

Clear/Bear Creek Watersheds

12 code HUC	6th Level Watershed Name	Acres	5 th Level HUC Name	10 code HUC
101900020801	Vance Creek	18,559	Bear Creek	1019000208
101900020802	Headwaters Bear Creek	28,652	Bear Creek	1019000208
101900020803	Evergreen Lake-Bear Creek	20,431	Bear Creek	1019000208
101900020804	Cub Creek	14,241	Bear Creek	1019000208
101900020805	Troublesome Creek-Bear Creek	12,667	Bear Creek	1019000208
101900020806	Mount Vernon Creek-Bear Creek	17,719	Bear Creek	1019000208
101900020807	Turkey Creek	24,197	Bear Creek	1019000208
101900020808	Bear Creek Lake	14,445	Bear Creek	1019000208
101900040101	South Clear Creek	19,295	Upper Clear Creek	1019000401
101900040102	Headwaters Clear Creek	30,846	Upper Clear Creek	1019000401
101900040103	West Fork Clear Creek	36,752	Upper Clear Creek	1019000401
101900040104	Silver Creek-Clear Creek	5,260	Upper Clear Creek	1019000401
101900040201	Fall River	14,976	Middle Clear Creek	1019000402
101900040202	Mill Creek-Clear Creek	12,696	Middle Clear Creek	1019000402
101900040203	Headwaters West Chicago Creek	18,607	Middle Clear Creek	1019000402
101900040204	Outlet Chicago Creek	12,142	Middle Clear Creek	1019000402
101900040205	Soda Creek	8,941	Middle Clear Creek	1019000402
101900040206	North Clear Creek	38,491	Middle Clear Creek	1019000402
101900040207	City of Idaho Springs-Clear Creek	14,457	Middle Clear Creek	1019000402
101900040301	Upper Ralston Creek	20,615	Ralston Creek	1019000403
101900040302	Middle Ralston Creek	8,973	Ralston Creek	1019000403
101900040303	Van Bibber Creek	11,357	Ralston Creek	1019000403
101900040401	Beaver Brook-Clear Creek	26,222	Lower Clear Creek	1019000404
101900040402	Clear Creek Canyon	26,281	Lower Clear Creek	1019000404
	Total	456,822		

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	Watershed Area (acres)	Wildfire Hazard Rank
Vance Creek	10,141.4	671.0	5,562.0	2,198.5	45.43%	18,559	3.9
Headwaters Bear Creek	19,018.3	467.2	8,069.2	1,114.8	33.68%	28,652	2.4
Evergreen Lake-Bear Creek	9,773.6	661.4	8,526.0	1,483.8	52.23%	20,431	4.9
Cub Creek	6,528.9	444.1	6,696.2	580.7	54.22%	14,241	5.1
Troublesome Creek-Bear Creek	8,334.5	771.9	3,007.4	560.9	34.26%	12,667	2.4
Mount Vernon Creek-Bear Creek	12,309.3	1,509.1	2,829.7	1,088.6	30.63%	17,719	2.0
Turkey Creek	11,346.6	906.9	10,858.9	1,103.3	53.18%	24,197	5.0
Bear Creek Lake	11,074.4	500.8	2,280.8	602.5	23.43%	14,445	1.0
South Clear Creek	15,491.9	626.9	1,872.7	1,315.0	19.77%	19,295	0.5
Headwaters Clear Creek	22,535.0	2,897.3	3,837.3	1,600.8	27.02%	30,846	1.5
West Fork Clear Creek	23,282.0	3,796.9	6,627.9	3,068.5	36.71%	36,752	2.8
Silver Creek-Clear Creek	2,606.4	429.4	1,281.4	947.2	50.53%	5,260	4.6
Fall River	10,229.5	790.2	2,625.1	1,341.5	31.76%	14,976	2.1
Mill Creek-Clear Creek	5,987.0	1,345.2	3,795.5	1,579.9	52.93%	12,696	5.0
Headwaters West Chicago Creek	11,849.6	1,230.9	4,250.1	1,290.8	36.39%	18,607	2.7
Outlet Chicago Creek	5,344.9	520.6	4,644.8	1,637.0	56.02%	12,142	5.4
Soda Creek	3,333.4	190.4	3,915.8	1,510.5	57.00%	8,941	5.5
North Clear Creek	21,860.9	1,680.8	12,870.4	2,108.5	43.28%	38,491	3.7
City of Idaho Springs-Clear Creek	7,352.0	1,091.3	4,410.4	1,609.9	49.19%	14,457	4.5
Upper Ralston Creek	9,202.3	831.1	9,472.7	1,126.4	55.45%	20,615	5.3
Middle Ralston Creek	5,505.0	867.1	1,842.5	763.2	38.70%	8,973	3.0
Van Bibber Creek	8,983.0	506.6	1,355.0	521.5	20.98%	11,357	0.7
Beaver Brook-Clear Creek	15,630.5	1,188.2	7,518.8	1,906.3	40.47%	26,222	3.3
Clear Creek Canyon	18,665.2	1,989.5	3,872.0	1,775.6	29.06%	26,281	1.7

Sixth-level Watershed Name	Category 1 (acres)	Category 2 (acres)	Category 3 (acres)	Category 4 (acres)	Wildfire Value	Watershed Area (acres)	Wildfire Hazard Rank
Totals	276,385.6	25,914.9	122,022.7	32,835.4	39.57%	456,822	

