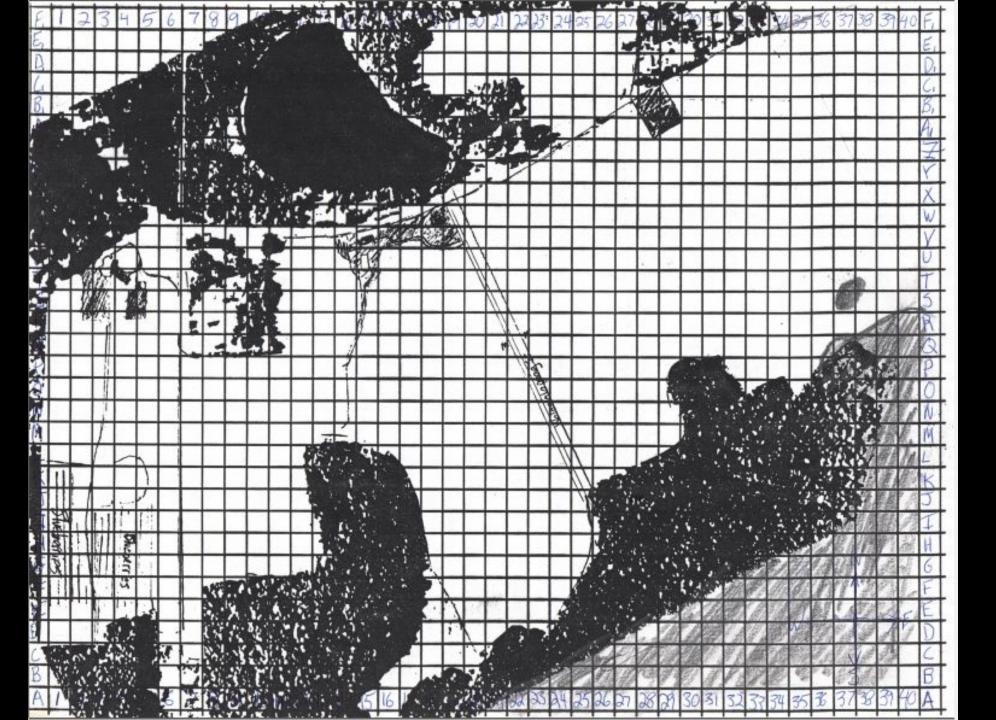
Reduced Tillage Cucurbit Production:

Great positive effects on soil health and fruit quality, but what are the stumbling blocks?



Depleted organic matter resulting in reduced yields & challenging seasons

Lab Mumber	CT		Organic		
	Soni pH	Buffer	Motsur %	Phosphorus P	Potass
D27891	7.5		2.5	433 V	655
D27892	6.9	7.0	2.2	374 V	250
D27893	6.6	6.8	2.2	755 V	20
D27894	6.5	6.8	2.9	211 H	8
D27895	6.7	6.8	1.6	404 V	18
D27896	7.2	1	1.5	450 V	83
D27897	7.6	1	1.8	363 V	34
D27898	7.5		1.4	367 V	79
D27899	7.1		2.7	460 V	5
D27900	7.1		2.0	215 V	3
	D27892 D27893 D27894 D27895 D27896 D27897 D27898 D27899	D27892 6.9 D27893 6.6 D27894 6.5 D27895 6.7 D27896 7.2 D27897 7.6 D27898 7.5 D27899 7.1	D27892 6.9 7.0 D27893 6.6 6.8 D27894 6.5 6.8 D27895 6.7 6.8 D27896 7.2 D27897 7.6 D27898 7.5 D27899 7.1	D27892 6.9 7.0 2.2 D27893 6.6 6.8 2.2 D27894 6.5 6.8 2.9 D27895 6.7 6.8 1.6 D27896 7.2 1.5 D27897 7.6 1.8 D27898 7.5 1.4 D27899 7.1 2.7	D27892 6.9 7.0 2.2 374 V D27893 6.6 6.8 2.2 755 V D27894 6.5 6.8 2.9 211 H D27895 6.7 6.8 1.6 404 V D27896 7.2 1.5 450 V D27897 7.6 1.8 363 V D27898 7.5 1.4 367 V D27899 7.1 2.7 460 V

Optional Equipment modifications to enable no-till planting



Fluted Coulter



Lever Handle Cast Iron closing wheels





Heavy Duty
Down-Pressure Spring

A few things we learned

- It was best to avoid early plantings
- We needed heavier packing wheels
- Hairy Vetch can be very challenging to plant through
- Nutrition management was more forgiving
- No-till fields handled drought better than bare-ground

