

Jackson County Milkweed Project

July 1st – October 1st 2017



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Jackson Soil and Water Conservation District

Jackson, Ohio

Data sampling assisted by: Madison Nadler (Summer Intern)

The purpose of this project was to record and document all the locations of milkweed stands 25+ or larger along US Route 35 and State Route 32 within the Jackson County lines. Below are maps of both aerial and street of where these stands are located.

Also there are 10 future locations to be reviewed and surveyed to determine the feasibility of planting pollinator habitat at these locations in the future. Site reviews, insect and vegetation sampling, soil tests, maps and recommendations were made for each future site.

This digital copy includes maps and soil tests taken at the sites. Insect, vegetation, and site sampling data will be provided in the hard copy.



After documenting all the stands of milkweed that were 25+ plants, there were roughly 80 plots recorded. These vary in size with some up to a couple hundred plants. Species recorded were: Common Milkweed, Swamp Milkweed, and Butterfly Milkweed.

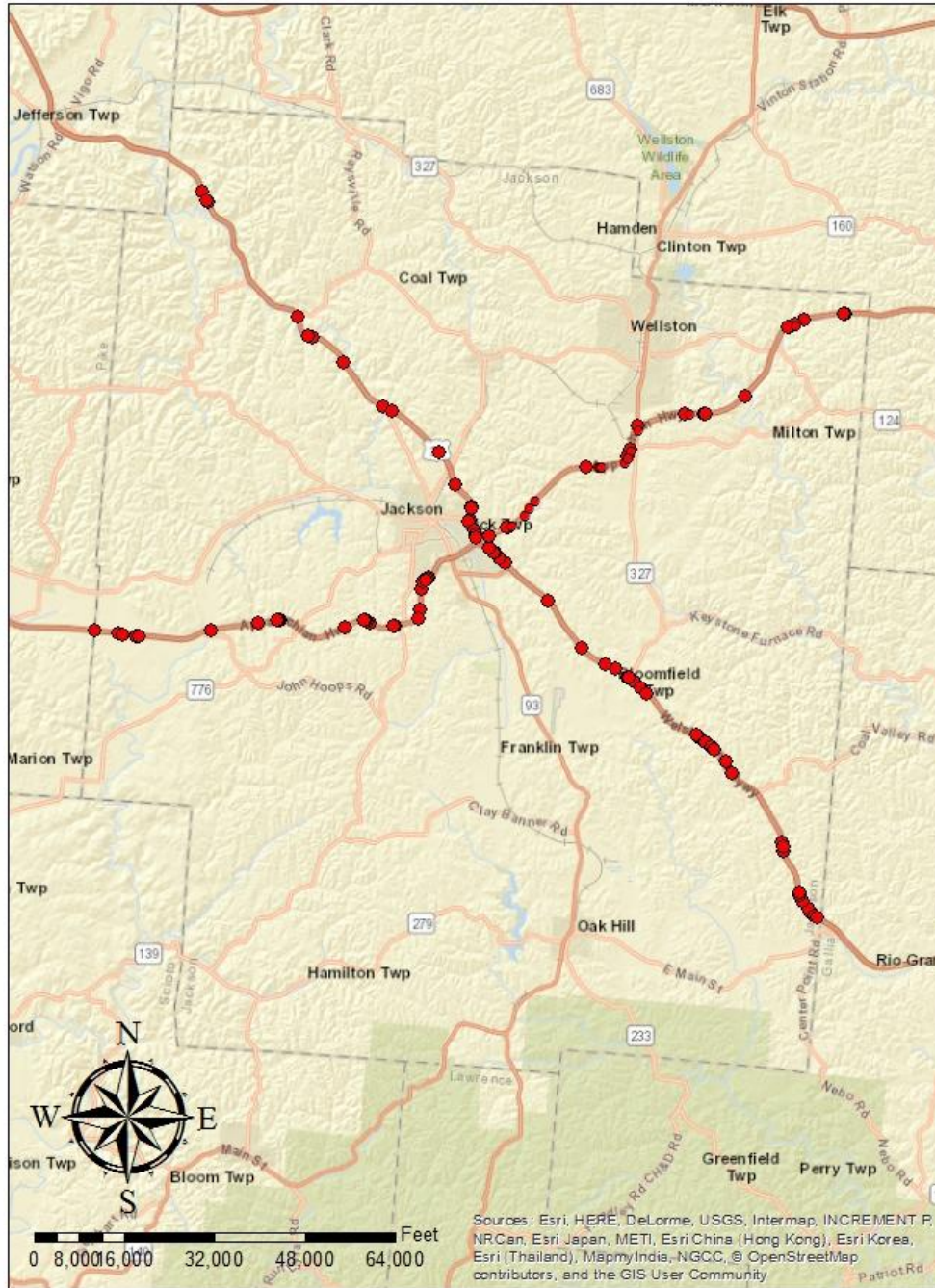
As for future sites, some are better than others in terms of priority to plant pollinator habitat. There are 6 locations that would make great sites for future pollinator plots. The other four can be fair pollinator sites, they are just low on the list because they are either limited in area, accessibility for equipment, shade or poor soil. Below is the order that I have ranked the sites for planting milkweed and pollinator habitat. All of the top six sites I would recommend using a no till drill or a frost seeding application.

