | 2.4%            | 0.107                  | 1.9                   |
| Hunter Creek                     | 10.6%      | 0.0%            | 0.106                  | 1.9                   |
| Two-Bit Gulch-Arkansas River     | 9.9%       | 0.2%            | 0.103                  | 1.9                   |
| Tennessee Creeks                 | 5.6%       | 0.1%            | 0.058                  | 1.2                   |
| City of Leadville-Arkansas River | 2.1%       | 0.1%            | 0.023                  | 0.8                   |
| Box Creek                        | 0.5%       | 0.0%            | 0.005                  | 0.5                   |
| Trout Creek                      | 0.4%       | 0.0%            | 0.004                  | 0.5                   |



## Composite Hazard Calculation

| Sixth-level Watershed Name       | Wildfire Hazard Rank | Flooding/Debris Flow Rank | Soil Erodibility Rank | Composite Numeric Rank | Composite Hazard Rank |
|----------------------------------|----------------------|---------------------------|-----------------------|------------------------|-----------------------|
| North Fork Lake Creek            | 0.7                  | 1.8                       | 2.7                   | 5.2                    | 0.5                   |
| South Fork Lake Creek            | 1.7                  | 1.7                       | 2.4                   | 5.8                    | 1.0                   |
| Lake Creek                       | 1.2                  | 2.8                       | 2.8                   | 6.8                    | 1.9                   |
| Tennessee Creeks                 | 4.7                  | 0.7                       | 1.2                   | 6.6                    | 1.7                   |
| East Fork Arkansas River         | 3.2                  | 2.8                       | 2.9                   | 8.9                    | 3.8                   |
| Turquoise Lake                   | 3.9                  | 1.6                       | 3.1                   | 8.6                    | 3.5                   |
| Willow Creek                     | 2.4                  | 3.0                       | 3.2                   | 8.6                    | 3.5                   |
| Halfmoon Creek                   | 0.5                  | 4.3                       | 3.2                   | 8.0                    | 3.0                   |
| City of Leadville-Arkansas River | 4.0                  | 3.2                       | 0.8                   | 7.9                    | 2.9                   |
| Big Union Creek                  | 3.4                  | 5.2                       | 2.3                   | 10.9                   | 5.5                   |
| Box Creek                        | 4.3                  | 5.5                       | 0.5                   | 10.3                   | 5.0                   |
| Two-Bit Gulch-Arkansas River     | 4.2                  | 2.5                       | 1.9                   | 8.6                    | 3.5                   |
| Headwaters Clear Creek           | 1.0                  | 0.5                       | 5.5                   | 7.0                    | 2.1                   |
| Lake Fork-Clear Creek            | 1.2                  | 1.9                       | 5.5                   | 8.6                    | 3.5                   |
| Pine Creek                       | 0.5                  | 5.1                       | 2.0                   | 7.6                    | 2.7                   |
| Cache Creek-Arkansas River       | 4.4                  | 2.5                       | 2.7                   | 9.6                    | 4.4                   |
| Four Mile Creek                  | 4.4                  | 3.9                       | 1.9                   | 10.2                   | 4.9                   |
| Three Elk Creek-Arkansas River   | 4.2                  | 4.5                       | 1.9                   | 10.6                   | 5.3                   |
| Trout Creek                      | 5.5                  | 0.6                       | 0.5                   | 6.6                    | 1.8                   |
| French Creek-Homestake Creek     | 3.3                  | 1.9                       | 3.2                   | 8.5                    | 3.4                   |
| Lincoln Creek                    | 1.4                  | 1.3                       | 5.5                   | 8.2                    | 3.1                   |
| Headwaters Roaring Fork River    | 1.5                  | 1.1                       | 3.8                   | 6.3                    | 1.5                   |
| Hunter Creek                     | 4.2                  | 1.9                       | 1.9                   | 7.9                    | 2.9                   |
| Headwaters Fryingpan River       | 3.3                  | 2.1                       | 3.4                   | 8.9                    | 3.7                   |
| North Fork Fryingpan River       | 4.4                  | 1.4                       | 2.0                   | 7.8                    | 2.8                   |
| Deeds Creek-Fryingpan River      | 3.7                  | 1.3                       | 2.6                   | 7.6                    | 2.6                   |

### Composite Categories

|          |          |         |
|----------|----------|---------|
| Min      | 5.19124  |         |
| Max      | 10.85656 |         |
| Range    | 5.66531  |         |
| Step     | 1.13306  |         |
| Category | From     | To      |
| 1        | 5.1912   | 6.3243  |
| 2        | 6.3243   | 7.4574  |
| 3        | 7.4574   | 8.5904  |
| 4        | 8.5904   | 9.7235  |
| 5        | 9.7235   | 10.8566 |

