Highly Erodible Map Unit List
Butte Area Soil Survey
Parts of Butte and Plumas Counties, CA

MUSYM	COMPNAME	HEL Status Water Erosion	Component PCT	Wind C Wet Factor	Wind C Factor	T	Kw	R FACTOR MOST LIMITING	SLOPE MIN	SLOPE MAX	SLOPE LENGTH MIN	SLOPE LENGTH MAX	LS MIN	LS MAX	EI Wind C*I/T	8t/rk	Water HEL	Wind HEL
100	Anita	PHEL	60			1	0.28	75	0	3	100	800	0.100	0.540		0.38	PHEL	
100	Galt	NHEL	25			2	0.24	75	0	3	100	800	0.100	0.540		0.89	NHEL	
104	Bosquejo	NHEL	85			5	0.28	45	0	1	200	800	0.110	0.240		3.17	NHEL	
105	Busacca	NHEL	85			5	0.32	75	0	1	200	800	0.110	0.240		1.67	NHEL	
108	Tuscan	NHEL	45			2	0.17	45	0	3	100	800	0.100	0.540		2.09	NHEL	
108	Igo	NHEL	20			1	0.24	45	0	3	100	800	0.100	0.540		0.74	NHEL	
108	Anita	NHEL	15			1	0.28	45	0	3	100	800	0.100	0.540		0.63	NHEL	
109	Bosquejo	NHEL	85			5	0.32	45	0	1	200	800	0.110	0.240		2.78	NHEL	
110	Bosquejo	NHEL	90			5	0.28	35	0	1	200	800	0.110	0.240		4.08	NHEL	
118	Xerorthents tailings	PHEL	80			5	0.05	90	0	50	50	800	0.090	29.800		8.89	PHEL	
119	Xerorthents tailings	NHEL	70			5	0.05	75	0	2	200	800	0.110	0.370		10.67	NHEL	
119	Urban land	----	30													----	----	
120	Gridley taxadjunct	NHEL	80			3	0.32	35	0	2	200	800	0.110	0.370		2.14	NHEL	
121	Boga	NHEL	45			5	0.43	35	0	1	200	800	0.110	0.240		2.66	NHEL	
121	Loemstone	NHEL	40			4	0.43	35	0	1	200	800	0.110	0.240		2.13	NHEL	
125	Gridley taxadjunct	NHEL	65			3	0.32	35	0	2	200	800	0.110	0.370		2.14	NHEL	
125	Calcic Haploxerolls	NHEL	20			4	0.2	35	0	2	200	800	0.110	0.370		4.57	NHEL	
126	Liveoak	NHEL	85			5	0.2	35	0	2	200	800	0.110	0.370		5.71	NHEL	
127	Gridley taxadjunct	NHEL	85			3	0.32	35	0	2	200	800	0.110	0.370		2.14	NHEL	
130	Eastbiggs	NHEL	80			3	0.37	60	0	2	200	800	0.110	0.370		1.08	NHEL	
133	Eastbiggs	NHEL	50			3	0.37	45	0	3	100	800	0.100	0.540		1.44	NHEL	
133	Galt	NHEL	40			2	0.32	45	0	3	100	800	0.100	0.540		1.11	NHEL	
136	Duric Xerarents	NHEL	35			2	0.37	45	0	1	200	800	0.110	0.240		0.96	NHEL	
136	Duric Xerarents	NHEL	30			4	0.32	45	0	1	200	800	0.110	0.240		2.22	NHEL	
136	Eastbiggs	NHEL	25			3	0.24	45	0	1	200	800	0.110	0.240		2.22	NHEL	
150	Columbia	NHEL	85			5	0.15	35	0	2	200	800	0.110	0.370		7.62	NHEL	
152	Gianella	NHEL	85			5	0.28	35	0	1	200	800	0.110	0.240		4.08	NHEL	
153	Gianella	NHEL	85			5	0.32	35	0	1	200	800	0.110	0.240		3.57	NHEL	
154	Gianella	NHEL	85			5	0.37	35	0	1	200	800	0.110	0.240		3.09	NHEL	
158	Gianella	NHEL	85			5	0.24	35	0	1	200	800	0.110	0.240		4.76	NHEL	
160	Gianella	NHEL	85			5	0.37	35	0	1	200	800	0.110	0.240		3.09	NHEL	
161	Gianella	NHEL	90			5	0.24	35	0	1	200	800	0.110	0.240		4.76	NHEL	
162	Gianella	NHEL	90			5	0.37	35	0	1	200	800	0.110	0.240		3.09	NHEL	
175	Farwell	NHEL	85			5	0.32	35	0	2	200	800	0.110	0.370		3.57	NHEL	
176	Farwell	NHEL	85			5	0.32	35	0	2	200	800	0.110	0.370		3.57	NHEL	
177	Farwell	NHEL	85			5	0.43	35	0	2	200	800	0.110	0.370		2.66	NHEL	
178	Arbuckle	NHEL	85			5	0.28	35	0	2	200	800	0.110	0.370		4.08	NHEL	
179	Moda taxadjunct	NHEL	65			2	0.32	35	0	2	200	800	0.110	0.370		1.43	NHEL	
179	Arbuckle	NHEL	20			5	0.28	35	0	2	200	800	0.110	0.370		4.08	NHEL	
180	Dodgeland	NHEL	85			5	0.37	35	0	5	100	600	0.100	1.310		3.09	NHEL	
181	Dodgeland	NHEL	80			5	0.37	35	0	1	200	800	0.110	0.240		3.09	NHEL	
189	Esquon	NHEL	90			4	0.49	35	0	1	200	800	0.110	0.240		1.87	NHEL	
200	Parrott	NHEL	85			5	0.28	35	0	2	200	800	0.110	0.370		4.08	NHEL	
201	Parrott	NHEL	85			5	0.28	35	0	2	200	800	0.110	0.370		4.08	NHEL	
203	Kusalslough	NHEL	85			5	0.43	35	0	1	200	800	0.110	0.240		2.66	NHEL	

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205	Parrott	NHEL	50		5	0.28	35	0	2	200	800	0.110	0.370		4.08	NHEL	
205	Vermet	NHEL	35		5	0.37	35	0	2	200	800	0.110	0.370		3.09	NHEL	
206	Islandbar	PHEL	60		5	0.49	180	3	15	50	600	0.230	5.800		0.45	PHEL	
206	Chawanakee	PHEL	30		2	0.37	180	3	15	50	600	0.230	5.800		0.24	PHEL	
207	Islandbar	HEL	60		5	0.49	180	15	30	50	400	1.670	11.700		0.45	HEL	
207	Chawanakee	HEL	30		2	0.37	180	15	30	50	400	1.670	11.700		0.24	HEL	
208	Islandbar	HEL	60		5	0.49	180	30	50	50	300	4.150	18.200		0.45	HEL	
208	Chawanakee	HEL	30		2	0.37	180	30	50	50	300	4.150	18.200		0.24	HEL	
209	Islandbar	HEL	60		5	0.49	180	50	70	50	250	7.450	19.800		0.45	HEL	
209	Chawanakee	HEL	30		2	0.37	180	50	70	50	250	7.450	19.800		0.24	HEL	
210	Featherfalls	PHEL	55		5	0.43	180	2	15	50	600	0.160	5.800		0.52	PHEL	
210	Islandbar	PHEL	35		5	0.49	180	2	15	50	600	0.160	5.800		0.45	PHEL	
211	Featherfalls	HEL	55		5	0.43	180	15	30	50	400	1.670	11.700		0.52	HEL	
211	Islandbar	HEL	35		5	0.49	180	15	30	50	400	1.670	11.700		0.45	HEL	
212	Featherfalls	HEL	55		5	0.43	180	30	50	50	300	4.150	18.200		0.52	HEL	
212	Islandbar	HEL	35		5	0.49	180	30	50	50	300	4.150	18.200		0.45	HEL	
213	Featherfalls	HEL	45		5	0.43	180	50	70	50	250	7.450	19.800		0.52	HEL	
213	Islandbar	HEL	35		5	0.49	180	50	70	50	250	7.450	19.800		0.45	HEL	
214	Crystalhill	PHEL	35		5	0.32	180	2	15	50	600	0.160	5.800		0.69	PHEL	
214	Craigsaddle	PHEL	20		4	0.55	180	2	15	50	600	0.160	5.800		0.32	PHEL	
214	Oregongulch	PHEL	20		3	0.28	180	2	15	50	600	0.160	5.800		0.48	PHEL	
214	Rock outcrop	----	10												----	----	
215	Crystalhill	HEL	35		5	0.32	180	15	30	50	400	1.670	11.700		0.69	HEL	
215	Craigsaddle	HEL	20		4	0.55	180	15	30	50	400	1.670	11.700		0.32	HEL	
215	Oregongulch	HEL	20		3	0.28	180	15	30	50	400	1.670	11.700		0.48	HEL	
215	Rock outcrop	----	10												----	----	
216	Crystalhill	HEL	35		5	0.32	180	30	50	50	300	4.150	18.200		0.69	HEL	
216	Oregongulch	HEL	20		3	0.28	180	30	50	50	300	4.150	18.200		0.48	HEL	
216	Craigsaddle	HEL	20		4	0.55	180	30	50	50	300	4.150	18.200		0.32	HEL	
216	Rock outcrop	----	10												----	----	
217	Crystalhill	HEL	35		5	0.32	180	50	70	50	250	7.450	19.800		0.69	HEL	
217	Craigsaddle	HEL	20		4	0.55	180	50	70	50	250	7.450	19.800		0.32	HEL	
217	Oregongulch	HEL	20		3	0.28	180	50	70	50	250	7.450	19.800		0.48	HEL	
217	Rock outcrop	----	10												----	----	
218	Rock outcrop	----	60												----	----	
218	Lithic Xerorthents	HEL	20		1	0.37	180	12	50	50	500	1.230	23.600		0.12	HEL	
218	Chawanakee	HEL	15		2	0.37	180	12	50	50	500	1.230	23.600		0.24	HEL	
219	Rock outcrop	----	60												----	----	
219	Lithic Xerorthents	HEL	20		1	0.37	180	50	70	50	250	7.450	19.800		0.12	HEL	
219	Chawanakee	HEL	15		2	0.37	180	50	70	50	250	7.450	19.800		0.24	HEL	
220	Esquon	NHEL	60		4	0.28	35	0	1	200	800	0.110	0.240		3.27	NHEL	
220	Clear Lake	NHEL	30		5	0.32	35	0	1	200	800	0.110	0.240		3.57	NHEL	
245	Surnuf	HEL	80		5	0.32	155	50	70	50	250	7.450	19.800		0.81	HEL	
250	Llanoseco	NHEL	90		5	0.37	35	0	1	200	800	0.110	0.240		3.09	NHEL	
252	Whitecabin	NHEL	65		4	0.32	35	0	1	200	800	0.110	0.240		2.86	NHEL	

