Reduced Tillage in Organic Vegetable Production

Helen Atthowe

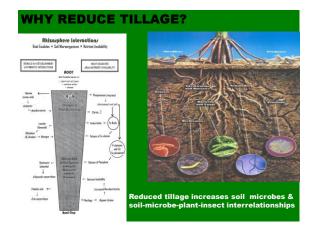
December 13, 2011

http://www.extension.org/organic_production





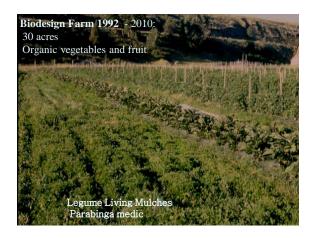










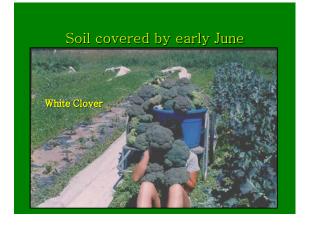




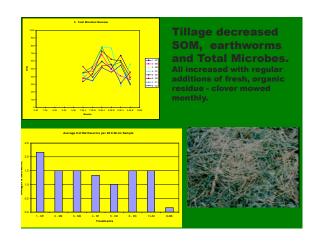














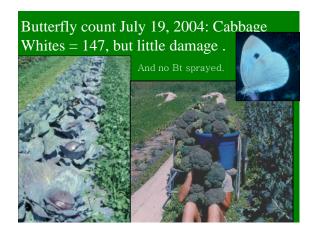


















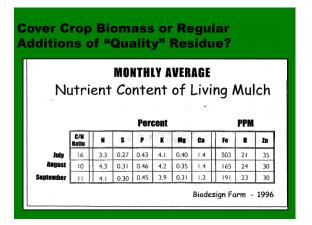


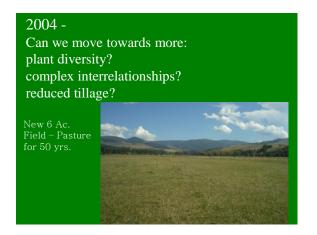




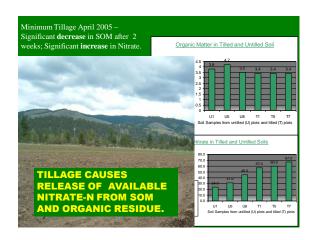


Sec. Bullet				r 10 y , TMB			300) to 7	20	nnn	_		
				NO_3				, 10 /	80	ррп	1,		
YEAR	Sample Size	%OM	ENR	Pı .	P ₂	K	PM Mg	Ca	рН	Nos	% E K	Mg	CA
1993	2	3.5	83	9	19	145	225	1588	6.9	15	4	18	78
1995	10	4.2	91	58	109	384	310	1731	7.3	41	8	21	71
1996	16	5,0	- "	147	181	612	410	2029	7.6	- 81	10	22	67
1999	2	5.7	-	182	198	574	422	2016	7.7	82	10	23	67
OPTIMUM		>3	-	>29	>59	>200	-	, 	6.5 to 7.5	>40	2-5	10-20	60-70
2003	2	5.4		204	22	22 613	3 397	1998	7.6	44	N le	evels	drop
2006	2	5.2		260	21	51 323	3 254	2024	7.6	33	with	out r	nanur

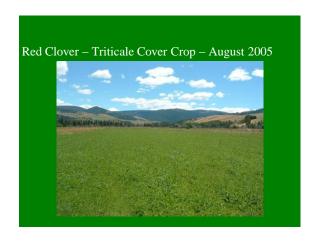














Soil covered in winter to avoid frost heave & provide habitat for soil microbes and predators. Soil covered all year round? How much can we reduce tillage?





Tilling, bed making and planting plastic-mulched minimum-till beds to warm soils.



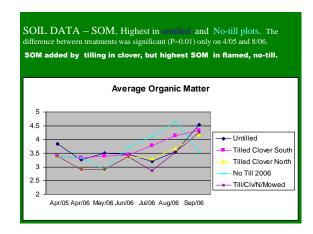


No-till Experiment - flaming

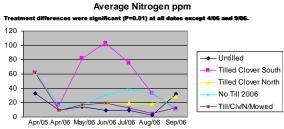


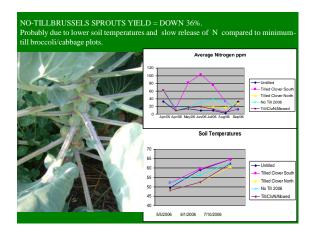




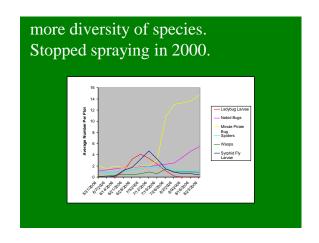


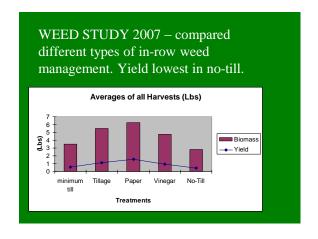




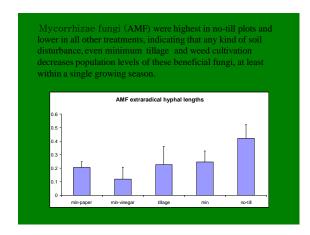






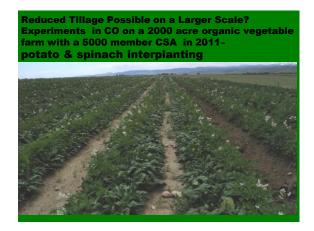




















Future Directions.....

veganicpermaculture.com

Find the slides and recording of this presentation at http://www.extension.org/pages/61629

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