

Upper Colorado Headwaters Watersheds

12 code HUC	Sixth-level Watershed Name	Acres	Fifth-level HUC Name	10 code HUC
140100010101	Headwaters Willow Creek	14,274	Willow Creek	1401000101
140100010102	Upper Willow Creek	37,834	Willow Creek	1401000101
140100010103	Middle Willow Creek	20,435	Willow Creek	1401000101
140100010104	Lower Willow Creek	18,044	Willow Creek	1401000101
140100010201	Vasquez Creek	17,871	Fraser River	1401000102
140100010202	Upper Fraser River	19,380	Fraser River	1401000102
140100010203	Saint Louis Creek	24,465	Fraser River	1401000102
140100010204	Headwaters Ranch Creek	12,763	Fraser River	1401000102
140100010205	Meadows Creek-Ranch Creek	29,878	Fraser River	1401000102
140100010206	Middle Fraser River	11,694	Fraser River	1401000102
140100010207	Crooked Creek	26,368	Fraser River	1401000102
140100010208	Strawberry Creek	10,807	Fraser River	1401000102
140100010209	Tenmile Creek	23,742	Fraser River	1401000102
140100010210	Lower Fraser River	16,505	Fraser River	1401000102
140100010301	Baker Gulch	13,150	Headwaters Colorado River	1401000103
140100010302	Headwaters Colorado River	27,632	Headwaters Colorado River	1401000103
140100010303	Onahu Creek-Colorado River	24,368	Headwaters Colorado River	1401000103
140100010304	East Inlet	18,019	Headwaters Colorado River	1401000103
140100010305	North Inlet	29,333	Headwaters Colorado River	1401000103
140100010306	Stillwater Creek	11,228	Headwaters Colorado River	1401000103
140100010307	Arapaho Creek	30,877	Headwaters Colorado River	1401000103
140100010308	Lake Granby	44,897	Headwaters Colorado River	1401000103
140100010309	Smith Creek-Colorado River	14,553	Headwaters Colorado River	1401000103
140100010401	South Fork Williams Fork	17,754	Williams Fork	1401000104
140100010402	Headwaters Williams Fork	28,310	Williams Fork	1401000104
140100010403	Keyser Creek	17,458	Williams Fork	1401000104
140100010404	Upper Williams Fork	25,795	Williams Fork	1401000104
140100010405	Middle Williams Fork	16,379	Williams Fork	1401000104
140100010406	Battle Creek	17,202	Williams Fork	1401000104
140100010407	Lower Williams Fork and Reservoir	25,325	Williams Fork	1401000104
140100010501	Drowsy Water Creek-Colorado River	29,178	Little Muddy Creek	1401000105
140100010502	Beaver Creek	11,757	Little Muddy Creek	1401000105
140100010503	Little Muddy Creek LMC	18,403	Little Muddy Creek	1401000105
140100010504	Ute Bill Creek-Colorado River	16,620	Little Muddy Creek	1401000105

12 code HUC	Sixth-level Watershed Name	Acres	Fifth-level HUC Name	10 code HUC
140100010601	Corral Creek-Colorado River	22,451	Troublesome Creek	1401000106
140100010602	Middle Fork Creek	12,536	Troublesome Creek	1401000106
140100010603	East Fork Troublesome Creek	35,917	Troublesome Creek	1401000106
140100010604	Rabbit Ears Creek-Troublesome	36,168	Troublesome Creek	1401000106
140100010701	Little Muddy Creek MC	21,219	Muddy Creek	1401000107
140100010702	Milk Creek-Muddy Creek	26,691	Muddy Creek	1401000107
140100010703	Upper Muddy Creek	33,430	Muddy Creek	1401000107
140100010704	Middle Muddy Creek	13,263	Muddy Creek	1401000107
140100010705	Antelope Creek	14,482	Muddy Creek	1401000107
140100010706	Red Dirt Creek	23,545	Muddy Creek	1401000107
140100010707	Pass Creek	15,974	Muddy Creek	1401000107
140100010708	Wolford Mountain Reservoir	24,098	Muddy Creek	1401000107
140100010901	Sheep Creek-Colorado River	13,845	Sheephorn Creek	1401000109
	Total Area	1,015,917		

Legend

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

Wildfire Hazard Calculations

Sixth-level Watershed Name	Category 1 (acres)	Category 2 (acres)	Category 3 (acres)	Category 4 (acres)	Wildfire Value	Wildfire Hazard Rank
Headwaters Willow Creek	5,662.7	454.1	2,948.7	5,216.4	85.00%	5.5
Upper Willow Creek	13,338.5	5,158.8	14,072.2	5,284.2	65.13%	4.3
Middle Willow Creek	6,787.6	3,193.7	7,162.3	3,306.0	67.41%	4.4
Lower Willow Creek	13,175.9	1,331.2	2,454.3	1,090.4	26.11%	1.9
Vasquez Creek	8,910.3	862.4	3,693.2	4,420.2	70.13%	4.6
Upper Fraser River	11,089.3	457.9	3,117.5	4,727.1	64.87%	4.3
Saint Louis Creek	8,760.6	1,458.9	8,925.8	5,338.9	80.13%	5.2
Headwaters Ranch Creek	5,323.8	385.6	3,315.4	3,745.5	84.67%	5.5
Meadows Creek-Ranch Creek	11,546.3	3,216.6	8,452.8	6,679.9	73.31%	4.8
Middle Fraser River	4,861.4	845.7	3,859.4	2,138.3	69.57%	4.6
Crooked Creek	13,717.7	1,686.8	6,616.3	4,362.6	58.18%	3.9
Strawberry Creek	2,612.2	2,242.8	4,243.2	1,714.4	70.99%	4.7
Tenmile Creek	17,034.9	1,420.4	4,001.5	1,301.2	27.82%	2.0
Lower Fraser River	10,891.1	2,434.5	2,434.3	757.9	23.93%	1.8
Baker Gulch	6,974.6	207.0	2,858.2	3,117.0	69.14%	4.5
Headwaters Colorado River	15,231.7	466.6	4,077.1	7,875.3	71.76%	4.7
Onahu Creek-Colorado River	9,826.5	1,164.7	8,711.5	4,679.5	74.16%	4.8
East Inlet	11,766.7	736.8	2,579.3	2,949.6	47.14%	3.2
North Inlet	18,634.7	817.5	3,726.6	6,173.8	54.86%	3.7
Stillwater Creek	6,052.1	970.7	3,217.5	996.5	46.41%	3.2
Arapaho Creek	19,299.4	1,311.7	4,621.7	5,666.3	51.90%	3.5
Lake Granby	25,910.9	2,934.4	10,966.9	5,115.6	58.78%	3.9
Smith Creek-Colorado River	10,864.2	1,057.7	2,301.1	343.4	20.53%	1.6
South Fork Williams Fork	9,915.0	1,084.4	3,581.4	3,184.0	56.04%	3.8
Headwaters Williams Fork	14,918.4	1,869.2	6,213.8	5,323.3	59.56%	4.0
Keyser Creek	7,962.5	1,466.2	4,287.0	3,751.9	67.54%	4.4
Upper Williams Fork	10,724.1	2,037.8	9,491.6	3,558.9	64.55%	4.3
Middle Williams Fork	7,619.1	1,124.8	6,070.4	1,569.6	56.23%	3.8
Battle Creek	11,029.0	1,420.4	3,925.9	837.1	32.55%	2.3
Lower Williams Fork and	20,304.2	890.9	3,097.4	1,046.8	21.65%	1.7
Drowsy Water Creek-Colorado	19,890.1	2,950.0	4,349.5	2,007.1	28.66%	2.1
Beaver Creek	6,552.7	1,224.9	2,690.5	1,295.4	44.92%	3.1
Little Muddy Creek LMC	11,101.7	879.1	5,918.0	516.4	37.87%	2.7
Ute Bill Creek-Colorado River	13,868.2	628.3	1,343.0	786.8	17.55%	1.4

Sixth-level Watershed Name	Category 1 (acres)	Category 2 (acres)	Category 3 (acres)	Category 4 (acres)	Wildfire Value	Wildfire Hazard Rank
Corral Creek-Colorado River	15,567.5	816.4	4,911.0	1,166.2	32.26%	2.3
Middle Fork Creek	4,901.0	1,432.0	5,451.0	758.1	55.58%	3.7
East Fork Troublesome Creek	15,970.0	3,316.9	13,228.6	3,422.8	55.89%	3.7
Rabbit Ears Creek-Troublesome	16,601.0	2,801.0	9,009.2	7,778.8	68.01%	4.5
Little Muddy Creek MC	18,498.4	1,085.0	878.0	759.7	11.38%	1.1
Milk Creek-Muddy Creek	18,799.1	2,209.4	3,555.3	2,137.6	29.39%	2.1
Upper Muddy Creek	31,392.1	559.3	650.7	846.4	7.01%	0.8
Middle Muddy Creek	12,506.1	310.5	252.0	196.8	4.87%	0.7
Antelope Creek	13,008.3	515.9	547.1	414.3	9.50%	0.9
Red Dirt Creek	15,387.4	1,134.6	3,841.8	3,187.3	43.75%	3.0
Pass Creek	10,515.0	1,040.6	2,955.6	1,469.3	37.03%	2.6
Wolford Mountain Reservoir	23,640.1	139.4	180.4	151.0	2.14%	0.5
Sheep Creek-Colorado River	9,847.0	868.2	2,719.6	415.4	25.64%	1.9
Totals	598,791.1	66,622.0	217,505.4	133,581.2	48.32%	