## Composite Hazard

| Sixth-level Watershed Name       | Wildfire Hazard Rank | Flooding/ Debris Flow Rank | Soil Erodibility Rank | Composite Hazard Rank |
|----------------------------------|----------------------|----------------------------|-----------------------|-----------------------|
| Big Union Creek                  | 3.4                  | 5.2                        | 2.3                   | 5.5                   |
| Three Elk Creek-Arkansas River   | 4.2                  | 4.5                        | 1.9                   | 5.3                   |
| Box Creek                        | 4.3                  | 5.5                        | 0.5                   | 5.0                   |
| Four Mile Creek                  | 4.4                  | 3.9                        | 1.9                   | 4.9                   |
| Cache Creek-Arkansas River       | 4.4                  | 2.5                        | 2.7                   | 4.4                   |
| East Fork Arkansas River         | 3.2                  | 2.8                        | 2.9                   | 3.8                   |
| Headwaters Fryingpan River       | 3.3                  | 2.1                        | 3.4                   | 3.7                   |
| Lake Fork-Clear Creek            | 1.2                  | 1.9                        | 5.5                   | 3.5                   |
| Willow Creek                     | 2.4                  | 3.0                        | 3.2                   | 3.5                   |
| Turquoise Lake                   | 3.9                  | 1.6                        | 3.1                   | 3.5                   |
| Two-Bit Gulch-Arkansas River     | 4.2                  | 2.5                        | 1.9                   | 3.5                   |
| French Creek-Homestake Creek     | 3.3                  | 1.9                        | 3.2                   | 3.4                   |
| Lincoln Creek                    | 1.4                  | 1.3                        | 5.5                   | 3.1                   |
| Halfmoon Creek                   | 0.5                  | 4.3                        | 3.2                   | 3.0                   |
| Hunter Creek                     | 4.2                  | 1.9                        | 1.9                   | 2.9                   |
| City of Leadville-Arkansas River | 4.0                  | 3.2                        | 0.8                   | 2.9                   |
| North Fork Fryingpan River       | 4.4                  | 1.4                        | 2.0                   | 2.8                   |
| Pine Creek                       | 0.5                  | 5.1                        | 2.0                   | 2.7                   |
| Deeds Creek-Fryingpan River      | 3.7                  | 1.3                        | 2.6                   | 2.6                   |
| Headwaters Clear Creek           | 1.0                  | 0.5                        | 5.5                   | 2.1                   |
| Lake Creek                       | 1.2                  | 2.8                        | 2.8                   | 1.9                   |
| Trout Creek                      | 5.5                  | 0.6                        | 0.5                   | 1.8                   |
| Tennessee Creeks                 | 4.7                  | 0.7                        | 1.2                   | 1.7                   |
| Headwaters Roaring Fork River    | 1.5                  | 1.1                        | 3.8                   | 1.5                   |
| South Fork Lake Creek            | 1.7                  | 1.7                        | 2.4                   | 1.0                   |
| North Fork Lake Creek            | 0.7                  | 1.8                        | 2.7                   | 0.5                   |