Wildfire Hazard Categories

Min	0.19770	
Max	0.57000	
Range	0.37230	
Step	0.07446	
Category	From	To
1	0.1977	0.2722
2	0.2722	0.3466
3	0.3466	0.4211
4	0.4211	0.4955
5	0.4955	0.5700

Wildfire Hazard

Sixth-level Watershed Name	Watershed Area (acres)	Wildfire Hazard Calculation	Wildfire Hazard Rank
Soda Creek	8,941	57.0%	5.5
Outlet Chicago Creek	12,142	56.0%	5.4
Upper Ralston Creek	20,615	55.4%	5.3
Silver Creek-Clear Creek	5,260	50.5%	4.6
Cub Creek	14,241	54.2%	5.1
Evergreen Lake-Bear Creek	20,431	52.2%	4.9
Mill Creek-Clear Creek	12,696	52.9%	5.0
Turkey Creek	24,197	53.2%	5.0
City of Idaho Springs-Clear Creek	14,457	49.2%	4.5
Vance Creek	18,559	45.4%	3.9
North Clear Creek	38,491	43.3%	3.7
Beaver Brook-Clear Creek	26,222	40.5%	3.3
Middle Ralston Creek	8,973	38.7%	3.0
Headwaters West Chicago Creek	18,607	36.4%	2.7
West Fork Clear Creek	36,752	36.7%	2.8
Headwaters Bear Creek	28,652	33.7%	2.4
Fall River	14,976	31.8%	2.1
Troublesome Creek-Bear Creek	12,667	34.3%	2.4
Mount Vernon Creek-Bear Creek	17,719	30.6%	2.0
Clear Creek Canyon	26,281	29.1%	1.7
Headwaters Clear Creek	30,846	27.0%	1.5
Bear Creek Lake	14,445	23.4%	1.0
South Clear Creek	19,295	19.8%	0.5
Van Bibber Creek	11,357	21.0%	0.7

This page has been left blank intentionally

Ruggedness Calculations

Sixth-level Watershed Name	Watershed Area (sq. ft.)	Maximum Elevation	Minimum Elevation	Difference Elevation	Area -0.5	Ruggedness	Ruggedness Rank	Adjustments
Vance Creek	808,430,040	12,736	7,544	5,192	0.000035	0.1826	3.4	1
Headwaters Bear Creek	1,248,081,120	14,232	7,521	6,711	0.000028	0.1900	3.7	1
Evergreen Lake-Bear Creek	444,987,180	10,571	7,055	3,516	0.000047	0.1667	2.8	2
Cub Creek	620,337,960	10,696	7,032	3,664	0.000040	0.1471	2.1	1
Troublesome Creek-Bear Creek	275,887,260	9,692	6,708	2,985	0.00006	0.1797	3.3	2
Mount Vernon Creek-Bear Creek	514,559,760	8,262	5,733	2,529	0.000044	0.1115	0.8	1.5
Turkey Creek	1,054,021,320	10,693	6,858	3,834	0.000031	0.1181	1.0	1
Bear Creek Lake	419,482,800	8,554	5,550	3,004	0.000049	0.1467	2.1	1.5
South Clear Creek	840,490,200	13,809	8,502	5,307	0.000034	0.1831	3.4	1
Headwaters Clear Creek	1,343,651,760	14,229	8,505	5,724	0.000027	0.1561	2.4	1
West Fork Clear Creek	1,600,917,120	13,632	8,230	5,402	0.000025	0.1350	1.7	1
Silver Creek-Clear Creek	229,125,600	12,297	8,220	4,077	0.000066	0.2400	5.5	1
Fall River	652,354,560	13,353	7,708	5,645	0.000039	0.2210	4.8	1
Mill Creek-Clear Creek	553,037,760	13,133	7,721	5,412	0.000043	0.2301	5.1	1
Headwaters West Chicago	810,520,920	13,674	8,804	4,871	0.000035	0.1711	3.0	1
Outlet Chicago Creek	352,603,680	11,555	7,554	4,002	0.000053	0.2131	4.5	1.5
Soda Creek	389,469,960	11,637	7,518	4,120	0.000051	0.2088	4.4	1
North Clear Creek	1,117,778,640	12,133	6,914	5,218	0.000030	0.1561	2.4	1.5
City of Idaho Springs-Clear	419,831,280	11,122	6,914	4,208	0.000049	0.2054	4.2	1.5
Upper Ralston Creek	897,989,400	10,489	7,396	3,093	0.000033	0.1032	0.5	1
Middle Ralston Creek	260,575,920	8,994	6,032	2,962	0.000062	0.1835	3.4	1.5
Van Bibber Creek	494,710,920	9,738	5,340	4,398	0.00004	0.1978	4.0	1
Beaver Brook-Clear Creek	761,486,880	11,467	6,393	5,074	0.00004	0.1839	3.4	1.5
Clear Creek Canyon	763,200,240	9,925	5,619	4,307	0.000036	0.1559	2.4	1.5

Ruggedness Categories

Min	0.10322	
Max	0.24000	
Range	0.13678	
Step	0.02736	
Category	From	To
1	0.1032	0.1306
2	0.1306	0.1579
3	0.1579	0.1853
4	0.1853	0.2126
5	0.2126	0.2400