Unverferth Zone Tiller





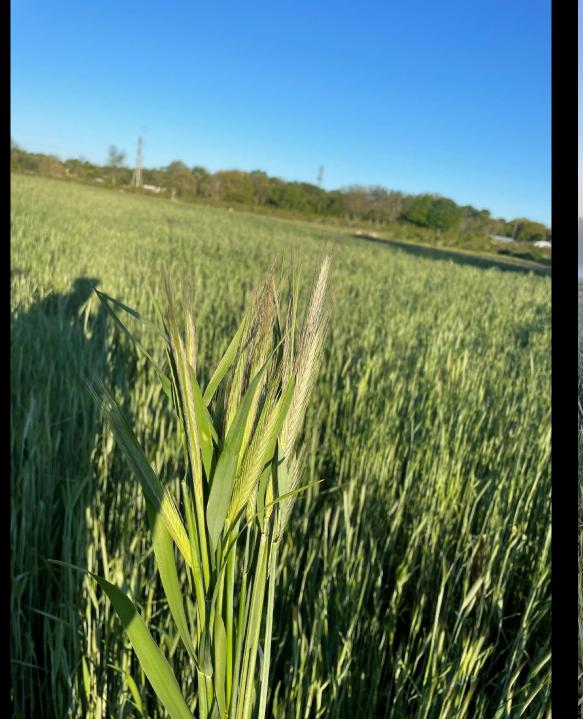




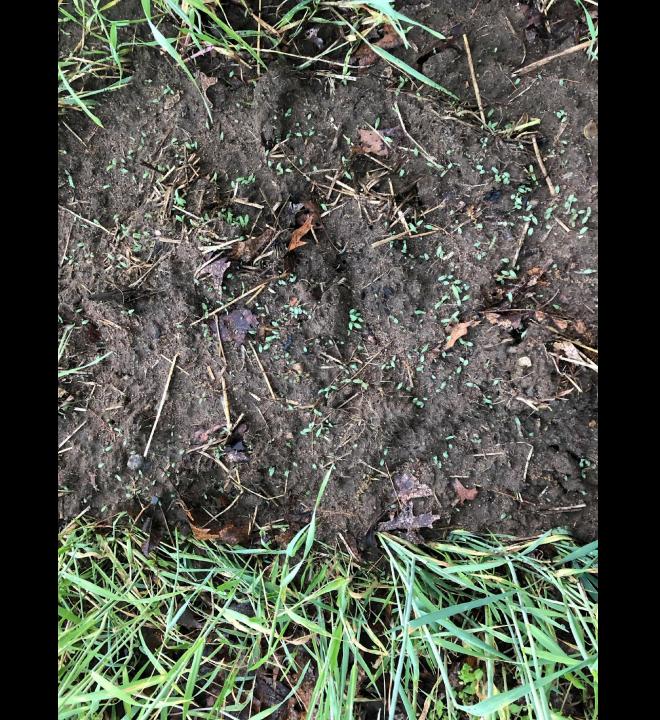












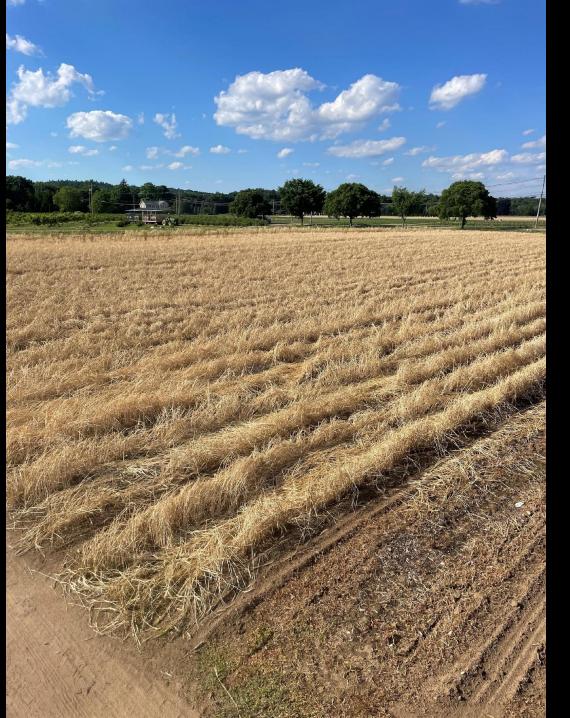
























Here you can see we've built our organic matter levels up quite a bit utilizing our zone till methods and generous compost application

