Table S1. Anova summaries of classification and linear regression methods predicting total fuel load and fuel load by component.

Component	Predictor	SS	DF	*F*	*p*
Classification					
1-hr woody	Cover type	6.34	4	18.13	< 0.01
	Residuals	37.17	425		
10-hr woody	Cover type	16.34	4	4.19	< 0.01
	Residuals	414.21	425		
100-hr woody	Cover type	27.81	4	4.16	< 0.01
	Residuals	709.66	425		
Litter	Cover type	1.13	4	8.91	< 0.01
	Residuals	13.49	425		
Duff	Cover type	375.86	4	43.39	< 0.01
	Residuals	920.48	425		
Total	Cover type	862.86	4	33.31	< 0.01
	Residuals	2752.15	425		
Linear regression					
1-hr woody	Basal area	1.64	1	20.18	< 0.01
	Cover type	2.84	4	8.75	< 0.01
	Distance to tree	0.41	1	5.12	0.02
	Distance to large tree	0.17	1	2.07	0.15
	Slope	0.38	1	4.71	0.03
	Residuals	34.13	421		
10-hr woody	Cover type	4.6	4	1.22	0.3
	TPH	2.9	1	3.11	0.08
	Distance to tree	1.4	1	1.47	0.23
	Aspect	2.6	1	2.76	0.1
	Flow direction	11.2	1	11.86	< 0.01
	Topographic wetness	4.3	1	4.58	0.03
	Residuals	396.8	420		
100-hr woody	Cover type	16.5	4	2.56	0.04
	Flow direction	10.3	1	6.41	0.01
	Topographic wetness	3.5	1	2.18	0.14
	Curvature	21.7	1	13.48	< 0.01
	Residuals	680.8	422		
Litter	Basal area	0.26	1	8.48	< 0.01
	Cover type	0.84	4	6.87	< 0.01
	Large trees per hectare	0.08	1	2.72	0.1
	Slope	0.27	1	9.02	< 0.01
	Aspect	0.18	1	6.05	0.01
	Topographic wetness	0.11	1	3.71	0.05
	Surface relief ratio	0.08	1	2.5	0.11
	Residuals	12.74	419		
Duff	Basal area	47.1	1	24.28	< 0.01
	Cover type	36.8	4	4.74	< 0.01
	TPH	21.1	1	10.88	< 0.01
	Large tree TPH	25.8	1	13.33	< 0.01

	Distance to large tree	25.5	1	13.14	< 0.01
	Slope	10.5	1	5.43	0.02
	Aspect	8.1	1	4.19	0.04
	Curvature	7	1	3.6	0.06
	Surface relief ratio	7	1	3.63	0.06
	Residuals	808.7	417		
Total	Basal area	44.9	1	7.42	0.01
	Cover type	329.7	4	13.61	< 0.01
	Distance to tree	58.4	1	9.65	< 0.01
	Aspect	11.2	1	1.85	0.17
	Flow direction	32.5	1	5.37	0.02
	Residuals	2548.6	421		

Table S2. Regression tables of classification and linear regression methods predicting total fuel load and fuel load by component. PIEN is the dummy-coded cover type. Were PIEN = Engelmann spruce, PIPO = ponderosa pine, PIPU = blue spruce, POTR = quaking aspen, and PSME = Douglas-fir.

Component	Predictor	β	SE	*t*	*p*
Classification					
1-hr woody	(Intercept)	0.40	0.03	15.70	< 0.01
	Cover type [PIPO]	-0.22	0.04	-6.25	< 0.01
	Cover type [PIPU]	0.03	0.06	0.49	< 0.01
	Cover type [POTR]	-0.26	0.04	-5.84	< 0.01
	Cover type [PSME]	0.02	0.05	0.46	< 0.01
10-hr woody	(Intercept)	0.95	0.09	10.80	< 0.01
	Cover type [PIPO]	-0.45	0.12	-3.72	< 0.01
	Cover type [PIPU]	-0.44	0.18	-2.50	< 0.01
	Cover type [POTR]	-0.41	0.15	-2.76	< 0.01
	Cover type [PSME]	-0.22	0.16	-1.34	< 0.01
100-hr woody	(Intercept)	1.00	0.11	8.94	< 0.01
	Cover type [PIPO]	-0.33	0.15	-2.15	< 0.01
	Cover type [PIPU]	0.70	0.28	2.53	< 0.01
	Cover type [POTR]	-0.13	0.20	-0.65	< 0.01
	Cover type [PSME]	-0.29	0.20	-1.43	< 0.01
Litter	(Intercept)	0.25	0.02	16.40	< 0.01
	Cover type [PIPO]	0.05	0.02	2.36	< 0.01
	Cover type [PIPU]	0.05	0.03	1.62	< 0.01
	Cover type [POTR]	-0.02	0.03	-0.74	< 0.01
	Cover type [PSME]	0.15	0.03	5.24	< 0.01
Duff	(Intercept)	3.11	0.13	24.30	< 0.01
	Cover type [PIPO]	-2.13	0.18	-12.10	< 0.01
	Cover type [PIPU]	-0.36	0.30	-1.20	< 0.01
	Cover type [POTR]	-1.97	0.22	-8.98	< 0.01
	Cover type [PSME]	-1.10	0.23	-4.71	< 0.01
Total	(Intercept)	5.81	0.21	27.30	< 0.01
	Cover type [PIPO]	-3.26	0.29	-11.10	< 0.01
	Cover type [PIPU]	-0.75	0.61	-1.23	< 0.01
	Cover type [POTR]	-2.61	0.40	-6.56	< 0.01