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252	Ordferry	NHEL	25			2	0.32	35	0	1	200	800	0.110	0.240		1.43	NHEL	
255	Whitecabin	NHEL	65			4	0.37	35	0	1	200	800	0.110	0.240		2.47	NHEL	
255	Ordferry	NHEL	30			2	0.32	35	0	1	200	800	0.110	0.240		1.43	NHEL	
256	Whitecabin	NHEL	85			4	0.43	35	0	1	200	800	0.110	0.240		2.13	NHEL	
257	Llanoseco	NHEL	90			5	0.37	35	0	1	200	800	0.110	0.240		3.09	NHEL	
258	Codora	NHEL	85			5	0.37	35	0	2	200	800	0.110	0.370		3.09	NHEL	
260	Ordferry	NHEL	90			2	0.32	35	0	1	200	800	0.110	0.240		1.43	NHEL	
280	Columbia taxadjunct	NHEL	80			5	0.24	35	0	1	200	800	0.110	0.240		4.76	NHEL	
290	Perkins	NHEL	90			5	0.24	60	0	2	200	800	0.110	0.370		2.78	NHEL	
300	Redsluff	NHEL	80			3	0.15	75	0	2	200	800	0.110	0.370		2.13	NHEL	
301	Wafap	NHEL	70			4	0.15	75	0	2	200	800	0.110	0.370		2.84	NHEL	
301	Hamslough	NHEL	15			2	0.17	75	0	2	200	800	0.110	0.370		1.25	NHEL	
302	Redtough	PHEL	50			1	0.24	75	0	3	100	800	0.100	0.540		0.44	PHEL	
302	Redswale	NHEL	35			1	0.17	75	0	3	100	800	0.100	0.540		0.63	NHEL	
303	Munjar	NHEL	60			2	0.24	75	0	2	200	800	0.110	0.370		0.89	NHEL	
303	Tuscan taxadjunct	NHEL	20			2	0.2	75	0	2	200	800	0.110	0.370		1.07	NHEL	
303	Galt	NHEL	10			2	0.24	75	0	2	200	800	0.110	0.370		0.89	NHEL	
304	Redtough	HEL	80			1	0.24	60	8	35	50	550	0.700	16.600		0.56	HEL	
305	Redtough	PHEL	45			1	0.24	75	0	5	100	600	0.100	1.310		0.44	PHEL	
305	Redswale	PHEL	25			1	0.37	75	0	5	100	600	0.100	1.310		0.29	PHEL	
305	Anita	NHEL	20			2	0.17	75	0	2	200	800	0.110	0.370		1.25	NHEL	
306	Duric Xerarents	NHEL	50			2	0.43	60	0	1	200	800	0.110	0.240		0.62	NHEL	
306	Duric Xerarents	NHEL	40			1	0.24	60	0	1	200	800	0.110	0.240		0.56	NHEL	
307	Duric Xerarents	NHEL	70			1	0.32	60	0	1	200	800	0.110	0.240		0.42	NHEL	
310	Kimball	NHEL	85			3	0.37	60	0	3	100	800	0.100	0.540		1.08	NHEL	
317	Thompsonflat	PHEL	75			5	0.32	90	2	15	50	600	0.160	5.800		1.39	PHEL	
318	Thompsonflat	PHEL	50			5	0.2	90	0	9	100	800	0.090	3.310		2.22	PHEL	
318	Oroville	PHEL	40			2	0.24	90	0	9	100	800	0.090	3.310		0.74	PHEL	
320	Vistarobles	PHEL	50			1	0.17	75	0	9	100	800	0.090	3.310		0.63	PHEL	
320	Redding	PHEL	40			2	0.28	75	0	9	100	800	0.090	3.310		0.76	PHEL	
321	Durixeralfs	NHEL	50			2	0.17	90	0	2	200	800	0.110	0.370		1.05	NHEL	
321	Durixeralfs	NHEL	20			1	0.2	90	0	2	200	800	0.110	0.370		0.44	NHEL	
321	Typic Petraquepts	NHEL	15			1	0.24	90	0	1	200	800	0.110	0.240		0.37	NHEL	
330	Wilsoncreek	NHEL	60			5	0.37	75	0	2	200	800	0.110	0.370		1.44	NHEL	
330	Trainer	NHEL	25			5	0.37	75	0	1	200	800	0.110	0.240		1.44	NHEL	
331	Thompsonflat	HEL	85			5	0.32	110	15	30	50	400	1.670	11.700		1.14	HEL	
335	Galt	NHEL	85			2	0.32	45	0	2	200	800	0.110	0.370		1.11	NHEL	
336	Galt	NHEL	90			2	0.24	75	0	1	200	800	0.110	0.240		0.89	NHEL	
337	Galt	NHEL	85			2	0.32	45	0	2	200	800	0.110	0.370		1.11	NHEL	
338	Oxyaquic Xerofluvents	NHEL	90			5	0.49	60	0	1	200	800	0.110	0.240		1.36	NHEL	
339	Oxyaquic Xerofluvents	NHEL	90			5	0.2	45	0	1	200	800	0.110	0.240		4.44	NHEL	
340	Rock outcrop	----	35													----	----	
340	Thermalrocks	PHEL	25			1	0.1	180	2	15	50	600	0.160	5.800		0.44	PHEL	
340	Campbellhills	PHEL	20			3	0.15	180	2	15	50	600	0.160	5.800		0.89	PHEL	
341	Elsey	PHEL	25			2	0.2	155	2	5	100	600	0.200	1.310		0.52	PHEL	

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341	Beatsonhollow	PHEL	25		1	0.2	155	2	5	100	600	0.200	1.310		0.26	PHEL	
341	Campbellhills	PHEL	20		3	0.15	155	2	5	100	600	0.200	1.310		1.03	PHEL	
341	Rock outcrop	----	20												----	----	
342	Thermalrocks	PHEL	40		1	0.1	90	2	30	50	600	0.160	14.400		0.89	PHEL	
342	Beatsonhollow taxadjunct	PHEL	35		1	0.17	90	2	30	50	600	0.160	14.400		0.52	PHEL	
342	Rock outcrop	----	15												----	----	
343	Coalcanyon	PHEL	50		5	0.1	130	5	15	100	500	0.530	5.280		3.08	PHEL	
343	Coonhollow	PHEL	35		3	0.15	130	5	15	100	500	0.530	5.280		1.23	PHEL	
344	Coalcanyon	PHEL	45		5	0.1	155	15	30	50	400	1.670	11.700		2.58	PHEL	
344	Coonhollow	HEL	30		3	0.15	155	15	30	50	400	1.670	11.700		1.03	HEL	
344	Rock outcrop	----	15												----	----	
346	Cherotable	PHEL	50		3	0.24	155	2	15	50	600	0.160	5.800		0.65	PHEL	
346	Elsey	PHEL	35		2	0.2	155	2	15	50	600	0.160	5.800		0.52	PHEL	
347	Haplic Palexeralfs	PHEL	90		5	0.24	130	0	5	100	600	0.100	1.310		1.28	PHEL	
353	Cherokeespring	PHEL	80		5	0.2	180	2	15	50	600	0.160	5.800		1.11	PHEL	
355	Coalcanyon	PHEL	55		5	0.1	155	15	30	50	400	1.670	11.700		2.58	PHEL	
355	Talus	----	35												----	----	
356	Coalcanyon	HEL	45		5	0.1	155	30	50	50	300	4.150	18.200		2.58	HEL	
356	Cliffs	----	20												----	----	
356	Talus	----	20												----	----	
356	Coonhollow	HEL	10		3	0.15	155	30	50	50	300	4.150	18.200		1.03	HEL	
360	Typic Xerofluvents	NHEL	45		5	0.1	90	0	2	200	800	0.110	0.370		4.44	NHEL	
360	Typic Xerofluvents	NHEL	40		5	0.1	90	0	2	200	800	0.110	0.370		4.44	NHEL	
361	Typic Xerofluvents	NHEL	85		5	0.1	90	0	2	200	800	0.110	0.370		4.44	NHEL	
362	Ultic Haploxeralfs sandstone low elev.	PHEL	60		5	0.37	110	2	5	100	600	0.200	1.310		0.98	PHEL	
362	Ultic Haploxeralfs sandstone low elev.	PHEL	25		4	0.32	110	2	5	100	600	0.200	1.310		0.91	PHEL	
363	Ultic Haploxeralfs sandstone low elev.	PHEL	60		5	0.37	110	5	15	100	500	0.530	5.280		0.98	PHEL	
363	Ultic Haploxeralfs sandstone low elev.	PHEL	30		4	0.32	110	5	15	100	500	0.530	5.280		0.91	PHEL	
364	Ultic Haploxeralfs sandstone low elev.	HEL	50		4	0.32	110	15	30	50	400	1.670	11.700		0.91	HEL	
364	Ultic Haploxeralfs sandstone low elev.	HEL	40		5	0.37	110	15	30	50	400	1.670	11.700		0.98	HEL	
365	Palexerults	HEL	80		5	0.28	155	15	30	50	400	1.670	11.700		0.92	HEL	
366	Palexerults	HEL	80		5	0.28	130	30	50	50	300	4.150	18.200		1.10	HEL	
370	Palexerults	PHEL	80		5	0.28	155	2	15	50	600	0.160	5.800		0.92	PHEL	
375	Wickscorner	PHEL	80		5	0.2	90	2	10	50	800	0.160	3.030		2.22	PHEL	
376	Flagcanyon	PHEL	50		2	0.15	90	2	5	100	600	0.200	1.310		1.19	PHEL	
376	Wickscorner	NHEL	35		5	0.2	90	2	5	100	600	0.200	1.310		2.22	NHEL	
377	Flagcanyon taxadjunct	PHEL	55		2	0.24	110	0	5	100	600	0.100	1.310		0.61	PHEL	
377	Durixeralfs	PHEL	20		1	0.37	110	0	5	100	600	0.100	1.310		0.20	PHEL	
377	Duraquerts	NHEL	15		2	0.2	110	0	1	200	800	0.110	0.240		0.73	NHEL	
400	Subaco taxadjunct	NHEL	85		2	0.2	35	0	1	200	800	0.110	0.240		2.29	NHEL	
415	Ignord	NHEL	90		5	0.15	35	0	2	200	800	0.110	0.370		7.62	NHEL	
416	Calcic Haploxerolls	NHEL	90		4	0.2	35	0	1	200	800	0.110	0.240		4.57	NHEL	
418	Almendra	NHEL	85		5	0.28	35	0	1	200	800	0.110	0.240		4.08	NHEL	
419	Conejo	NHEL	85		5	0.37	35	0	1	200	800	0.110	0.240		3.09	NHEL	
420	Conejo	NHEL	85		5	0.24	45	0	1	200	800	0.110	0.240		3.70	NHEL	