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## Water Supply Ranking

| 12 code HUC  | Sixth-level Watershed Name       | Watershed Area | Sources & Diversions | Reservoirs | Total Uses |
|--------------|----------------------------------|----------------|----------------------|------------|------------|
| 110200010101 | North Fork Lake Creek            | 15,415         | 0                    |            | 0          |
| 110200010102 | South Fork Lake Creek            | 14,374         | 0                    |            | 0          |
| 110200010103 | Lake Creek                       | 38,192         | 1                    |            | 1          |
| 110200010201 | Tennessee Creeks                 | 29,622         | 0                    |            | 0          |
| 110200010202 | East Fork Arkansas River         | 32,835         | 1                    |            | 1          |
| 110200010203 | Turquoise Lake                   | 17,629         | 0                    | 1          | 1          |
| 110200010204 | Willow Creek                     | 15,525         | 0                    |            | 0          |
| 110200010205 | Halfmoon Creek                   | 16,082         | 1                    |            | 1          |
| 110200010206 | City of Leadville-Arkansas River | 42,183         | 1                    |            | 1          |
| 110200010207 | Big Union Creek                  | 12,467         | 0                    |            | 0          |
| 110200010208 | Box Creek                        | 12,338         | 0                    | 1          | 1          |
| 110200010209 | Two-Bit Gulch-Arkansas River     | 14,428         | 0                    |            | 0          |
| 110200010401 | Headwaters Clear Creek           | 17,496         | 0                    |            | 0          |
| 110200010402 | Lake Fork-Clear Creek            | 26,648         | 0                    | 1          | 1          |
| 110200010403 | Pine Creek                       | 13,683         | 0                    |            | 0          |
| 110200010404 | Cache Creek-Arkansas River       | 30,474         | 1                    |            | 1          |
| 110200010405 | Four Mile Creek                  | 24,415         | 0                    |            | 0          |
| 110200010406 | Three Elk Creek-Arkansas River   | 38,714         | 0                    |            | 0          |
| 110200010701 | Trout Creek                      | 41,233         | 0                    |            | 0          |
| 140100030204 | French Creek-Homestake Creek     | 23,967         | 1                    |            | 1          |
| 140100040101 | Lincoln Creek                    | 21,310         | 1                    |            | 1          |
| 140100040102 | Headwaters Roaring Fork River    | 18,412         | 1                    |            | 1          |
| 140100040105 | Hunter Creek                     | 27,575         | 1                    |            | 1          |
| 140100040501 | Headwaters Fryingpan River       | 28,998         | 1                    |            | 1          |
| 140100040502 | North Fork Fryingpan River       | 27,015         | 1                    |            | 1          |
| 140100040504 | Deeds Creek-Fryingpan River      | 30,547         | 1                    |            | 1          |

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**Final Watershed Ranking Calculation**

| Sixth-level Watershed Name       | Wildfire Hazard | Flooding/Debris Flow | Soil Erodibility | Composite | Node Ranking | Overall Numeric | Overall Ranking |
|----------------------------------|-----------------|----------------------|------------------|-----------|--------------|-----------------|-----------------|
| North Fork Lake Creek            | 0.7             | 1.8                  | 2.7              | 0.5       | 0            | 0.5             | 0.5             |
| South Fork Lake Creek            | 1.7             | 1.7                  | 2.4              | 1.0       | 0            | 1.0             | 1.0             |
| Lake Creek                       | 1.2             | 2.8                  | 2.8              | 1.9       | 1            | 2.9             | 2.7             |
| Tennessee Creeks                 | 4.7             | 0.7                  | 1.2              | 1.7       | 0            | 1.7             | 1.6             |
| East Fork Arkansas River         | 3.2             | 2.8                  | 2.9              | 3.8       | 1            | 4.8             | 4.4             |
| Turquoise Lake                   | 3.9             | 1.6                  | 3.1              | 3.5       | 1            | 4.5             | 4.1             |
| Willow Creek                     | 2.4             | 3.0                  | 3.2              | 3.5       | 0            | 3.5             | 3.2             |
| Halfmoon Creek                   | 0.5             | 4.3                  | 3.2              | 3.0       | 1            | 4.0             | 3.6             |
| City of Leadville-Arkansas River | 4.0             | 3.2                  | 0.8              | 2.9       | 1            | 3.9             | 3.6             |
| Big Union Creek                  | 3.4             | 5.2                  | 2.3              | 5.5       | 0            | 5.5             | 5.0             |
| Box Creek                        | 4.3             | 5.5                  | 0.5              | 5.0       | 1            | 6.0             | 5.5             |
| Two-Bit Gulch-Arkansas River     | 4.2             | 2.5                  | 1.9              | 3.5       | 0            | 3.5             | 3.2             |
| Headwaters Clear Creek           | 1.0             | 0.5                  | 5.5              | 2.1       | 0            | 2.1             | 2.0             |
| Lake Fork-Clear Creek            | 1.2             | 1.9                  | 5.5              | 3.5       | 1            | 4.5             | 4.1             |
| Pine Creek                       | 0.5             | 5.1                  | 2.0              | 2.7       | 0            | 2.7             | 2.4             |
| Cache Creek-Arkansas River       | 4.4             | 2.5                  | 2.7              | 4.4       | 1            | 5.4             | 5.0             |
| Four Mile Creek                  | 4.4             | 3.9                  | 1.9              | 4.9       | 0            | 4.9             | 4.5             |
| Three Elk Creek-Arkansas River   | 4.2             | 4.5                  | 1.9              | 5.3       | 0            | 5.3             | 4.8             |
| Trout Creek                      | 5.5             | 0.6                  | 0.5              | 1.8       | 0            | 1.8             | 1.6             |
| French Creek-Homestake Creek     | 3.3             | 1.9                  | 3.2              | 3.4       | 1            | 4.4             | 4.0             |
| Lincoln Creek                    | 1.4             | 1.3                  | 5.5              | 3.1       | 1            | 4.1             | 3.8             |
| Headwaters Roaring Fork River    | 1.5             | 1.1                  | 3.8              | 1.5       | 1            | 2.5             | 2.3             |
| Hunter Creek                     | 4.2             | 1.9                  | 1.9              | 2.9       | 1            | 3.9             | 3.6             |
| Headwaters Fryingpan River       | 3.3             | 2.1                  | 3.4              | 3.7       | 1            | 4.7             | 4.3             |
| North Fork Fryingpan River       | 4.4             | 1.4                  | 2.0              | 2.8       | 1            | 3.8             | 3.5             |
| Deeds Creek-Fryingpan River      | 3.7             | 1.3                  | 2.6              | 2.6       | 1            | 3.6             | 3.3             |

