

Understanding the Dynamics of Wild Pawpaw Fruit Production in Relation to Forest and Soil Structure

**Francino S., Davies G.M. & Bergefurd
B.**

Methods

- Wild plot
- 5-6 plots across 5 sites
- Flowering and Fruiting efforts were measured
- 2015-2017
- Forest and Soil Characteristic were measure on a plot base level

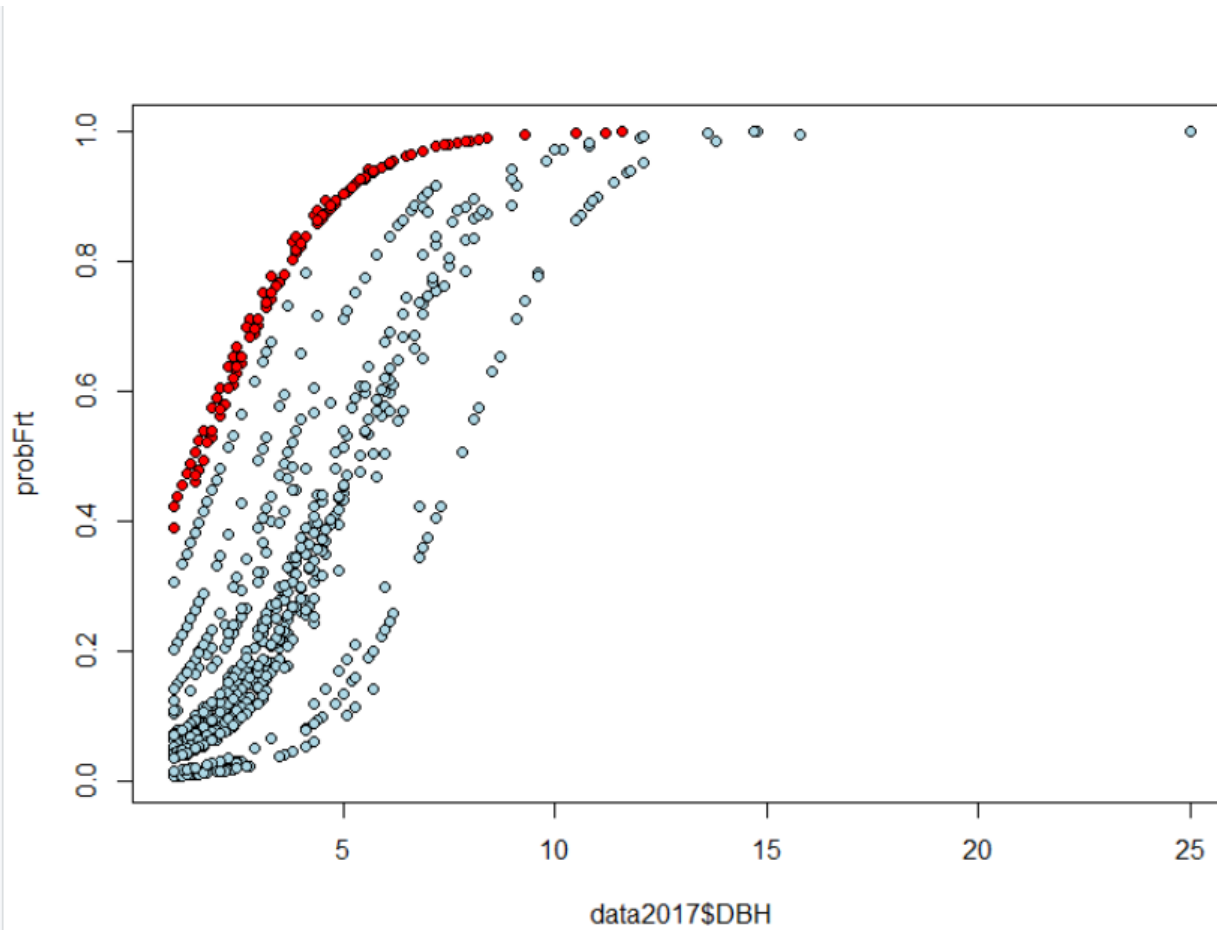
Forest Structure Factors

	Factor 1	Factor 2	Factor 3	Factor 4
Number of Pawpaw trees	-0.248		-0.534	-0.136
Average Diameter of Pawpaws	-0.441	0.611	0.152	
Standard Deviation of Diameter of Pawpaws	-0.378	0.798	0.218	
Density of Pawpaw tree		0.935	-0.185	-0.289
Pawpaw trees per hectare	-0.457	0.161	-0.171	
Number of Non-pawpaw trees	0.700	-0.171	0.149	0.675
Density Non-pawpaw				0.277
Non pawpaw trees per hectare	0.700	-0.171	0.149	0.675
Diversity of Trees	0.754	-0.232		
Shrub Cover		0.179	0.967	-0.165

Soil Factors

	Factor 1	Factor 2	Factor 3	Factor 4
pH	0.774	0.192	0.167	-0.393
EC	0.381			0.183
AC				0.992
OM	0.317	0.467	0.643	-0.155
BD	-0.124		-0.849	
PAN	0.734	0.208	0.433	
CA	0.843	0.372		-0.227
K	0.172	0.975	0.116	

DBH of a tree versus the probability of a tree having a fruit- red trees in open plots, blue in closed plots



- Two site over 3 years
- Flowering effect