- 1. 32 Interchange North**
- 2. 32 Interchange South**
- 3. 327 Cooper Hollow Intersection**
- 4. Standpipe Road Intersection**
- 5. McGiffins Road Intersection**
- 6. US Route 35 Rest Stop**
7. 93 Interchange North
8. 93 Interchange South
9. Russ Road Park and Ride
10. McCarty Lane Intersection

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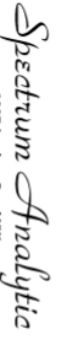
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Jackson County Milkweed Plots along 35/32



Jackson County Milkweed Plots along 35/32





1087 Jamison Road NW
Washington Court House, OH 43160-8748
www.spectrumanalytic.com

Report To
JACKSON SWCD
2026 FAIRGREENS RD
JACKSON, OH 45640

Prepared For
ODOT/SWCD
2026 FAIRGREENS ROAD
JACKSON, OH 45640

Sampled 08-22-2017
Tested 08-24-2017

Sample Number	Lab Number	pH		Organic Matter %	Phosphorus P ₁ L	Potassium K ₁ L	Magnesium Mg L	Calcium Ca L	CEC	Base Saturation			Sulfur S	Boron B	Mehlich-3 PPM and Ratios				
		Soil pH	Buffer pH							% K	% Mg	% Ca			Zinc Zn	Iron Fe	Copper Cu	Mang. Mn	Alum. Al
35 RS	H47722	7.6		2.0	12 L	84 L	352 G	3029 H	14.1	1.3	18.3	80.4							
35/32 N	H47723	7.3		2.9	7 L	85 M	215 G	1874 H	8.8	2.1	17.9	80.0							
35/32 S	H47724	6.0	6.8	2.3	7 L	61 L	206 G	969 G	7.7	1.7	19.7	47.3							

* P, K, Mg and Ca are extracted by Mehlich-3 (C/P) and are reported in ppm

Sample Number	Lab Number	Year	Crop	Yield Goal	Acres	CaCO ₃ LIME	Nutrient recommendations expressed in broadest rates of lbs/a except where noted.											
							N	P2O5	K2O	Mg	S	B	Cu	Fe Foliar	Mn Row	Zn		
35 RS	H47722	18	Wildlife Mix, Seeding	0	.5	0	150	138	211	0	434							
35/32 N	H47723	18	Wildlife Mix, Seeding	0	.5	0	150	140	196	0	226							
35/32 S	H47724	18	Wildlife Mix, Seeding	0	.5	2091	150	140	215	0								

* Lime expressed in 100% pure CaCO₃. Adjust accordingly. D = Dolomitic Lime. C = Calcitic Lime.