Ruggedness

Sixth-level Watershed Name	Maximum Elevation	Minimum Elevation	Difference Elevation	Ruggedness	Ruggedness Rank
Silver Creek-Clear Creek	12,297	8,220	4,077	0.2400	5.5
Mill Creek-Clear Creek	13,133	7,721	5,412	0.2301	5.1
Fall River	13,353	7,708	5,645	0.2210	4.8
Outlet Chicago Creek	11,555	7,554	4,002	0.2131	4.5
Soda Creek	11,637	7,518	4,120	0.2088	4.4
City of Idaho Springs-Clear Creek	11,122	6,914	4,208	0.2054	4.2
Van Bibber Creek	9,738	5,340	4,398	0.1978	4.0
Headwaters Bear Creek	14,232	7,521	6,711	0.1900	3.7
Beaver Brook-Clear Creek	11,467	6,393	5,074	0.1839	3.4
Middle Ralston Creek	8,994	6,032	2,962	0.1835	3.4
South Clear Creek	13,809	8,502	5,307	0.1831	3.4
Vance Creek	12,736	7,544	5,192	0.1826	3.4
Troublesome Creek-Bear Creek	9,692	6,708	2,985	0.1797	3.3
Headwaters West Chicago Creek	13,674	8,804	4,871	0.1711	3.0
Evergreen Lake-Bear Creek	10,571	7,055	3,516	0.1667	2.8
Headwaters Clear Creek	14,229	8,505	5,724	0.1561	2.4
North Clear Creek	12,133	6,914	5,218	0.1561	2.4
Clear Creek Canyon	9,925	5,619	4,307	0.1559	2.4
Cub Creek	10,696	7,032	3,664	0.1471	2.1
Bear Creek Lake	8,554	5,550	3,004	0.1467	2.1
West Fork Clear Creek	13,632	8,230	5,402	0.1350	1.7
Turkey Creek	10,693	6,858	3,834	0.1181	1.0
Mount Vernon Creek-Bear Creek	8,262	5,733	2,529	0.1115	0.8
Upper Ralston Creek	10,489	7,396	3,093	0.1032	0.5

This page has been left blank intentionally

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
Vance Creek	47.4	47.4	29.00	1.63	1.6
Headwaters Bear Creek	28.3	28.3	44.77	0.63	0.5
Evergreen Lake-Bear Creek	119.6	119.6	31.92	3.74	4.0
Cub Creek	112.4	112.4	22.25	5.05	5.4
Troublesome Creek-Bear Creek	120.0	80.4	19.79	4.06	4.3
Mount Vernon Creek-Bear Creek	123.8	123.8	27.69	4.47	4.8
Turkey Creek	182.5	182.5	37.81	4.83	5.2
Bear Creek Lake	130.5	87.4	22.57	3.87	4.1
South Clear Creek	67.4	67.4	30.15	2.24	2.3
Headwaters Clear Creek	116.7	87.5	48.20	1.82	1.8
West Fork Clear Creek	145.7	145.7	57.43	2.54	2.6
Silver Creek-Clear Creek	42.1	28.2	8.22	3.43	3.6
Fall River	98.5	98.5	23.40	4.21	4.5
Mill Creek-Clear Creek	101.7	101.7	19.84	5.13	5.5
Headwaters West Chicago Creek	38.4	38.4	29.07	1.32	1.3
Outlet Chicago Creek	87.4	87.4	18.97	4.60	4.9
Soda Creek	65.6	65.6	13.97	4.69	5.0
North Clear Creek	211.0	211.0	60.14	3.51	3.7
City of Idaho Springs-Clear Creek	128.8	96.6	22.59	4.28	4.6
Upper Ralston Creek	71.1	71.1	32.21	2.21	2.3
Middle Ralston Creek	14.2	14.2	14.02	1.01	0.9
Van Bibber Creek	91.3	45.6	17.75	2.57	2.7
Beaver Brook-Clear Creek	158.1	158.1	40.97	3.86	4.1
Clear Creek Canyon	148.9	148.9	41.06	3.63	3.8
Totals	2,451.1	2,247.6			

Road Density Categories

Min	0.63102	
Max	5.12716	
Range	4.49614	
Step	0.89923	
Category	From	To
1	0.6310	1.5302
2	1.5302	2.4295
3	2.4295	3.3287
4	3.3287	4.2279
5	4.2279	5.1272

