

Supplementary Data File (S4)

Table S1. Correlation matrix showing Pearson's coefficient and related p-values between all of the measured variables. Given the multiplicity of tests in this correlation matrix, the significant alpha level should be adjusted to 0.000135 according to the Bonferroni-Sidak correction factor.

	2016 DBH	2016 Height	Mean QMD	Mean plot density	Mean plot basal area	Forest Floor (cm)	Gravimetric moisture content	Soil N Mineralization (per gram soil) (2016)	Soil N Mineralization (per gram soil) (2017)	Soil N Mineralization (per ha) (2016)	Soil N Mineralization (per ha) (2017)	Basal Respiration (2016)	Basal Respiration (2017)	Microbial Biomass (2016)	Microbial Biomass (2017)	Foliar N (mg/g)	Foliar CN (mg/g)	d13C (‰)	d18O (‰)	Canopy Openness (%)
2016 DBH	$r = 1.000$ $p = 0.000$																			
2016 Height	$r = 0.525$ $p = 0.010$	$r = 1.000$ $p = 0.000$																		
Mean QMD	$r = 0.535$ $p = 0.009$	$r = 0.446$ $p = 0.033$	$r = 1.000$ $p = 0.000$																	
Mean plot density	$r = -0.266$ $p = 0.221$	$r = 0.009$ $p = 0.966$	$r = -0.625$ $p = 0.001$	$r = 1.000$ $p = 0.000$																
Mean plot basal area	$r = -0.088$ $p = 0.691$	$r = 0.264$ $p = 0.224$	$r = -0.085$ $p = 0.694$	$r = 0.469$ $p = 0.021$	$r = 1.000$ $p = 0.000$															
Forest Floor (cm)	$r = 0.041$ $p = 0.853$	$r = -0.079$ $p = 0.722$	$r = 0.086$ $p = 0.698$	$r = -0.382$ $p = 0.072$	$r = 0.347$ $p = 0.105$	$r = 1.000$ $p = 0.000$														
Gravimetric moisture content	$r = 0.028$ $p = 0.901$	$r = -0.336$ $p = 0.117$	$r = -0.127$ $p = 0.555$	$r = -0.049$ $p = 0.822$	$r = -0.367$ $p = 0.078$	$r = -0.373$ $p = 0.080$	$r = 1.000$ $p = 0.000$													
Soil N Mineralization (per gram soil) (2016)	$r = 0.155$ $p = 0.480$	$r = 0.500$ $p = 0.015$	$r = 0.294$ $p = 0.164$	$r = 0.352$ $p = 0.092$	$r = 0.406$ $p = 0.049$	$r = -0.327$ $p = 0.128$	$r = -0.234$ $p = 0.271$	$r = 1.000$ $p = 0.000$												
Soil N Mineralization (per gram soil) (2017)	$r = 0.337$ $p = 0.115$	$r = 0.545$ $p = 0.007$	$r = 0.066$ $p = 0.759$	$r = 0.447$ $p = 0.029$	$r = 0.034$ $p = 0.874$	$r = -0.670$ $p < 0.001$	$r = 0.085$ $p = 0.693$	$r = 0.518$ $p = 0.010$	$r = 1.000$ $p = 0.000$											
Soil N Mineralization (per ha) (2016)	$r = 0.137$ $p = 0.532$	$r = 0.470$ $p = 0.023$	$r = 0.317$ $p = 0.131$	$r = 0.180$ $p = 0.400$	$r = 0.569$ $p = 0.004$	$r = 0.059$ $p = 0.790$	$r = -0.393$ $p = 0.058$	$r = 0.877$ $p < 0.001$	$r = 0.311$ $p = 0.139$	$r = 1.000$ $p = 0.000$										
Soil N Mineralization (per ha) (2017)	$r = 0.410$ $p = 0.052$	$r = 0.563$ $p = 0.005$	$r = 0.131$ $p = 0.541$	$r = 0.154$ $p = 0.471$	$r = 0.367$ $p = 0.078$	$r = 0.286$ $p = 0.185$	$r = -0.374$ $p = 0.072$	$r = 0.182$ $p = 0.394$	$r = 0.514$ $p = 0.010$	$r = 0.337$ $p = 0.107$	$r = 1.000$ $p = 0.000$									
Basal Respiration (2016)	$r = -0.042$ $p = 0.850$	$r = 0.042$ $p = 0.849$	$r = -0.446$ $p = 0.033$	$r = 0.633$ $p = 0.001$	$r = -0.138$ $p = 0.531$	$r = -0.531$ $p = 0.009$	$r = 0.416$ $p = 0.048$	$r = 0.145$ $p = 0.510$	$r = 0.490$ $p = 0.018$	$r = -0.154$ $p = 0.483$	$r = -0.040$ $p = 0.855$	$r = 1.000$ $p = 0.000$								
