

Saint Vrain Watersheds

12 code HUC	6th Level Watershed Name	Acres	5 th Level HUC Name	10 code HUC
101900050101	Headwaters South Saint Vrain	21,839	South Saint Vrain Creek	1019000501
101900050102	Middle Saint Vrain Creek	20,944	South Saint Vrain Creek	1019000501
101900050103	Outlet South Saint Vrain Creek	14,358	South Saint Vrain Creek	1019000501
101900050201	Rock Creek	9,428	North Saint Vrain Creek	1019000502
101900050202	Headwaters North Saint Vrain	24,238	North Saint Vrain Creek	1019000502
101900050203	Cabin Creek	14,498	North Saint Vrain Creek	1019000502
101900050204	Outlet North Saint Vrain Creek	31,351	North Saint Vrain Creek	1019000502
101900050301	James Creek (1)	11,917	Left Hand Creek	1019000503
101900050302	Upper Left Hand Creek	14,839	Left Hand Creek	1019000503
101900050303	Middle Left Hand Creek	10,290	Left Hand Creek	1019000503
101900050304	Lower Left Hand Creek	9,484	Left Hand Creek	1019000503
101900050401	North Boulder Creek	28,612	Headwaters Boulder Creek	1019000504
101900050402	Middle Boulder Creek	28,334	Headwaters Boulder Creek	1019000504
101900050403	Fourmile Creek	15,528	Headwaters Boulder Creek	1019000504
101900050404	Boulder Creek Canyon	9,783	Headwaters Boulder Creek	1019000504
101900050405	Fourmile Canyon Creek	6,495	Headwaters Boulder Creek	1019000504
101900050406	City of Boulder-Boulder Creek	18,556	Headwaters Boulder Creek	1019000504
101900050501	Headwaters South Boulder Creek	19,430	South Boulder Creek	1019000505
101900050502	Upper South Boulder Creek	26,124	South Boulder Creek	1019000505
101900050503	Middle South Boulder Creek	25,637	South Boulder Creek	1019000505
101900050504	Lower South Boulder Creek	14,534	South Boulder Creek	1019000505
101900050601	Dry Creek-Boulder Creek	14,059	Coal Creek-Boulder Creek	1019000506
101900050602	Upper Coal Creek	16,423	Coal Creek-Boulder Creek	1019000506
101900050603	Middle Coal Creek	19,799	Coal Creek-Boulder Creek	1019000506
101900050701	Indian Mountain-Saint Vrain Creek	14,972	Boulder Creek-Saint Vrain	1019000507
101900050702	Dry Creek	8,958	Boulder Creek-Saint Vrain	1019000507
101900050703	McIntosh Lake-Saint Vrain Creek	28,617	Boulder Creek-Saint Vrain	1019000507
101900050704	Boulder Reservoir	21,482	Boulder Creek-Saint Vrain	1019000507
	Total	500,529		

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
Headwaters South Saint Vrain Creek	4,993.1	2,662.7	835.7	13,362.5	61.19%	21,839	3.7
Middle Saint Vrain Creek	5,332.5	2,066.7	1,351.9	12,211.4	58.31%	20,944	3.5
Outlet South Saint Vrain Creek	573.3	458.4	2,372.9	10,970.1	76.40%	14,358	5.1
Rock Creek	530.4	644.7	686.1	7,576.6	80.36%	9,428	5.5
Headwaters North Saint Vrain Creek	8,436.8	1,583.2	1,536.5	12,684.5	52.33%	24,238	2.9
Cabin Creek	1,973.0	2,178.8	1,053.5	9,246.8	63.78%	14,498	4.0
Outlet North Saint Vrain Creek	1,492.9	973.4	4,233.2	24,626.1	78.55%	31,351	5.3
James Creek (1)	269.8	2,791.4	1,654.1	7,218.1	60.57%	11,917	3.7
Upper Left Hand Creek	1,049.9	2,896.2	1,827.6	9,082.9	61.21%	14,839	3.7
Middle Left Hand Creek	556.0	140.6	2,596.0	7,005.7	68.08%	10,290	4.4
Lower Left Hand Creek	6,732.0	5.1	46.9	2,713.8	28.61%	9,484	0.8
North Boulder Creek	4,903.3	4,889.9	2,132.1	16,714.2	58.42%	28,612	3.5
Middle Boulder Creek	7,656.9	3,366.8	1,337.7	15,983.0	56.41%	28,334	3.3
Fourmile Creek	340.7	2,796.6	2,605.5	9,800.1	63.11%	15,528	3.9
Boulder Creek Canyon	355.6	311.1	1,730.0	7,399.6	75.64%	9,783	5.1
Fourmile Canyon Creek	1,379.9	37.8	1,043.0	4,043.5	62.26%	6,495	3.8
City of Boulder-Boulder Creek	10,560.9	68.3	1,608.3	6,341.5	34.17%	18,556	1.3
Headwaters South Boulder Creek	4,890.6	1,432.0	931.4	12,179.9	62.69%	19,430	3.9
Upper South Boulder Creek	868.0	6,254.3	1,373.7	17,642.9	67.54%	26,124	4.3
Middle South Boulder Creek	1,308.3	4,154.9	3,738.6	16,464.9	64.22%	25,637	4.0
Lower South Boulder Creek	3,141.5	44.3	1,364.8	10,003.6	68.83%	14,534	4.4
Dry Creek-Boulder Creek	8,325.2	0.0	15.3	5,718.8	40.68%	14,059	1.9
Upper Coal Creek	997.4	2,667.8	1,285.6	11,483.3	69.92%	16,423	4.5
Middle Coal Creek	12,149.6	0.0	34.0	7,593.1	38.35%	19,799	1.6
Indian Mountain-Saint Vrain Creek	5,878.9	41.1	366.7	8,680.8	57.98%	14,972	3.4
Dry Creek	5,891.1	0.0	1.1	3,071.7	34.29%	8,958	1.3
McIntosh Lake-Saint Vrain Creek	20,993.4	10.2	202.8	7,393.4	25.84%	28,617	0.5
Boulder Reservoir	13,802.9	6.2	14.2	7,653.6	35.63%	21,482	1.4
Totals	135,383.7	42,482.3	37,979.3	284,865.8	56.91%	500,529.0	