Road Density

Sixth-level Watershed Name	Roads (miles)	Roads Adjusted (miles)	Watershed Area (sq. mi.)	Road density (miles per sq. mi.)	Road Density Rank
Mill Creek-Clear Creek	101.7	101.7	19.84	5.13	5.5
Cub Creek	112.4	112.4	22.25	5.05	5.4
Turkey Creek	182.5	182.5	37.81	4.83	5.2
Soda Creek	65.6	65.6	13.97	4.69	5.0
Outlet Chicago Creek	87.4	87.4	18.97	4.60	4.9
Mount Vernon Creek-Bear Creek	123.8	123.8	27.69	4.47	4.8
City of Idaho Springs-Clear Creek	128.8	96.6	22.59	4.28	4.6
Fall River	98.5	98.5	23.40	4.21	4.5
Troublesome Creek-Bear Creek	120.0	80.4	19.79	4.06	4.3
Bear Creek Lake	130.5	87.4	22.57	3.87	4.1
Beaver Brook-Clear Creek	158.1	158.1	40.97	3.86	4.1
Evergreen Lake-Bear Creek	119.6	119.6	31.92	3.74	4.0
Clear Creek Canyon	148.9	148.9	41.06	3.63	3.8
North Clear Creek	211.0	211.0	60.14	3.51	3.7
Silver Creek-Clear Creek	42.1	28.2	8.22	3.43	3.6
Van Bibber Creek	91.3	45.6	17.75	2.57	2.7
West Fork Clear Creek	145.7	145.7	57.43	2.54	2.6
South Clear Creek	67.4	67.4	30.15	2.24	2.3
Upper Ralston Creek	71.1	71.1	32.21	2.21	2.3
Headwaters Clear Creek	116.7	87.5	48.20	1.82	1.8
Vance Creek	47.4	47.4	29.00	1.63	1.6
Headwaters West Chicago Creek	38.4	38.4	29.07	1.32	1.3
Middle Ralston Creek	14.2	14.2	14.02	1.01	0.9
Headwaters Bear Creek	28.3	28.3	44.77	0.63	0.5

This page has been left blank intentionally

Flooding Debris Flow Hazard Calculations

Sixth-level Watershed Name	Watershed Area (acres)	Ruggedness	Ruggedness Rank	Road density (mi per sq. mi.)	Road Density	Combined Numeric Rank	Combined Ranking
Vance Creek	18,559	0.1826	3.4	1.63	1.6	8.42	2.7
Headwaters Bear Creek	28,652	0.1900	3.7	0.63	0.5	7.84	2.5
Evergreen Lake-Bear Creek	20,431	0.1667	2.8	3.74	4.0	9.60	3.2
Cub Creek	14,241	0.1471	2.1	5.05	5.4	9.63	3.2
Troublesome Creek-Bear Creek	12,667	0.1797	3.3	4.06	4.3	10.91	3.8
Mount Vernon Creek-Bear Creek	17,719	0.1115	0.8	4.47	4.8	6.37	1.8
Turkey Creek	24,197	0.1181	1.0	4.83	5.2	7.25	2.2
Bear Creek Lake	14,445	0.1467	2.1	3.87	4.1	8.28	2.6
South Clear Creek	19,295	0.1831	3.4	2.24	2.3	9.12	3.0
Headwaters Clear Creek	30,846	0.1561	2.4	1.82	1.8	9.19	3.0
West Fork Clear Creek	36,752	0.1350	1.7	2.54	2.6	5.94	1.6
Silver Creek-Clear Creek	5,260	0.2400	5.5	3.43	3.6	14.61	5.3
Fall River	14,976	0.2210	4.8	4.21	4.5	14.09	5.1
Mill Creek-Clear Creek	12,696	0.2301	5.1	5.13	5.5	15.00	5.5
Headwaters West Chicago Creek	18,607	0.1711	3.0	1.32	1.3	7.23	2.2
Outlet Chicago Creek	12,142	0.2131	4.5	4.60	4.9	13.95	5.1
Soda Creek	8,941	0.2088	4.4	4.69	5.0	13.73	5.0
North Clear Creek	38,491	0.1561	2.4	3.51	3.7	11.07	3.8
City of Idaho Springs-Clear Creek	14,457	0.2054	4.2	4.28	4.6	13.02	4.7
Upper Ralston Creek	20,615	0.1032	0.5	2.21	2.3	3.25	0.5
Middle Ralston Creek	8,973	0.1835	3.4	1.01	0.9	7.79	2.4
Van Bibber Creek	11,357	0.1978	4.0	2.57	2.7	10.57	3.6
Beaver Brook-Clear Creek	26,222	0.1839	3.4	3.86	4.1	10.99	3.8
Clear Creek Canyon	26,281	0.1559	2.4	3.63	3.8	8.68	2.8

Flooding Categories

Min	3.25295	
Max	15.00000	
Range	11.74705	
Step	2.34941	
Category	From	To
1	3.2530	5.6024
2	5.6024	7.9518
3	7.9518	10.3012
4	10.3012	12.6506
5	12.6506	15.0000

Flooding Debris Flow Hazard

Sixth-level Watershed Name	Ruggedness Ranking	Road Density Ranking	Combined Numeric Rank	Combined Ranking
Mill Creek-Clear Creek	5.1	5.5	15.00	5.5
Silver Creek-Clear Creek	5.5	3.6	14.61	5.3
Fall River	4.8	4.5	14.09	5.1
Outlet Chicago Creek	4.5	4.9	13.95	5.1
Soda Creek	4.4	5.0	13.73	5.0
City of Idaho Springs-Clear Creek	4.2	4.6	13.02	4.7
North Clear Creek	2.4	3.7	11.07	3.8
Beaver Brook-Clear Creek	3.4	4.1	10.99	3.8
Troublesome Creek-Bear Creek	3.3	4.3	10.91	3.8
Van Bibber Creek	4.0	2.7	10.57	3.6
Cub Creek	2.1	5.4	9.63	3.2
Evergreen Lake-Bear Creek	2.8	4.0	9.60	3.2
Headwaters Clear Creek	2.4	1.8	9.19	3.0
South Clear Creek	3.4	2.3	9.12	3.0
Clear Creek Canyon	2.4	3.8	8.68	2.8
Vance Creek	3.4	1.6	8.42	2.7
Bear Creek Lake	2.1	4.1	8.28	2.6
Headwaters Bear Creek	3.7	0.5	7.84	2.5
Middle Ralston Creek	3.4	0.9	7.79	2.4
Turkey Creek	1.0	5.2	7.25	2.2
Headwaters West Chicago Creek	3.0	1.3	7.23	2.2
Mount Vernon Creek-Bear Creek	0.8	4.8	6.37	1.8
West Fork Clear Creek	1.7	2.6	5.94	1.6
Upper Ralston Creek	0.5	2.3	3.25	0.5