### Final Categories

|          |         |        |
|----------|---------|--------|
| Min      | 0.50000 |        |
| Max      | 6.04150 |        |
| Range    | 5.54150 |        |
| Step     | 1.10830 |        |
| Category | From    | To     |
| 1        | 0.5000  | 1.6083 |
| 2        | 1.6083  | 2.7166 |
| 3        | 2.7166  | 3.8249 |
| 4        | 3.8249  | 4.9332 |
| 5        | 4.9332  | 6.0415 |

## Final Watershed Ranking

| Sixth-level Watershed Name       | Wildfire Hazard | Flooding/Debris Flow | Soil Erodibility | Composite | Node Ranking | Final Ranking |
|----------------------------------|-----------------|----------------------|------------------|-----------|--------------|---------------|
| Box Creek                        | 4.3             | 5.5                  | 0.5              | 5.0       | 1            | 5.5           |
| Big Union Creek                  | 3.4             | 5.2                  | 2.3              | 5.5       | 0            | 5.0           |
| Cache Creek-Arkansas River       | 4.4             | 2.5                  | 2.7              | 4.4       | 1            | 5.0           |
| Three Elk Creek-Arkansas River   | 4.2             | 4.5                  | 1.9              | 5.3       | 0            | 4.8           |
| Four Mile Creek                  | 4.4             | 3.9                  | 1.9              | 4.9       | 0            | 4.5           |
| East Fork Arkansas River         | 3.2             | 2.8                  | 2.9              | 3.8       | 1            | 4.4           |
| Headwaters Fryingpan River       | 3.3             | 2.1                  | 3.4              | 3.7       | 1            | 4.3           |
| Lake Fork-Clear Creek            | 1.2             | 1.9                  | 5.5              | 3.5       | 1            | 4.1           |
| Turquoise Lake                   | 3.9             | 1.6                  | 3.1              | 3.5       | 1            | 4.1           |
| French Creek-Homestake Creek     | 3.3             | 1.9                  | 3.2              | 3.4       | 1            | 4.0           |
| Lincoln Creek                    | 1.4             | 1.3                  | 5.5              | 3.1       | 1            | 3.8           |
| Halfmoon Creek                   | 0.5             | 4.3                  | 3.2              | 3.0       | 1            | 3.6           |
| Hunter Creek                     | 4.2             | 1.9                  | 1.9              | 2.9       | 1            | 3.6           |
| City of Leadville-Arkansas River | 4.0             | 3.2                  | 0.8              | 2.9       | 1            | 3.6           |
| North Fork Fryingpan River       | 4.4             | 1.4                  | 2.0              | 2.8       | 1            | 3.5           |
| Deeds Creek-Fryingpan River      | 3.7             | 1.3                  | 2.6              | 2.6       | 1            | 3.3           |
| Willow Creek                     | 2.4             | 3.0                  | 3.2              | 3.5       | 0            | 3.2           |
| Two-Bit Gulch-Arkansas River     | 4.2             | 2.5                  | 1.9              | 3.5       | 0            | 3.2           |
| Lake Creek                       | 1.2             | 2.8                  | 2.8              | 1.9       | 1            | 2.7           |
| Pine Creek                       | 0.5             | 5.1                  | 2.0              | 2.7       | 0            | 2.4           |
| Headwaters Roaring Fork River    | 1.5             | 1.1                  | 3.8              | 1.5       | 1            | 2.3           |
| Headwaters Clear Creek           | 1.0             | 0.5                  | 5.5              | 2.1       | 0            | 2.0           |
| Trout Creek                      | 5.5             | 0.6                  | 0.5              | 1.8       | 0            | 1.6           |
| Tennessee Creeks                 | 4.7             | 0.7                  | 1.2              | 1.7       | 0            | 1.6           |
| South Fork Lake Creek            | 1.7             | 1.7                  | 2.4              | 1.0       | 0            | 1.0           |
| North Fork Lake Creek            | 0.7             | 1.8                  | 2.7              | 0.5       | 0            | 0.5           |