Wildlife Mix, Seeding: Reduce N rate 50% if corn, sorghum, or other grasses are less than 25% of planting.

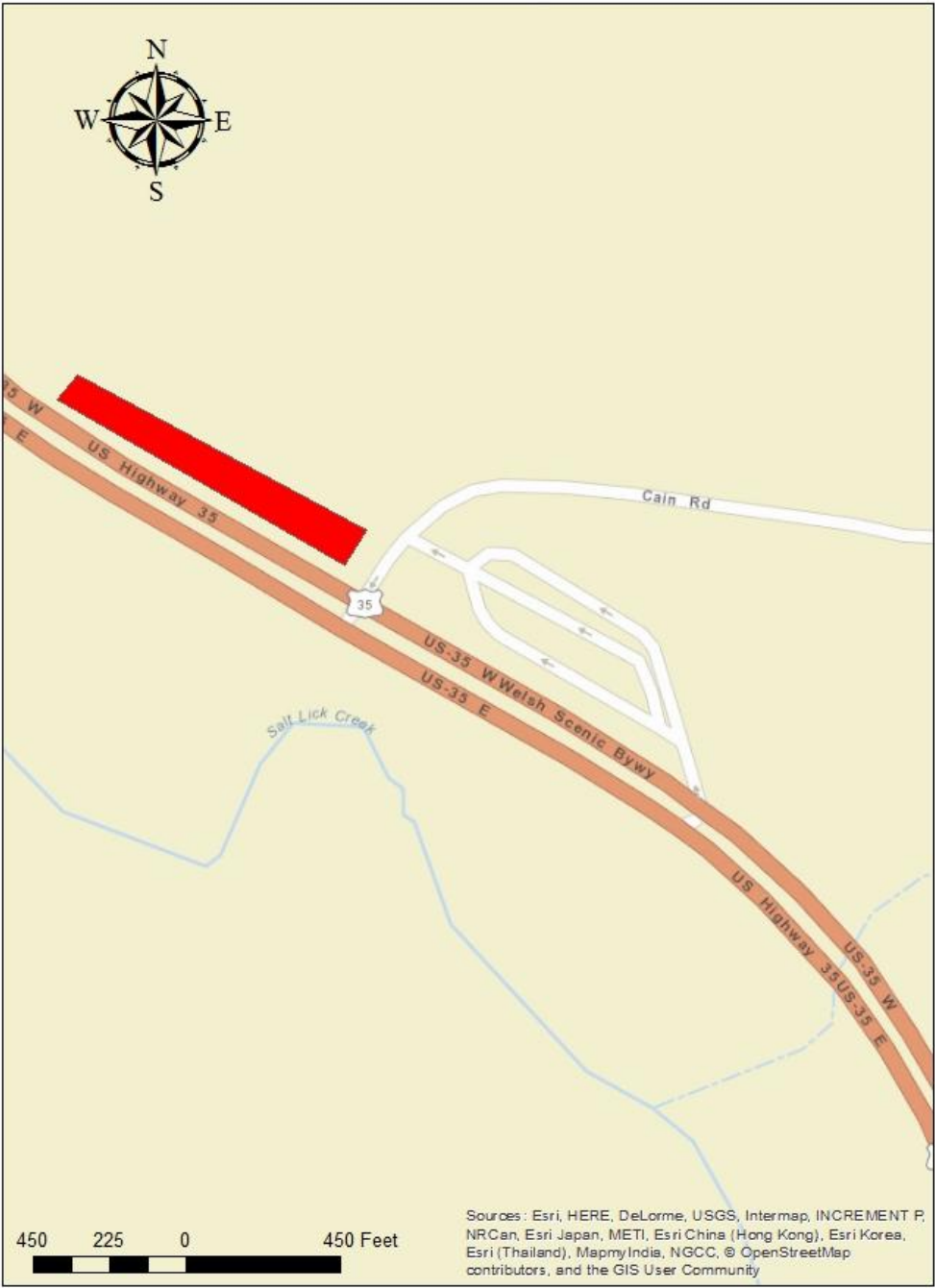
Sulfur: The S recommendation is the total amount needed to reach the desired soil pH for each crop, adjust any additional S amount for subsequent crops. Sample soils annually to monitor pH change prior to additional applications. Do not exceed 218 lb S/acre/application of 436 lb S/acre/year on established turf. Do not exceed 300 lb S/acre/year on sandy soils.