This page has been left blank intentionally

Soil Erodibility Calculations

Sixth-level Watershed Name	Severe (acres)	Severe (%)	Very Severe (acres)	Very Severe (%)	Soil Erodibility Value	Watershed Area	Soil Erodibility Rank
Vance Creek	4,749.1	25.6%	2,504.3	13.5%	0.726	18,559	5.5
Headwaters Bear Creek	5,046.7	17.6%	1,336.8	4.7%	0.469	28,652	3.3
Evergreen Lake-Bear Creek	2,702.3	13.2%	1,154.4	5.7%	0.445	20,431	3.1
Cub Creek	1,368.8	9.6%	285.8	2.0%	0.336	14,241	2.2
Troublesome Creek-Bear Creek	1,408.0	11.1%	374.3	3.0%	0.170	12,667	0.9
Mount Vernon Creek-Bear Creek	2,498.1	14.1%	877.1	5.0%	0.240	17,719	1.4
Turkey Creek	1,460.2	6.0%	331.4	1.4%	0.288	24,197	1.8
Bear Creek Lake	1,769.8	12.3%	316.7	2.2%	0.166	14,445	0.8
South Clear Creek	3,323.0	17.2%	2,702.0	14.0%	0.452	19,295	3.2
Headwaters Clear Creek	5,306.7	17.2%	5,159.0	16.7%	0.507	30,846	3.6
West Fork Clear Creek	8,223.5	22.4%	6,585.6	17.9%	0.582	36,752	4.3
Silver Creek-Clear Creek	1,116.0	21.2%	2,214.3	42.1%	0.730	5,260	5.5
Fall River	3,133.3	20.9%	1,107.7	7.4%	0.357	14,976	2.4
Mill Creek-Clear Creek	3,104.8	24.5%	2,244.4	17.7%	0.598	12,696	4.4
Headwaters West Chicago Creek	3,844.0	20.7%	1,241.2	6.7%	0.340	18,607	2.3
Outlet Chicago Creek	3,580.7	29.5%	1,039.5	8.6%	0.466	12,142	3.3
Soda Creek	2,608.0	29.2%	787.5	8.8%	0.468	8,941	3.3
North Clear Creek	7,278.6	18.9%	2,781.0	7.2%	0.334	38,491	2.2
City of Idaho Springs-Clear Creek	4,041.7	28.0%	2,248.6	15.6%	0.591	14,457	4.3
Upper Ralston Creek	3,103.2	15.1%	1,173.8	5.7%	0.264	20,615	1.6
Middle Ralston Creek	1,737.1	19.4%	572.2	6.4%	0.321	8,973	2.1
Van Bibber Creek	889.6	7.8%	282.2	2.5%	0.128	11,357	0.5
Beaver Brook-Clear Creek	4,514.5	17.2%	1,783.1	6.8%	0.308	26,222	2.0
Clear Creek Canyon	5,338.9	20.3%	1,387.5	5.3%	0.309	26,281	2.0

Soils Categories

Min	0.12803	
Max	0.73000	
Range	0.60197	
Step	0.12039	
Category	From	To
1	0.1280	0.2484
2	0.2484	0.3688
3	0.3688	0.4892
4	0.4892	0.6096
5	0.6096	0.7300

Soil Erodibility

Sixth-level Watershed Name	Severe (%)	Very Severe (%)	Soil Erodibility Value	Soil Erodibility Rank
Silver Creek-Clear Creek	21.2%	42.1%	0.730	5.5
Vance Creek	25.6%	13.5%	0.726	5.5
Mill Creek-Clear Creek	24.5%	17.7%	0.598	4.4
City of Idaho Springs-Clear Creek	28.0%	15.6%	0.591	4.3
West Fork Clear Creek	22.4%	17.9%	0.582	4.3
Headwaters Clear Creek	17.2%	16.7%	0.507	3.6
Headwaters Bear Creek	17.6%	4.7%	0.469	3.3
Soda Creek	29.2%	8.8%	0.468	3.3
Outlet Chicago Creek	29.5%	8.6%	0.466	3.3
South Clear Creek	17.2%	14.0%	0.452	3.2
Evergreen Lake-Bear Creek	13.2%	5.7%	0.445	3.1
Fall River	20.9%	7.4%	0.357	2.4
Headwaters West Chicago Creek	20.7%	6.7%	0.340	2.3
Cub Creek	9.6%	2.0%	0.336	2.2
North Clear Creek	18.9%	7.2%	0.334	2.2
Middle Ralston Creek	19.4%	6.4%	0.321	2.1
Clear Creek Canyon	20.3%	5.3%	0.309	2.0
Beaver Brook-Clear Creek	17.2%	6.8%	0.308	2.0
Turkey Creek	6.0%	1.4%	0.288	1.8
Upper Ralston Creek	15.1%	5.7%	0.264	1.6
Mount Vernon Creek-Bear Creek	14.1%	5.0%	0.240	1.4
Troublesome Creek-Bear Creek	11.1%	3.0%	0.170	0.9
Bear Creek Lake	12.3%	2.2%	0.166	0.8
Van Bibber Creek	7.8%	2.5%	0.128	0.5