Wildfire Hazard Categories

Min	0.02139	
Max	0.85000	
Range	0.82861	
Step	0.16572	
Category	From	To
1	0.0214	0.1871
2	0.1871	0.3528
3	0.3528	0.5186
4	0.5186	0.6843
5	0.6843	0.8500

Wildfire Hazard

Sixth-level Watershed Name	Watershed Area (acres)	Wildfire Hazard Calculation	Wildfire Rank
Headwaters Willow Creek	14,274	85.0%	5.5
Headwaters Ranch Creek	12,763	84.7%	5.5
Saint Louis Creek	24,465	80.1%	5.2
Onahu Creek-Colorado River	24,368	74.2%	4.8
Meadows Creek-Ranch Creek	29,752	73.3%	4.8
Headwaters Colorado River	27,632	71.8%	4.7
Strawberry Creek	10,807	71.0%	4.7
Vasquez Creek	17,871	70.1%	4.6
Middle Fraser River	11,694	69.6%	4.6
Baker Gulch	13,150	69.1%	4.5
Rabbit Ears Creek-Troublesome Creek	36,120	68.0%	4.5
Keyser Creek	17,458	67.5%	4.4
Middle Willow Creek	20,435	67.4%	4.4
Upper Willow Creek	37,834	65.1%	4.3
Upper Fraser River	19,380	64.9%	4.3
Upper Williams Fork	25,731	64.6%	4.3
Headwaters Williams Fork	28,310	59.6%	4.0
Lake Granby	36,066	58.8%	3.9
Crooked Creek	26,368	58.2%	3.9
Middle Williams Fork	16,379	56.2%	3.8
South Fork Williams Fork	17,754	56.0%	3.8
East Fork Troublesome Creek	35,917	55.9%	3.7
Middle Fork Creek	12,536	55.6%	3.7
North Inlet	29,302	54.9%	3.7
Arapaho Creek	30,740	51.9%	3.5
East Inlet	17,986	47.1%	3.2
Stillwater Creek	11,228	46.4%	3.2
Beaver Creek	11,757	44.9%	3.1
Red Dirt Creek	23,350	43.8%	3.0
Little Muddy Creek LMC	18,354	37.9%	2.7
Pass Creek	15,917	37.0%	2.6
Battle Creek	17,202	32.6%	2.3
Corral Creek-Colorado River	22,451	32.3%	2.3
Milk Creek-Muddy Creek	26,648	29.4%	2.1

Sixth-level Watershed Name	Watershed Area (acres)	Wildfire Hazard Calculation	Wildfire Rank
Drowsy Water Creek-Colorado River	29,178	28.7%	2.1
Tenmile Creek	23,742	27.8%	2.0
Lower Willow Creek	17,754	26.1%	1.9
Sheep Creek-Colorado River	13,845	25.6%	1.9
Lower Fraser River	16,505	23.9%	1.8
Lower Williams Fork and Reservoir	23,977	21.7%	1.7
Smith Creek-Colorado River	14,553	20.5%	1.6
Ute Bill Creek-Colorado River	16,620	17.5%	1.4
Little Muddy Creek MC	21,075	11.4%	1.1
Antelope Creek	14,482	9.5%	0.9
Upper Muddy Creek	33,430	7.0%	0.8
Middle Muddy Creek	13,263	4.9%	0.7
Wolford Mountain Reservoir	22,548	2.1%	0.5

Ruggedness Calculations

Sixth-level Watershed Name	Watershed Area (sq. ft.)	Maximum Elevation	Minimum Elevation	Difference Elevation	Ruggedness	Ruggedness Rank	Adjustments
Headwaters Willow Creek	621,775,440	12,313	8,892	3,420	0.1372	3.7	1
Upper Willow Creek	824,024,520	12,297	8,430	3,866	0.1347	3.5	2
Middle Willow Creek	508,656,343	11,495	8,194	3,300	0.1463	4.1	1.75
Lower Willow Creek	785,996,640	11,620	7,942	3,677	0.1312	3.4	1
Vasquez Creek	778,460,760	12,929	8,735	4,194	0.1503	4.3	1
Upper Fraser River	844,192,800	13,333	8,740	4,594	0.1581	4.6	1
Saint Louis Creek	1,065,695,400	12,810	8,526	4,284	0.1312	3.4	1
Headwaters Ranch Creek	444,765,024	12,290	8,706	3,584	0.1700	5.2	1.25
Meadows Creek-Ranch Creek	867,657,120	12,871	8,317	4,554	0.1546	4.5	1.5
Middle Fraser River	509,390,640	11,917	8,317	3,600	0.1595	4.7	1
Crooked Creek	918,872,064	11,775	8,280	3,495	0.1153	2.6	1.25
Strawberry Creek	470,752,920	10,614	8,046	2,568	0.1184	2.8	1
Tenmile Creek	827,361,216	10,550	7,908	2,642	0.0918	1.5	1.25
Lower Fraser River	575,166,240	9,887	7,841	2,046	0.0853	1.2	1.25
Baker Gulch	572,814,000	12,651	8,766	3,885	0.1623	4.8	1
Headwaters Colorado River	802,433,280	12,901	8,766	4,135	0.1460	4.1	1.5
Onahu Creek-Colorado River	849,176,064	12,848	8,372	4,476	0.1536	4.4	1.25
East Inlet	784,907,640	13,306	8,374	4,932	0.1760	5.5	1
North Inlet	851,830,320	13,286	8,374	4,912	0.1683	5.1	1.5
Stillwater Creek	489,091,680	11,769	8,288	3,482	0.1574	4.6	1
Arapaho Creek	896,668,080	13,504	8,291	5,213	0.1741	5.4	1.5
Lake Granby	1,955,713,320	12,383	8,280	4,103	0.0928	1.5	1
Smith Creek-Colorado River	633,928,680	9,743	7,842	1,901	0.0755	0.7	1
South Fork Williams Fork	773,364,240	13,121	8,912	4,210	0.1514	4.3	1
Headwaters Williams Fork	822,122,400	13,500	8,912	4,588	0.1600	4.7	1.5
Keyser Creek	760,470,480	12,756	8,439	4,316	0.1565	4.6	1
Upper Williams Fork	749,086,800	12,650	8,439	4,212	0.1539	4.4	1.5
Middle Williams Fork	475,646,160	11,602	8,143	3,459	0.1586	4.7	1.5
Battle Creek	499,546,080	11,199	7,808	3,391	0.1517	4.3	1.5
Lower Williams Fork and	735,438,000	11,566	7,484	4,082	0.1505	4.3	1.5
Drowsy Water Creek-Colorado	635,496,840	11,398	7,685	3,713	0.1473	4.1	2
Beaver Creek	512,134,920	10,733	7,554	3,179	0.1405	3.8	1
Little Muddy Creek LMC	534,423,120	10,290	7,534	2,756	0.1192	2.8	1.5

Sixth-level Watershed Name	Watershed Area (sq. ft.)	Maximum Elevation	Minimum Elevation	Difference Elevation	Ruggedness	Ruggedness Rank	Adjustments
Ute Bill Creek-Colorado River	723,967,200	10,961	7,482	3,479	0.1293	3.3	1
Corral Creek-Colorado River	977,965,560	11,398	7,426	3,971	0.1270	3.2	1
Middle Fork Creek	436,854,528	11,443	8,391	3,052	0.1460	4.1	1.25
East Fork Troublesome Creek	1,564,544,520	12,288	7,654	4,634	0.1171	2.7	1
Rabbit Ears Creek-Troublesome	900,273,189	11,816	7,656	4,160	0.1387	3.7	1.75
Little Muddy Creek MC	924,299,640	10,054	7,899	2,155	0.0709	0.5	1
Milk Creek-Muddy Creek	775,106,640	10,651	7,899	2,752	0.0989	1.8	1.5
Upper Muddy Creek	728,105,400	10,934	7,608	3,326	0.1232	3.0	2
Middle Muddy Creek	577,736,280	10,845	7,498	3,347	0.1392	3.8	1
Antelope Creek	630,835,920	10,848	7,499	3,348	0.1333	3.5	1
Red Dirt Creek	1,025,620,200	10,800	7,485	3,315	0.1035	2.1	1
Pass Creek	695,827,440	10,532	7,486	3,046	0.1155	2.6	1
Wolford Mountain Reservoir	524,854,440	9,374	7,372	2,002	0.0874	1.3	2
Sheep Creek-Colorado River	603,088,200	10,493	7,301	3,192	0.1300	3.3	1

Ruggedness Categories

Min	0.07089	
Max	0.17604	
Range	0.10515	
Step	0.02103	
Category	From	To
1	0.0709	0.0919
2	0.0919	0.1130
3	0.1130	0.1340
4	0.1340	0.1550
5	0.1550	0.1760

