

Supplementary Materials: Development of a Regional Lidar-Derived Above-Ground Biomass Model with Bayesian Model Averaging for use in Ponderosa Pine and Mixed Conifer Forests in Arizona and New Mexico, USA

Karis Tenneson *, Matthew S. Patterson, Thomas Mellin, Mark Nigrelli, Peter Joria and Brent Mitchell

Table S1. Correlation statistics of excluded lidar metrics; metrics that had a correlation of 0.94 or greater were not considered in the BMA.

Variable	Excluded Pair	Corr. Coef.
Height Metrics		
P10	P05	0.94
P30	P20	0.97
	P25	0.99
	P40	0.98
P60	Mean height	0.99
	P50	0.99
	P70	0.99
	P75	0.98
P90	P80	0.98
	P95	0.99
	P99	0.97
Height Distribution Metrics		
SD	L2	0.98
	Average absolute deviation from the mean height	0.97
MAD Med.	Interquartile distance	0.94
LCV	Coefficient of variation	0.94
Canopy Cover and Density		
CC	number of 1 st returns (> 3m) divided by total number of all 1 st returns	0.98
COV>mean height:all	number of all returns above the mean divided by total number of 1 st returns	0.99
	number of 1 st returns above the mean divided by total number of all returns	0.99
COVall >mode:all	number of all returns above the mode divided by total number of all returns	0.98
	number of 1 st returns above the mode divided by total number of all returns	0.99