Wildfire Hazard Categories

Min	0.25836	
Max	0.80363	
Range	0.54527	
Step	0.10905	
Category	From	To
1	0.2584	0.3674
2	0.3674	0.4765
3	0.4765	0.5855
4	0.5855	0.6946
5	0.6946	0.8036

Wildfire Hazard

Sixth-level Watershed Name	Watershed Area (acres)	Wildfire Hazard Calculation	Wildfire Hazard Rank
Rock Creek	9,428	80.4%	5.5
Outlet North Saint Vrain Creek	31,351	78.5%	5.3
Outlet South Saint Vrain Creek	14,358	76.4%	5.1
Boulder Creek Canyon	9,783	75.6%	5.1
Upper Coal Creek	16,423	69.9%	4.5
Lower South Boulder Creek	14,534	68.8%	4.4
Middle Left Hand Creek	10,290	68.1%	4.4
Upper South Boulder Creek	26,124	67.5%	4.3
Middle South Boulder Creek	25,637	64.2%	4.0
Cabin Creek	14,498	63.8%	4.0
Fourmile Creek	15,528	63.1%	3.9
Headwaters South Boulder Creek	19,430	62.7%	3.9
Fourmile Canyon Creek	6,495	62.3%	3.8
Upper Left Hand Creek	14,839	61.2%	3.7
Headwaters South Saint Vrain Creek	21,839	61.2%	3.7
James Creek (1)	11,917	60.6%	3.7
North Boulder Creek	28,612	58.4%	3.5
Middle Saint Vrain Creek	20,944	58.3%	3.5
Indian Mountain-Saint Vrain Creek	14,972	58.0%	3.4
Middle Boulder Creek	28,334	56.4%	3.3
Headwaters North Saint Vrain Creek	24,238	52.3%	2.9
Dry Creek-Boulder Creek	14,059	40.7%	1.9
Middle Coal Creek	19,799	38.4%	1.6
Boulder Reservoir	21,482	35.6%	1.4
Dry Creek	8,958	34.3%	1.3
City of Boulder-Boulder Creek	18,556	34.2%	1.3
Lower Left Hand Creek	9,484	28.6%	0.8
McIntosh Lake-Saint Vrain Creek	28,617	25.8%	0.5
Totals	500,529		

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Ruggedness Calculations

Sixth-level Watershed Name	Watershed Area (sq. ft.)	Maximum Elevation	Minimum Elevation	Difference Elevation	Area -0.5	Ruggedness	Ruggedness Rank
Headwaters South Saint Vrain Creek	951,306,840	13,369	6,973	6,396	0.000032	0.2074	4.8
Middle Saint Vrain Creek	912,320,640	13,117	7,091	6,026	0.000033	0.1995	4.6
Outlet South Saint Vrain Creek	625,434,480	8,574	5,320	3,254	0.000040	0.1301	3.0
Rock Creek	410,683,680	11,631	7,649	3,982	0.000049	0.1965	4.6
Headwaters North Saint Vrain Creek	1,055,807,280	14,252	7,718	6,534	0.00003	0.2011	4.7
Cabin Creek	631,532,880	13,556	7,629	5,927	0.000040	0.2359	5.5
Outlet North Saint Vrain Creek	1,365,649,560	9,243	5,346	3,897	0.000027	0.1055	2.4
James Creek (1)	519,104,520	10,047	6,416	3,631	0.000044	0.1594	3.7
Upper Left Hand Creek	646,386,840	11,513	6,317	5,196	0.000039	0.2044	4.7
Middle Left Hand Creek	448,232,400	8,554	5,648	2,906	0.000047	0.1373	3.1
Lower Left Hand Creek	413,123,040	6,271	4,923	1,348	0.000049	0.0663	1.5
North Boulder Creek	1,246,338,720	13,504	7,108	6,396	0.000028	0.1812	4.2
Middle Boulder Creek	1,234,229,040	13,389	6,918	6,471	0.000028	0.1842	4.3
Fourmile Creek	676,399,680	11,467	5,766	5,701	0.000038	0.2192	5.1
Boulder Creek Canyon	426,147,480	8,863	5,724	3,139	0.000048	0.1521	3.5
Fourmile Canyon Creek	282,922,200	8,295	5,169	3,126	0.000059	0.1858	4.3
City of Boulder-Boulder Creek	808,299,360	8,220	5,159	3,061	0.000035	0.1077	2.4
Headwaters South Boulder Creek	846,370,800	13,291	8,843	4,448	0.000034	0.1529	3.5
Upper South Boulder Creek	568,980,720	10,886	8,082	2,804	0.000042	0.1176	2.7
Middle South Boulder Creek	1,116,747,720	10,384	6,117	4,267	0.000030	0.1277	2.9
Lower South Boulder Creek	633,101,040	8,731	5,150	3,581	0.000040	0.1423	3.3
Dry Creek-Boulder Creek	612,410,040	5,707	5,061	646	0.000040	0.0261	0.5
Upper Coal Creek	715,385,880	10,496	5,455	5,041	0.00004	0.1885	4.4
Middle Coal Creek	862,444,440	6,334	5,120	1,214	0.000034	0.0413	0.9
Indian Mountain-Saint Vrain Creek	652,180,320	6,754	5,071	1,683	0.000039	0.0659	1.4
Dry Creek	390,210,480	5,596	4,940	656	0.000051	0.0332	0.7
McIntosh Lake-Saint Vrain Creek	1,246,556,520	6,803	4,930	1,873	0.000028	0.0530	1.1
Boulder Reservoir	935,755,920	6,665	4,887	1,778	0.000033	0.0581	1.3

