

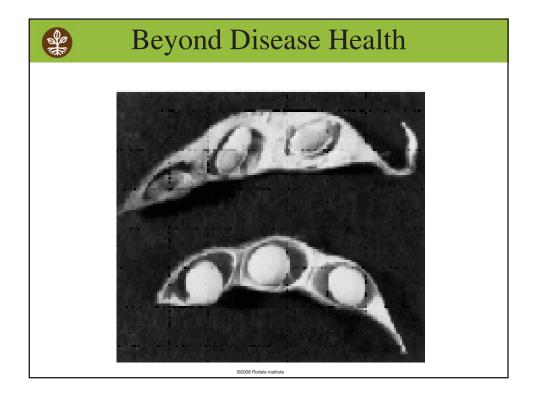


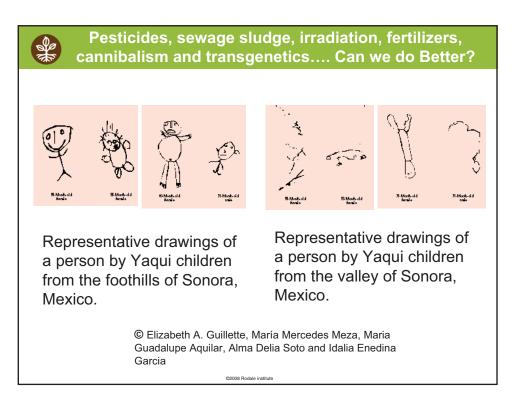


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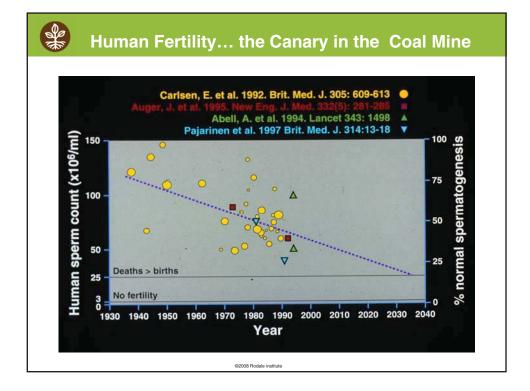