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Highly Erodible Map Unit List
Butte Area Soil Survey
Parts of Butte and Plumas Counties, CA

MUSYM	COMPNAME	HEL Status Water Erosion	Component PCT	Wind C Wet factor	Wind C factor	T	Kw	R FACTOR MOST LIMITING	SLOPE MIN	SLOPE MAX	SLOPE LENGTH MIN	SLOPE LENGTH MAX	LS MIN	LS MAX	Ef wind C*I/T	8t/rk	Water HEL	Wind HEL
425	Vina	NHEL	85			5	0.24	60	0	1	200	800	0.110	0.240		2.78	NHEL	
426	Vina	NHEL	85			5	0.28	45	0	1	200	800	0.110	0.240		3.17	NHEL	
439	Oxyaquic Xerofluvents	NHEL	85			5	0.24	30	0	1	200	800	0.110	0.240		5.56	NHEL	
440	Oxyaquic Xerofluvents	NHEL	80			5	0.49	75	0	1	200	800	0.110	0.240		1.09	NHEL	
441	Oxyaquic Xerofluvents	NHEL	90			5	0.24	45	0	1	200	800	0.110	0.240		3.70	NHEL	
442	Durixerolls	NHEL	55			3	0.24	45	0	2	200	800	0.110	0.370		2.22	NHEL	
442	Haploxerolls	NHEL	30			4	0.24	45	0	2	200	800	0.110	0.370		2.96	NHEL	
443	Durixerolls	NHEL	60			3	0.32	45	0	2	200	800	0.110	0.370		1.67	NHEL	
443	Haploxerolls	NHEL	25			4	0.24	45	0	2	200	800	0.110	0.370		2.96	NHEL	
445	Chico	NHEL	85			5	0.32	60	0	2	200	800	0.110	0.370		2.08	NHEL	
447	Charger	NHEL	80			3	0.17	110	0	2	200	800	0.110	0.370		1.28	NHEL	
448	Haploxerolls	NHEL	75			5	0.17	45	0	2	200	800	0.110	0.370		5.23	NHEL	
449	Haploxerolls	NHEL	75			5	0.28	45	0	2	200	800	0.110	0.370		3.17	NHEL	
500	Lofgren	NHEL	45			5	0.2	30	0	1	200	800	0.110	0.240		6.67	NHEL	
500	Blavo	NHEL	40			3	0.2	30	0	1	200	800	0.110	0.240		4.00	NHEL	
501	Lofgren	NHEL	45			5	0.2	30	0	1	200	800	0.110	0.240		6.67	NHEL	
501	Blavo	NHEL	40			3	0.2	30	0	1	200	800	0.110	0.240		4.00	NHEL	
502	Blavo	NHEL	80			3	0.49	30	0	1	200	800	0.110	0.240		1.63	NHEL	
519	Edjobe	NHEL	85			5	0.28	45	0	1	200	800	0.110	0.240		3.17	NHEL	
520	Esquon	NHEL	60			4	0.28	45	0	1	200	800	0.110	0.240		2.54	NHEL	
520	Neerdobe	NHEL	30			3	0.24	45	0	1	200	800	0.110	0.240		2.22	NHEL	
521	Neerdobe	NHEL	85			3	0.49	45	0	1	200	800	0.110	0.240		1.09	NHEL	
522	Clear Lake	NHEL	80			5	0.32	45	0	1	200	800	0.110	0.240		2.78	NHEL	
523	Esquon	NHEL	80			4	0.43	30	0	1	200	800	0.110	0.240		2.48	NHEL	
525	Govstanford	NHEL	85			5	0.37	45	0	1	200	800	0.110	0.240		2.40	NHEL	
526	Govstanford	NHEL	85			5	0.37	45	0	1	200	800	0.110	0.240		2.40	NHEL	
528	Neerdobe	NHEL	90			3	0.28	30	0	1	200	800	0.110	0.240		2.86	NHEL	
550	Dunstone	PHEL	60			2	0.28	130	1	15	50	800	0.100	6.680		0.44	PHEL	
550	Loafercreek	PHEL	20			3	0.28	130	1	15	50	800	0.100	6.680		0.66	PHEL	
551	Dunstone	HEL	35			2	0.28	110	15	30	50	400	1.670	11.700		0.52	HEL	
551	Lomarica	HEL	15			3	0.2	110	15	30	50	400	1.670	11.700		1.09	HEL	
551	Argonaut taxadjunct	HEL	15			3	0.17	110	15	30	50	400	1.670	11.700		1.28	HEL	
552	Dunstone	PHEL	45			2	0.17	155	2	15	50	600	0.160	5.800		0.61	PHEL	
552	Loafercreek	PHEL	40			3	0.17	155	2	15	50	600	0.160	5.800		0.91	PHEL	
553	Dunstone	HEL	45			2	0.17	155	15	30	50	400	1.670	11.700		0.61	HEL	
553	Loafercreek	HEL	40			3	0.17	155	15	30	50	400	1.670	11.700		0.91	HEL	
554	Dunstone	HEL	45			2	0.17	155	30	50	50	300	4.150	18.200		0.61	HEL	
554	Loafercreek	HEL	40			3	0.17	155	30	50	50	300	4.150	18.200		0.91	HEL	
555	Dunstone	HEL	45			2	0.17	155	50	90	50	250	7.450	19.800		0.61	HEL	
555	Loafercreek	HEL	40			3	0.17	155	50	90	50	250	7.450	19.800		0.91	HEL	
556	Mounthope	PHEL	50			3	0.24	155	2	15	50	600	0.160	5.800		0.65	PHEL	
556	Hartsmill	PHEL	40			5	0.15	155	2	15	50	600	0.160	5.800		1.72	PHEL	
557	Mounthope	HEL	50			3	0.24	155	15	30	50	400	1.670	11.700		0.65	HEL	
557	Hartsmill	PHEL	40			5	0.15	155	15	30	50	400	1.670	11.700		1.72	PHEL	
558	Hartsmill	HEL	55			5	0.15	155	30	50	50	300	4.150	18.200		1.72	HEL	

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558	Mounthope	HEL	30		3	0.24	155	30	50	50	300	4.150	18.200		0.65	HEL	
559	Hartsmill	HEL	55		5	0.15	180	50	70	50	250	7.450	19.800		1.48	HEL	
559	Mounthope	HEL	30		3	0.24	180	50	70	50	250	7.450	19.800		0.56	HEL	
560	Hartsmill	HEL	50		5	0.15	155	70	90	50	250	8.870	19.800		1.72	HEL	
560	Mounthope	HEL	30		3	0.24	155	70	90	50	250	8.870	19.800		0.65	HEL	
561	Bigridge	PHEL	50		3	0.2	180	2	15	50	600	0.160	5.800		0.67	PHEL	
561	Minniecreek	PHEL	35		2	0.2	180	2	15	50	600	0.160	5.800		0.44	PHEL	
562	Bigridge	HEL	50		3	0.2	155	15	30	50	400	1.670	11.700		0.77	HEL	
562	Minniecreek	HEL	35		2	0.2	155	15	30	50	400	1.670	11.700		0.52	HEL	
563	Bigridge	HEL	50		3	0.2	130	30	50	50	300	4.150	18.200		0.92	HEL	
563	Minniecreek	HEL	35		2	0.2	130	30	50	50	300	4.150	18.200		0.62	HEL	
564	Bigridge	HEL	50		3	0.2	130	50	70	50	250	7.450	19.800		0.92	HEL	
564	Minniecreek	HEL	35		2	0.2	130	50	70	50	250	7.450	19.800		0.62	HEL	
565	Dunstone	PHEL	35		2	0.28	110	2	15	50	600	0.160	5.800		0.52	PHEL	
565	Argonaut taxadjunct	PHEL	30		3	0.2	110	2	15	50	600	0.160	5.800		1.09	PHEL	
565	Sunnyslope	PHEL	20		2	0.2	110	2	15	50	600	0.160	5.800		0.73	PHEL	
566	Dunstone	PHEL	45		2	0.28	110	2	15	50	600	0.160	5.800		0.52	PHEL	
566	Loafercreek	PHEL	20		3	0.28	110	2	15	50	600	0.160	5.800		0.78	PHEL	
566	Katskillhill	PHEL	15		4	0.28	110	2	15	50	600	0.160	5.800		1.04	PHEL	
567	Dunstone	PHEL	40		2	0.28	130	2	15	50	600	0.160	5.800		0.44	PHEL	
567	Loafercreek	PHEL	25		3	0.28	130	2	15	50	600	0.160	5.800		0.66	PHEL	
567	Argonaut taxadjunct	PHEL	20		3	0.2	130	2	15	50	600	0.160	5.800		0.92	PHEL	
577	Parkshill	NHEL	40		5	0.05	110	2	15	50	600	0.160	5.800		7.27	NHEL	
577	Flanly	PHEL	25		2	0.2	110	2	15	50	600	0.160	5.800		0.73	PHEL	
577	Hurleton	PHEL	20		2	0.1	110	2	15	50	600	0.160	5.800		1.45	PHEL	
578	Flanly	PHEL	45		2	0.2	130	2	15	50	600	0.160	5.800		0.62	PHEL	
578	Swedesflat	PHEL	35		1	0.1	130	2	15	50	600	0.160	5.800		0.62	PHEL	
580	Surnuf taxadjunct	PHEL	40		5	0.2	180	2	15	50	600	0.160	5.800		1.11	PHEL	
580	Griffgulch	PHEL	25		3	0.1	180	2	15	50	600	0.160	5.800		1.33	PHEL	
580	Rock outcrop	----	20												----	----	
581	Surnuf taxadjunct	HEL	65		5	0.2	180	15	30	50	400	1.670	11.700		1.11	HEL	
581	Griffgulch	HEL	20		3	0.1	180	15	30	50	400	1.670	11.700		1.33	HEL	
582	Surnuf taxadjunct	HEL	50		5	0.2	155	30	50	50	300	4.150	18.200		1.29	HEL	
582	Griffgulch	HEL	35		3	0.1	155	30	50	50	300	4.150	18.200		1.55	HEL	
583	Surnuf taxadjunct	HEL	50		5	0.2	180	50	70	50	250	7.450	19.800		1.11	HEL	
583	Griffgulch	HEL	35		3	0.1	180	50	70	50	250	7.450	19.800		1.33	HEL	
584	Flanly	HEL	35		2	0.2	130	15	30	50	400	1.670	11.700		0.62	HEL	
584	Swedesflat	HEL	30		1	0.1	130	15	30	50	400	1.670	11.700		0.62	HEL	
584	Rackerby	HEL	25		1	0.05	130	15	30	50	400	1.670	11.700		1.23	HEL	
585	Flanly	PHEL	45		2	0.2	130	2	15	50	600	0.160	5.800		0.62	PHEL	
585	Sommeyflat	PHEL	35		5	0.2	130	2	15	50	600	0.160	5.800		1.54	PHEL	
586	Sommeyflat	HEL	45		5	0.2	130	15	30	50	400	1.670	11.700		1.54	HEL	
586	Mounthope	HEL	40		3	0.24	130	15	30	50	400	1.670	11.700		0.77	HEL	
587	Sommeyflat	HEL	35		5	0.2	130	30	50	50	300	4.150	18.200		1.54	HEL	
587	Mounthope	HEL	30		3	0.24	130	30	50	50	300	4.150	18.200		0.77	HEL	

