Table S1. Goodness of fit of the functions tested to estimate biomass for each growth habit of early-seral vegetation growing at a Costal-Wet (CW) site in western Oregon.

Predictor	Model	Bracken fern		Sword fern		Forbs		Graminoids		Brambles		Shrubs		Total	
		R²	AIC	R²	AIC	R²	AIC	R²	AIC	R²	AIC	R²	AIC	R²	AIC
C	1	0.95	-97.30	0.93	-25.10	0.59	-140.73	0.92	-140.13	0.81	-177.36	0.90	-80.58	0.60	-54.16
C·H	1	0.76	-23.50	0.94	-28.52	0.55	-92.53	0.80	-48.19	0.85	-135.40	0.99	-98.31	0.50	-27.62
C	2	0.97	-98.81	0.96	-27.40	0.88	-145.13	0.95	-167.15	0.85	-177.59	0.98	-114.07	0.90	-54.49
C·H	2	0.94	-34.51	0.97	-36.62	0.88	-104.71	0.88	-61.32	0.92	-146.24	0.98	-139.48	0.91	-39.54
C	3	0.97	-91.90	0.95	-24.22	0.88	-141.60	0.94	-143.78	0.92	-207.37	0.98	-113.09	0.89	-52.63
C·H	3	0.96	-42.03	0.94	-20.36	0.86	-92.79	0.89	-61.68	0.92	-148.43	0.99	-129.16	0.90	-34.46
C	4	0.97	-99.46	0.96	-25.40	0.88	-144.21	0.95	-165.15	0.91	-198.12	0.98	-112.07	0.89	-52.49
C·H	4	0.96	-42.23	0.97	-34.62	0.88	-102.71	0.89	-62.75	0.92	-148.64	0.96	-86.19	0.91	-37.89
C	5	0.97	-93.82	0.96	-28.10	0.88	-143.56	0.95	-165.40	0.84	-173.10	0.98	-114.24	0.90	-53.34
C·H	5	0.94	-32.90	0.97	-35.88	0.88	-103.40	0.88	-59.35	0.91	-144.51	0.98	-142.61	0.91	-37.95
C	6	0.97	-98.77	0.95	-25.21	0.88	-146.27	0.92	-121.63	0.84	-173.93	0.82	-71.72	0.89	-53.48
C·H	6	0.96	-42.69	0.97	-34.01	0.85	-89.00	0.89	-65.23	0.93	-151.24	0.98	-95.63	0.89	-30.83
C and H	7	0.93	-45.19	0.94	-27.25	0.74	-127.28	0.90	-85.52	0.88	-142.86	0.90	-68.15	0.73	-60.45
C and H	8	0.97	-48.00	0.98	-38.68	0.92	-129.77	0.94	-100.67	0.91	-144.24	0.99	-137.88	0.94	-63.50

C: vegetation cover (%); H: vegetation height (cm); 1: linear; 2: Power; 3: Logistic; 4: Logistic Power; 5: Shifter Power; 6: Exponential Association; 7: Linear with independent variables; 8: Power with independent variables; Total: includes all vegetation; R²: coefficient of determination; AIC: Akaike Information Criterion; Background shading indicate the best model for each species or growth habit.

Table S2. Goodness of fit of the functions tested to estimate biomass for each growth habit of early-seral vegetation growing at an Inland-Dry (ID) site in western Oregon.

