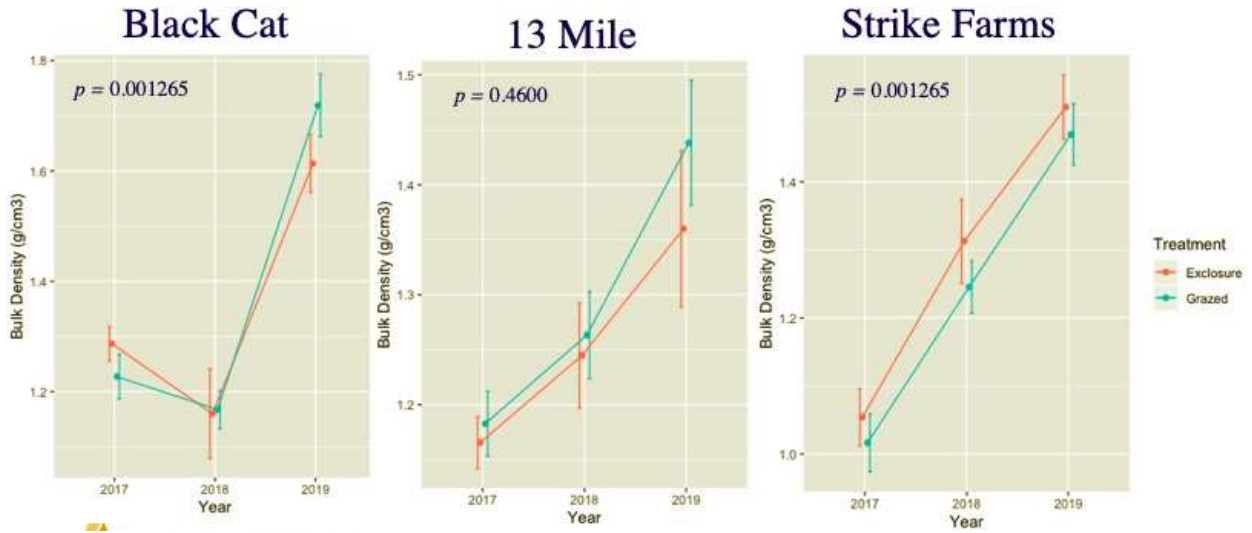


# Integrating Livestock with Vegetable Cropping Systems Preliminary Results

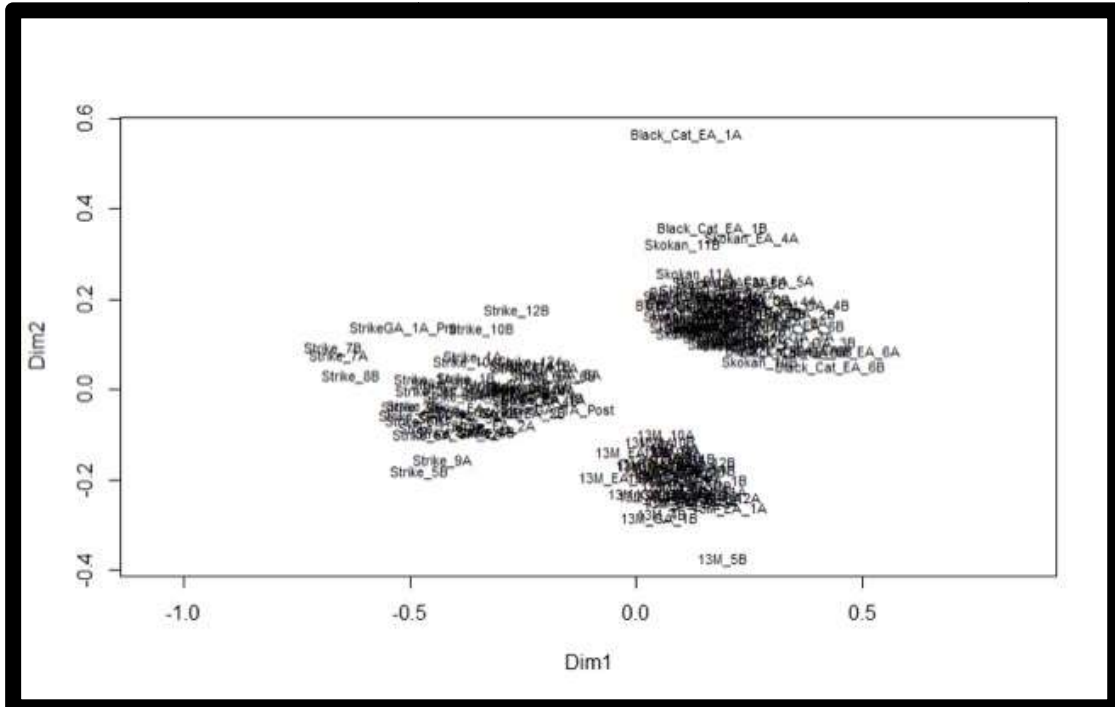
## Soil Microbial Diversity:

Alpha Diversity					
	Grazing Treatments			P-Value	
	Pre-graze (2017)	Un-grazed (2018)	Grazed (2018)	Pre-grazed vs. Grazed	Grazed vs Un-grazed
Shannon Index	6.0366	6.181	6.228	0.006	0.393
CHAO	3483	4071	4070	0.002	0.888

## Soil Bulk Density:



**Soil Microbial Community Diversity:**



Non-metric multidimensional scaling of Bray-Curtis dissimilarities showing soil microbial communities clustering by farm. Each farm has its own unique microbial communities. This is due to soil differences, climate and inputs.

**Soil Nutrients:**

Location	Soil Nutrients				P-Value			
	Treatment	Year	% OM	% N	% N	% OM	Year %N	Year %OM
Strike	Ungrazed	2017	7.80	0.40	0.555	0.738	0.0441	0.0386
	Grazed	2018	6.50	0.30				
	Ungrazed	2018	6.90	0.30				
13 Mile	Ungrazed	2017	7.80	0.40	0.517	0.530	0.630	0.530
	Grazed	2018	6.80	0.40				
	Ungrazed	2018	6.90	0.40				
Black Cat	Ungrazed	2017	6.46	0.33	0.603	0.788	0.265	.009
	Grazed	2018	5.30	0.30				
	Ungrazed	2018	5.00	0.30				