Ruggedness

Sixth-level Watershed Name	Maximum Elevation	Minimum Elevation	Difference Elevation	Ruggedness	Ruggedness Rank
East Inlet	13,306	8,374	4,932	0.1760	5.5
Arapaho Creek	13,504	8,291	5,213	0.1741	5.4
Headwaters Ranch Creek	12,290	8,706	3,584	0.1700	5.2
North Inlet	13,286	8,374	4,912	0.1683	5.1
Baker Gulch	12,651	8,766	3,885	0.1623	4.8
Headwaters Williams Fork	13,500	8,912	4,588	0.1600	4.7
Middle Fraser River	11,917	8,317	3,600	0.1595	4.7
Middle Williams Fork	11,602	8,143	3,459	0.1586	4.7
Upper Fraser River	13,333	8,740	4,594	0.1581	4.6
Stillwater Creek	11,769	8,288	3,482	0.1574	4.6
Keyser Creek	12,756	8,439	4,316	0.1565	4.6
Meadows Creek-Ranch Creek	12,871	8,317	4,554	0.1546	4.5
Upper Williams Fork	12,650	8,439	4,212	0.1539	4.4
Onahu Creek-Colorado River	12,848	8,372	4,476	0.1536	4.4
Battle Creek	11,199	7,808	3,391	0.1517	4.3
South Fork Williams Fork	13,121	8,912	4,210	0.1514	4.3
Lower Williams Fork and Reservoir	11,566	7,484	4,082	0.1505	4.3
Vasquez Creek	12,929	8,735	4,194	0.1503	4.3
Drowsy Water Creek-Colorado River	11,398	7,685	3,713	0.1473	4.1
Middle Willow Creek	11,495	8,194	3,300	0.1463	4.1
Middle Fork Creek	11,443	8,391	3,052	0.1460	4.1
Headwaters Colorado River	12,901	8,766	4,135	0.1460	4.1
Beaver Creek	10,733	7,554	3,179	0.1405	3.8
Middle Muddy Creek	10,845	7,498	3,347	0.1392	3.8
Rabbit Ears Creek-Troublesome Creek	11,816	7,656	4,160	0.1387	3.7
Headwaters Willow Creek	12,313	8,892	3,420	0.1372	3.7
Upper Willow Creek	12,297	8,430	3,866	0.1347	3.5
Antelope Creek	10,848	7,499	3,348	0.1333	3.5
Saint Louis Creek	12,810	8,526	4,284	0.1312	3.4
Lower Willow Creek	11,620	7,942	3,677	0.1312	3.4
Sheep Creek-Colorado River	10,493	7,301	3,192	0.1300	3.3
Ute Bill Creek-Colorado River	10,961	7,482	3,479	0.1293	3.3
Corral Creek-Colorado River	11,398	7,426	3,971	0.1270	3.2

Sixth-level Watershed Name	Maximum Elevation	Minimum Elevation	Difference Elevation	Ruggedness	Ruggedness Rank
Upper Muddy Creek	10,934	7,608	3,326	0.1232	3.0
Little Muddy Creek LMC	10,290	7,534	2,756	0.1192	2.8
Strawberry Creek	10,614	8,046	2,568	0.1184	2.8
East Fork Troublesome Creek	12,288	7,654	4,634	0.1171	2.7
Pass Creek	10,532	7,486	3,046	0.1155	2.6
Crooked Creek	11,775	8,280	3,495	0.1153	2.6
Red Dirt Creek	10,800	7,485	3,315	0.1035	2.1
Milk Creek-Muddy Creek	10,651	7,899	2,752	0.0989	1.8
Lake Granby	12,383	8,280	4,103	0.0928	1.5
Tenmile Creek	10,550	7,908	2,642	0.0918	1.5
Wolford Mountain Reservoir	9,374	7,372	2,002	0.0874	1.3
Lower Fraser River	9,887	7,841	2,046	0.0853	1.2
Smith Creek-Colorado River	9,743	7,842	1,901	0.0755	0.7
Little Muddy Creek MC	10,054	7,899	2,155	0.0709	0.5

Road Density Calculations

Sixth-level Watershed Name	Roads (miles)	Roads Adjusted (miles)	Watershed Area (sq. mi.)	Road density (miles per sq. mi.)	Road Density Rank
Headwaters Willow Creek	50.3	50.3	22.30	2.25	3.7
Upper Willow Creek	126.1	126.1	59.12	2.13	3.6
Middle Willow Creek	54.4	54.4	31.93	1.70	2.9
Lower Willow Creek	68.2	68.2	27.74	2.46	4.0
Vasquez Creek	46.9	46.9	27.92	1.68	2.9
Upper Fraser River	96.7	96.7	30.28	3.19	5.1
Saint Louis Creek	63.4	63.4	38.23	1.66	2.9
Headwaters Ranch Creek	44.9	44.9	19.94	2.25	3.7
Meadows Creek-Ranch Creek	117.5	117.5	46.49	2.53	4.1
Middle Fraser River	95.2	63.8	18.27	3.49	5.5
Crooked Creek	144.3	96.7	41.20	2.35	3.9
Strawberry Creek	7.1	7.1	16.89	0.42	1.1
Tenmile Creek	120.7	80.9	37.10	2.18	3.6
Lower Fraser River	76.5	51.3	25.79	1.99	3.3
Baker Gulch	9.4	9.4	20.55	0.46	1.2
Headwaters Colorado River	37.8	37.8	43.18	0.88	1.8
Onahu Creek-Colorado River	61.7	61.7	38.08	1.62	2.8
East Inlet	0.0	0.0	28.10	0.00	0.5
North Inlet	3.1	3.1	45.78	0.07	0.6
Stillwater Creek	34.0	34.0	17.54	1.94	3.3
Arapaho Creek	16.3	16.3	48.03	0.34	1.0
Lake Granby	146.1	97.9	56.35	1.74	3.0
Smith Creek-Colorado River	52.4	52.4	22.74	2.31	3.8
South Fork Williams Fork	7.8	7.8	27.74	0.28	0.9
Headwaters Williams Fork	22.8	22.8	44.23	0.51	1.2
Keyser Creek	63.6	63.6	27.28	2.33	3.8
Upper Williams Fork	55.7	55.7	40.20	1.38	2.5
Middle Williams Fork	29.3	29.3	25.59	1.14	2.1
Battle Creek	47.4	47.4	26.88	1.76	3.0
Lower Williams Fork and Reservoir	82.7	82.7	37.46	2.21	3.7
Drowsy Water Creek-Colorado River	82.3	82.3	45.59	1.81	3.1
Beaver Creek	53.8	53.8	18.37	2.93	4.7
Little Muddy Creek LMC	40.2	40.2	28.68	1.40	2.5

Sixth-level Watershed Name	Roads (miles)	Roads Adjusted (miles)	Watershed Area (sq. mi.)	Road density (miles per sq. mi.)	Road Density Rank
Ute Bill Creek-Colorado River	73.8	49.5	25.97	1.90	3.2
Corral Creek-Colorado River	102.4	102.4	35.08	2.92	4.7
Middle Fork Creek	3.1	3.1	19.59	0.16	0.7
East Fork Troublesome Creek	22.0	22.0	56.12	0.39	1.1
Rabbit Ears Creek-Troublesome Creek	65.1	65.1	56.44	1.15	2.2
Little Muddy Creek MC	48.8	48.8	32.93	1.48	2.6
Milk Creek-Muddy Creek	104.0	104.0	41.64	2.50	4.1
Upper Muddy Creek	87.2	87.2	52.23	1.67	2.9
Middle Muddy Creek	36.0	36.0	20.72	1.74	3.0
Antelope Creek	34.7	34.7	22.63	1.53	2.7
Red Dirt Creek	60.1	60.1	36.48	1.65	2.9
Pass Creek	79.8	79.8	24.87	3.21	5.1
Wolford Mountain Reservoir	58.5	58.5	35.23	1.66	2.9
Sheep Creek-Colorado River	35.6	35.6	21.63	1.65	2.9
Totals	2,769.8	2,553.1	1,567.1	1.63	

Road Density Categories

Min	0.00080	
Max	3.49174	
Range	3.49093	
Step	0.69819	
Category	From	To
1	0.0008	0.6990
2	0.6990	1.3972
3	1.3972	2.0954
4	2.0954	2.7935
5	2.7935	3.4917

Road Density

Sixth-level Watershed Name	Roads (miles)	Roads Adjusted (miles)	Watershed Area (sq.mi.)	Road density (miles per sq.mi.)	Road Density Rank
Middle Fraser River	95.2	63.8	18.27	3.49	5.5
Pass Creek	79.8	79.8	24.87	3.21	5.1
Upper Fraser River	96.7	96.7	30.28	3.19	5.1
Beaver Creek	53.8	53.8	18.37	2.93	4.7
Corral Creek-Colorado River	102.4	102.4	35.08	2.92	4.7
Meadows Creek-Ranch Creek	117.5	117.5	46.49	2.53	4.1
Milk Creek-Muddy Creek	104.0	104.0	41.64	2.50	4.1
Lower Willow Creek	68.2	68.2	27.74	2.46	4.0
Crooked Creek	144.3	96.7	41.20	2.35	3.9
Keyser Creek	63.6	63.6	27.28	2.33	3.8
Smith Creek-Colorado River	52.4	52.4	22.74	2.31	3.8
Headwaters Willow Creek	50.3	50.3	22.30	2.25	3.7
Headwaters Ranch Creek	44.9	44.9	19.94	2.25	3.7
Lower Williams Fork and Reservoir	82.7	82.7	37.46	2.21	3.7
Tenmile Creek	120.7	80.9	37.10	2.18	3.6
Upper Willow Creek	126.1	126.1	59.12	2.13	3.6
Lower Fraser River	76.5	51.3	25.79	1.99	3.3
Stillwater Creek	34.0	34.0	17.54	1.94	3.3
Ute Bill Creek-Colorado River	73.8	49.5	25.97	1.90	3.2
Drowsy Water Creek-Colorado River	82.3	82.3	45.59	1.81	3.1
Battle Creek	47.4	47.4	26.88	1.76	3.0
Lake Granby	146.1	97.9	56.35	1.74	3.0
Middle Muddy Creek	36.0	36.0	20.72	1.74	3.0
Middle Willow Creek	54.4	54.4	31.93	1.70	2.9
Vasquez Creek	46.9	46.9	27.92	1.68	2.9
Upper Muddy Creek	87.2	87.2	52.23	1.67	2.9
Wolford Mountain Reservoir	58.5	58.5	35.23	1.66	2.9
Saint Louis Creek	63.4	63.4	38.23	1.66	2.9
Sheep Creek-Colorado River	35.6	35.6	21.63	1.65	2.9
Red Dirt Creek	60.1	60.1	36.48	1.65	2.9
Onahu Creek-Colorado River	61.7	61.7	38.08	1.62	2.8
Antelope Creek	34.7	34.7	22.63	1.53	2.7
Little Muddy Creek MC	48.8	48.8	32.93	1.48	2.6