Ruggedness Categories

Min	0.02610	
Max	0.23585	
Range	0.20975	
Step	0.04195	
Category	From	To
1	0.0261	0.0681
2	0.0681	0.1100
3	0.1100	0.1520
4	0.1520	0.1939
5	0.1939	0.2359

Ruggedness

Sixth-level Watershed Name	Maximum Elevation	Minimum Elevation	Difference Elevation	Ruggedness	Ruggedness Rank
Cabin Creek	13,556	7,629	5,927	0.2359	5.5
Fourmile Creek	11,467	5,766	5,701	0.2192	5.1
Headwaters South Saint Vrain Creek	13,369	6,973	6,396	0.2074	4.8
Upper Left Hand Creek	11,513	6,317	5,196	0.2044	4.7
Headwaters North Saint Vrain Creek	14,252	7,718	6,534	0.2011	4.7
Middle Saint Vrain Creek	13,117	7,091	6,026	0.1995	4.6
Rock Creek	11,631	7,649	3,982	0.1965	4.6
Upper Coal Creek	10,496	5,455	5,041	0.1885	4.4
Fourmile Canyon Creek	8,295	5,169	3,126	0.1858	4.3
Middle Boulder Creek	13,389	6,918	6,471	0.1842	4.3
North Boulder Creek	13,504	7,108	6,396	0.1812	4.2
James Creek (1)	10,047	6,416	3,631	0.1594	3.7
Headwaters South Boulder Creek	13,291	8,843	4,448	0.1529	3.5
Boulder Creek Canyon	8,863	5,724	3,139	0.1521	3.5
Lower South Boulder Creek	8,731	5,150	3,581	0.1423	3.3
Middle Left Hand Creek	8,554	5,648	2,906	0.1373	3.1
Outlet South Saint Vrain Creek	8,574	5,320	3,254	0.1301	3.0
Middle South Boulder Creek	10,384	6,117	4,267	0.1277	2.9
Upper South Boulder Creek	10,886	8,082	2,804	0.1176	2.7
City of Boulder-Boulder Creek	8,220	5,159	3,061	0.1077	2.4
Outlet North Saint Vrain Creek	9,243	5,346	3,897	0.1055	2.4
Lower Left Hand Creek	6,271	4,923	1,348	0.0663	1.5
Indian Mountain-Saint Vrain Creek	6,754	5,071	1,683	0.0659	1.4
Boulder Reservoir	6,665	4,887	1,778	0.0581	1.3
McIntosh Lake-Saint Vrain Creek	6,803	4,930	1,873	0.0530	1.1
Middle Coal Creek	6,334	5,120	1,214	0.0413	0.9
Dry Creek	5,596	4,940	656	0.0332	0.7
Dry Creek-Boulder Creek	5,707	5,061	646	0.0261	0.5

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Road Density Calculations

HUC	Sixth-level Watershed Name	Roads (miles)	Roads Adjusted (miles)	Watershed Area (sq. mi.)	Road density (miles per sq. mi.)	Road Density Rank
101900050101	Headwaters South Saint Vrain	6.9	6.9	34.12	0.20	1.9
101900050102	Middle Saint Vrain Creek	7.1	7.1	32.73	0.22	2.0
101900050103	Outlet South Saint Vrain Creek	6.4	6.4	22.43	0.29	2.5
101900050201	Rock Creek	5.1	5.1	14.73	0.35	2.9
101900050202	Headwaters North Saint Vrain	3.2	3.2	37.87	0.09	1.0
101900050203	Cabin Creek	8.1	8.1	22.65	0.36	3.0
101900050204	Outlet North Saint Vrain Creek	16.2	16.2	48.99	0.33	2.8
101900050301	James Creek (1)	7.2	7.2	18.62	0.39	3.2
101900050302	Upper Left Hand Creek	12.5	12.5	23.19	0.54	4.4
101900050303	Middle Left Hand Creek	5.3	5.3	16.08	0.33	2.8
101900050304	Lower Left Hand Creek	20.5	1.0	14.82	0.07	0.8
101900050401	North Boulder Creek	13.6	13.6	44.71	0.30	2.6
101900050402	Middle Boulder Creek	16.6	16.6	44.27	0.37	3.1
101900050403	Fourmile Creek	15.4	15.4	24.26	0.63	5.1
101900050404	Boulder Creek Canyon	9.4	9.4	15.29	0.61	4.9
101900050405	Fourmile Canyon Creek	14.3	7.0	10.15	0.69	5.5
101900050406	City of Boulder-Boulder Creek	89.4	1.0	28.99	0.03	0.6
101900050501	Headwaters South Boulder Creek	8.1	8.1	30.36	0.27	2.3
101900050502	Upper South Boulder Creek	26.0	26.0	40.82	0.64	5.1
101900050503	Middle South Boulder Creek	17.9	17.9	40.06	0.45	3.7
101900050504	Lower South Boulder Creek	12.6	6.0	22.71	0.26	2.3
101900050601	Dry Creek-Boulder Creek	26.1	1.0	21.97	0.05	0.7
101900050602	Upper Coal Creek	16.5	16.5	25.66	0.64	5.1
101900050603	Middle Coal Creek	65.0	1.0	30.94	0.03	0.6
101900050701	Indian Mountain-Saint Vrain Creek	11.0	1.0	23.39	0.04	0.7
101900050702	Dry Creek	18.7	1.0	14.00	0.07	0.9
101900050703	McIntosh Lake-Saint Vrain Creek	72.8	1.0	44.71	0.02	0.5
101900050704	Boulder Reservoir	36.1	1.0	33.57	0.03	0.6
Totals		568	222	782.1	0.28	