	Cover type [PSME]	-1.68	0.42	-4.01	< 0.01
Linear regression					
1-hr woody	(Intercept)	0.27	0.07	4.03	< 0.01
	Basal area	0.03	0.01	4.49	< 0.01
	Cover type [PIPO]	-0.15	0.04	-4.06	< 0.01
	Cover type [PIPU]	0.10	0.06	1.58	0.12
	Cover type [POTR]	-0.15	0.05	-3.28	< 0.01
	Cover type [PSME]	0.03	0.05	0.64	0.53
	Distance to tree	-0.04	0.02	-2.26	0.02
	Distance to large tree	0.02	0.02	1.44	0.15
	Slope	-0.01	< 0.01	-2.17	0.03
10-hr woody	(Intercept)	-0.15	0.60	-0.26	0.80
	Cover type [PIPO]	-0.08	0.19	-0.41	0.68
	Cover type [PIPU]	-0.27	0.27	-1.01	0.31
	Cover type [POTR]	-0.38	0.22	-1.75	0.08
	Cover type [PSME]	< 0.01	0.19	-0.01	0.99
	TPH	3.23	1.83	1.76	0.08
	Distance to tree	-0.04	0.03	-1.21	0.23
	Aspect	-0.16	0.10	-1.66	0.10
	Flow direction	-0.36	0.10	-3.44	< 0.01
	Topographic wetness	0.17	0.08	2.14	0.03
100-hr woody	(Intercept)	1.83	0.41	4.49	< 0.01
	Cover type [PIPO]	-0.50	0.20	-2.57	0.01
	Cover type [PIPU]	-0.32	0.24	-1.34	0.18
	Cover type [POTR]	0.01	0.22	0.05	0.96
	Cover type [PSME]	-0.19	0.21	-0.87	0.39
	Flow direction	-0.28	0.11	-2.53	0.01
	Topographic wetness	-0.12	0.08	-1.48	0.14
	Curvature	1.11	0.30	3.67	< 0.01
Litter	(Intercept)	-0.05	0.12	-0.39	0.70
	Basal area	0.01	< 0.01	2.91	< 0.01
	Cover type [PIPO]	0.09	0.03	3.08	< 0.01
	Cover type [PIPU]	0.08	0.03	2.38	0.02
	Cover type [POTR]	0.05	0.03	1.62	0.11
	Cover type [PSME]	0.15	0.03	4.89	< 0.01
	Large trees per hectare	-0.87	0.53	-1.65	0.10
	Slope	0.01	< 0.01	3.00	< 0.01
	Aspect	-0.04	0.02	-2.46	0.01
	Topographic wetness	0.03	0.02	1.93	0.05
	Surface relief ratio	0.12	0.07	1.58	0.11
Duff	(Intercept)	0.40	0.75	0.53	0.60
	Basal area	0.28	0.06	4.93	< 0.01
	Cover type [PIPO]	-0.89	0.29	-3.07	< 0.01
	Cover type [PIPU]	-0.05	0.49	-0.11	0.91
	Cover type [POTR]	-0.04	0.34	-0.13	0.90
	Cover type [PSME]	-0.66	0.31	-2.11	0.04
	TPH	12.42	3.76	3.30	< 0.01
	Large trees per hectare	-34.5	9.45	-3.65	< 0.01
	Distance to large tree	-0.16	0.04	-3.63	< 0.01

	Slope	0.05	0.02	2.33	0.02
	Aspect	-0.29	0.14	-2.05	0.04
	Curvature	-0.13	0.07	-1.90	0.06
	Surface relief ratio	1.70	0.89	1.91	0.06
Total	(Intercept)	5.61	0.61	9.27	< 0.01
	Basal area	0.16	0.06	2.72	0.01
	Cover type [PIPO]	-2.71	0.40	-6.77	< 0.01
	Cover type [PIPU]	-0.63	0.64	-0.99	0.32
	Cover type [POTR]	-1.95	0.51	-3.83	< 0.01
	Cover type [PSME]	-1.47	0.41	-3.63	< 0.01
	Distance to tree	-0.24	0.08	-3.11	< 0.01
	Aspect	-0.34	0.25	-1.36	0.17
	Flow direction	-0.59	0.26	-2.32	0.02