US Route 35 Rest Stop

The plot along US Route 35 Rest Stop in Jackson Township, Section 17 of Jackson County is a less than ½ acre tract of fallow field adjacent to the highway. It has a slight ditch in the center for drainage. There are other areas on the rest area that would work well also but are kept mowed down as lawns. Most flowering plants are kept mowed under flower height. Frost seeding would be recommended for this site.



Rest Stop



Rest Stop



State Route 32 and US Route 35 Interchange Plots 1 & 2

The plots along the State Route 32 and US Route 35 interchange are located in Lick Township, Section 28 of Jackson County and are between ½ - 2 acres in size. They are mainly well kept lawns with some forbs interspersed throughout the tracts. Both of these sites have large flat areas that would be great for future pollinator plots. Either using a no till drill or a frost seeding application is recommended.



US 35 St. Rt. 32 Interchange 1



US 35 St. Rt. 32 Interchange 1



Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), Mapbox, Swatch, © OpenStreetMap contributors, and the GIS User Community, Sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

0 100 200 400 600 800 Feet

US 35 Rt. 32 Interchange 2



US 35 Rt. 32 Interchange 2





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Sampled 09-13-2017
 Tested 09-15-2017

Sample Number	Lab Number	pH		Organic Matter %	Phosphorus P	Potassium K	Analysis Result and Rating		Calcium Ca	CEC	Base Saturation			Sulfur S	Boron B	Mehlich-3 PPM and Rating			Mang. Mn	Alum. Al
		Soil pH	Buffer pH				Mag. Mg	Magnesium Mg			K %	Mg %	Ca %			Zinc Zn	Iron Fe	Copper Cu		
93 NORTH	J03213	6.9	7.2	2.0	8 L	68 L	217 G	1481 G	8.5	1.7	18.7	65.1								
93 SOUTH	J03214	7.0		2.0	7 L	86 M	231 G	1356 G	8.0	2.3	21.2	63.5								

* P, K, Mg and Ca are extracted by Mehlich-3 (CP) and are reported in ppm

Sample Number	Lab Number	Year	Crop	Yield Goal	Acres	Nutrient recommendations expressed in broadcast rates of lbs/A except where noted.													
						CaCO3-- Lbs/A	N	P2O5	K2O	Mg	S	B	Cu	Fe Fblbs	Mn	Zn			
93 NORTH	J03213	18	Wildlife Mix, Seeding	0	.5	0	150	140	210	0									
93 SOUTH	J03214	18	Wildlife Mix, Seeding	0	.5	0	150	140	193	0									