Road Density Categories

Min	0.02236	
Max	0.68976	
Range	0.66740	
Step	0.13348	
Category	From	To
1	0.0224	0.1558
2	0.1558	0.2893
3	0.2893	0.4228
4	0.4228	0.5563
5	0.5563	0.6898

Road Density

Sixth-level Watershed Name	Roads (miles)	Roads Adjusted (miles)	Watershed Area (sq. mi.)	Road density (miles per sq. mi.)	Road Density Rank
Fourmile Canyon Creek	14.3	7.0	10.15	0.69	5.5
Upper Coal Creek	16.5	16.5	25.66	0.64	5.1
Upper South Boulder Creek	26.0	26.0	40.82	0.64	5.1
Fourmile Creek	15.4	15.4	24.26	0.63	5.1
Boulder Creek Canyon	9.4	9.4	15.29	0.61	4.9
Upper Left Hand Creek	12.5	12.5	23.19	0.54	4.4
Middle South Boulder Creek	17.9	17.9	40.06	0.45	3.7
James Creek (1)	7.2	7.2	18.62	0.39	3.2
Middle Boulder Creek	16.6	16.6	44.27	0.37	3.1
Cabin Creek	8.1	8.1	22.65	0.36	3.0
Rock Creek	5.1	5.1	14.73	0.35	2.9
Outlet North Saint Vrain Creek	16.2	16.2	48.99	0.33	2.8
Middle Left Hand Creek	5.3	5.3	16.08	0.33	2.8
North Boulder Creek	13.6	13.6	44.71	0.30	2.6
Outlet South Saint Vrain Creek	6.4	6.4	22.43	0.29	2.5
Headwaters South Boulder Creek	8.1	8.1	30.36	0.27	2.3
Lower South Boulder Creek	12.6	6.0	22.71	0.26	2.3
Middle Saint Vrain Creek	7.1	7.1	32.73	0.22	2.0
Headwaters South Saint Vrain Creek	6.9	6.9	34.12	0.20	1.9
Headwaters North Saint Vrain Creek	3.2	3.2	37.87	0.09	1.0
Dry Creek	18.7	1.0	14.00	0.07	0.9
Lower Left Hand Creek	20.5	1.0	14.82	0.07	0.8
Dry Creek-Boulder Creek	26.1	1.0	21.97	0.05	0.7
Indian Mountain-Saint Vrain Creek	11.0	1.0	23.39	0.04	0.7
City of Boulder-Boulder Creek	89.4	1.0	28.99	0.03	0.6
Middle Coal Creek	65.0	1.0	30.94	0.03	0.6
Boulder Reservoir	36.1	1.0	33.57	0.03	0.6
McIntosh Lake-Saint Vrain Creek	72.8	1.0	44.71	0.02	0.5
Totals	568.0	222.5	782.08	0.28	

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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
Headwaters South Saint Vrain Creek	21,839	0.2074	4.8	0.20	1.9	11.50	4.1
Middle Saint Vrain Creek	20,944	0.1995	4.6	0.22	2.0	11.23	4.0
Outlet South Saint Vrain Creek	14,358	0.1301	3.0	0.29	2.5	8.43	3.0
Rock Creek	9,428	0.1965	4.6	0.35	2.9	12.06	4.3
Headwaters North Saint Vrain Creek	24,238	0.2011	4.7	0.09	1.0	10.32	3.7
Cabin Creek	14,498	0.2359	5.5	0.36	3.0	14.00	5.0
Outlet North Saint Vrain Creek	31,351	0.1055	2.4	0.33	2.8	7.60	2.7
James Creek (1)	11,917	0.1594	3.7	0.39	3.2	10.58	3.8
Upper Left Hand Creek	14,839	0.2044	4.7	0.54	4.4	13.87	5.0
Middle Left Hand Creek	10,290	0.1373	3.1	0.33	2.8	9.11	3.2
Lower Left Hand Creek	9,484	0.0663	1.5	0.07	0.8	3.76	1.3
North Boulder Creek	28,612	0.1812	4.2	0.30	2.6	11.00	3.9
Middle Boulder Creek	28,334	0.1842	4.3	0.37	3.1	11.67	4.2
Fourmile Creek	15,528	0.2192	5.1	0.63	5.1	15.29	5.5
Boulder Creek Canyon	9,783	0.1521	3.5	0.61	4.9	11.92	4.3
Fourmile Canyon Creek	6,495	0.1858	4.3	0.69	5.5	14.12	5.1
City of Boulder-Boulder Creek	18,556	0.1077	2.4	0.03	0.6	5.48	1.9
Headwaters South Boulder Creek	19,430	0.1529	3.5	0.27	2.3	9.38	3.3
Upper South Boulder Creek	26,124	0.1176	2.7	0.64	5.1	10.46	3.7
Middle South Boulder Creek	25,637	0.1277	2.9	0.45	3.7	9.52	3.4
Lower South Boulder Creek	14,534	0.1423	3.3	0.26	2.3	8.85	3.1
Dry Creek-Boulder Creek	14,059	0.0261	0.5	0.05	0.7	1.67	0.5
Upper Coal Creek	16,423	0.1885	4.4	0.64	5.1	13.89	5.0
Middle Coal Creek	19,799	0.0413	0.9	0.03	0.6	2.30	0.7
Indian Mountain-Saint Vrain Creek	14,972	0.0659	1.4	0.04	0.7	3.55	1.2
Dry Creek	8,958	0.0332	0.7	0.07	0.9	2.21	0.7
McIntosh Lake-Saint Vrain Creek	28,617	0.0530	1.1	0.02	0.5	2.78	0.9
Boulder Reservoir	21,482	0.0581	1.3	0.03	0.6	3.08	1.0

Flooding Categories

Min	1.67350	
Max	15.29220	
Range	13.61870	
Step	2.72374	
Category	From	To
1	1.6735	4.3972
2	4.3972	7.1210
3	7.1210	9.8447
4	9.8447	12.5685
5	12.5685	15.2922