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587	Hurleton	HEL	25		2	0.1	130	30	50	50	300	4.150	18.200		1.23	HEL	
588	Ultic Haploxeralfs thermic high terrace	PHEL	95		3	0.24	110	2	15	50	600	0.160	5.800		0.91	PHEL	
589	Ultic Haploxeralfs thermic high terrace	HEL	95		3	0.24	110	15	30	50	400	1.670	11.700		0.91	HEL	
590	Vistarobles	PHEL	30		1	0.17	75	0	9	100	800	0.090	3.310		0.63	PHEL	
590	Redding	PHEL	25		2	0.28	75	0	9	100	800	0.090	3.310		0.76	PHEL	
590	Argonaut taxadjunct	PHEL	20		3	0.2	75	0	9	100	800	0.090	3.310		1.60	PHEL	
590	Haploxererts	NHEL	15		4	0.2	75	0	5	100	600	0.100	1.310		2.13	NHEL	
603	Oroville	PHEL	30		2	0.24	75	0	9	100	800	0.090	3.310		0.89	PHEL	
603	Thermalito	PHEL	25		2	0.17	75	0	9	100	800	0.090	3.310		1.25	PHEL	
603	Thompsonflat	PHEL	15		5	0.2	75	0	9	100	800	0.090	3.310		2.67	PHEL	
603	Fernandez	PHEL	15		5	0.17	75	0	9	100	800	0.090	3.310		3.14	PHEL	
605	Duric Xerarents	NHEL	75		1	0.24	45	0	1	200	800	0.110	0.240		0.74	NHEL	
605	Oroville	NHEL	20		2	0.24	45	0	1	200	800	0.110	0.240		1.48	NHEL	
606	Redtough	NHEL	45		1	0.24	60	0	3	100	800	0.100	0.540		0.56	NHEL	
606	Fallager	NHEL	30		1	0.2	60	0	3	100	800	0.100	0.540		0.67	NHEL	
606	Anita	NHEL	15		1	0.17	60	0	3	100	800	0.100	0.540		0.78	NHEL	
609	Anita	NHEL	50		2	0.17	90	0	2	200	800	0.110	0.370		1.05	NHEL	
609	Tuscan taxadjunct	NHEL	40		2	0.2	90	0	2	200	800	0.110	0.370		0.89	NHEL	
614	Doemill	PHEL	50		1	0.24	90	0	3	100	800	0.100	0.540		0.37	PHEL	
614	Jokerst	NHEL	40		1	0.15	90	0	3	100	800	0.100	0.540		0.59	NHEL	
615	Doemill	PHEL	50		1	0.24	90	3	8	100	600	0.290	2.420		0.37	PHEL	
615	Jokerst	PHEL	40		1	0.15	90	3	8	100	600	0.290	2.420		0.59	PHEL	
616	Jokerst	HEL	35		1	0.24	90	8	15	50	550	0.700	5.540		0.37	HEL	
616	Doemill	HEL	35		1	0.15	90	8	15	50	550	0.700	5.540		0.59	HEL	
616	Typic Haploxeralfs	PHEL	15		3	0.1	90	8	15	50	550	0.700	5.540		2.67	PHEL	
617	Doemill	HEL	35		1	0.24	90	15	30	50	400	1.670	11.700		0.37	HEL	
617	Jokerst	HEL	30		1	0.15	90	15	30	50	400	1.670	11.700		0.59	HEL	
617	Typic Haploxeralfs	PHEL	20		3	0.1	90	15	30	50	400	1.670	11.700		2.67	PHEL	
619	Carhart taxadjunct	NHEL	90		1	0.17	90	0	2	200	800	0.110	0.370		0.52	NHEL	
620	Doemill	PHEL	40		1	0.24	110	3	8	100	600	0.290	2.420		0.30	PHEL	
620	Jokerst	PHEL	25		1	0.15	110	3	8	100	600	0.290	2.420		0.48	PHEL	
620	Ultic Haploxeralfs thermic	PHEL	20		2	0.15	110	3	8	100	600	0.290	2.420		0.97	PHEL	
621	Doemill	HEL	30		1	0.24	110	8	15	50	550	0.700	5.540		0.30	HEL	
621	Jokerst	HEL	30		1	0.15	110	8	15	50	550	0.700	5.540		0.48	HEL	
621	Ultic Haploxeralfs thermic	PHEL	20		2	0.15	110	8	15	50	550	0.700	5.540		0.97	PHEL	
622	Xerorthents	HEL	40		1	0.1	130	15	30	50	400	1.670	11.700		0.62	HEL	
622	Typic Haploxeralfs	PHEL	30		3	0.1	130	15	30	50	400	1.670	11.700		1.85	PHEL	
622	Rock outcrop	----	15												----	----	
623	Xerorthents	HEL	40		1	0.1	130	30	50	50	300	4.150	18.200		0.62	HEL	
623	Typic Haploxeralfs	HEL	25		3	0.1	130	30	50	50	300	4.150	18.200		1.85	HEL	
623	Rock outcrop	----	20												----	----	
624	Ultic Haploxeralfs mesic	PHEL	60		2	0.1	110	2	15	50	600	0.160	5.800		1.45	PHEL	
624	Rockstripe	PHEL	25		1	0.1	110	2	15	50	600	0.160	5.800		0.73	PHEL	
625	Ultic Haploxeralfs mesic	HEL	50		2	0.1	110	15	30	50	400	1.670	11.700		1.45	HEL	
625	Rockstripe	HEL	35		1	0.1	110	15	30	50	400	1.670	11.700		0.73	HEL	

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626	Ultic Haploxeralfs	HEL	40		2	0.15	130	30	50	50	300	4.150	18.200		0.82	HEL	
626	Rockstripe	HEL	35		1	0.1	130	30	50	50	300	4.150	18.200		0.62	HEL	
626	Rock outcrop	----	15												----	----	
627	Ultic Haploxeralfs	HEL	40		2	0.15	130	50	70	50	250	7.450	19.800		0.82	HEL	
627	Rockstripe	HEL	35		1	0.1	130	50	70	50	250	7.450	19.800		0.62	HEL	
627	Rock outcrop	----	15												----	----	
628	Rockstripe	HEL	40		1	0.1	110	70	100	50	250	8.870	19.800		0.73	HEL	
628	Ultic Haploxeralfs	HEL	35		2	0.15	110	70	100	50	250	8.870	19.800		0.97	HEL	
628	Rock outcrop	----	20												----	----	
629	Slideland	PHEL	80		5	0.17	110	3	15	50	600	0.230	5.800		2.14	PHEL	
630	Slideland	PHEL	80		5	0.17	110	15	30	50	400	1.670	11.700		2.14	PHEL	
631	Slideland	HEL	80		5	0.17	110	30	50	50	300	4.150	18.200		2.14	HEL	
632	Ultic Haploxeralfs conglomerate	PHEL	50		2	0.1	110	3	15	50	600	0.230	5.800		1.45	PHEL	
632	Ultic Haploxeralfs conglomerate	PHEL	40		2	0.05	110	3	15	50	600	0.230	5.800		2.91	PHEL	
633	Ultic Haploxeralfs conglomerate	HEL	60		2	0.1	110	15	30	50	400	1.670	11.700		1.45	HEL	
633	Ultic Haploxeralfs conglomerate	PHEL	30		2	0.05	110	15	30	50	400	1.670	11.700		2.91	PHEL	
634	Ultic Haploxeralfs conglomerate	HEL	60		2	0.1	110	30	50	50	300	4.150	18.200		1.45	HEL	
634	Ultic Haploxeralfs conglomerate	HEL	30		2	0.05	110	30	50	50	300	4.150	18.200		2.91	HEL	
635	Ultic Haploxeralfs conglomerate	HEL	50		2	0.1	110	50	70	50	250	7.450	19.800		1.45	HEL	
635	Ultic Haploxeralfs conglomerate	HEL	40		2	0.05	110	50	70	50	250	7.450	19.800		2.91	HEL	
636	Ultic Haploxeralfs conglomerate	HEL	50		2	0.05	110	70	100	50	250	8.870	19.800		2.91	HEL	
636	Ultic Haploxeralfs conglomerate	HEL	40		2	0.1	110	70	100	50	250	8.870	19.800		1.45	HEL	
637	Ultic Haploxeralfs sandstone	PHEL	80		4	0.17	110	3	15	50	600	0.230	5.800		1.71	PHEL	
638	Ultic Haploxeralfs sandstone	PHEL	80		4	0.17	110	15	30	50	400	1.670	11.700		1.71	PHEL	
639	Ultic Haploxeralfs sandstone	HEL	75		4	0.17	110	30	50	50	300	4.150	18.200		1.71	HEL	
640	Ultic Haploxeralfs sandstone	HEL	75		4	0.17	110	50	70	50	250	7.450	19.800		1.71	HEL	
641	Ultic Haploxeralfs sandstone	HEL	75		4	0.17	110	70	100	50	250	8.870	19.800		1.71	HEL	
642	Chinacamp	PHEL	70		5	0.1	110	3	15	50	600	0.230	5.800		3.64	PHEL	
643	Chinacamp	PHEL	70		5	0.1	110	15	30	50	400	1.670	11.700		3.64	PHEL	
644	Chinacamp	HEL	70		5	0.1	110	30	50	50	300	4.150	18.200		3.64	HEL	
645	Chinacamp	HEL	70		5	0.1	110	50	70	50	250	7.450	19.800		3.64	HEL	
646	Coalcanyon taxadjunct	PHEL	80		5	0.1	90	3	15	50	600	0.230	5.800		4.44	PHEL	
647	Coalcanyon taxadjunct	PHEL	75		5	0.1	110	15	30	50	400	1.670	11.700		3.64	PHEL	
648	Coalcanyon taxadjunct	HEL	80		5	0.1	110	30	50	50	300	4.150	18.200		3.64	HEL	
649	Coalcanyon taxadjunct	HEL	75		5	0.1	110	50	70	50	250	7.450	19.800		3.64	HEL	
650	Schott	PHEL	65		3	0.1	110	3	15	50	600	0.230	5.800		2.18	PHEL	
651	Schott	PHEL	65		3	0.1	130	15	30	50	400	1.670	11.700		1.85	PHEL	
652	Schott	HEL	60		3	0.1	130	30	50	50	300	4.150	18.200		1.85	HEL	
652	Rock outcrop	----	15												----	----	
654	Coridge	PHEL	70		2	0.2	110	3	8	100	600	0.290	2.420		0.73	PHEL	
654	Rock outcrop	----	20												----	----	
655	Coridge	PHEL	70		2	0.2	110	8	15	50	550	0.700	5.540		0.73	PHEL	
655	Rock outcrop	----	20												----	----	
656	Rock outcrop	----	40												----	----	
656	Coalcanyon taxadjunct	PHEL	40		5	0.1	90	15	50	50	300	1.670	18.200		4.44	PHEL	