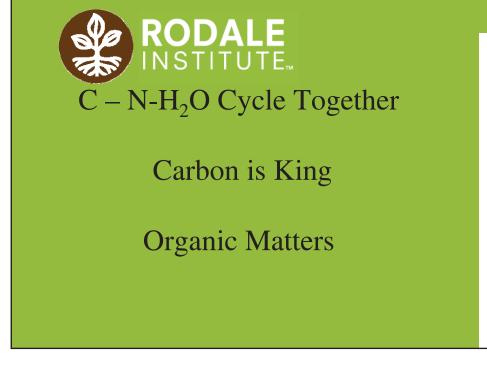










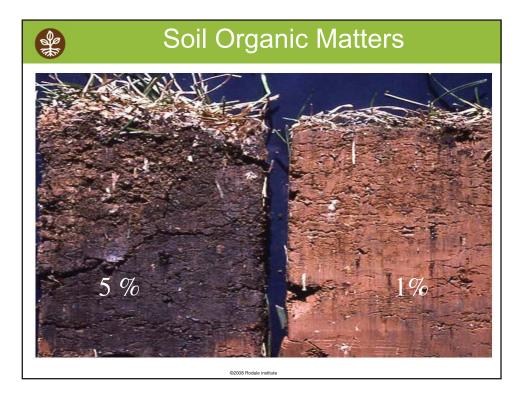
















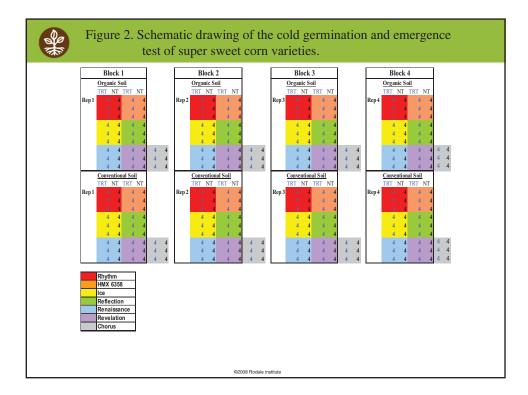
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Year 1	Year 2	Year 3	Year 4	Year 5	
MANURE Based Syste	rm (1981-2002)				_
CORN	SOYBEAN	SILAGE	RED CLOVE	R / ALFALFA HAY	
		RYE	WHEAT		•
					-
LEGUME Based Syste	em (1981 - 1985)				-
CORN	SOYBEAN	OATS	CORN	OATS	
CLOVER		RED CLOVE	R	RED CLOVER	1
LEGUME Based Syste	em (1986 - 1990)				_
CORN	SOYBEAN	OATS	(Repeat	Year 1)	
CLOVER	BARLEY	RED CLOVER			
LEGUME Based Syste	em (1991-2002)				_
CORN	SOYBEAN	HAIRY	VETCH (Repeat	Year 1)	
VETCH	RYE	WHEAT			
					-
CONVENTIONAL Mine	ral Fertilizer Based Sys	tem (1981-2002)			-
CORN	SOYBEAN	CORN	CORN	SOYBEAN	

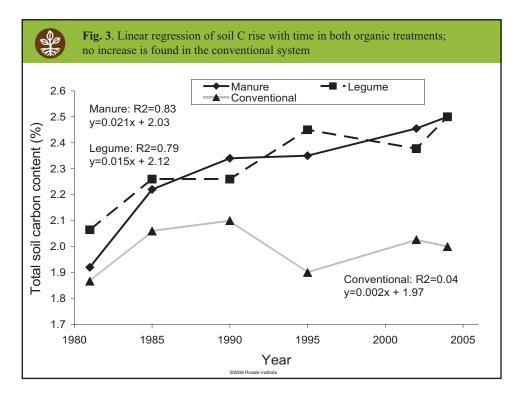
		nstitute Farming Sys	
Cultural practices	Manure	Legume	Conventional
Crops	maize, soybeans, small grains, hay cover crop: rye	maize, soybeans, small grains cover crops: rye & vetch	maize, soybeans
Nitrogen Input	40 kg ha ⁻¹ yr ⁻¹ manure + legume hay (198 kg N ha ⁻¹ on maize)	49 kg ha ⁻¹ yr ⁻¹ legume cover crop (140 kg N ha ⁻¹ on maize)	88 kg ha ⁻¹ yr ⁻¹ mineral fertilizer (146 kg N ha ⁻¹ on maize)
Ground Cover	living: 73% dead: 20% bare: 7%	living: 70% dead: 22% bare: 8%	living: 42% dead: 50% bare: 8%
Primary Tillage	moldboard plow 0.8/yr (4 times/5 yr rotation)	moldboard plow 1.3/yr (4 times/3 yr rotation)	moldboard/chisel plow 1.0/yr (5 times/5 yr rotation)
Weed Control	rotary hoeing cultivation, rotation	rotary hoeing cultivation, rotation	herbicides
Insect Control	rotation	rotation	insecticides for maize only in 1986-89, 1993