This page has been left blank intentionally

Composite Hazard Calculations

Sixth-level Watershed Name	Wildfire Hazard Rank	Flooding/ Debris Flow Rank	Soil Erodibility Rank	Composite Numeric Rank	Composite Hazard Rank
Vance Creek	3.9	2.7	5.5	12.1	4.0
Headwaters Bear Creek	2.4	2.5	3.3	8.2	2.2
Evergreen Lake-Bear Creek	4.9	3.2	3.1	11.2	3.6
Cub Creek	5.1	3.2	2.2	10.6	3.3
Troublesome Creek-Bear Creek	2.4	3.8	0.9	7.1	1.7
Mount Vernon Creek-Bear Creek	2.0	1.8	1.4	5.2	0.8
Turkey Creek	5.0	2.2	1.8	9.0	2.6
Bear Creek Lake	1.0	2.6	0.8	4.5	0.5
South Clear Creek	0.5	3.0	3.2	6.7	1.5
Headwaters Clear Creek	1.5	3.0	3.6	8.1	2.2
West Fork Clear Creek	2.8	1.6	4.3	8.7	2.4
Silver Creek-Clear Creek	4.6	5.3	5.5	15.5	5.5
Fall River	2.1	5.1	2.4	9.6	2.8
Mill Creek-Clear Creek	5.0	5.5	4.4	14.9	5.2
Headwaters West Chicago Creek	2.7	2.2	2.3	7.2	1.7
Outlet Chicago Creek	5.4	5.1	3.3	13.7	4.7
Soda Creek	5.5	5.0	3.3	13.8	4.7
North Clear Creek	3.7	3.8	2.2	9.7	2.9
City of Idaho Springs-Clear Creek	4.5	4.7	4.3	13.5	4.6
Upper Ralston Creek	5.3	0.5	1.6	7.4	1.8
Middle Ralston Creek	3.0	2.4	2.1	7.6	1.9
Van Bibber Creek	0.7	3.6	0.5	4.8	0.6
Beaver Brook-Clear Creek	3.3	3.8	2.0	9.1	2.6
Clear Creek Canyon	1.7	2.8	2.0	6.6	1.5

Composite Categories

Min	4.45126	
Max	15.46594	
Range	11.01468	
Step	2.20294	
Category	From	To
1	4.4513	6.6542
2	6.6542	8.8571
3	8.8571	11.0601
4	11.0601	13.2630
5	13.2630	15.4659

Composite Hazard

Sixth-level Watershed Name	Wildfire Hazard Rank	Flooding/ Debris Flow Rank	Soil Erodibility Rank	Composite Hazard Rank
Silver Creek-Clear Creek	4.6	5.3	5.5	5.5
Mill Creek-Clear Creek	5.0	5.5	4.4	5.2
Soda Creek	5.5	5.0	3.3	4.7
Outlet Chicago Creek	5.4	5.1	3.3	4.7
City of Idaho Springs-Clear Creek	4.5	4.7	4.3	4.6
Vance Creek	3.9	2.7	5.5	4.0
Evergreen Lake-Bear Creek	4.9	3.2	3.1	3.6
Cub Creek	5.1	3.2	2.2	3.3
North Clear Creek	3.7	3.8	2.2	2.9
Fall River	2.1	5.1	2.4	2.8
Beaver Brook-Clear Creek	3.3	3.8	2.0	2.6
Turkey Creek	5.0	2.2	1.8	2.6
West Fork Clear Creek	2.8	1.6	4.3	2.4
Headwaters Bear Creek	2.4	2.5	3.3	2.2
Headwaters Clear Creek	1.5	3.0	3.6	2.2
Middle Ralston Creek	3.0	2.4	2.1	1.9
Upper Ralston Creek	5.3	0.5	1.6	1.8
Headwaters West Chicago Creek	2.7	2.2	2.3	1.7
Troublesome Creek-Bear Creek	2.4	3.8	0.9	1.7
South Clear Creek	0.5	3.0	3.2	1.5
Clear Creek Canyon	1.7	2.8	2.0	1.5
Mount Vernon Creek-Bear Creek	2.0	1.8	1.4	0.8
Van Bibber Creek	0.7	3.6	0.5	0.6
Bear Creek Lake	1.0	2.6	0.8	0.5

This page has been left blank intentionally

Water Supply Ranking

Sixth-level Watershed Name	Watershed Area	Sources & Diversions	Reservoirs	Total Uses	Water Ranking
Vance Creek	18,559	0		0	0
Headwaters Bear Creek	28,652	1		1	1
Evergreen Lake-Bear Creek	20,431	1		1	1
Cub Creek	14,241	0		0	0
Troublesome Creek-Bear Creek	12,667	0		0	0
Mount Vernon Creek-Bear Creek	17,719	1		1	1
Turkey Creek	24,197	1		1	1
Bear Creek Lake	14,445	1		1	1
South Clear Creek	19,295	1		1	1
Headwaters Clear Creek	30,846	1		1	1
West Fork Clear Creek	36,752	1		1	1
Silver Creek-Clear Creek	5,260	0	1	1	1
Fall River	14,976	0		0	0
Mill Creek-Clear Creek	12,696	1		1	1
Headwaters West Chicago Creek	18,607	0		0	0
Outlet Chicago Creek	12,142	1		1	1
Soda Creek	8,941	1		1	1
North Clear Creek	38,491	1		1	1
City of Idaho Springs-Clear Creek	14,457	1		1	1
Upper Ralston Creek	20,615	0		0	0
Middle Ralston Creek	8,973	0	1	1	1
Van Bibber Creek	11,357	0		0	0
Beaver Brook-Clear Creek	26,222	1		1	1
Clear Creek Canyon	26,281	1		1	1