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Highly Erodible Map Unit List
Butte Area Soil Survey
Parts of Butte and Plumas Counties, CA

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657	Bonneyridge	PHEL	35			5	0.49	180	2	15	50	600	0.160	5.800		0.45	PHEL	
657	Chawanakee	PHEL	30			2	0.37	180	2	15	50	600	0.160	5.800		0.24	PHEL	
657	Rock outcrop	----	20													----	----	
658	Bonneyridge	HEL	35			5	0.49	180	15	30	50	400	1.670	11.700		0.45	HEL	
658	Chawanakee	HEL	30			2	0.37	180	15	30	50	400	1.670	11.700		0.24	HEL	
658	Rock outcrop	----	25													----	----	
659	Bonneyridge	HEL	35			5	0.49	180	30	50	50	300	4.150	18.200		0.45	HEL	
659	Chawanakee	HEL	30			2	0.37	180	30	50	50	300	4.150	18.200		0.24	HEL	
659	Rock outcrop	----	25													----	----	
660	Rock outcrop	----	30													----	----	
660	Chawanakee	HEL	30			2	0.37	180	50	70	50	250	7.450	19.800		0.24	HEL	
660	Bonneyridge	HEL	30			5	0.49	180	50	70	50	250	7.450	19.800		0.45	HEL	
661	Millerridge	PHEL	45			3	0.1	90	3	15	50	600	0.230	5.800		2.67	PHEL	
661	Boxrobber	PHEL	40			2	0.05	90	3	15	50	600	0.230	5.800		3.56	PHEL	
662	Millerridge	PHEL	45			3	0.1	90	15	30	50	400	1.670	11.700		2.67	PHEL	
662	Boxrobber	PHEL	40			2	0.05	90	15	30	50	400	1.670	11.700		3.56	PHEL	
663	Millerridge	HEL	45			3	0.1	90	30	50	50	300	4.150	18.200		2.67	HEL	
663	Boxrobber	HEL	40			2	0.05	90	30	50	50	300	4.150	18.200		3.56	HEL	
664	Millerridge	HEL	45			3	0.1	90	50	70	50	250	7.450	19.800		2.67	HEL	
664	Boxrobber	HEL	40			2	0.05	90	50	70	50	250	7.450	19.800		3.56	HEL	
665	Bigridge	PHEL	40			3	0.2	90	3	15	50	600	0.230	5.800		1.33	PHEL	
665	Surnuf	PHEL	40			5	0.1	90	3	15	50	600	0.230	5.800		4.44	PHEL	
666	Bigridge	HEL	40			3	0.2	90	15	30	50	400	1.670	11.700		1.33	HEL	
666	Surnuf	PHEL	40			5	0.1	90	15	30	50	400	1.670	11.700		4.44	PHEL	
667	Bigridge	HEL	40			3	0.2	90	30	50	50	300	4.150	18.200		1.33	HEL	
667	Surnuf	PHEL	40			5	0.1	90	30	50	50	300	4.150	18.200		4.44	PHEL	
668	Bigridge	HEL	40			3	0.2	90	50	70	50	250	7.450	19.800		1.33	HEL	
668	Surnuf	HEL	40			5	0.1	90	50	70	50	250	7.450	19.800		4.44	HEL	
669	Oroshore	PHEL	35			3	0.17	110	3	15	50	600	0.230	5.800		1.28	PHEL	
669	Mounthope	PHEL	25			3	0.24	110	3	15	50	600	0.230	5.800		0.91	PHEL	
669	Dunstone	PHEL	20			2	0.17	110	3	15	50	600	0.230	5.800		0.86	PHEL	
670	Oroshore	HEL	35			3	0.17	110	15	30	50	400	1.670	11.700		1.28	HEL	
670	Mounthope	HEL	25			3	0.24	110	15	30	50	400	1.670	11.700		0.91	HEL	
670	Dunstone	HEL	20			2	0.17	110	15	30	50	400	1.670	11.700		0.86	HEL	
671	Oroshore	HEL	35			3	0.17	110	30	50	50	300	4.150	18.200		1.28	HEL	
671	Mounthope	HEL	25			3	0.24	110	30	50	50	300	4.150	18.200		0.91	HEL	
671	Dunstone	HEL	20			2	0.17	110	30	50	50	300	4.150	18.200		0.86	HEL	
672	Oroshore	HEL	30			3	0.17	110	50	70	50	250	7.450	19.800		1.28	HEL	
672	Mounthope	HEL	25			3	0.24	110	50	70	50	250	7.450	19.800		0.91	HEL	
672	Dunstone	HEL	25			2	0.17	110	50	70	50	250	7.450	19.800		0.86	HEL	
674	Rock outcrop	----	30													----	----	
674	Chawanakee	HEL	30			2	0.37	155	70	110	50	250	8.870	19.800		0.28	HEL	
674	Bonneyridge	HEL	30			5	0.49	155	70	110	50	250	8.870	19.800		0.53	HEL	
675	Clearhayes	NHEL	70			4	0.17	90	0	2	200	800	0.110	0.370		2.09	NHEL	
675	Hamslough	NHEL	15			2	0.17	90	0	2	200	800	0.110	0.370		1.05	NHEL	

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676	Carhart	PHEL	50			3	0.24	110	0	12	50	800	0.090	4.930		0.91	PHEL	
676	Anita taxadjunct	PHEL	40			2	0.24	110	0	12	50	800	0.090	4.930		0.61	PHEL	
677	Tuscan	NHEL	40			2	0.17	110	0	3	100	800	0.100	0.540		0.86	NHEL	
677	Fallager	PHEL	25			1	0.2	110	0	3	100	800	0.100	0.540		0.36	PHEL	
677	Anita	NHEL	15			2	0.17	110	0	1	200	800	0.110	0.240		0.86	NHEL	
679	Lucksev	PHEL	40			1	0.24	110	2	15	50	600	0.160	5.800		0.30	PHEL	
679	Butteside	PHEL	35			3	0.15	110	2	15	50	600	0.160	5.800		1.45	PHEL	
679	Carhart	PHEL	15			3	0.24	110	2	15	50	600	0.160	5.800		0.91	PHEL	
680	Lucksev	HEL	45			1	0.24	110	15	35	50	300	1.670	12.250		0.30	HEL	
680	Butteside	HEL	40			3	0.15	110	15	35	50	300	1.670	12.250		1.45	HEL	
683	Typic Haploxeralfs magnesic	PHEL	50			2	0.1	130	3	15	50	600	0.230	5.800		1.23	PHEL	
683	Earlal	PHEL	20			1	0.1	130	3	15	50	600	0.230	5.800		0.62	PHEL	
683	Rock outcrop	----	15													----	----	
684	Typic Haploxeralfs magnesic	HEL	50			2	0.1	130	15	30	50	400	1.670	11.700		1.23	HEL	
684	Earlal	HEL	20			1	0.1	130	15	30	50	400	1.670	11.700		0.62	HEL	
684	Rock outcrop	----	15													----	----	
685	Bosquejo taxadjunct	NHEL	70			2	0.2	90	0	2	200	800	0.110	0.370		0.89	NHEL	
686	Redsluff taxadjunct	NHEL	70			4	0.24	90	0	2	200	800	0.110	0.370		1.48	NHEL	
687	Xerorthents	PHEL	45			1	0.1	90	2	15	50	600	0.160	5.800		0.89	PHEL	
687	Typic Haploxeralfs	PHEL	40			3	0.1	90	2	15	50	600	0.160	5.800		2.67	PHEL	
700	Retsongulch	HEL	40			2	0.05	180	70	100	50	250	8.870	19.800		1.78	HEL	
700	Flumewall	HEL	25			1	0.05	180	70	100	50	250	8.870	19.800		0.89	HEL	
701	Powellton	HEL	40			5	0.15	155	50	70	50	250	7.450	19.800		1.72	HEL	
701	Obstruction	HEL	30			5	0.05	155	50	70	50	250	7.450	19.800		5.16	HEL	
702	Cerpone	PHEL	50			3	0.17	130	3	15	50	600	0.230	5.800		1.09	PHEL	
702	Typic Haploxeralfs magnesic	PHEL	20			3	0.1	130	3	15	50	600	0.230	5.800		1.85	PHEL	
702	Earlal	PHEL	15			1	0.1	130	3	15	50	600	0.230	5.800		0.62	PHEL	
703	Cerpone	HEL	30			3	0.17	155	15	30	50	400	1.670	11.700		0.91	HEL	
703	Typic Haploxeralfs magnesic	HEL	30			3	0.1	155	15	30	50	400	1.670	11.700		1.55	HEL	
703	Rock outcrop	----	15													----	----	
703	Earlal	HEL	15			1	0.1	155	15	30	50	400	1.670	11.700		0.52	HEL	
704	Typic Haploxeralfs magnesic	HEL	40			3	0.1	155	30	50	50	300	4.150	18.200		1.55	HEL	
704	Earlal	HEL	20			1	0.1	155	30	50	50	300	4.150	18.200		0.52	HEL	
704	Cerpone	HEL	15			3	0.17	155	30	50	50	300	4.150	18.200		0.91	HEL	
704	Rock outcrop	----	15													----	----	
705	Typic Haploxeralfs magnesic	HEL	35			3	0.1	155	50	80	50	250	7.450	19.800		1.55	HEL	
705	Earlal	HEL	25			1	0.1	155	50	80	50	250	7.450	19.800		0.52	HEL	
705	Rock outcrop	----	15													----	----	
705	Cerpone	HEL	15			3	0.17	155	50	80	50	250	7.450	19.800		0.91	HEL	
711	Dixmine	PHEL	45			4	0.1	130	3	15	50	600	0.230	5.800		2.46	PHEL	
711	Toadtown	PHEL	40			5	0.24	130	3	15	50	600	0.230	5.800		1.28	PHEL	
712	Dixmine	PHEL	50			4	0.1	130	15	30	50	400	1.670	11.700		2.46	PHEL	
712	Toadtown	HEL	40			5	0.24	130	15	30	50	400	1.670	11.700		1.28	HEL	
713	Dixmine	HEL	50			4	0.1	130	30	50	50	300	4.150	18.200		2.46	HEL	
713	Toadtown	HEL	35			5	0.24	130	30	50	50	300	4.150	18.200		1.28	HEL	