Flooding Debris Flow Hazard

Sixth-level Watershed Name	Ruggedness Ranking	Road Density Ranking	Combined Numeric Rank	Combined Ranking
Fourmile Creek	5.1	5.1	15.29	5.5
Fourmile Canyon Creek	4.3	5.5	14.12	5.1
Cabin Creek	5.5	3.0	14.00	5.0
Upper Coal Creek	4.4	5.1	13.89	5.0
Upper Left Hand Creek	4.7	4.4	13.87	5.0
Rock Creek	4.6	2.9	12.06	4.3
Boulder Creek Canyon	3.5	4.9	11.92	4.3
Middle Boulder Creek	4.3	3.1	11.67	4.2
Headwaters South Saint Vrain Creek	4.8	1.9	11.50	4.1
Middle Saint Vrain Creek	4.6	2.0	11.23	4.0
North Boulder Creek	4.2	2.6	11.00	3.9
James Creek (1)	3.7	3.2	10.58	3.8
Upper South Boulder Creek	2.7	5.1	10.46	3.7
Headwaters North Saint Vrain Creek	4.7	1.0	10.32	3.7
Middle South Boulder Creek	2.9	3.7	9.52	3.4
Headwaters South Boulder Creek	3.5	2.3	9.38	3.3
Middle Left Hand Creek	3.1	2.8	9.11	3.2
Lower South Boulder Creek	3.3	2.3	8.85	3.1
Outlet South Saint Vrain Creek	3.0	2.5	8.43	3.0
Outlet North Saint Vrain Creek	2.4	2.8	7.60	2.7
City of Boulder-Boulder Creek	2.4	0.6	5.48	1.9
Lower Left Hand Creek	1.5	0.8	3.76	1.3
Indian Mountain-Saint Vrain Creek	1.4	0.7	3.55	1.2
Boulder Reservoir	1.3	0.6	3.08	1.0
McIntosh Lake-Saint Vrain Creek	1.1	0.5	2.78	0.9
Middle Coal Creek	0.9	0.6	2.30	0.7
Dry Creek	0.7	0.9	2.21	0.7
Dry Creek-Boulder Creek	0.5	0.7	1.67	0.5

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Soil Erodibility Calculation

HUC	Sixth-level Watershed Name	Severe (acres)	Severe (%)	Very Severe (acres)	Very Severe (%)	Soil Erodibility Value	Watershed Area	Soil Erodibility Rank
101900050101	Headwaters South Saint Vrain Creek	129.0	0.6%	0.0	0.0%	0.006	21,839	0.6
101900050102	Middle Saint Vrain Creek	280.7	1.3%	0.0	0.0%	0.013	20,944	0.7
101900050103	Outlet South Saint Vrain Creek	3,217.5	22.4%	60.7	0.4%	0.233	14,358	4.0
101900050201	Rock Creek	0.0	0.0%	0.0	0.0%	0.000	9,428	0.5
101900050202	Headwaters North Saint Vrain Creek	0.0	0.0%	0.0	0.0%	0.000	24,238	0.5
101900050203	Cabin Creek	0.0	0.0%	0.0	0.0%	0.000	14,498	0.5
101900050204	Outlet North Saint Vrain Creek	4,344.8	13.9%	660.7	2.1%	0.181	31,351	3.2
101900050301	James Creek (1)	1,882.1	15.8%	0.0	0.0%	0.158	11,917	2.9
101900050302	Upper Left Hand Creek	9,814.5	66.1%	21.4	0.1%	0.330	14,839	5.5
101900050303	Middle Left Hand Creek	2,684.5	26.1%	1,087.3	10.6%	0.330	10,290	5.5
101900050304	Lower Left Hand Creek	69.6	0.7%	243.1	2.6%	0.059	9,484	1.4
101900050401	North Boulder Creek	675.0	2.4%	176.1	0.6%	0.036	28,612	1.0
101900050402	Middle Boulder Creek	1,455.1	5.1%	797.0	2.8%	0.108	28,334	2.1
101900050403	Fourmile Creek	3,917.8	25.2%	35.6	0.2%	0.257	15,528	4.4
101900050404	Boulder Creek Canyon	4,855.0	49.6%	0.0	0.0%	0.330	9,783	5.5
101900050405	Fourmile Canyon Creek	1,040.3	16.0%	370.1	5.7%	0.274	6,495	4.7
101900050406	City of Boulder-Boulder Creek	1,475.8	8.0%	13,201.5	71.1%	0.330	18,556	5.5
101900050501	Headwaters South Boulder Creek	0.0	0.0%	0.0	0.0%	0.000	19,430	0.5
101900050502	Upper South Boulder Creek	2,201.4	8.4%	871.1	3.3%	0.151	26,124	2.8
101900050503	Middle South Boulder Creek	4,369.5	17.0%	1,975.9	7.7%	0.325	25,637	5.4
101900050504	Lower South Boulder Creek	2,356.0	16.2%	909.8	6.3%	0.287	14,534	4.9
101900050601	Dry Creek-Boulder Creek	11.8	0.1%	2.2	0.0%	0.001	14,059	0.5
101900050602	Upper Coal Creek	2,701.1	16.4%	1,017.4	6.2%	0.288	16,423	4.9
101900050603	Middle Coal Creek	295.8	1.5%	0.0	0.0%	0.015	19,799	0.7
101900050701	Indian Mountain-Saint Vrain Creek	2,056.7	13.7%	9,960.6	66.5%	0.330	14,972	5.5
101900050702	Dry Creek	110.8	1.2%	2.0	0.0%	0.013	8,958	0.7
101900050703	McIntosh Lake-Saint Vrain Creek	394.5	1.4%	136.8	0.5%	0.023	28,617	0.9
101900050704	Boulder Reservoir	411.0	1.9%	365.4	1.7%	0.053	21,482	1.3