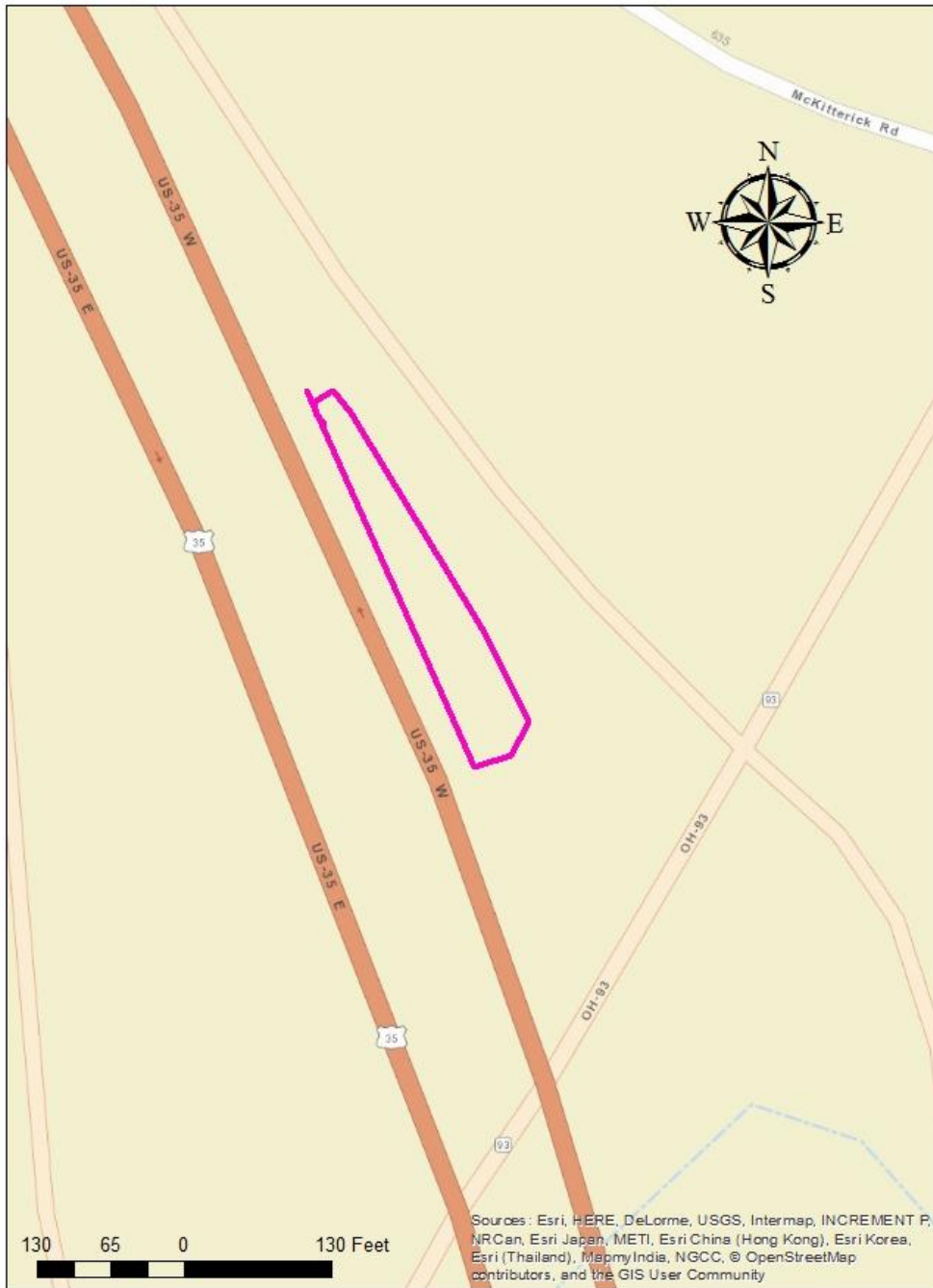
*Lime expressed in 100% pure CaCO3. Adjust accordingly. D = Dolomitic Lime. C = Calcitic Lime.
 Wildlife Mix, Seeding: Reduce N rate 50% if corn, sorghum, or other grasses are less than 25% of planting.

US Route 35 and State Route 93 Interchange North and South

The plots located along the State Route 93 and US Route 35 interchange are located on the east side of highway 35 and both are less than ½ acre in size. Both tracks are kept mowed down throughout the year and have majority of fescue and lawn type grasses. Although the northern tract has more forbs such as mistflower and trefoil more heavily dispersed throughout the plot. The northern plot is the better of the two providing more diversity among vegetation and adjacent habitat. Both would have narrow strips of available plot if using a no till drill, frost seeding is recommended to maximize area.



93 Northeast section



93 Northeast section