Sixth-level Watershed Name	Roads (miles)	Roads Adjusted (miles)	Watershed Area (sq.mi.)	Road density (miles per sq.mi.)	Road Density Rank
Little Muddy Creek LMC	40.2	40.2	28.68	1.40	2.5
Upper Williams Fork	55.7	55.7	40.20	1.38	2.5
Rabbit Ears Creek-Troublesome Creek	65.1	65.1	56.44	1.15	2.2
Middle Williams Fork	29.3	29.3	25.59	1.14	2.1
Headwaters Colorado River	37.8	37.8	43.18	0.88	1.8
Headwaters Williams Fork	22.8	22.8	44.23	0.51	1.2
Baker Gulch	9.4	9.4	20.55	0.46	1.2
Strawberry Creek	7.1	7.1	16.89	0.42	1.1
East Fork Troublesome Creek	22.0	22.0	56.12	0.39	1.1
Arapaho Creek	16.3	16.3	48.03	0.34	1.0
South Fork Williams Fork	7.8	7.8	27.74	0.28	0.9
Middle Fork Creek	3.1	3.1	19.59	0.16	0.7
North Inlet	3.1	3.1	45.78	0.07	0.6
East Inlet	0.0	0.0	28.10	0.00	0.5

Flooding Debris Flow Risk Calculations

Sixth-level Watershed Name	Ruggedness	Ruggedness Rank	Road density (mi per sq.mi.)	Road Density Rank	Combined Numeric Rank	Combined Ranking
Headwaters Willow Creek	0.1372	3.7	2.25	3.7	11.03	3.8
Upper Willow Creek	0.1347	3.5	2.13	3.6	10.62	3.6
Middle Willow Creek	0.1463	4.1	1.70	2.9	11.11	3.8
Lower Willow Creek	0.1312	3.4	2.46	4.0	10.75	3.7
Vasquez Creek	0.1503	4.3	1.68	2.9	11.46	4.0
Upper Fraser River	0.1581	4.6	3.19	5.1	14.37	5.3
Saint Louis Creek	0.1312	3.4	1.66	2.9	9.61	3.1
Headwaters Ranch Creek	0.1700	5.2	2.25	3.7	14.15	5.2
Meadows Creek-Ranch Creek	0.1546	4.5	2.53	4.1	13.08	4.7
Middle Fraser River	0.1595	4.7	3.49	5.5	14.93	5.5
Crooked Creek	0.1153	2.6	2.35	3.9	9.08	2.9
Strawberry Creek	0.1184	2.8	0.42	1.1	6.62	1.8
Tenmile Creek	0.0918	1.5	2.18	3.6	6.61	1.8
Lower Fraser River	0.0853	1.2	1.99	3.3	5.72	1.4
Baker Gulch	0.1623	4.8	0.46	1.2	10.85	3.7
Headwaters Colorado River	0.1460	4.1	0.88	1.8	9.90	3.3
Onahu Creek-Colorado River	0.1536	4.4	1.62	2.8	11.68	4.1
East Inlet	0.1760	5.5	0.00	0.5	11.50	4.0
North Inlet	0.1683	5.1	0.07	0.6	10.86	3.7
Stillwater Creek	0.1574	4.6	1.94	3.3	12.50	4.4
Arapaho Creek	0.1741	5.4	0.34	1.0	11.80	4.1
Lake Granby	0.0928	1.5	1.74	3.0	6.07	1.6
Smith Creek-Colorado River	0.0755	0.7	2.31	3.8	5.24	1.2
South Fork Williams Fork	0.1514	4.3	0.28	0.9	9.56	3.1
Headwaters Williams Fork	0.1600	4.7	0.51	1.2	10.71	3.6
Keyser Creek	0.1565	4.6	2.33	3.8	12.98	4.6
Upper Williams Fork	0.1539	4.4	1.38	2.5	11.38	3.9
Middle Williams Fork	0.1586	4.7	1.14	2.1	11.48	4.0
Battle Creek	0.1517	4.3	1.76	3.0	11.71	4.1
Lower Williams Fork and Reservoir	0.1505	4.3	2.21	3.7	12.23	4.3
Drowsy Water Creek-Colorado River	0.1473	4.1	1.81	3.1	11.35	3.9
Beaver Creek	0.1405	3.8	2.93	4.7	12.31	4.3
Little Muddy Creek LMC	0.1192	2.8	1.40	2.5	8.10	2.5

Sixth-level Watershed Name	Ruggedness	Ruggedness Rank	Road density (mi per sq.mi.)	Road Density Rank	Combined Numeric Rank	Combined Ranking
Ute Bill Creek-Colorado River	0.1293	3.3	1.90	3.2	9.78	3.2
Corral Creek-Colorado River	0.1270	3.2	2.92	4.7	11.01	3.8
Middle Fork Creek	0.1460	4.1	0.16	0.7	8.87	2.8
East Fork Troublesome Creek	0.1171	2.7	0.39	1.1	6.46	1.8
Rabbit Ears Creek-Troublesome Creek	0.1387	3.7	1.15	2.2	9.60	3.1
Little Muddy Creek MC	0.0709	0.5	1.48	2.6	3.62	0.5
Milk Creek-Muddy Creek	0.0989	1.8	2.50	4.1	7.74	2.3
Upper Muddy Creek	0.1232	3.0	1.67	2.9	8.87	2.8
Middle Muddy Creek	0.1392	3.8	1.74	3.0	10.49	3.5
Antelope Creek	0.1333	3.5	1.53	2.7	9.63	3.2
Red Dirt Creek	0.1035	2.1	1.65	2.9	6.96	2.0
Pass Creek	0.1155	2.6	3.21	5.1	10.33	3.5
Wolford Mountain Reservoir	0.0874	1.3	1.66	2.9	5.45	1.3
Sheep Creek-Colorado River	0.1300	3.3	1.65	2.9	9.48	3.1

Flooding Categories

Min	3.61976	
Max	14.92855	
Range	11.30879	
Step	2.26176	
Category	From	To
1	3.6198	5.8815
2	5.8815	8.1433
3	8.1433	10.4050
4	10.4050	12.6668
5	12.6668	14.9286

Flooding Debris Flow Hazard

Sixth-level Watershed Name	Ruggedness Ranking	Road Density Ranking	Combined Numeric Rank	Combined Ranking
Middle Fraser River	4.7	5.5	14.93	5.5
Upper Fraser River	4.6	5.1	14.37	5.3
Headwaters Ranch Creek	5.2	3.7	14.15	5.2
Meadows Creek-Ranch Creek	4.5	4.1	13.08	4.7
Keyser Creek	4.6	3.8	12.98	4.6
Stillwater Creek	4.6	3.3	12.50	4.4
Beaver Creek	3.8	4.7	12.31	4.3
Lower Williams Fork and Reservoir	4.3	3.7	12.23	4.3
Arapaho Creek	5.4	1.0	11.80	4.1
Battle Creek	4.3	3.0	11.71	4.1
Onahu Creek-Colorado River	4.4	2.8	11.68	4.1
East Inlet	5.5	0.5	11.50	4.0
Middle Williams Fork	4.7	2.1	11.48	4.0
Vasquez Creek	4.3	2.9	11.46	4.0
Upper Williams Fork	4.4	2.5	11.38	3.9
Drowsy Water Creek-Colorado River	4.1	3.1	11.35	3.9
Middle Willow Creek	4.1	2.9	11.11	3.8
Headwaters Willow Creek	3.7	3.7	11.03	3.8
Corral Creek-Colorado River	3.2	4.7	11.01	3.8
North Inlet	5.1	0.6	10.86	3.7
Baker Gulch	4.8	1.2	10.85	3.7
Lower Willow Creek	3.4	4.0	10.75	3.7
Headwaters Williams Fork	4.7	1.2	10.71	3.6
Upper Willow Creek	3.5	3.6	10.62	3.6
Middle Muddy Creek	3.8	3.0	10.49	3.5
Pass Creek	2.6	5.1	10.33	3.5
Headwaters Colorado River	4.1	1.8	9.90	3.3
Ute Bill Creek-Colorado River	3.3	3.2	9.78	3.2
Antelope Creek	3.5	2.7	9.63	3.2
Saint Louis Creek	3.4	2.9	9.61	3.1
Rabbit Ears Creek-Troublesome Creek	3.7	2.2	9.60	3.1
South Fork Williams Fork	4.3	0.9	9.56	3.1
Sheep Creek-Colorado River	3.3	2.9	9.48	3.1
Crooked Creek	2.6	3.9	9.08	2.9