Soils Categories

Min	0.00000	
Max	0.33000	
Range	0.33000	
Step	0.06600	
Category	From	To
1	0.0000	0.0660
2	0.0660	0.1320
3	0.1320	0.1980
4	0.1980	0.2640
5	0.2640	0.3300

Soil Erodibility

Sixth-level Watershed Name	Severe (%)	Very Severe (%)	Soil Erodibility Value	Soil Erodibility Rank
City of Boulder-Boulder Creek	8.0%	71.1%	0.330	5.5
Indian Mountain-Saint Vrain Creek	13.7%	66.5%	0.330	5.5
Upper Left Hand Creek	66.1%	0.1%	0.330	5.5
Middle Left Hand Creek	26.1%	10.6%	0.330	5.5
Boulder Creek Canyon	49.6%	0.0%	0.330	5.5
Middle South Boulder Creek	17.0%	7.7%	0.325	5.4
Upper Coal Creek	16.4%	6.2%	0.288	4.9
Lower South Boulder Creek	16.2%	6.3%	0.287	4.9
Fourmile Canyon Creek	16.0%	5.7%	0.274	4.7
Fourmile Creek	25.2%	0.2%	0.257	4.4
Outlet South Saint Vrain Creek	22.4%	0.4%	0.233	4.0
Outlet North Saint Vrain Creek	13.9%	2.1%	0.181	3.2
James Creek (1)	15.8%	0.0%	0.158	2.9
Upper South Boulder Creek	8.4%	3.3%	0.151	2.8
Middle Boulder Creek	5.1%	2.8%	0.108	2.1
Lower Left Hand Creek	0.7%	2.6%	0.059	1.4
Boulder Reservoir	1.9%	1.7%	0.053	1.3
North Boulder Creek	2.4%	0.6%	0.036	1.0
McIntosh Lake-Saint Vrain Creek	1.4%	0.5%	0.023	0.9
Middle Coal Creek	1.5%	0.0%	0.015	0.7
Middle Saint Vrain Creek	1.3%	0.0%	0.013	0.7
Dry Creek	1.2%	0.0%	0.013	0.7
Headwaters South Saint Vrain Creek	0.6%	0.0%	0.006	0.6
Dry Creek-Boulder Creek	0.1%	0.0%	0.001	0.5
Rock Creek	0.0%	0.0%	0.000	0.5
Headwaters North Saint Vrain Creek	0.0%	0.0%	0.000	0.5
Cabin Creek	0.0%	0.0%	0.000	0.5
Headwaters South Boulder Creek	0.0%	0.0%	0.000	0.5

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Composite Hazard Calculation

Sixth-level Watershed Name	Wildfire Hazard Rank	Flooding/ Debris Flow Rank	Soil Erodibility Rank	Composite Numeric Rank	Composite Hazard Rank
Headwaters South Saint Vrain Creek	3.7	4.1	0.6	8.4	3.0
Middle Saint Vrain Creek	3.5	4.0	0.7	8.2	2.9
Outlet South Saint Vrain Creek	5.1	3.0	4.0	12.1	4.4
Rock Creek	5.5	4.3	0.5	10.3	3.7
Headwaters North Saint Vrain Creek	2.9	3.7	0.5	7.1	2.4
Cabin Creek	4.0	5.0	0.5	9.5	3.4
Outlet North Saint Vrain Creek	5.3	2.7	3.2	11.2	4.1
James Creek (1)	3.7	3.8	2.9	10.3	3.7
Upper Left Hand Creek	3.7	5.0	5.5	14.2	5.3
Middle Left Hand Creek	4.4	3.2	5.5	13.1	4.8
Lower Left Hand Creek	0.8	1.3	1.4	3.4	1.0
North Boulder Creek	3.5	3.9	1.0	8.5	3.0
Middle Boulder Creek	3.3	4.2	2.1	9.6	3.4
Fourmile Creek	3.9	5.5	4.4	13.8	5.1
Boulder Creek Canyon	5.1	4.3	5.5	14.8	5.5
Fourmile Canyon Creek	3.8	5.1	4.7	13.6	5.0
City of Boulder-Boulder Creek	1.3	1.9	5.5	8.7	3.0
Headwaters South Boulder Creek	3.9	3.3	0.5	7.7	2.7
Upper South Boulder Creek	4.3	3.7	2.8	10.8	3.9
Middle South Boulder Creek	4.0	3.4	5.4	12.8	4.7
Lower South Boulder Creek	4.4	3.1	4.9	12.4	4.5
Dry Creek-Boulder Creek	1.9	0.5	0.5	2.9	0.7
Upper Coal Creek	4.5	5.0	4.9	14.4	5.3
Middle Coal Creek	1.6	0.7	0.7	3.1	0.8
Indian Mountain-Saint Vrain Creek	3.4	1.2	5.5	10.1	3.6
Dry Creek	1.3	0.7	0.7	2.7	0.7
McIntosh Lake-Saint Vrain Creek	0.5	0.9	0.9	2.3	0.5
Boulder Reservoir	1.4	1.0	1.3	3.7	1.1

Composite Categories

Min	2.26167	
Max	14.83009	
Range	12.56843	
Step	2.51369	
Category	From	To
1	2.2617	4.7754
2	4.7754	7.2890
3	7.2890	9.8027
4	9.8027	12.3164
5	12.3164	14.8301