Final Watershed Ranking Calculations

Sixth-level Watershed Name	Wildfire Hazard	Flooding/ Debris Flow	Soil Erodibility	Composite	Water Supply	Overall Numeric	Overall Ranking
Vance Creek	3.9	2.7	5.5	4.0	0	4.0	3.0
Headwaters Bear Creek	2.4	2.5	3.3	2.2	1	3.2	2.2
Evergreen Lake-Bear Creek	4.9	3.2	3.1	3.6	1	4.6	3.6
Cub Creek	5.1	3.2	2.2	3.3	0	3.3	2.3
Troublesome Creek-Bear Creek	2.4	3.8	0.9	1.7	0	1.7	0.8
Mount Vernon Creek-Bear Creek	2.0	1.8	1.4	0.8	1	1.8	0.9
Turkey Creek	5.0	2.2	1.8	2.6	1	3.6	2.6
Bear Creek Lake	1.0	2.6	0.8	0.5	1	1.5	0.6
South Clear Creek	0.5	3.0	3.2	1.5	1	2.5	1.6
Headwaters Clear Creek	1.5	3.0	3.6	2.2	1	3.2	2.2
West Fork Clear Creek	2.8	1.6	4.3	2.4	1	3.4	2.5
Silver Creek-Clear Creek	4.6	5.3	5.5	5.5	1	6.5	5.5
Fall River	2.1	5.1	2.4	2.8	0	2.8	1.9
Mill Creek-Clear Creek	5.0	5.5	4.4	5.2	1	5.9	4.9
Headwaters West Chicago Creek	2.7	2.2	2.3	1.7	0	1.7	0.8
Outlet Chicago Creek	5.4	5.1	3.3	4.7	1	5.7	4.7
Soda Creek	5.5	5.0	3.3	4.7	1	5.7	4.8
North Clear Creek	3.7	3.8	2.2	2.9	1	3.9	2.9
City of Idaho Springs-Clear Creek	4.5	4.7	4.3	4.6	1	5.6	4.6
Upper Ralston Creek	5.3	0.5	1.6	1.8	0	1.8	0.9
Middle Ralston Creek	3.0	2.4	2.1	1.9	1	2.9	2.0
Van Bibber Creek	0.7	3.6	0.5	0.6	0	1.4	0.5
Beaver Brook-Clear Creek	3.3	3.8	2.0	2.6	1	3.6	2.7
Clear Creek Canyon	1.7	2.8	2.0	1.5	1	2.5	1.5

Final Categories

Min	1.40000	
Max	6.50000	
Range	5.10000	
Step	1.02000	
Category	From	To
1	1.4000	2.4200
2	2.4200	3.4400
3	3.4400	4.4600
4	4.4600	5.4800
5	5.4800	6.5000

Final Watershed Ranking

Sixth-level Watershed Name	Wildfire Hazard	Flooding/ Debris Flow	Soil Erodibility	Composite	Water Supply	Overall Ranking
Silver Creek-Clear Creek	4.6	5.3	5.5	5.5	1	5.5
Mill Creek-Clear Creek	5.0	5.5	4.4	5.2	1	4.9
Soda Creek	5.5	5.0	3.3	4.7	1	4.8
Outlet Chicago Creek	5.4	5.1	3.3	4.7	1	4.7
City of Idaho Springs-Clear Creek	4.5	4.7	4.3	4.6	1	4.6
Evergreen Lake-Bear Creek	4.9	3.2	3.1	3.6	1	3.6
Vance Creek	3.9	2.7	5.5	4.0	0	3.0
North Clear Creek	3.7	3.8	2.2	2.9	1	2.9
Beaver Brook-Clear Creek	3.3	3.8	2.0	2.6	1	2.7
Turkey Creek	5.0	2.2	1.8	2.6	1	2.6
West Fork Clear Creek	2.8	1.6	4.3	2.4	1	2.5
Cub Creek	5.1	3.2	2.2	3.3	0	2.3
Headwaters Bear Creek	2.4	2.5	3.3	2.2	1	2.2
Headwaters Clear Creek	1.5	3.0	3.6	2.2	1	2.2
Middle Ralston Creek	3.0	2.4	2.1	1.9	1	2.0
Fall River	2.1	5.1	2.4	2.8	0	1.9
South Clear Creek	0.5	3.0	3.2	1.5	1	1.6
Clear Creek Canyon	1.7	2.8	2.0	1.5	1	1.5
Upper Ralston Creek	5.3	0.5	1.6	1.8	0	0.9
Mount Vernon Creek-Bear Creek	2.0	1.8	1.4	0.8	1	0.9
Headwaters West Chicago Creek	2.7	2.2	2.3	1.7	0	0.8
Troublesome Creek-Bear Creek	2.4	3.8	0.9	1.7	0	0.8
Bear Creek Lake	1.0	2.6	0.8	0.5	1	0.6
Van Bibber Creek	0.7	3.6	0.5	0.6	0	0.5