Sixth-level Watershed Name	Ruggedness Ranking	Road Density Ranking	Combined Numeric Rank	Combined Ranking
Middle Fork Creek	4.1	0.7	8.87	2.8
Upper Muddy Creek	3.0	2.9	8.87	2.8
Little Muddy Creek LMC	2.8	2.5	8.10	2.5
Milk Creek-Muddy Creek	1.8	4.1	7.74	2.3
Red Dirt Creek	2.1	2.9	6.96	2.0
Strawberry Creek	2.8	1.1	6.62	1.8
Tenmile Creek	1.5	3.6	6.61	1.8
East Fork Troublesome Creek	2.7	1.1	6.46	1.8
Lake Granby	1.5	3.0	6.07	1.6
Lower Fraser River	1.2	3.3	5.72	1.4
Wolford Mountain Reservoir	1.3	2.9	5.45	1.3
Smith Creek-Colorado River	0.7	3.8	5.24	1.2
Little Muddy Creek MC	0.5	2.6	3.62	0.5

Soil Erodibility Calculations

Sixth-level Watershed Name	Severe (acres)	Severe (%)	Very Severe (acres)	Very Severe (%)	Soil Erodibility Value	Adjust- ments	Soil Erodibility Rank
Headwaters Willow Creek	2,342.0	16.4%	624.0	4.4%	0.252	0.000	2.2
Upper Willow Creek	5,721.2	15.1%	1,555.6	4.1%	0.233	0.001	2.0
Middle Willow Creek	4,414.2	21.6%	1,250.3	6.1%	0.338	0.000	2.8
Lower Willow Creek	3,111.9	17.5%	677.0	3.8%	0.252	0.045	2.5
Vasquez Creek	3,393.7	19.0%	1,475.1	8.3%	0.355	0.000	3.0
Upper Fraser River	3,963.7	20.5%	1,889.0	9.7%	0.399	0.132	4.3
Saint Louis Creek	4,802.1	19.6%	2,081.1	8.5%	0.366	0.001	3.1
Headwaters Ranch Creek	2,544.1	19.9%	653.2	5.1%	0.302	0.001	2.6
Meadows Creek-Ranch Creek	5,381.2	18.1%	1,628.3	5.5%	0.290	0.016	2.6
Middle Fraser River	1,276.1	10.9%	185.9	1.6%	0.141	0.026	1.5
Crooked Creek	3,875.1	14.7%	704.3	2.7%	0.200	0.000	1.8
Strawberry Creek	2,672.5	24.7%	776.1	7.2%	0.391	0.000	3.2
Tenmile Creek	3,097.0	13.0%	696.5	2.9%	0.189	0.046	2.1
Lower Fraser River	2,781.4	16.9%	949.8	5.8%	0.284	0.010	2.5
Baker Gulch	1,680.2	12.8%	766.1	5.8%	0.244	0.000	2.1
Headwaters Colorado River	6,616.5	23.9%	4,519.4	16.4%	0.567	0.143	5.7
Onahu Creek-Colorado River	2,533.7	10.4%	983.0	4.0%	0.185	0.003	1.7
East Inlet	4,506.5	25.1%	3,942.8	21.9%	0.689	0.000	5.5
North Inlet	7,419.4	25.3%	5,460.3	18.6%	0.626	0.000	5.0
Stillwater Creek	1,650.8	14.7%	313.3	2.8%	0.203	0.055	2.2
Arapaho Creek	5,747.4	18.7%	4,863.4	15.8%	0.503	0.000	4.1
Lake Granby	6,206.2	17.2%	2,832.6	7.9%	0.329	0.015	2.9
Smith Creek-Colorado River	919.1	6.3%	200.8	1.4%	0.091	0.029	1.2
South Fork Williams Fork	5,296.0	29.8%	3,072.5	17.3%	0.644	0.000	5.2
Headwaters Williams Fork	8,230.2	29.1%	4,575.2	16.2%	0.614	0.000	4.9
Keyser Creek	4,519.9	25.9%	2,220.8	12.7%	0.513	0.000	4.2
Upper Williams Fork	5,882.7	22.9%	2,597.3	10.1%	0.431	0.008	3.6
Middle Williams Fork	1,717.1	10.5%	304.9	1.9%	0.142	0.022	1.5
Battle Creek	1,805.8	10.5%	290.7	1.7%	0.139	0.081	1.9
Lower Williams Fork and Reservoir	2,517.9	10.5%	551.1	2.3%	0.151	0.061	1.9
Drowsy Water Creek-Colorado River	5,197.9	17.8%	1,809.8	6.2%	0.302	0.002	2.6
Beaver Creek	2,070.0	17.6%	668.3	5.7%	0.290	0.000	2.5
Little Muddy Creek LMC	1,673.0	9.1%	383.8	2.1%	0.133	0.020	1.4
Ute Bill Creek-Colorado River	1,863.4	11.2%	773.0	4.7%	0.205	0.009	1.9
Corral Creek-Colorado River	1,709.7	7.6%	447.0	2.0%	0.116	0.027	1.3
Middle Fork Creek	1,065.9	8.5%	177.9	1.4%	0.113	0.006	1.2
East Fork Troublesome Creek	3,364.8	9.4%	592.7	1.7%	0.127	0.020	1.4

Sixth-level Watershed Name	Severe (acres)	Severe (%)	Very Severe (acres)	Very Severe (%)	Soil Erodibility Value	Adjustments	Soil Erodibility Rank
Rabbit Ears Creek-Troublesome Creek	5,958.1	16.5%	1,539.2	4.3%	0.250	0.132	3.2
Little Muddy Creek MC	1,395.3	6.6%	266.6	1.3%	0.092	0.000	1.0
Milk Creek-Muddy Creek	658.7	2.5%	86.1	0.3%	0.031	0.004	0.5
Upper Muddy Creek	2,894.0	8.7%	821.3	2.5%	0.136	0.003	1.3
Middle Muddy Creek	830.4	6.3%	121.9	0.9%	0.081	0.004	0.9
Antelope Creek	1,245.8	8.6%	203.7	1.4%	0.114	0.022	1.3
Red Dirt Creek	947.8	4.1%	131.2	0.6%	0.052	0.000	0.7
Pass Creek	483.7	3.0%	106.5	0.7%	0.044	0.000	0.6
Wolford Mountain Reservoir	2,571.1	11.4%	425.0	1.9%	0.152	0.024	1.6
Sheep Creek-Colorado River	713.6	5.2%	161.9	1.2%	0.075	0.000	0.8

Soils Categories

Min	0.03118	
Max	0.68898	
Range	0.65780	
Step	0.13156	
Category	From	To
1	0.0312	0.1627
2	0.1627	0.2943
3	0.2943	0.4259
4	0.4259	0.5574
5	0.5574	0.6890

Soil Erodibility

Adjust-ments	Sixth-level Watershed Name	Severe (%)	Very Severe (%)	Adjustments	Soil Erodibility Value
0.0	Headwaters Colorado River	23.9%	16.4%	0.143	0.567
0.0	East Inlet	25.1%	21.9%	0.000	0.689
0.0	South Fork Williams Fork	29.8%	17.3%	0.000	0.644
0.3	North Inlet	25.3%	18.6%	0.000	0.626
0.0	Headwaters Williams Fork	29.1%	16.2%	0.000	0.614
1.0	Upper Fraser River	20.5%	9.7%	0.132	0.399
0.0	Keyser Creek	25.9%	12.7%	0.000	0.513
0.0	Arapaho Creek	18.7%	15.8%	0.000	0.503
0.1	Upper Williams Fork	22.9%	10.1%	0.008	0.431
0.2	Strawberry Creek	24.7%	7.2%	0.000	0.391
0.0	Rabbit Ears Creek-Troublesome Creek	16.5%	4.3%	0.132	0.250
0.0	Saint Louis Creek	19.6%	8.5%	0.001	0.366
0.4	Vasquez Creek	19.0%	8.3%	0.000	0.355
0.1	Lake Granby	17.2%	7.9%	0.015	0.329
0.0	Middle Willow Creek	21.6%	6.1%	0.000	0.338
1.1	Meadows Creek-Ranch Creek	18.1%	5.5%	0.016	0.290
0.0	Drowsy Water Creek-Colorado River	17.8%	6.2%	0.002	0.302
0.0	Headwaters Ranch Creek	19.9%	5.1%	0.001	0.302
0.0	Lower Willow Creek	17.5%	3.8%	0.045	0.252
0.4	Lower Fraser River	16.9%	5.8%	0.010	0.284
0.0	Beaver Creek	17.6%	5.7%	0.000	0.290
0.1	Stillwater Creek	14.7%	2.8%	0.055	0.203
0.2	Headwaters Willow Creek	16.4%	4.4%	0.000	0.252
0.0	Baker Gulch	12.8%	5.8%	0.000	0.244
0.0	Tenmile Creek	13.0%	2.9%	0.046	0.189
0.0	Upper Willow Creek	15.1%	4.1%	0.001	0.233
0.1	Battle Creek	10.5%	1.7%	0.081	0.139
0.2	Ute Bill Creek-Colorado River	11.2%	4.7%	0.009	0.205
0.6	Lower Williams Fork and Reservoir	10.5%	2.3%	0.061	0.151
0.5	Crooked Creek	14.7%	2.7%	0.000	0.200
0.0	Onahu Creek-Colorado River	10.4%	4.0%	0.003	0.185
0.0	Wolford Mountain Reservoir	11.4%	1.9%	0.024	0.152
0.2	Middle Fraser River	10.9%	1.6%	0.026	0.141
0.1	Middle Williams Fork	10.5%	1.9%	0.022	0.142
0.2	Little Muddy Creek LMC	9.1%	2.1%	0.020	0.133
0.0	East Fork Troublesome Creek	9.4%	1.7%	0.020	0.127
0.1	Corral Creek-Colorado River	7.6%	2.0%	0.027	0.116