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## Zones of Concern

| Name                    | ZoC Area<br>(0-5 mile) | ZoC Area<br>(5-11 mile) | ZoC Area<br>(Total) | Water Supply Agency         |
|-------------------------|------------------------|-------------------------|---------------------|-----------------------------|
| Black Cloud Creek       | 1,647                  | 0                       | 1,647               | Mt Elbert Lodge             |
| Brooklyn Creek          | 1,540                  | 0                       | 1,540               | Colorado Springs and Aurora |
| Carter Creek            | 1,781                  | 0                       | 1,781               | Colorado Springs and Aurora |
| Chapman Creek           | 3,877                  | 0                       | 3,877               | Colorado Springs and Aurora |
| Clear Creek Reservoir   | 8,295                  | 14,066                  | 22,361              | Colorado Springs and Aurora |
| Cunningham Tunnel       | 1,254                  | 0                       | 1,254               | Colorado Springs and Aurora |
| East Fork Homestake     | 4,290                  | 0                       | 4,290               | Colorado Springs and Aurora |
| Evans Gulch             | 4,589                  | 0                       | 4,589               | Parkville Water District    |
| Fancy Creek             | 1,428                  | 0                       | 1,428               | Colorado Springs and Aurora |
| French Creek            | 2,405                  | 0                       | 2,405               | Colorado Springs and Aurora |
| Fryingpan River         | 10,096                 | 1,907                   | 12,003              | Colorado Springs and Aurora |
| Granite Creek           | 2,043                  | 0                       | 2,043               | Colorado Springs and Aurora |
| Grizzly Reservoir       | 9,663                  | 0                       | 9,663               | Colorado Springs and Aurora |
| Halfmoon Creek          | 3,851                  | 11,872                  | 15,723              | Colorado Springs and Aurora |
| Homestake Reservoir     | 4,411                  | 0                       | 4,411               | Colorado Springs and Aurora |
| Hunter Creek            | 4,693                  | 685                     | 5,378               | Colorado Springs and Aurora |
| Iowa Gulch              | 3,406                  | 0                       | 3,406               | Parkville Water District    |
| Ivanhoe Lake            | 1,490                  | 0                       | 1,490               | Colorado Springs and Aurora |
| Ivanhoe Tunnel          | 4,646                  | 0                       | 4,646               | Colorado Springs and Aurora |
| Lily Pad Creek          | 1,139                  | 0                       | 1,139               | Colorado Springs and Aurora |
| Lost Man Reservoir      | 5,896                  | 0                       | 5,896               | Colorado Springs and Aurora |
| Midway Creek            | 5,331                  | 0                       | 5,331               | Colorado Springs and Aurora |
| Missouri Creek          | 1,515                  | 0                       | 1,515               | Colorado Springs and Aurora |
| Morman Creek            | 2,067                  | 0                       | 2,067               | Colorado Springs and Aurora |
| New York Creek          | 2,048                  | 0                       | 2,048               | Colorado Springs and Aurora |
| No Name Creek           | 3,403                  | 0                       | 3,403               | Colorado Springs and Aurora |
| North Cunningham        | 1,162                  | 0                       | 1,162               | Colorado Springs and Aurora |
| North Fork              | 1,058                  | 0                       | 1,058               | Colorado Springs and Aurora |
| Roaring Fork Headwaters | 5,004                  | 787                     | 5,791               | Colorado Springs and Aurora |
| Sawyer Creek            | 1,407                  | 0                       | 1,407               | Colorado Springs and Aurora |
| Sopris Creek            | 1,918                  | 0                       | 1,918               | Colorado Springs and Aurora |
| South Cunningham        | 435                    | 0                       | 435                 | Colorado Springs and Aurora |
| South Fork Tunnel       | 6,147                  | 826                     | 6,973               | Colorado Springs and Aurora |
| Tabor Creek             | 1,922                  | 0                       | 1,922               | Colorado Springs and Aurora |
| Turquoise Lake          | 17,630                 | 0                       | 17,630              | Colorado Springs and Aurora |
| Twin Lakes              | 27,176                 | 23,023                  | 50,199              | Colorado Springs and Aurora |
| <b>Totals</b>           | <b>160,663</b>         | <b>53,166</b>           | <b>213,829</b>      |                             |