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714	Dixmine	HEL	50			4	0.1	130	50	70	50	250	7.450	19.800		2.46	HEL	
714	Toadtown	HEL	35			5	0.24	130	50	70	50	250	7.450	19.800		1.28	HEL	
715	Logtrain	HEL	40			3	0.15	130	70	110	50	250	8.870	19.800		1.23	HEL	
715	Bottlehill	HEL	30			2	0.1	130	70	110	50	250	8.870	19.800		1.23	HEL	
715	Walkermine	HEL	20			1	0.05	130	70	110	50	250	8.870	19.800		1.23	HEL	
716	Griffgulch	PHEL	40			3	0.1	155	3	15	50	600	0.230	5.800		1.55	PHEL	
716	Surnuf	PHEL	40			5	0.1	155	3	15	50	600	0.230	5.800		2.58	PHEL	
717	Griffgulch	HEL	40			3	0.1	155	15	30	50	400	1.670	11.700		1.55	HEL	
717	Surnuf	PHEL	40			5	0.1	155	15	30	50	400	1.670	11.700		2.58	PHEL	
718	Griffgulch	HEL	30			3	0.1	155	30	50	50	300	4.150	18.200		1.55	HEL	
718	Surnuf	HEL	30			5	0.1	155	30	50	50	300	4.150	18.200		2.58	HEL	
718	Spine taxadjunct	HEL	15			1	0.1	155	30	50	50	300	4.150	18.200		0.52	HEL	
719	Surnuf	HEL	30			5	0.1	155	50	70	50	250	7.450	19.800		2.58	HEL	
719	Griffgulch	HEL	30			3	0.1	155	50	70	50	250	7.450	19.800		1.55	HEL	
719	Spine taxadjunct	HEL	20			1	0.1	155	50	70	50	250	7.450	19.800		0.52	HEL	
720	Dystroxerepts	HEL	40			2	0.05	155	70	110	50	250	8.870	19.800		2.06	HEL	
720	Haploxeralfs	HEL	30			3	0.15	155	70	110	50	250	8.870	19.800		1.03	HEL	
720	Rock outcrop	----	15													----	----	
721	Haploxerands granitic till	PHEL	70			2	0.32	180	2	15	50	600	0.160	5.800		0.28	PHEL	
722	Haploxerands granitic till	HEL	70			2	0.32	180	15	30	50	400	1.670	11.700		0.28	HEL	
723	Haploxerands granitic till	HEL	70			2	0.32	180	30	50	50	300	4.150	18.200		0.28	HEL	
724	Haploxerands volcanic till	PHEL	75			2	0.1	180	2	15	50	600	0.160	5.800		0.89	PHEL	
725	Haploxerands volcanic till	HEL	75			2	0.1	180	15	30	50	400	1.670	11.700		0.89	HEL	
726	Haploxerands volcanic till	HEL	75			2	0.1	180	30	50	50	300	4.150	18.200		0.89	HEL	
727	Bonneyridge	PHEL	85			5	0.49	130	1	15	50	800	0.100	6.680		0.63	PHEL	
728	Bonneyridge	HEL	85			5	0.49	130	15	30	50	400	1.670	11.700		0.63	HEL	
729	Bonneyridge	HEL	85			5	0.49	130	30	50	50	300	4.150	18.200		0.63	HEL	
730	Tusccoll	HEL	60			5	0.17	110	30	50	50	300	4.150	18.200		2.14	HEL	
730	Schott	HEL	25			3	0.1	110	30	50	50	300	4.150	18.200		2.18	HEL	
731	Tusccoll	HEL	50			5	0.17	110	50	70	50	250	7.450	19.800		2.14	HEL	
731	Schott	HEL	35			3	0.1	110	50	70	50	250	7.450	19.800		2.18	HEL	
732	Bonepile taxadjunct	NHEL	90			4	0.05	130	2	8	100	550	0.200	2.320		4.92	NHEL	
733	Haploxeralfs terrace	PHEL	75			1	0.15	90	0	8	100	800	0.100	2.800		0.59	PHEL	
734	Haploxerands	PHEL	55			5	0.24	180	0	15	50	800	0.090	6.680		0.93	PHEL	
734	Aquic Xerofluvents	PHEL	35			5	0.24	180	0	8	100	800	0.100	2.800		0.93	PHEL	
735	Fluvaquents loamy	NHEL	80			5	0.24	155	0	3	100	800	0.100	0.540		1.08	NHEL	
801	Obstruction	PHEL	70			5	0.05	180	3	15	50	600	0.230	5.800		4.44	PHEL	
802	Obskel	PHEL	40			4	0.05	180	15	30	50	400	1.670	11.700		3.56	PHEL	
802	Obstruction	PHEL	40			5	0.05	180	15	30	50	400	1.670	11.700		4.44	PHEL	
803	Obskel	HEL	40			4	0.05	180	30	50	50	300	4.150	18.200		3.56	HEL	
803	Obstruction	PHEL	40			5	0.05	180	30	50	50	300	4.150	18.200		4.44	PHEL	
804	Obskel	HEL	35			4	0.05	155	50	70	50	250	7.450	19.800		4.13	HEL	
804	Obstruction	HEL	25			5	0.05	155	50	70	50	250	7.450	19.800		5.16	HEL	
804	Retsongulch	HEL	20			2	0.05	155	50	70	50	250	7.450	19.800		2.06	HEL	
805	Bottlehill	PHEL	50			2	0.1	180	3	15	50	600	0.230	5.800		0.89	PHEL	

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Parts of Butte and Plumas Counties, CA

MUSYM	COMPNAME	HEL Status Water Erosion	Component PCT	Wind Erosion Wet Factor	Wind Erosion Factor	T	Kw	R FACTOR MOST LIMITING	SLOPE MIN	SLOPE MAX	SLOPE LENGTH MIN	SLOPE LENGTH MAX	LS MIN	LS MAX	EI Wind C*I/T	8t/rk	Water HEL	Wind HEL
805	Logtrain	PHEL	20			3	0.15	180	3	15	50	600	0.230	5.800		0.89	PHEL	
805	Walkermine	PHEL	20			1	0.05	180	3	15	50	600	0.230	5.800		0.89	PHEL	
806	Bottlehill	HEL	50			2	0.1	180	15	30	50	400	1.670	11.700		0.89	HEL	
806	Logtrain	HEL	20			3	0.15	180	15	30	50	400	1.670	11.700		0.89	HEL	
806	Walkermine	HEL	20			1	0.05	180	15	30	50	400	1.670	11.700		0.89	HEL	
807	Bottlehill	HEL	35			2	0.1	180	30	50	50	300	4.150	18.200		0.89	HEL	
807	Logtrain	HEL	30			3	0.15	180	30	50	50	300	4.150	18.200		0.89	HEL	
807	Walkermine	HEL	25			1	0.05	180	30	50	50	300	4.150	18.200		0.89	HEL	
808	Bottlehill	HEL	45			2	0.1	180	50	70	50	250	7.450	19.800		0.89	HEL	
808	Walkermine	HEL	20			1	0.05	180	50	70	50	250	7.450	19.800		0.89	HEL	
808	Logtrain	HEL	20			3	0.15	180	50	70	50	250	7.450	19.800		0.89	HEL	
809	Walkermine	HEL	45			1	0.05	155	70	110	50	250	8.870	19.800		1.03	HEL	
809	Rock outcrop	----	15													----	----	
809	Logtrain	HEL	15			3	0.15	155	70	110	50	250	8.870	19.800		1.03	HEL	
809	Bottlehill	HEL	15			2	0.1	155	70	110	50	250	8.870	19.800		1.03	HEL	
810	Dixmine	HEL	35			4	0.1	130	30	50	50	300	4.150	18.200		2.46	HEL	
810	Mac	HEL	25			3	0.17	130	30	50	50	300	4.150	18.200		1.09	HEL	
810	Spine	HEL	25			1	0.1	130	30	50	50	300	4.150	18.200		0.62	HEL	
811	Powellton	PHEL	50			5	0.15	130	3	15	50	600	0.230	5.800		2.05	PHEL	
811	Toadtown	PHEL	40			5	0.24	130	3	15	50	600	0.230	5.800		1.28	PHEL	
812	Powellton	PHEL	50			5	0.15	130	15	30	50	400	1.670	11.700		2.05	PHEL	
812	Toadtown	HEL	40			5	0.24	130	15	30	50	400	1.670	11.700		1.28	HEL	
813	Powellton	HEL	50			5	0.15	130	30	50	50	300	4.150	18.200		2.05	HEL	
813	Toadtown	HEL	40			5	0.24	130	30	50	50	300	4.150	18.200		1.28	HEL	
814	Mountyana	NHEL	80			5	0.05	130	2	15	50	600	0.160	5.800		6.15	NHEL	
815	Mountyana	PHEL	80			5	0.05	130	15	30	50	400	1.670	11.700		6.15	PHEL	
817	Lydon	PHEL	80			2	0.1	110	2	15	50	600	0.160	5.800		1.45	PHEL	
818	Lydon	HEL	75			2	0.1	130	15	30	50	400	1.670	11.700		1.23	HEL	
819	Lydon	HEL	65			2	0.1	130	30	50	50	300	4.150	18.200		1.23	HEL	
819	Rock outcrop	----	20													----	----	
820	Lydon	HEL	60			2	0.1	130	50	70	50	250	7.450	19.800		1.23	HEL	
820	Rock outcrop	----	25													----	----	
821	Lydon	HEL	55			2	0.1	130	70	100	50	250	8.870	19.800		1.23	HEL	
821	Rock outcrop	----	30													----	----	
822	Bonepile	PHEL	85			4	0.2	180	2	15	50	600	0.160	5.800		0.89	PHEL	
823	Bonepile	HEL	85			4	0.2	180	15	30	50	400	1.670	11.700		0.89	HEL	
824	Beecee	HEL	85			5	0.1	180	30	50	50	300	4.150	18.200		2.22	HEL	
825	Beecee	HEL	60			5	0.1	180	50	70	50	250	7.450	19.800		2.22	HEL	
825	Lydon	HEL	20			2	0.1	130	50	70	50	250	7.450	19.800		1.23	HEL	
826	Redbone	PHEL	80			4	0.05	130	2	15	50	600	0.160	5.800		4.92	PHEL	
827	Redbone	PHEL	80			4	0.05	130	15	30	50	400	1.670	11.700		4.92	PHEL	
829	Paradiso	PHEL	80			5	0.17	130	2	15	50	600	0.160	5.800		1.81	PHEL	
830	Paradiso	PHEL	75			5	0.17	130	15	30	50	400	1.670	11.700		1.81	PHEL	
831	Surnuf	PHEL	40			5	0.1	130	3	15	50	600	0.230	5.800		3.08	PHEL	
831	Bigridge	PHEL	30			3	0.2	130	3	15	50	600	0.230	5.800		0.92	PHEL	