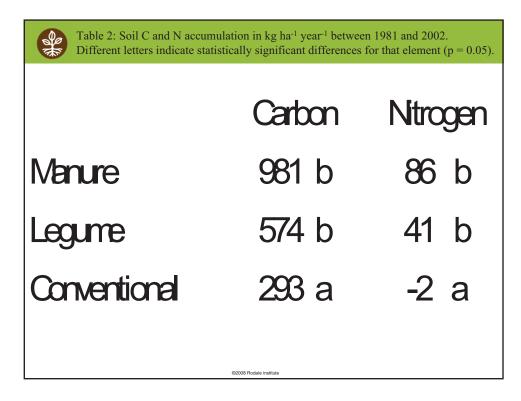




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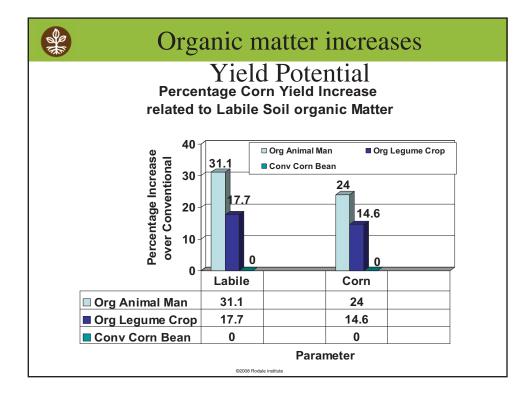
Systems	Chemically Labile Soil Organic Matter Yield of Maize (kg/l		
Organic Animal System with Manure	590 A	11,900 A	
Organic Cash Grain Cover Crops no Manure	530 AB	11,000 AB	
Conventional Corn and Soybean Rotation Fertilizers and Pesticides base on PSU	d 450 B	9,600 B	

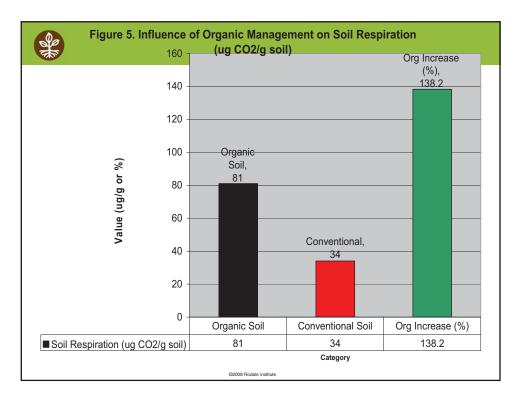
under a favorable production environment



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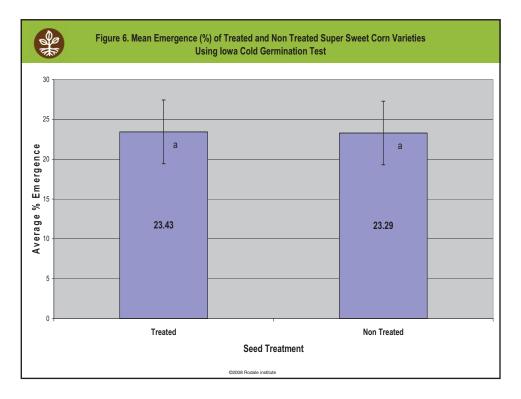


SY C		organic and conve sweet corn varieti	
Variety Name	Organic	Conventional	Statistical Sign.
Chorus	5	2	*
Renaissance	22	14	*
Reflection	25	29	Not Stat. Sign.
HMX6358	35	15	*
Ice	39	18	*
Rhythm	46	4	*
Revelation	53	21	*

ALC: N	Table 5. Warm ge Variety Name	rmination on cellulos Maxim Fungicide		temperature 25C. Statistical Sign.	
	Chorus	100	100	Not Stat. Sign.	
	Renaissance	40	70	*	
	Reflection	80	100	Not Stat. Sign.	
	HMX6358	90	100	Not. Stat. Sign.	
	Ice	90	100	Not Stat. Sign.	
	Rhythm	40	100	*	
	Revelation	70	100	*	
	Overall Mean	72.9	95.6	*	
	L	©2008 Rodale	institute		