Composite Hazard

Sixth-level Watershed Name	Wildfire Hazard Rank	Flooding/ Debris Flow Rank	Soil Erodibility Rank	Composite Hazard Rank
Boulder Creek Canyon	5.1	4.3	5.5	5.5
Upper Coal Creek	4.5	5.0	4.9	5.3
Upper Left Hand Creek	3.7	5.0	5.5	5.3
Fourmile Creek	3.9	5.5	4.4	5.1
Fourmile Canyon Creek	3.8	5.1	4.7	5.0
Middle Left Hand Creek	4.4	3.2	5.5	4.8
Middle South Boulder Creek	4.0	3.4	5.4	4.7
Lower South Boulder Creek	4.4	3.1	4.9	4.5
Outlet South Saint Vrain Creek	5.1	3.0	4.0	4.4
Outlet North Saint Vrain Creek	5.3	2.7	3.2	4.1
Upper South Boulder Creek	4.3	3.7	2.8	3.9
Rock Creek	5.5	4.3	0.5	3.7
James Creek (1)	3.7	3.8	2.9	3.7
Indian Mountain-Saint Vrain Creek	3.4	1.2	5.5	3.6
Middle Boulder Creek	3.3	4.2	2.1	3.4
Cabin Creek	4.0	5.0	0.5	3.4
City of Boulder-Boulder Creek	1.3	1.9	5.5	3.0
North Boulder Creek	3.5	3.9	1.0	3.0
Headwaters South Saint Vrain Creek	3.7	4.1	0.6	3.0
Middle Saint Vrain Creek	3.5	4.0	0.7	2.9
Headwaters South Boulder Creek	3.9	3.3	0.5	2.7
Headwaters North Saint Vrain Creek	2.9	3.7	0.5	2.4
Boulder Reservoir	1.4	1.0	1.3	1.1
Lower Left Hand Creek	0.8	1.3	1.4	1.0
Middle Coal Creek	1.6	0.7	0.7	0.8
Dry Creek-Boulder Creek	1.9	0.5	0.5	0.7
Dry Creek	1.3	0.7	0.7	0.7
McIntosh Lake-Saint Vrain Creek	0.5	0.9	0.9	0.5

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Water Supply Ranking

HUC	Sixth-level Watershed Name	Watershed Area	Sources & Diversions	Reservoirs	Total Uses	Water Ranking
101900050101	Headwaters South Saint Vrain Creek	21,839	1		1	1
101900050102	Middle Saint Vrain Creek	20,944	0		0	0
101900050103	Outlet South Saint Vrain Creek	14,358	1		1	1
101900050201	Rock Creek	9,428	1		1	1
101900050202	Headwaters North Saint Vrain Creek	24,238	1		1	1
101900050203	Cabin Creek	14,498	1		1	1
101900050204	Outlet North Saint Vrain Creek	31,351	1	1	2	1
101900050301	James Creek (1)	11,917	1		1	1
101900050302	Upper Left Hand Creek	14,839	0		0	0
101900050303	Middle Left Hand Creek	10,290	1		1	1
101900050304	Lower Left Hand Creek	9,484	1		1	1
101900050401	North Boulder Creek	28,612	1		1	1
101900050402	Middle Boulder Creek	28,334	1	1	2	1
101900050403	Fourmile Creek	15,528	1		1	1
101900050404	Boulder Creek Canyon	9,783	0		0	0
101900050405	Fourmile Canyon Creek	6,495	0		0	0
101900050406	City of Boulder-Boulder Creek	18,556	1		1	1
101900050501	Headwaters South Boulder Creek	19,430	0		0	0
101900050502	Upper South Boulder Creek	26,124	0		0	0
101900050503	Middle South Boulder Creek	25,637	1	1	2	1
101900050504	Lower South Boulder Creek	14,534	1		1	1
101900050601	Dry Creek-Boulder Creek	14,059	0		0	0
101900050602	Upper Coal Creek	16,423	0		0	0
101900050603	Middle Coal Creek	19,799	1		1	1
101900050701	Indian Mountain-Saint Vrain Creek	14,972	1		1	1
101900050702	Dry Creek	8,958	0		0	0
101900050703	McIntosh Lake-Saint Vrain Creek	28,617	0		0	0
101900050704	Boulder Reservoir	21,482	0	1	1	1

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Final Watershed Ranking Calculation

Sixth-level Watershed Name	Wildfire Hazard	Flooding/ Debris Flow	Soil Erodibility	Composite	Water Supply	Overall Numeric	Overall Ranking
Headwaters South Saint Vrain	3.7	4.1	0.6	3.0	1	4.0	3.4
Middle Saint Vrain Creek	3.5	4.0	0.7	2.9	0	2.9	2.3
Outlet South Saint Vrain Creek	5.1	3.0	4.0	4.4	1	5.4	4.8
Rock Creek	5.5	4.3	0.5	3.7	1	4.7	4.1
Headwaters North Saint Vrain	2.9	3.7	0.5	2.4	1	3.4	2.9
Cabin Creek	4.0	5.0	0.5	3.4	1	4.4	3.8
Outlet North Saint Vrain Creek	5.3	2.7	3.2	4.1	1	5.1	4.5
James Creek (1)	3.7	3.8	2.9	3.7	1	4.7	4.1
Upper Left Hand Creek	3.7	5.0	5.5	5.3	0	5.3	4.7
Middle Left Hand Creek	4.4	3.2	5.5	4.8	1	5.8	5.2
Lower Left Hand Creek	0.8	1.3	1.4	1.0	1	2.0	1.4
North Boulder Creek	3.5	3.9	1.0	3.0	1	4.0	3.4
Middle Boulder Creek	3.3	4.2	2.1	3.4	1	4.4	3.9
Fourmile Creek	3.9	5.5	4.4	5.1	1	6.1	5.5
Boulder Creek Canyon	5.1	4.3	5.5	5.5	0	5.5	4.9
Fourmile Canyon Creek	3.8	5.1	4.7	5.0	0	5.0	4.4
City of Boulder-Boulder Creek	1.3	1.9	5.5	3.0	1	4.0	3.5
Headwaters South Boulder Creek	3.9	3.3	0.5	2.7	0	2.7	2.1
Upper South Boulder Creek	4.3	3.7	2.8	3.9	0	3.9	3.4
Middle South Boulder Creek	4.0	3.4	5.4	4.7	1	5.7	5.1
Lower South Boulder Creek	4.4	3.1	4.9	4.5	1	5.5	5.0
Dry Creek-Boulder Creek	1.9	0.5	0.5	0.7	0	0.7	0.3
Upper Coal Creek	4.5	5.0	4.9	5.3	0	5.3	4.7
Middle Coal Creek	1.6	0.7	0.7	0.8	1	1.8	1.3
Indian Mountain-Saint Vrain Creek	3.4	1.2	5.5	3.6	1	4.6	4.1
Dry Creek	1.3	0.7	0.7	0.7	0	0.7	0.2
McIntosh Lake-Saint Vrain Creek	0.5	0.9	0.9	0.5	0	0.5	0.0
Boulder Reservoir	1.4	1.0	1.3	1.1	1	2.1	1.6