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Highly Erodible Map Unit List
Butte Area Soil Survey
Parts of Butte and Plumas Counties, CA

MUSYM	COMPNAME	HEL Status Water Erosion	Component PCT	Wind C Wet Factor	Wind C Dry Factor	T	Kw	R FACTOR MOST LIMITING	SLOPE MIN	SLOPE MAX	SLOPE LENGTH MIN	SLOPE LENGTH MAX	LS MIN	LS MAX	EI Wind C*I/T	8t/rk	Water HEL	Wind HEL
831	Spine	PHEL	15			1	0.1	130	3	15	50	600	0.230	5.800		0.62	PHEL	
832	Surnuf	PHEL	40			5	0.1	130	15	30	50	400	1.670	11.700		3.08	PHEL	
832	Bigridge	HEL	30			3	0.2	130	15	30	50	400	1.670	11.700		0.92	HEL	
832	Spine	HEL	15			1	0.1	130	15	30	50	400	1.670	11.700		0.62	HEL	
833	Surnuf	HEL	60			5	0.1	130	30	50	50	300	4.150	18.200		3.08	HEL	
833	Spine	HEL	15			1	0.1	130	30	50	50	300	4.150	18.200		0.62	HEL	
833	Bigridge	HEL	15			3	0.2	130	30	50	50	300	4.150	18.200		0.92	HEL	
834	Hietanen	PHEL	50			4	0.15	130	3	15	50	600	0.230	5.800		1.64	PHEL	
834	Mac	PHEL	30			3	0.17	130	3	15	50	600	0.230	5.800		1.09	PHEL	
835	Hietanen	HEL	60			4	0.15	130	15	30	50	400	1.670	11.700		1.64	HEL	
835	Mac	HEL	20			3	0.17	130	15	30	50	400	1.670	11.700		1.09	HEL	
836	Hietanen	HEL	50			4	0.15	130	30	50	50	300	4.150	18.200		1.64	HEL	
836	Mac	HEL	20			3	0.17	130	30	50	50	300	4.150	18.200		1.09	HEL	
836	Spine	HEL	15			1	0.1	130	30	50	50	300	4.150	18.200		0.62	HEL	
837	Hietanen	HEL	35			4	0.15	155	50	70	50	250	7.450	19.800		1.38	HEL	
837	Spine	HEL	25			1	0.1	155	50	70	50	250	7.450	19.800		0.52	HEL	
837	Mac	HEL	20			3	0.17	155	50	70	50	250	7.450	19.800		0.91	HEL	
838	Dixmine	HEL	35			4	0.1	110	50	70	50	250	7.450	19.800		2.91	HEL	
838	Spine	HEL	20			1	0.1	110	50	70	50	250	7.450	19.800		0.73	HEL	
838	Mac	HEL	20			3	0.17	110	50	70	50	250	7.450	19.800		1.28	HEL	
839	Chawanakee	PHEL	55			2	0.37	180	2	15	50	600	0.160	5.800		0.24	PHEL	
839	Billscabin	PHEL	35			5	0.32	180	2	15	50	600	0.160	5.800		0.69	PHEL	
841	Billscabin	HEL	50			5	0.32	180	30	50	50	300	4.150	18.200		0.69	HEL	
841	Bonneyridge	HEL	35			5	0.49	180	30	50	50	300	4.150	18.200		0.45	HEL	
842	Billscabin	HEL	60			5	0.32	180	50	70	50	250	7.450	19.800		0.69	HEL	
842	Bonneyridge	HEL	25			5	0.49	180	50	70	50	250	7.450	19.800		0.45	HEL	
846	Bonneyridge	PHEL	60			5	0.49	180	2	15	50	600	0.160	5.800		0.45	PHEL	
846	Lewisflat	PHEL	20			5	0.24	180	2	15	50	600	0.160	5.800		0.93	PHEL	
847	Bonneyridge	HEL	60			5	0.49	155	15	30	50	400	1.670	11.700		0.53	HEL	
847	Lewisflat	HEL	20			5	0.24	155	15	30	50	400	1.670	11.700		1.08	HEL	
848	Bonneyridge	HEL	60			5	0.49	180	30	50	50	300	4.150	18.200		0.45	HEL	
848	Lewisflat	HEL	20			5	0.24	180	30	50	50	300	4.150	18.200		0.93	HEL	
850	Lewisflat	PHEL	85			5	0.24	205	2	15	50	600	0.160	5.800		0.81	PHEL	
851	Lewisflat	HEL	80			5	0.24	205	15	30	50	400	1.670	11.700		0.81	HEL	
852	Lewisflat	HEL	75			5	0.24	180	30	50	50	300	4.150	18.200		0.93	HEL	
860	Toadtown	PHEL	60			5	0.1	180	2	15	50	600	0.160	5.800		2.22	PHEL	
860	Powellton	PHEL	20			5	0.32	180	2	15	50	600	0.160	5.800		0.69	PHEL	
861	Toadtown	PHEL	60			5	0.1	180	15	30	50	400	1.670	11.700		2.22	PHEL	
861	Powellton	HEL	20			5	0.32	180	15	30	50	400	1.670	11.700		0.69	HEL	
862	Toadtown	HEL	60			5	0.1	155	30	50	50	300	4.150	18.200		2.58	HEL	
862	Powellton	HEL	15			5	0.32	155	30	50	50	300	4.150	18.200		0.81	HEL	
863	Toadtown	HEL	60			5	0.1	130	50	70	50	250	7.450	19.800		3.08	HEL	
863	Powellton	HEL	20			5	0.32	130	50	70	50	250	7.450	19.800		0.96	HEL	
880	Sites taxadjunct	PHEL	50			5	0.17	205	2	15	50	600	0.160	5.800		1.15	PHEL	
880	Jocal taxadjunct	PHEL	35			5	0.15	205	2	15	50	600	0.160	5.800		1.30	PHEL	