Adjust-ments	Sixth-level Watershed Name	Severe (%)	Very Severe (%)	Adjustments	Soil Erodibility Value
1.0	Upper Muddy Creek	8.7%	2.5%	0.003	0.136
0.0	Antelope Creek	8.6%	1.4%	0.022	0.114
0.0	Middle Fork Creek	8.5%	1.4%	0.006	0.113
0.0	Smith Creek-Colorado River	6.3%	1.4%	0.029	0.091
0.0	Little Muddy Creek MC	6.6%	1.3%	0.000	0.092
0.2	Middle Muddy Creek	6.3%	0.9%	0.004	0.081
0.0	Sheep Creek-Colorado River	5.2%	1.2%	0.000	0.075
0.0	Red Dirt Creek	4.1%	0.6%	0.000	0.052
0.2	Pass Creek	3.0%	0.7%	0.000	0.044
0.0	Milk Creek-Muddy Creek	2.5%	0.3%	0.004	0.031

Soil Erodibility Rank
5.7
5.5
5.2
5.0
4.9
4.3
4.2
4.1
3.6
3.2
3.2
3.1
3.0
2.9
2.8
2.6
2.6
2.6
2.5
2.5
2.5
2.2
2.2
2.1
2.1
2.0
1.9
1.9
1.9
1.8
1.7
1.6
1.5
1.5
1.4
1.4
1.3

Soil Erodibility Rank
1.3
1.3
1.2
1.2
1.0
0.9
0.8
0.7
0.6
0.5

Soil Erodibility Adjustments

Sixth-level Watershed Name	Volcanic (acres)	Volcanic (%)	Trouble-some (acres)	Trouble-some (%)	Soil Adjustment Value	Soil Adjustment Rank
Headwaters Willow Creek		0.0%		0.0%	0.000	0.0
Upper Willow Creek	233.5	0.6%		0.0%	0.006	0.0
Middle Willow Creek		0.0%		0.0%	0.000	0.0
Lower Willow Creek		0.0%	5,465.0	30.8%	0.308	0.3
Vasquez Creek		0.0%		0.0%	0.000	0.0
Upper Fraser River		0.0%		0.0%	0.000	0.0
Saint Louis Creek		0.0%	162.0	0.7%	0.007	0.0
Headwaters Ranch Creek		0.0%	107.6	0.8%	0.008	0.0
Meadows Creek-Ranch Creek		0.0%	3,189.7	10.7%	0.107	0.1
Middle Fraser River		0.0%	2,022.7	17.3%	0.173	0.2
Crooked Creek		0.0%		0.0%	0.000	0.0
Strawberry Creek		0.0%		0.0%	0.000	0.0
Tenmile Creek		0.0%	7,445.1	31.4%	0.314	0.4
Lower Fraser River		0.0%	1,110.7	6.7%	0.067	0.1
Baker Gulch		0.0%		0.0%	0.000	0.0
Headwaters Colorado River	1,951.0	7.1%	97.4	0.4%	0.074	0.1
Onahu Creek-Colorado River		0.0%	531.3	2.2%	0.022	0.0
East Inlet		0.0%		0.0%	0.000	0.0
North Inlet		0.0%		0.0%	0.000	0.0
Stillwater Creek		0.0%	4,218.9	37.6%	0.376	0.4
Arapaho Creek		0.0%		0.0%	0.000	0.0
Lake Granby		0.0%	3,695.3	10.2%	0.102	0.1
Smith Creek-Colorado River		0.0%	2,815.0	19.3%	0.193	0.2
South Fork Williams Fork		0.0%		0.0%	0.000	0.0
Headwaters Williams Fork		0.0%		0.0%	0.000	0.0
Keyser Creek		0.0%		0.0%	0.000	0.0
Upper Williams Fork		0.0%	1,356.0	5.3%	0.053	0.1
Middle Williams Fork		0.0%	2,448.0	14.9%	0.149	0.2
Battle Creek		0.0%	9,415.7	54.7%	0.547	0.6
Lower Williams Fork and Reservoir		0.0%	9,857.4	41.1%	0.411	0.5
Drowsy Water Creek-Colorado River	461.5	1.6%		0.0%	0.016	0.0
Beaver Creek		0.0%		0.0%	0.000	0.0
Little Muddy Creek LMC		0.0%	2,511.4	13.7%	0.137	0.2
Ute Bill Creek-Colorado River	200.2	1.2%	788.0	4.7%	0.059	0.1
Corral Creek-Colorado River	3,438.9	15.3%	626.1	2.8%	0.181	0.2
Middle Fork Creek	517.4	4.1%		0.0%	0.041	0.0
East Fork Troublesome Creek	4,514.7	12.6%	258.2	0.7%	0.133	0.1

Sixth-level Watershed Name	Volcanic (acres)	Volcanic (%)	Trouble-some (acres)	Trouble-some (%)	Soil Adjustment Value	Soil Adjustment Rank
Rabbit Ears Creek-Troublesome Creek	27,713.7	76.7%	4,459.1	12.3%	0.891	1.0
Little Muddy Creek MC		0.0%		0.0%	0.000	0.0
Milk Creek-Muddy Creek	722.2	2.7%		0.0%	0.027	0.0
Upper Muddy Creek	734.8	2.2%		0.0%	0.022	0.0
Middle Muddy Creek	342.0	2.6%		0.0%	0.026	0.0
Antelope Creek	1,378.8	9.5%	734.0	5.1%	0.146	0.2
Red Dirt Creek		0.0%		0.0%	0.000	0.0
Pass Creek		0.0%		0.0%	0.000	0.0
Wolford Mountain Reservoir		0.0%	3,726.7	16.5%	0.165	0.2
Sheep Creek-Colorado River		0.0%		0.0%	0.000	0.0

Soils Categories

Min	0.00000	
Max	0.89072	
Range	0.89072	
Step	0.89072	
Category	From	To
1	0.0000	0.8907
2	0.8907	1.7814
3	1.7814	2.6722
4	2.6722	3.5629
5	3.5629	4.4536

Composite Risk Calculations

Sixth-level Watershed Name	Wildfire Hazard Rank	Flooding/Debris Flow Rank	Soil Erodibility Rank	Composite Numeric	Composite Hazard Rank
Headwaters Willow Creek	5.5	3.8	2.2	11.5	4.4
Upper Willow Creek	4.3	3.6	2.0	9.9	3.8
Middle Willow Creek	4.4	3.8	2.8	11.1	4.3
Lower Willow Creek	1.9	3.7	2.5	8.1	3.0
Vasquez Creek	4.6	4.0	3.0	11.5	4.5
Upper Fraser River	4.3	5.3	4.3	13.8	5.5
Saint Louis Creek	5.2	3.1	3.1	11.4	4.4
Headwaters Ranch Creek	5.5	5.2	2.6	13.2	5.2
Meadows Creek-Ranch Creek	4.8	4.7	2.6	12.1	4.7
Middle Fraser River	4.6	5.5	1.5	11.6	4.5
Crooked Creek	3.9	2.9	1.8	8.6	3.2
Strawberry Creek	4.7	1.8	3.2	9.7	3.7
Tenmile Creek	2.0	1.8	2.1	5.9	2.0
Lower Fraser River	1.8	1.4	2.5	5.7	1.9
Baker Gulch	4.5	3.7	2.1	10.4	4.0
Headwaters Colorado River	4.7	3.3	5.7	13.6	5.4
Onahu Creek-Colorado River	4.8	4.1	1.7	10.6	4.1
East Inlet	3.2	4.0	5.5	12.7	5.0
North Inlet	3.7	3.7	5.0	12.4	4.9
Stillwater Creek	3.2	4.4	2.2	9.8	3.7
Arapaho Creek	3.5	4.1	4.1	11.7	4.6
Lake Granby	3.9	1.6	2.9	8.4	3.1
Smith Creek-Colorado River	1.6	1.2	1.2	4.0	1.2
South Fork Williams Fork	3.8	3.1	5.2	12.0	4.7
Headwaters Williams Fork	4.0	3.6	4.9	12.5	4.9
Keyser Creek	4.4	4.6	4.2	13.3	5.2
Upper Williams Fork	4.3	3.9	3.6	11.8	4.6
Middle Williams Fork	3.8	4.0	1.5	9.2	3.5
Battle Creek	2.3	4.1	1.9	8.3	3.1
Lower Williams Fork and Reservoir	1.7	4.3	1.9	7.9	2.9
Drowsy Water Creek-Colorado River	2.1	3.9	2.6	8.6	3.2
Beaver Creek	3.1	4.3	2.5	9.9	3.8
Little Muddy Creek LMC	2.7	2.5	1.4	6.6	2.3
Ute Bill Creek-Colorado River	1.4	3.2	1.9	6.5	2.3
Corral Creek-Colorado River	2.3	3.8	1.3	7.4	2.7
Middle Fork Creek	3.7	2.8	1.2	7.7	2.8
East Fork Troublesome Creek	3.7	1.8	1.4	6.9	2.4
Rabbit Ears Creek-Troublesome Creek	4.5	3.1	3.2	10.8	4.2