Predictor	Model	Sword fern		Forbs		Graminoids		Brambles		Total	
		R^2	AIC	R^2	AIC	R^2	AIC	R^2	AIC	R^2	AIC
C	1	0.96	-21.97	0.63	-17.26	0.91	-34.61	0.97	-95.20	0.80	-21.42
C·H	1	0.95	-18.49	0.94	-101.88	0.98	-84.60	0.98	-104.95	0.48	10.62
C	2	0.99	-45.45	0.83	-17.55	0.96	-44.58	0.99	-127.79	0.93	-23.15
C·H	2	0.97	-22.87	0.97	-100.64	0.99	-82.67	0.98	-107.70	0.87	-1.57
C	3	0.99	-52.50	0.82	-15.37	0.97	-53.93	0.98	-103.28	0.93	-21.82
C·H	3	0.96	-13.95	0.97	-100.46	0.98	-61.98	0.96	-81.27	0.86	1.29
C	4	0.99	-50.50	0.82	-15.56	0.96	-42.58	0.99	-125.79	0.93	-23.15
C·H	4	0.97	-20.87	0.97	-98.64	0.99	-80.67	0.98	-105.70	0.88	-3.33
C	5	0.99	-45.64	0.82	-15.56	0.97	-53.70	0.99	-127.88	0.93	-21.16
C·H	5	0.97	-20.44	0.97	-103.16	0.99	-84.75	0.98	-105.79	0.88	-1.94
C	6	0.96	-15.29	0.82	-14.96	0.94	-33.60	0.97	-91.50	0.91	-12.22
C·H	6	0.96	-17.03	0.97	-100.27	0.99	-79.61	0.98	-107.64	0.88	-3.90
C and H	7	0.96	-21.54	0.85	-57.86	0.93	-42.17	0.97	-93.22	0.87	-34.55
C and H	8	0.99	-55.83	0.97	-99.68	0.99	-80.68	0.99	-159.72	0.96	-39.28

C: vegetation cover (%). H: vegetation height (cm). 1: linear; 2: Power; 3: Logistic; 4: Logistic Power; 5: Shifter Power; 6: Exponential Association; 7: Linear with independent variables; 8: Power with independent variables; Total: includes all vegetation; R^2: coefficient of determination; AIC: Akaike Information Criterion; Background shading indicate the best model for each species or growth habit.

Table S3. Goodness of fit of the functions tested to estimate biomass for each growth habit of early-seral vegetation for the pooled data set.

Predictor	Model	Sword fern		Forbs		Graminoids		Brambles		Total	
		R²	AIC	R²	AIC	R²	AIC	R²	AIC	R²	AIC
C	1	0.83	-4.52	0.60	-127.77	0.90	-155.77	0.96	-276.05	0.69	-74.37
C·H	1	0.80	0.41	0.69	-119.96	0.85	-84.70	0.97	-244.96	0.48	-10.47
C	2	0.88	-3.10	0.84	-127.70	0.94	-177.52	0.97	-293.06	0.91	-77.73
C·H	2	0.89	-5.93	0.88	-128.53	0.92	-108.10	0.97	-246.59	0.89	-39.63
C	3	0.88	-1.77	0.83	-123.13	0.93	-162.31	0.94	-236.37	0.91	-76.65
C·H	3	0.93	-22.89	0.88	-132.72	0.93	-114.41	0.94	-195.23	0.88	-32.45
C	4	0.89	-3.58	0.84	-127.70	0.94	-175.52	0.97	-291.06	0.91	-75.73
C·H	4	0.92	-18.05	0.88	-126.55	0.93	-114.92	0.97	-244.59	0.90	-40.90
C	5	0.88	-1.34	0.84	-125.81	0.94	-179.52	0.97	-291.07	0.91	-77.26
C·H	5	0.89	-4.08	0.88	-126.78	0.92	-106.16	0.97	-245.79	0.89	-39.31
C	6	0.88	-2.80	0.84	-127.69	0.92	-145.22	0.96	-262.58	0.90	-68.27
C·H	6	0.91	-14.20	0.87	-122.36	0.93	-119.19	0.97	-246.11	0.88	-33.04
C and H	7	0.83	-4.22	0.73	-135.60	0.91	-124.11	0.96	-228.62	0.80	-92.90
C and H	8	0.89	-5.99	0.91	-163.29	0.95	-149.43	0.98	-272.42	0.95	-100.54

C: vegetation cover (%). H: vegetation height (cm). 1: linear; 2: Power; 3: Logistic; 4: Logistic Power; 5: Shifter Power; 6: Exponential Association; 7: Linear with independent variables; 8: Power with independent variables; Total: includes all vegetation; R²: coefficient of determination; AIC: Akaike Information Criterion; Background shading indicate the best model for each species or growth habit.