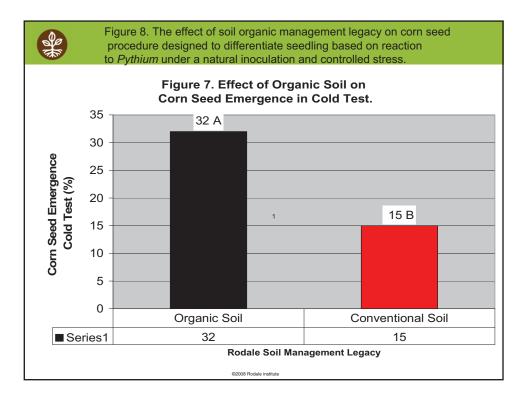


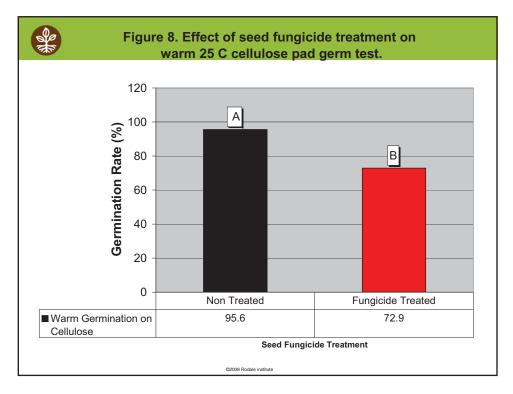
Table 6. Super sweet of significance and their	corn cold germination results factors of interactions.
Factor	Statistical Significance Level
Organic or Conventional Soil	***
Difference Among 7 Cultivars	**
Fungicide Treated or Not	NS
Soil by Cultivar	*
Soil by Fungicide	NS
Soil by Cultivar by Fungicide	NS





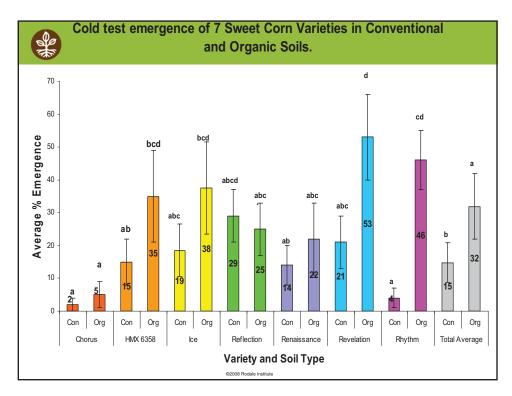
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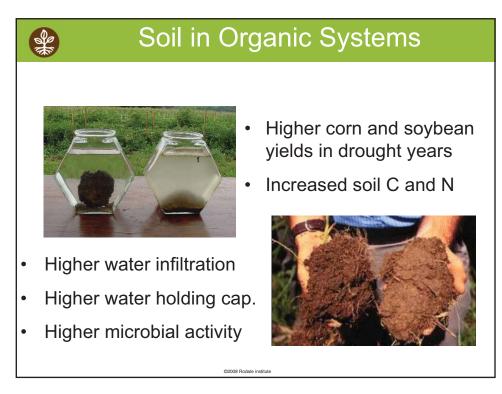




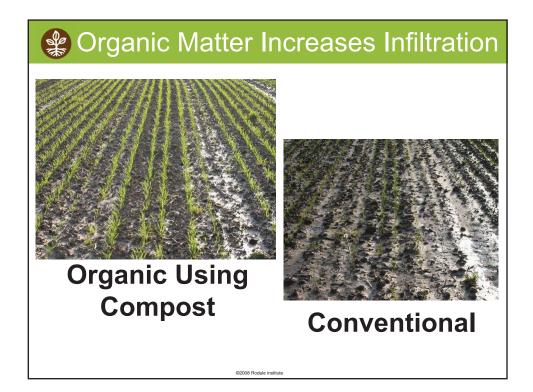


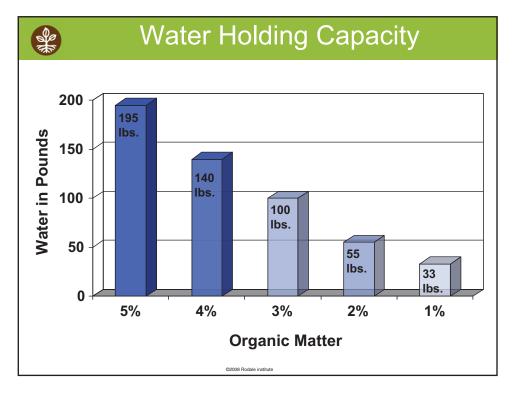
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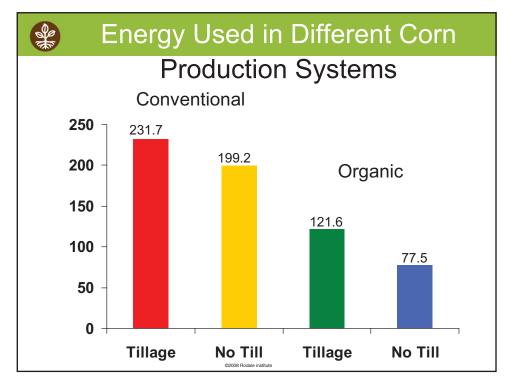