Sixth-level Watershed Name	Wildfire Hazard Rank	Flooding/Debris Flow Rank	Soil Erodibility Rank	Composite Numeric	Composite Hazard Rank
Little Muddy Creek MC	1.1	0.5	1.0	2.5	0.5
Milk Creek-Muddy Creek	2.1	2.3	0.5	5.0	1.6
Upper Muddy Creek	0.8	2.8	1.3	4.9	1.6
Middle Muddy Creek	0.7	3.5	0.9	5.1	1.6
Antelope Creek	0.9	3.2	1.3	5.4	1.8
Red Dirt Creek	3.0	2.0	0.7	5.6	1.9
Pass Creek	2.6	3.5	0.6	6.7	2.3
Wolford Mountain Reservoir	0.5	1.3	1.6	3.4	0.9
Sheep Creek-Colorado River	1.9	3.1	0.8	5.8	2.0

Composite Categories

Min	2.51591	
Max	13.83687	
Range	11.32097	
Step	2.26419	
Category	From	To
1	2.5159	4.7801
2	4.7801	7.0443
3	7.0443	9.3085
4	9.3085	11.5727
5	11.5727	13.8369

Composite Risk

Sixth-level Watershed Name	Wildfire Hazard Rank	Flooding/ Debris Flow	Soil Erodibility	Composite Hazard Rank
Upper Fraser River	4.3	5.3	4.3	5.5
Headwaters Colorado River	4.7	3.3	5.7	5.4
Keyser Creek	4.4	4.6	4.2	5.2
Headwaters Ranch Creek	5.5	5.2	2.6	5.2
East Inlet	3.2	4.0	5.5	5.0
Headwaters Williams Fork	4.0	3.6	4.9	4.9
North Inlet	3.7	3.7	5.0	4.9
Meadows Creek-Ranch Creek	4.8	4.7	2.6	4.7
South Fork Williams Fork	3.8	3.1	5.2	4.7
Upper Williams Fork	4.3	3.9	3.6	4.6
Arapaho Creek	3.5	4.1	4.1	4.6
Middle Fraser River	4.6	5.5	1.5	4.5
Vasquez Creek	4.6	4.0	3.0	4.5
Headwaters Willow Creek	5.5	3.8	2.2	4.4
Saint Louis Creek	5.2	3.1	3.1	4.4
Middle Willow Creek	4.4	3.8	2.8	4.3
Rabbit Ears Creek-Troublesome Creek	4.5	3.1	3.2	4.2
Onahu Creek-Colorado River	4.8	4.1	1.7	4.1
Baker Gulch	4.5	3.7	2.1	4.0
Upper Willow Creek	4.3	3.6	2.0	3.8
Beaver Creek	3.1	4.3	2.5	3.8
Stillwater Creek	3.2	4.4	2.2	3.7
Strawberry Creek	4.7	1.8	3.2	3.7
Middle Williams Fork	3.8	4.0	1.5	3.5
Drowsy Water Creek-Colorado River	2.1	3.9	2.6	3.2
Crooked Creek	3.9	2.9	1.8	3.2
Lake Granby	3.9	1.6	2.9	3.1
Battle Creek	2.3	4.1	1.9	3.1
Lower Willow Creek	1.9	3.7	2.5	3.0
Lower Williams Fork and Reservoir	1.7	4.3	1.9	2.9
Middle Fork Creek	3.7	2.8	1.2	2.8
Corral Creek-Colorado River	2.3	3.8	1.3	2.7
East Fork Troublesome Creek	3.7	1.8	1.4	2.4
Pass Creek	2.6	3.5	0.6	2.3
Little Muddy Creek LMC	2.7	2.5	1.4	2.3
Ute Bill Creek-Colorado River	1.4	3.2	1.9	2.3
Tenmile Creek	2.0	1.8	2.1	2.0
Sheep Creek-Colorado River	1.9	3.1	0.8	2.0

Upper Colorado Headwaters Wildfire/Watershed Assessment

Sixth-level Watershed Name	Wildfire Hazard Rank	Flooding/ Debris Flow	Soil Erodibility	Composite Hazard Rank
Lower Fraser River	1.8	1.4	2.5	1.9
Red Dirt Creek	3.0	2.0	0.7	1.9
Antelope Creek	0.9	3.2	1.3	1.8
Middle Muddy Creek	0.7	3.5	0.9	1.6
Milk Creek-Muddy Creek	2.1	2.3	0.5	1.6
Upper Muddy Creek	0.8	2.8	1.3	1.6
Smith Creek-Colorado River	1.6	1.2	1.2	1.2
Wolford Mountain Reservoir	0.5	1.3	1.6	0.9
Little Muddy Creek MC	1.1	0.5	1.0	0.5

Water Supply Ranking

Sixth-level Watershed Name	Watershed Area	Sources & Diversions	Reservoirs	Total Uses	Water Ranking
Headwaters Willow Creek	14,274			0	0
Upper Willow Creek	37,834			0	0
Middle Willow Creek	20,435			0	0
Lower Willow Creek	17,754	1	1	2	1
Vasquez Creek	17,871	1		1	1
Upper Fraser River	19,380	1		1	1
Saint Louis Creek	24,465	1		1	1
Headwaters Ranch Creek	12,763	1		1	1
Meadows Creek-Ranch Creek	29,752	1	1	2	1
Middle Fraser River	11,694	1		1	1
Crooked Creek	26,368	0		0	0
Strawberry Creek	10,807	1		1	1
Tenmile Creek	23,742			0	0
Lower Fraser River	16,505	1		1	1
Baker Gulch	13,150	1		1	1
Headwaters Colorado River	27,632	1		1	1
Onahu Creek-Colorado River	24,368		1	1	1
East Inlet	17,986		1	1	1
North Inlet	29,302	1		1	1
Stillwater Creek	11,228		1	1	1
Arapaho Creek	30,740		1	1	1
Lake Granby	36,066	1	1	2	1
Smith Creek-Colorado River	14,553	1		1	1
South Fork Williams Fork	17,754			0	0
Headwaters Williams Fork	28,310	1		1	1
Keyser Creek	17,458			0	0
Upper Williams Fork	25,731	1	1	2	1
Middle Williams Fork	16,379			0	0
Battle Creek	17,202			0	0
Lower Williams Fork and Reservoir	23,977		1	1	1
Drowsy Water Creek-Colorado River	29,178			0	0
Beaver Creek	11,757			0	0
Little Muddy Creek LMC	18,354			0	0
Ute Bill Creek-Colorado River	16,620	1		1	1

Sixth-level Watershed Name	Watershed Area	Sources & Diversions	Reservoirs	Total Uses	Water Ranking
Corral Creek-Colorado River	22,451			0	0
Middle Fork Creek	12,536			0	0
East Fork Troublesome Creek	35,917			0	0
Rabbit Ears Creek-Troublesome Creek	36,120			0	0
Little Muddy Creek MC	21,075			0	0
Milk Creek-Muddy Creek	26,648			0	0
Upper Muddy Creek	33,430			0	0
Middle Muddy Creek	13,263			0	0
Antelope Creek	14,482			0	0
Red Dirt Creek	23,350		1	1	1
Pass Creek	15,917		1	1	1
Wolford Mountain Reservoir	22,548	1	1	2	1
Sheep Creek-Colorado River	13,845	1		1	1