Final Categories

Min	1.00000	
Max	6.09437	
Range	5.09437	
Step	1.01887	
Category	From	To
1	1.0000	2.0189
2	2.0189	3.0377
3	3.0377	4.0566
4	4.0566	5.0755
5	5.0755	6.0944

Final Watershed Ranking

Sixth-level Watershed Name	Wildfire Hazard	Flooding/ Debris Flow	Soil Erodibility	Composite	Water Supply	Final Ranking
Fourmile Creek	3.9	5.5	4.4	5.1	1	5.5
Middle Left Hand Creek	4.4	3.2	5.5	4.8	1	5.2
Middle South Boulder Creek	4.0	3.4	5.4	4.7	1	5.1
Lower South Boulder Creek	4.4	3.1	4.9	4.5	1	5.0
Boulder Creek Canyon	5.1	4.3	5.5	5.5	0	4.9
Outlet South Saint Vrain Creek	5.1	3.0	4.0	4.4	1	4.8
Upper Coal Creek	4.5	5.0	4.9	5.3	0	4.7
Upper Left Hand Creek	3.7	5.0	5.5	5.3	0	4.7
Outlet North Saint Vrain Creek	5.3	2.7	3.2	4.1	1	4.5
Fourmile Canyon Creek	3.8	5.1	4.7	5.0	0	4.4
James Creek (1)	3.7	3.8	2.9	3.7	1	4.1
Rock Creek	5.5	4.3	0.5	3.7	1	4.1
Indian Mountain-Saint Vrain Creek	3.4	1.2	5.5	3.6	1	4.1
Middle Boulder Creek	3.3	4.2	2.1	3.4	1	3.9
Cabin Creek	4.0	5.0	0.5	3.4	1	3.8
City of Boulder-Boulder Creek	1.3	1.9	5.5	3.0	1	3.5
North Boulder Creek	3.5	3.9	1.0	3.0	1	3.4
Headwaters South Saint Vrain Creek	3.7	4.1	0.6	3.0	1	3.4
Upper South Boulder Creek	4.3	3.7	2.8	3.9	0	3.4
Headwaters North Saint Vrain Creek	2.9	3.7	0.5	2.4	1	2.9
Middle Saint Vrain Creek	3.5	4.0	0.7	2.9	0	2.3
Headwaters South Boulder Creek	3.9	3.3	0.5	2.7	0	2.1
Boulder Reservoir	1.4	1.0	1.3	1.1	1	1.6
Lower Left Hand Creek	0.8	1.3	1.4	1.0	1	1.4
Middle Coal Creek	1.6	0.7	0.7	0.8	1	1.3
Dry Creek-Boulder Creek	1.9	0.5	0.5	0.7	0	0.3
Dry Creek	1.3	0.7	0.7	0.7	0	0.2
McIntosh Lake-Saint Vrain Creek	0.5	0.9	0.9	0.5	0	0.0

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Zones of Concern

Name	0-5 Mile ZoC (acres)	5-11 Mile ZoC (acres)	Total ZoC Area (acres)	Water Supply Agency
Alpine Brook	1,171	0	1,171	Alpine Brook WS
Barker Reservoir	8,922		8,922	City of Boulder
Bear Creek	6,701		6,701	Town of Lafayette
Button Rock Res	11,574		11,574	City of Longmont
Farmers Ditch	7,791		7,791	City of Boulder
Four Mile Creek	5,083		5,083	Pine Brook Hills WD
Fox Creek	516		516	Meadow Mountain WS
Gross Reservoir	14,682		14,682	Denver Water Department
Horse Creek (1)	872		872	Lane Guest Ranch
Horse Creek (2)	685		685	Meeker Park Lodge
Hunters Creek	2,845		2,845	Wild Basin Ranger Station
James Creek	4,343	1,428	5,771	Town of Jamestown, Lefthand Water District
Jenny Creek	3,436		3,436	Eldora Mtn Resort
Lakewood Reservoir	3,774	1,041	4,815	City of Boulder
Lefthand Creek	10,411	10,771	21,182	Lefthand Water District, Town of Niwot
Longmont Reservoir	3,126		3,126	City of Longmont
Marshall Lake	854		854	City of Louisville
Middle Boulder Creek	4,672		4,672	Town of Nederland
Middle Saint Vrain	4,464		4,464	Peaceful Valley
North Boulder Creek	4,277	3,833	8,110	City of Boulder
North Saint Vrain	4,163		4,163	Town of Lyons
Saint Vrain	10,150		10,150	City of Longmont
Silver Lake	5,179		5,179	City of Boulder
South Boulder Canal	7,873		7,873	Denver Water Department
South Boulder Creek	6,930		6,930	Superior Metro District
South Boulder Ditch	6,392		6,392	Town of Erie
South St. Vrain (1)	5,911		5,911	City of Longmont
South St. Vrain (2)	3,365		3,365	Lefthand Water District, Town of Niwot
Willow Creek (1)	629		629	Allenspark WC
Willow Creek (2)	577		577	Meadow Mountain WS
Total	151,368	17,073	168,441	