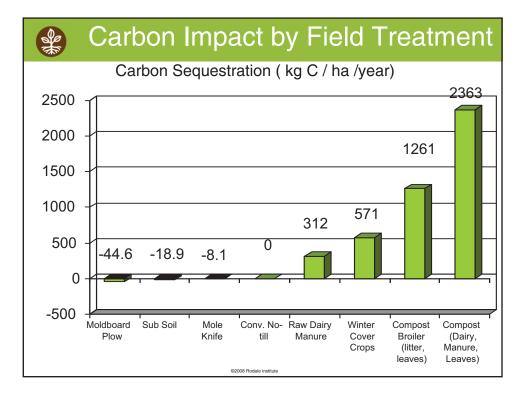








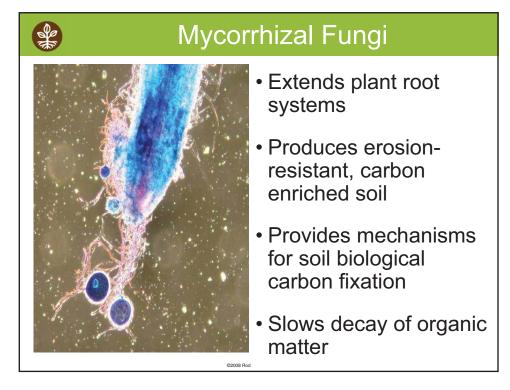






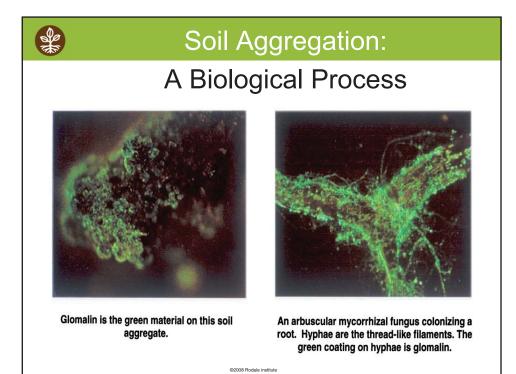




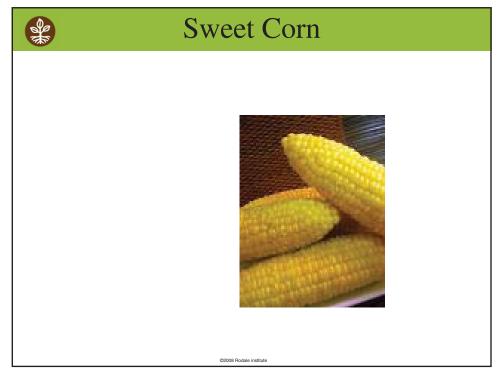




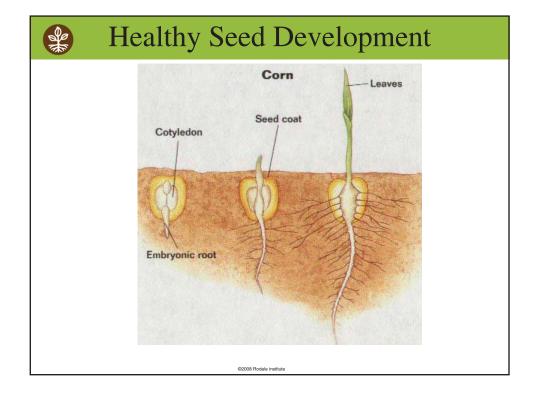
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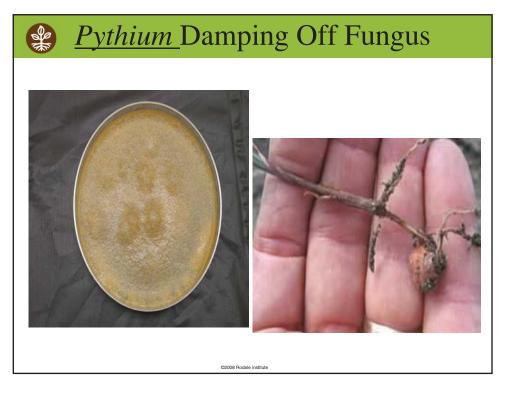