Final Watershed Ranking Calculation

Sixth-level Watershed Name	Wildfire Hazard	Flooding/Debris Flow	Soil Erodibility	Composite	Water Supply	Overall Numeric	Overall Ranking
Headwaters Willow Creek	5.5	3.8	2.2	4.4	0	4.4	3.8
Upper Willow Creek	4.3	3.6	2.0	3.8	0	3.8	3.2
Middle Willow Creek	4.4	3.8	2.8	4.3	0	4.3	3.7
Lower Willow Creek	1.9	3.7	2.5	3.0	1	4.0	3.4
Vasquez Creek	4.6	4.0	3.0	4.5	1	5.5	4.7
Upper Fraser River	4.3	5.3	4.3	5.5	1	6.5	5.5
Saint Louis Creek	5.2	3.1	3.1	4.4	1	5.4	4.6
Headwaters Ranch Creek	5.5	5.2	2.6	5.2	1	6.2	5.3
Meadows Creek-Ranch Creek	4.8	4.7	2.6	4.7	1	5.7	4.8
Middle Fraser River	4.6	5.5	1.5	4.5	1	5.5	4.7
Crooked Creek	3.9	2.9	1.8	3.2	0	3.2	2.7
Strawberry Creek	4.7	1.8	3.2	3.7	1	4.7	4.0
Tenmile Creek	2.0	1.8	2.1	2.0	0	2.0	1.8
Lower Fraser River	1.8	1.4	2.5	1.9	1	2.9	2.5
Baker Gulch	4.5	3.7	2.1	4.0	1	5.0	4.2
Headwaters Colorado River	4.7	3.3	5.7	5.4	1	6.4	5.4
Onahu Creek-Colorado River	4.8	4.1	1.7	4.1	1	5.1	4.3
East Inlet	3.2	4.0	5.5	5.0	1	6.0	5.1
North Inlet	3.7	3.7	5.0	4.9	1	5.9	5.0
Stillwater Creek	3.2	4.4	2.2	3.7	1	4.7	4.0
Arapaho Creek	3.5	4.1	4.1	4.6	1	5.6	4.7
Lake Granby	3.9	1.6	2.9	3.1	1	4.1	3.5
Smith Creek-Colorado River	1.6	1.2	1.2	1.2	1	2.2	1.9
South Fork Williams Fork	3.8	3.1	5.2	4.7	0	4.7	4.0
Headwaters Williams Fork	4.0	3.6	4.9	4.9	1	5.9	5.0
Keyser Creek	4.4	4.6	4.2	5.2	0	5.2	4.5
Upper Williams Fork	4.3	3.9	3.6	4.6	1	5.6	4.7
Middle Williams Fork	3.8	4.0	1.5	3.5	0	3.5	3.0
Battle Creek	2.3	4.1	1.9	3.1	0	3.1	2.6
Lower Williams Fork and Reservoir	1.7	4.3	1.9	2.9	1	3.9	3.3
Drowsy Water Creek-Colorado River	2.1	3.9	2.6	3.2	0	3.2	2.7
Beaver Creek	3.1	4.3	2.5	3.8	0	3.8	3.2
Little Muddy Creek LMC	2.7	2.5	1.4	2.3	0	2.3	2.0
Ute Bill Creek-Colorado River	1.4	3.2	1.9	2.3	1	3.3	2.8
Corral Creek-Colorado River	2.3	3.8	1.3	2.7	0	2.7	2.3

Upper Colorado Headwaters Wildfire/Watershed Assessment

Sixth-level Watershed Name	Wildfire Hazard	Flooding/Debris Flow	Soil Erodibility	Composite	Water Supply	Overall Numeric	Overall Ranking
Middle Fork Creek	3.7	2.8	1.2	2.8	0	2.8	2.4
East Fork Troublesome Creek	3.7	1.8	1.4	2.4	0	2.4	2.1
Rabbit Ears Creek-Troublesome Creek	4.5	3.1	3.2	4.2	0	4.2	3.5
Little Muddy Creek MC	1.1	0.5	1.0	0.5	0	0.5	0.5
Milk Creek-Muddy Creek	2.1	2.3	0.5	1.6	0	1.6	1.4
Upper Muddy Creek	0.8	2.8	1.3	1.6	0	1.6	1.4
Middle Muddy Creek	0.7	3.5	0.9	1.6	0	1.6	1.5
Antelope Creek	0.9	3.2	1.3	1.8	0	1.8	1.6
Red Dirt Creek	3.0	2.0	0.7	1.9	1	2.9	2.5
Pass Creek	2.6	3.5	0.6	2.3	1	3.3	2.9
Wolford Mountain Reservoir	0.5	1.3	1.6	0.9	1	1.9	1.7
Sheep Creek-Colorado River	1.9	3.1	0.8	2.0	1	3.0	2.6

Final Categories

Min	0.50000	
Max	6.50000	
Range	6.00000	
Step	1.20000	
Category	From	To
1	0.5000	1.7000
2	1.7000	2.9000
3	2.9000	4.1000
4	4.1000	5.3000
5	5.3000	6.5000

Final Watershed Ranking

Sixth-level Watershed Name	Wildfire Hazard	Flooding/Debris Flow	Soil Erodibility	Composite	Water Supply	Overall Ranking
Upper Fraser River	4.3	5.3	4.3	5.5	1	5.5
Headwaters Colorado River	4.7	3.3	5.7	5.4	1	5.4
Headwaters Ranch Creek	5.5	5.2	2.6	5.2	1	5.3
East Inlet	3.2	4.0	5.5	5.0	1	5.1
Headwaters Williams Fork	4.0	3.6	4.9	4.9	1	5.0
North Inlet	3.7	3.7	5.0	4.9	1	5.0
Meadows Creek-Ranch Creek	4.8	4.7	2.6	4.7	1	4.8
Upper Williams Fork	4.3	3.9	3.6	4.6	1	4.7
Arapaho Creek	3.5	4.1	4.1	4.6	1	4.7
Middle Fraser River	4.6	5.5	1.5	4.5	1	4.7
Vasquez Creek	4.6	4.0	3.0	4.5	1	4.7
Saint Louis Creek	5.2	3.1	3.1	4.4	1	4.6
Keyser Creek	4.4	4.6	4.2	5.2	0	4.5
Onahu Creek-Colorado River	4.8	4.1	1.7	4.1	1	4.3
Baker Gulch	4.5	3.7	2.1	4.0	1	4.2
Stillwater Creek	3.2	4.4	2.2	3.7	1	4.0
South Fork Williams Fork	3.8	3.1	5.2	4.7	0	4.0
Strawberry Creek	4.7	1.8	3.2	3.7	1	4.0
Headwaters Willow Creek	5.5	3.8	2.2	4.4	0	3.8
Middle Willow Creek	4.4	3.8	2.8	4.3	0	3.7
Rabbit Ears Creek-Troublesome Creek	4.5	3.1	3.2	4.2	0	3.5
Lake Granby	3.9	1.6	2.9	3.1	1	3.5
Lower Willow Creek	1.9	3.7	2.5	3.0	1	3.4
Lower Williams Fork and Reservoir	1.7	4.3	1.9	2.9	1	3.3
Upper Willow Creek	4.3	3.6	2.0	3.8	0	3.2
Beaver Creek	3.1	4.3	2.5	3.8	0	3.2
Middle Williams Fork	3.8	4.0	1.5	3.5	0	3.0
Pass Creek	2.6	3.5	0.6	2.3	1	2.9
Ute Bill Creek-Colorado River	1.4	3.2	1.9	2.3	1	2.8
Drowsy Water Creek-Colorado River	2.1	3.9	2.6	3.2	0	2.7
Crooked Creek	3.9	2.9	1.8	3.2	0	2.7
Battle Creek	2.3	4.1	1.9	3.1	0	2.6
Sheep Creek-Colorado River	1.9	3.1	0.8	2.0	1	2.6
Lower Fraser River	1.8	1.4	2.5	1.9	1	2.5

Upper Colorado Headwaters Wildfire/Watershed Assessment

Sixth-level Watershed Name	Wildfire Hazard	Flooding/Debris Flow	Soil Erodibility	Composite	Water Supply	Overall Ranking
Red Dirt Creek	3.0	2.0	0.7	1.9	1	2.5
Middle Fork Creek	3.7	2.8	1.2	2.8	0	2.4
Corral Creek-Colorado River	2.3	3.8	1.3	2.7	0	2.3
East Fork Troublesome Creek	3.7	1.8	1.4	2.4	0	2.1
Little Muddy Creek LMC	2.7	2.5	1.4	2.3	0	2.0
Smith Creek-Colorado River	1.6	1.2	1.2	1.2	1	1.9
Tenmile Creek	2.0	1.8	2.1	2.0	0	1.8
Wolford Mountain Reservoir	0.5	1.3	1.6	0.9	1	1.7
Antelope Creek	0.9	3.2	1.3	1.8	0	1.6
Middle Muddy Creek	0.7	3.5	0.9	1.6	0	1.5
Milk Creek-Muddy Creek	2.1	2.3	0.5	1.6	0	1.4
Upper Muddy Creek	0.8	2.8	1.3	1.6	0	1.4
Little Muddy Creek MC	1.1	0.5	1.0	0.5	0	0.5

Zones of Concern

Name	Area (acres)	Extended	Extended	Area less Lakes (acres)
Baker Gulch	1,875			1,875
East Branch Reservoir	1,456			1,456
Fraser River Extended		9,296		9,296
Gold Run Extended		3,617		3,617
Grand Lake	17,040			17,040
Grand Lake Extended		31,751	31,751	31,751
Headwaters Ranch Creek	10,457			10,457
Henderson Mill	10,021			10,021
Hot Sulphur Springs	13,990			13,990
Lake Granby	46,945			46,945
Lake Granby Extended		4,752	4,752	4,752
Little Strawberry Creek	2,532			2,532
Lower Willow Creek		4,773		4,773
Meadow Creek Reservoir	4,611			4,611
Meadow/Ranch Creek	13,849			13,849
Middle Fraser River	2,471			2,471
Monarch Lake	18,745			18,745
Red Dirt Reservoir	8,717			8,717
Saint Louis Creek	18,276			18,276
Shadow Mountain	8,414			8,414
Shadow Mountain Extended		12,026	12,026	12,026
Sheep Creek	6,686			6,686
Strawberry Creek Extended		3,370		3,370
Tenmile Extended		5,131		5,131
Trail Creek Extended		4,977		4,977
Upper Fraser	17,985			17,985
Ute Creek Reservoir	1,050			1,050
Vasquez Creek	17,447			17,447
Waldon Hollow Extended		7,654		7,654
Williams Fork Headwaters	10,349			10,349
Williams Fork Reservoir	24,115			24,115
Williams Fork Reservoir Extended		33,191	33,191	33,191
Willow Creek	10,870		21,654	10,870
Willow Creek Extended		13,060		13,060
Windy Gap	14,472		30,224	14,472
Wolford Mtn Reservoir	42,257			42,257
Totals	324,630	133,598	133,598	458,228