This page has been left blank intentionally

Zones of Concern

Water Supply	0-5 Mile ZoC (acres)	5-11 Mile ZoC (acres)	Total ZoC Area (acres)	Water Supply Agency
Beaver Brook	4,888			Lookout Mountain WD
Broomfield Gulch	73			City of Central City
Chase Gulch Reservoir	1,897			City of Central City
Chicago Creek	13,586			City of Idaho Springs
Climax-Henderson	2,509			Climax-Henderson Mine
Evergreen Lake	8,521			Evergreen Metro District
Genesee	11,413			Genesee W&SD
Georgetown Lake				Various
Guanella Reservoir	6,939			City of Golden
Hidden Valley	7,790			City of Black Hawk
Idledale	867			Idledale W&SD
Loveland Ski 1	536			Loveland Valley Ski Company
Loveland Ski 2	262			Loveland Valley Ski Company
Lower Bear Creek	6,567			Town of Morrison
Lower Cabin and Clear Lake	6,273			Public Service Company of Colorado
Lower Clear Creek 1	11,246			City of Golden, City of Arvada, City of Thornton, Molson Coors
Lower Clear Creek 2	6,453			City of Golden, City of Arvada, City of Thornton
Lower Turkey Creek	3,437			Denver Water
Mad Creek	2,564			Town of Empire
Mill Creek	3,628			Mill Creek Park WIA
Miners Gulch	1,000			City of Central City
Missouri Creek Res (Proposed)	2,438			City of Black Hawk
North Clear Creek	9,326			City of Black Hawk
North Turkey Creek	2,654			Conifer High School
Pecks Gulch	499			City of Central City
Quartz Valley Res (Proposed)	2,408			City of Black Hawk
Ralston Reservoir	6,844			City of Arvada, Denver Water, North Table Mtn W&S
Silver Plume	9,550			Town of Silver Plume
Singing River	6,148			Singing River Ranch
Soda Creek	8,425			City of Idaho Springs
South Clear Creek	7,862			Town of Georgetown
Urad Reservoirs	6,046			City of Golden
Total	162,648	0	0	

Water Diversions

Water Supply	Watershed Name	Water Supply Agency
Climax	West Fork Clear Creek	Henderson Mine
Madd Creek	West Fork Clear Creek	Town of Empire
Tributary of Clear Creek	Headwaters Clear Creek	Loveland Basin Ski Area
Tributary of Clear Creek	Headwaters Clear Creek	Loveland Valley Ski Area
SW Infiltration Gallery	Headwaters Clear Creek	Town of Silver Plume
South Clear Creek	South Clear Creek	Town of Georgetown
Mill Creek	Mill Creek-Clear Creek	Mill Creek Park WIA
Chicago Creek Intake	Outlet Chicago Creek	City of Idaho Springs
Soda Creek	Soda Creek	City of Idaho Springs
Hidden Valley Intake	City of Idaho Springs-Clear Creek	City of Black Hawk
Lower Beaver Brook Reservoir	Beaver Brook-Clear Creek	Lookout Mountain WD
Miners Gulch	North Clear Creek	City of Central City
Broomfield Gulch	North Clear Creek	City of Central City
Pecks Gulch	North Clear Creek	City of Central City
Hole-In-The-Ground Reservoir	North Clear Creek	City of Central City
Chase Gulch Reservoir	North Clear Creek	City of Central City
North Clear Creek Inf. Gallery	North Clear Creek	City of Black Hawk
N. Clear Creek Firehouse Intake	North Clear Creek	City of Black Hawk
BH pumping station	North Clear Creek	City of Black Hawk
Clear Creek Diversion	Clear Creek Canyon	City of Golden
Church Ditch Diversion	Clear Creek Canyon	City of Thornton, City of Arvada
Farmers Highline Canal	Clear Creek Canyon	City of Thornton, City of Arvada
Clear Creek Diversion	Clear Creek Canyon	Coors Brewing Company
Diversion to Croke Ditch	Clear Creek Canyon	City of Thornton, City of Arvada
Ralston Reservoir	Middle Ralston Creek	Denver Water Board
Ralston Reservoir	Middle Ralston Creek	North Table Mtn W&S
Ralston Reservoir	Middle Ralston Creek	City of Arvada
Ralston Reservoir	Middle Ralston Creek	Rocky Flats Plant
Singing River	Headwaters Bear Creek	???
Evergreen Lake	Evergreen Lake-Bear Creek	Evergreen WD
Bear Creek	Mount Vernon Creek-Bear Creek	Genesee W&SD
Riefenberg Gulch	Mount Vernon Creek-Bear Creek	Idledale W&SD
Morrison Intake	Mount Vernon Creek-Bear Creek	Town of Morrison
Bear Creek Diversion	Mount Vernon Creek-Bear Creek	Denver Water Board
Bear Creek Diversion	Bear Creek Lake	Bear Creek Lake Park
Turkey Creek Diversion	Bear Creek Lake	Denver Water Board
Turkey Creek Diversion	Bear Creek Lake	Bear Creek Lake Park