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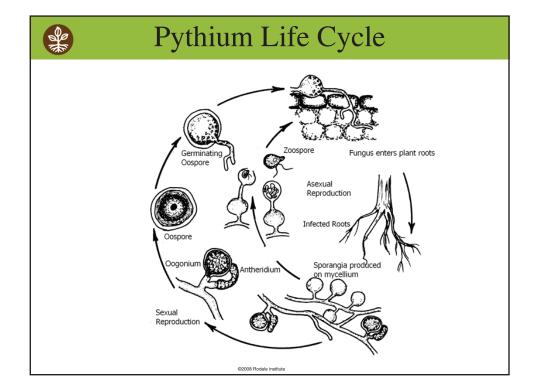


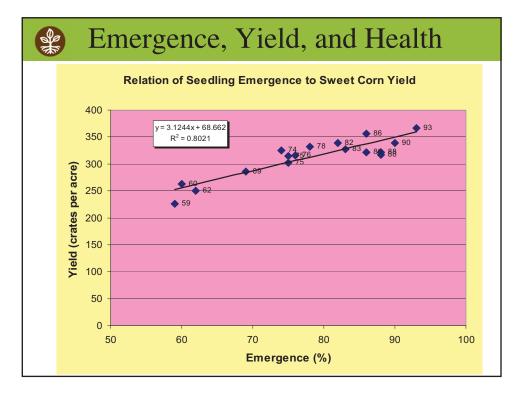




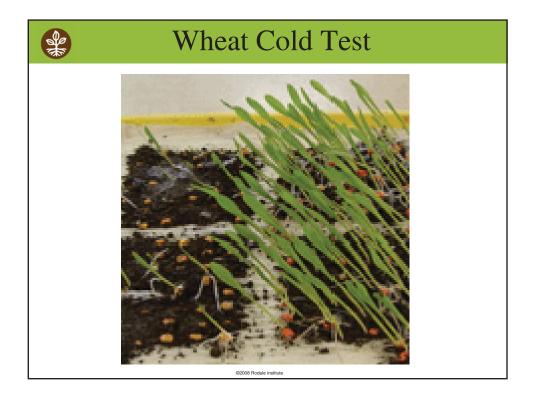


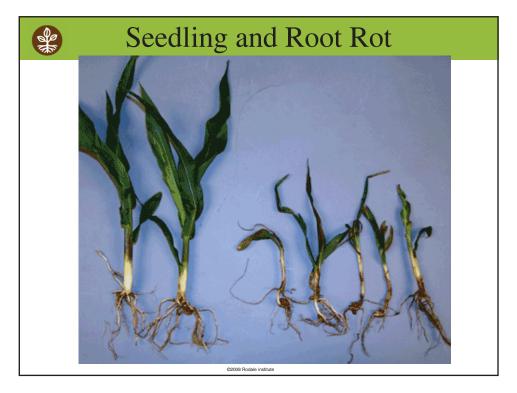




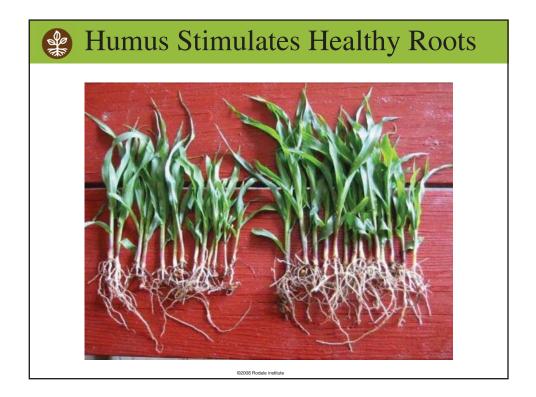












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