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881	Sites taxadjunct	HEL	50		5	0.17	205	15	30	50	400	1.670	11.700		1.15	HEL	
881	Jocal taxadjunct	HEL	35		5	0.15	205	15	30	50	400	1.670	11.700		1.30	HEL	
882	Sites taxadjunct	HEL	50		5	0.17	180	30	50	50	300	4.150	18.200		1.31	HEL	
882	Jocal taxadjunct	HEL	40		5	0.15	180	30	50	50	300	4.150	18.200		1.48	HEL	
883	Sites taxadjunct	HEL	50		5	0.17	130	50	70	50	250	7.450	19.800		1.81	HEL	
883	Jocal taxadjunct	HEL	40		5	0.15	130	50	70	50	250	7.450	19.800		2.05	HEL	
885	Rogerville	PHEL	75		5	0.24	180	2	15	50	600	0.160	5.800		0.93	PHEL	
886	Rogerville	HEL	80		5	0.24	180	15	30	50	400	1.670	11.700		0.93	HEL	
892	Rogerville	HEL	85		5	0.24	155	50	70	50	250	7.450	19.800		1.08	HEL	
893	Rogerville	HEL	85		5	0.24	180	30	50	50	300	4.150	18.200		0.93	HEL	
902	Lava flows	----	50												----	----	
902	Lumpkin	PHEL	40		1	0.05	180	0	15	50	800	0.090	6.680		0.89	PHEL	
903	Mudwash	PHEL	45		5	0.1	155	2	30	50	600	0.160	14.400		2.58	PHEL	
903	Timberisland	PHEL	25		3	0.05	155	2	30	50	600	0.160	14.400		3.10	PHEL	
903	Lavatop	PHEL	20		2	0.05	155	2	30	50	600	0.160	14.400		2.06	PHEL	
904	Lava flows	----	60												----	----	
904	Lavatop	PHEL	20		2	0.05	130	15	30	50	400	1.670	11.700		2.46	PHEL	
905	Lava flows	----	60												----	----	
905	Lumpkin	HEL	30		1	0.05	130	30	50	50	300	4.150	18.200		1.23	HEL	
906	Lava flows	----	60												----	----	
906	Lumpkin	HEL	30		1	0.05	130	50	70	50	250	7.450	19.800		1.23	HEL	
911	Endoaquolls	PHEL	75		5	0.2	130	0	8	100	800	0.100	2.800		1.54	PHEL	
923	Powderhouse	PHEL	45		2	0.1	130	2	15	50	600	0.160	5.800		1.23	PHEL	
923	McNair	PHEL	25		4	0.1	130	2	15	50	600	0.160	5.800		2.46	PHEL	
923	Greenwell	PHEL	20		2	0.1	130	2	15	50	600	0.160	5.800		1.23	PHEL	
924	Powderhouse	HEL	45		2	0.1	130	15	30	50	400	1.670	11.700		1.23	HEL	
924	McNair	PHEL	25		4	0.1	130	15	30	50	400	1.670	11.700		2.46	PHEL	
924	Greenwell	HEL	20		2	0.1	130	15	30	50	400	1.670	11.700		1.23	HEL	
925	Powderhouse	HEL	45		2	0.1	155	30	50	50	300	4.150	18.200		1.03	HEL	
925	McNair	HEL	25		4	0.1	155	30	50	50	300	4.150	18.200		2.06	HEL	
925	Greenwell	HEL	20		2	0.1	155	30	50	50	300	4.150	18.200		1.03	HEL	
930	Shakeridge	PHEL	50		5	0.05	130	0	15	50	800	0.090	6.680		6.15	PHEL	
930	Timberisland	PHEL	40		3	0.05	130	0	15	50	800	0.090	6.680		3.69	PHEL	
931	Shakeridge	PHEL	40		5	0.05	155	15	30	50	400	1.670	11.700		5.16	PHEL	
931	Mudwash	PHEL	25		5	0.1	155	15	30	50	400	1.670	11.700		2.58	PHEL	
931	Timberisland	PHEL	15		3	0.05	155	15	30	50	400	1.670	11.700		3.10	PHEL	
932	Shakeridge	PHEL	50		5	0.05	155	30	50	50	300	4.150	18.200		5.16	PHEL	
932	Mudwash	HEL	30		5	0.1	155	30	50	50	300	4.150	18.200		2.58	HEL	
933	Shakeridge	HEL	80		5	0.05	155	50	70	50	250	7.450	19.800		5.16	HEL	
934	Mudwash	PHEL	80		5	0.1	180	0	15	50	800	0.090	6.680		2.22	PHEL	
939	Fluvaquentic Humaquepts	PHEL	90		5	0.24	130	0	15	50	800	0.090	6.680		1.28	PHEL	
940	Dejonah	PHEL	50		5	0.24	130	2	15	50	600	0.160	5.800		1.28	PHEL	
940	Stagpoint	PHEL	30		5	0.28	130	2	15	50	600	0.160	5.800		1.10	PHEL	
941	Dejonah	HEL	50		5	0.24	155	15	30	50	400	1.670	11.700		1.08	HEL	
941	Stagpoint	HEL	30		5	0.28	155	15	30	50	400	1.670	11.700		0.92	HEL	

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942	Dejonah	HEL	50		5	0.24	155	30	50	50	300	4.150	18.200		1.08	HEL	
942	Stagpoint	HEL	50		5	0.28	155	30	50	50	300	4.150	18.200		0.92	HEL	
948	Stagpoint	HEL	55		5	0.28	130	50	70	50	250	7.450	19.800		1.10	HEL	
948	Dejonah	HEL	35		5	0.24	130	50	70	50	250	7.450	19.800		1.28	HEL	
949	Rogerville taxadjunct	HEL	80		3	0.24	155	30	50	50	300	4.150	18.200		0.65	HEL	
950	Lumpkin taxadjunct	PHEL	40		1	0.1	130	0	15	50	800	0.090	6.680		0.62	PHEL	
950	Rock outcrop	----	25												----	----	
950	Powderhouse	PHEL	20		2	0.1	130	0	15	50	800	0.090	6.680		1.23	PHEL	
951	Lumpkin taxadjunct	HEL	40		1	0.1	155	15	30	50	400	1.670	11.700		0.52	HEL	
951	Rock outcrop	----	25												----	----	
951	Powderhouse	HEL	20		2	0.1	155	15	30	50	400	1.670	11.700		1.03	HEL	
960	Surnuf	PHEL	85		5	0.2	155	3	8	100	600	0.290	2.420		1.29	PHEL	
961	Surnuf	PHEL	85		5	0.2	155	8	15	50	550	0.700	5.540		1.29	PHEL	
962	Surnuf	HEL	85		5	0.2	130	15	30	50	400	1.670	11.700		1.54	HEL	
963	Surnuf	HEL	80		5	0.2	110	30	50	50	300	4.150	18.200		1.82	HEL	
990	Riverwash	----	100												----	----	
991	Xerofluvents	NHEL	75		5	0.32	75	0	4	100	800	0.100	0.920		1.67	NHEL	
995	Pits	----	100												----	----	
996	Dumps	----	100												----	----	
997	Pits	----	95												----	----	
998	Dumps	----	100												----	----	
999	Water	----	100												----	----	
111yu	Auburn	HEL	40		1	0.32	75	8	15	50	550	0.700	5.540		0.28	HEL	
111yu	Sobrante	HEL	40		2	0.32	75	8	15	50	550	0.700	5.540		0.56	HEL	
114yu	Auburn	PHEL	40		1	0.2	90	8	15	50	550	0.700	5.540		1.14	PHEL	
114yu	Sobrante	PHEL	40		2	0.24	90	8	15	50	550	0.700	5.540		0.74	PHEL	
118co	Clear Lake	NHEL	90		5	0.24	35	0	1	200	800	0.110	0.240		1.85	NHEL	
119yu	Auburn	HEL	30		1	0.24	90	30	50	50	300	4.150	18.200		0.95	HEL	
119yu	Sobrante	HEL	30		2	0.2	90	30	50	50	300	4.150	18.200		0.89	HEL	
119yu	Rock outcrop	----	20												----	----	
121su	Columbia	NHEL	80		5	0.32	35	0	2	200	800	0.110	0.370		3.57	NHEL	
138su	Liveoak	NHEL	85		5	0.17	35	0	2	200	800	0.110	0.370		6.72	NHEL	
139su	Liveoak Taxadjunct	NHEL	45		3	0.37	35	0	2	200	800	0.110	0.370		1.85	NHEL	
139su	Galt Taxadjunct	NHEL	40		2	0.32	35	0	2	200	800	0.110	0.370		1.43	NHEL	
143su	Marcum	NHEL	45		4	0.32	35	0	1	200	800	0.110	0.240		2.86	NHEL	
143su	Gridley	NHEL	40		3	0.32	35	0	1	200	800	0.110	0.240		2.14	NHEL	
149yu	Flanly	HEL	80		3	0.24	155	8	15	50	550	0.700	5.540		0.65	HEL	
150su	Olashes	NHEL	85		4	0.28	35	0	2	200	800	0.110	0.370		3.27	NHEL	
151yu	Flanly	HEL	80		3	0.24	155	30	50	50	300	4.150	18.200		0.65	HEL	
163yu	Holillipah	NHEL	85		5	0.17	35	0	1	200	800	0.110	0.240		6.72	NHEL	
165yu	Holland	PHEL	40		5	0.32	130	2	30	50	600	0.160	14.400		0.96	PHEL	
165yu	Hoda	PHEL	25		5	0.28	130	2	30	50	600	0.160	14.400		1.10	PHEL	
165yu	Hotaw	PHEL	20		3	0.28	130	2	30	50	600	0.160	14.400		0.66	PHEL	
173yu	Hotaw	HEL	45		3	0.28	180	8	30	50	550	0.700	13.800		0.48	HEL	
173yu	Chawanakee	HEL	20		2	0.37	180	8	30	50	550	0.700	13.800		0.24	HEL	

PHEL = potentially highly erodible - needs field check
HEL - highly erodible NHEL = not highly erodible

USDA HEL policy guidance is found at:
http://policy.nrcs.usda.gov/scripts/lsiis.dll/M/M_180_511.htm

Highly Erodible Map Unit List
Butte Area Soil Survey
Parts of Butte and Plumas Counties, CA

MUSYM	COMPNAME	HEL Status Water Erosion	Component PCT	Wind C factor	T	Kw	R FACTOR MOST LIMITING	SLOPE MIN	SLOPE MAX	SLOPE LENGTH MIN	SLOPE LENGTH MAX	LS MIN	LS MAX	EI wind C*I/T	8t/rk	Water HEL	Wind HEL
173yu	Holland	HEL	15		5	0.32	180	8	30	50	550	0.700	13.800		0.69	HEL	
176yu	Jocal	PHEL	80		5	0.32	155	8	15	50	550	0.700	5.540		0.81	PHEL	
188yu	Mariposa Taxadjunct	HEL	80		2	0.2	155	15	30	50	400	1.670	11.700		0.52	HEL	
189yu	Mariposa Taxadjunct	HEL	80		2	0.2	110	30	50	50	300	4.150	18.200		0.73	HEL	
196yu	Mildred	HEL	80		3	0.37	90	30	50	50	300	4.150	18.200		0.72	HEL	
221yu	Sites	PHEL	85		5	0.28	180	3	8	100	600	0.290	2.420		0.79	PHEL	
222yu	Sites	PHEL	85		5	0.28	180	8	15	50	550	0.700	5.540		0.79	PHEL	
225yu	Sites	PHEL	80		4	0.24	180	3	8	100	600	0.290	2.420		0.74	PHEL	
226yu	Sites	PHEL	80		4	0.24	180	8	15	50	550	0.700	5.540		0.74	PHEL	
227yu	Sites	HEL	80		4	0.24	180	15	30	50	400	1.670	11.700		0.74	HEL	
242yu	Surnuf	PHEL	80		5	0.32	110	8	15	50	550	0.700	5.540		1.14	PHEL	
243yu	Surnuf	HEL	80		5	0.32	110	15	30	50	400	1.670	11.700		1.14	HEL	
244yu	Surnuf	HEL	80		5	0.32	130	30	50	50	300	4.150	18.200		0.96	HEL	
248yu	Trainer	NHEL	85		5	0.32	45	0	2	200	800	0.110	0.370		2.78	NHEL	
252yu	Woodleaf	PHEL	80		2	0.2	155	3	15	50	600	0.230	5.800		0.52	PHEL	
253yu	Woodleaf	HEL	80		2	0.2	155	15	30	50	400	1.670	11.700		0.52	HEL	
DAM	DAM	----	100												----	----	

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