Basal Respiration (2017)	$r = 0.576$ $p = 0.004$	$r = 0.589$ $p = 0.003$	$r = 0.265$ $p = 0.211$	$r = 0.111$ $p = 0.606$	$r = -0.079$ $p = 0.713$	$r = -0.294$ $p = 0.173$	$r = 0.053$ $p = 0.807$	$r = 0.404$ $p = 0.050$	$r = 0.598$ $p = 0.002$	$r = 0.319$ $p = 0.129$	$r = 0.324$ $p = 0.123$	$r = 0.230$ $p = 0.291$	$r = 1.000$ $p = 0.000$							
Microbial Biomass (2016)	$r = -0.025$ $p = 0.909$	$r = 0.039$ $p = 0.859$	$r = -0.136$ $p = 0.536$	$r = 0.417$ $p = 0.048$	$r = -0.245$ $p = 0.261$	$r = -0.515$ $p = 0.012$	$r = 0.307$ $p = 0.154$	$r = 0.218$ $p = 0.317$	$r = 0.459$ $p = 0.027$	$r = -0.069$ $p = 0.755$	$r = -0.053$ $p = 0.810$	$r = 0.732$ $p < 0.001$	$r = 0.416$ $p = 0.049$	$r = 1.000$ $p = 0.000$						
Microbial Biomass (2017)	$r = 0.383$ $p = 0.071$	$r = 0.211$ $p = 0.335$	$r = -0.088$ $p = 0.683$	$r = 0.302$ $p = 0.151$	$r = -0.188$ $p = 0.380$	$r = -0.393$ $p = 0.064$	$r = 0.595$ $p = 0.002$	$r = 0.240$ $p = 0.260$	$r = 0.451$ $p = 0.027$	$r = -0.008$ $p = 0.971$	$r = -0.003$ $p = 0.991$	$r = 0.711$ $p < 0.001$	$r = 0.548$ $p = 0.006$	$r = 0.659$ $p < 0.001$	$r = 1.000$ $p = 0.000$					
Foliar N (mg/g)	$r = 0.455$ $p = 0.029$	$r = 0.698$ $p < 0.001$	$r = 0.441$ $p = 0.031$	$r = 0.023$ $p = 0.916$	$r = 0.318$ $p = 0.129$	$r = -0.142$ $p = 0.519$	$r = -0.313$ $p = 0.136$	$r = 0.600$ $p = 0.002$	$r = 0.588$ $p = 0.002$	$r = 0.624$ $p = 0.001$	$r = 0.558$ $p = 0.005$	$r = 0.009$ $p = 0.969$	$r = 0.309$ $p = 0.141$	$r = -0.020$ $p = 0.927$	$r = 0.058$ $p = 0.789$	$r = 1.000$ $p = 0.000$				
Foliar CN (mg/g)	$r = -0.433$ $p = 0.039$	$r = -0.670$ $p < 0.001$	$r = -0.405$ $p = 0.050$	$r = -0.126$ $p = 0.558$	$r = -0.332$ $p = 0.113$	$r = 0.256$ $p = 0.239$	$r = 0.272$ $p = 0.198$	$r = -0.654$ $p = 0.001$	$r = 0.637$ $p < 0.001$	$r = -0.618$ $p = 0.001$	$r = -0.467$ $p = 0.021$	$r = -0.059$ $p = 0.790$	$r = -0.343$ $p = 0.101$	$r = -0.056$ $p = 0.800$	$r = -0.142$ $p = 0.508$	$r = -0.968$ $p < 0.001$	$r = 1.000$ $p = 0.000$			
d13C (‰)	$r = 0.140$ $p = 0.524$	$r = -0.113$ $p = 0.609$	$r = -0.193$ $p = 0.366$	$r = 0.021$ $p = 0.921$	$r = -0.017$ $p = 0.936$	$r = 0.045$ $p = 0.837$	$r = -0.001$ $p = 0.995$	$r = -0.262$ $p = 0.216$	$r = -0.001$ $p = 0.998$	$r = -0.293$ $p = 0.165$	$r = 0.174$ $p = 0.415$	$r = -0.198$ $p = 0.364$	$r = 0.014$ $p = 0.947$	$r = -0.213$ $p = 0.328$	$r = -0.133$ $p = 0.535$	$r = -0.250$ $p = 0.239$	$r = 0.269$ $p = 0.203$	$r = 1.000$ $p = 0.000$		
d18O (‰)	$r = -0.337$ $p = 0.116$	$r = -0.285$ $p = 0.188$	$r = -0.240$ $p = 0.259$	$r = -0.122$ $p = 0.998$	$r = -0.130$ $p = 0.571$	$r = -0.130$ $p = 0.554$	$r = -0.014$ $p = 0.947$	$r = -0.111$ $p = 0.606$	$r = 0.055$ $p = 0.800$	$r = -0.073$ $p = 0.735$	$r = -0.004$ $p = 0.984$	$r = 0.110$ $p = 0.618$	$r = -0.210$ $p = 0.325$	$r = -0.032$ $p = 0.884$	$r = -0.322$ $p = 0.125$	$r = -0.092$ $p = 0.670$	$r = 0.183$ $p = 0.392$	$r = 0.253$ $p = 0.233$	$r = 1.000$ $p = 0.000$	
Canopy Openness (%)	$r = -0.319$ $p = 0.137$	$r = -0.550$ $p = 0.007$	$r = -0.453$ $p = 0.026$	$r = -0.184$ $p = 0.388$	$r = -0.686$ $p < 0.001$	$r = -0.147$ $p = 0.503$	$r = 0.394$ $p = 0.057$	$r = -0.667$ $p < 0.001$	$r = -0.307$ $p = 0.144$	$r = -0.712$ $p < 0.001$	$r = -0.470$ $p = 0.020$	$r = 0.169$ $p = 0.440$	$r = -0.133$ $p = 0.537$	$r = 0.136$ $p = 0.535$	$r = 0.035$ $p = 0.869$	$r = -0.709$ $p < 0.001$	$r = 0.741$ $p < 0.001$	$r = 0.233$ $p = 0.274$	$r = 0.323$ $p = 0.124$	$r = 1.000$ $p = 0.000$