

Slide 2

Schmidt Farms Inc.

3rd Generation in USA

2100 Acres in Maryland
•Corn (biotech & conventional production; formerly certified organic)

•Soybeans (food, feed & seed)
•Wheat (feed & seed)

*Barley (seed)

*150 acres Roma tomatoes

•160 acres fresh market green beans

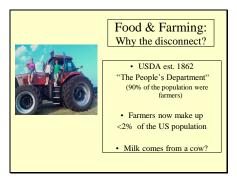
•80 acres processing lima beans
•250 acres of hay
•22 acres winegrapes
•Custom Hire Vineyard Mgt Co.



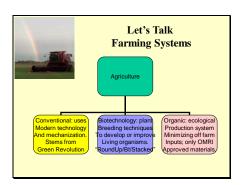
Our Farm Goal

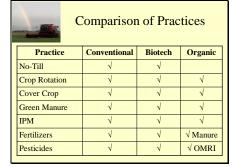
to maximize value per acre producing safe, high quality foods, while preserving and improving our soils and sustaining the family farm for the next generation





Slide 5





Time & Fuel Consumption Conventional/Biotech No-till plant w/ injectable fertilizer Spray for weeds Monitor fertility/pests Scout fields Harvest Fuel Consumption Disc Spread manure Plant Rotary hoe Rotary hoe Rotary hoe Rotary hoe Cultivate Cultivate Cultivate Monitor fertility/pests Scout fields Harvest

Slide 8

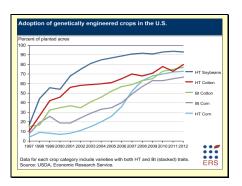


The Role of Biotech

- Insect Protection
- Herbicide Resistance
- Virus Resistance
- Nutritional Enhancement



Nutritional Enhancement



•			
•		 	
•		 	
•	 	 	

Slide 10



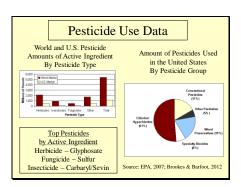




	-		



Slide 14



Slide 15

What is a pesticide?

Surprising Examples of Pesticides
Baking Soda Warfarin Fluoride
Hand Sanitizer Canola Oil

"A pesticide is a chemical used to prevent, destroy, or repel pests." EPA

"The dose makes the poison" Paracelsus



Synthetic vs Organic Pesticides

Organic Pesticide – active ingredient derived from natural materials. Synthetic Pesticide – manufactured active ingredient

- The OMRI Products List® is the most complete directory of products for organic production or processing. Includes over 2,500 products.
 "Natural compounds are not inherently less toxic to humans than
- synthetic ones. Some of the most deadly, fast-acting loxins and some potent carcinogens occur naturally. "Natural" does not necessarily mean safe or nontoxic, and it certainly does not mean nonchemical." Hunthook of PPM. Writiciest and Hom. 1994.

Slide 17



Oral LD50s

Synthetic

- Sevin 850 mg/kg
 DDT (banned) 87 mg/kg
- Glyphosate 5600 mg/kg
- Pounce 2200 mg/kg (synthetic pyrethroid)

- Organic
 Rotenone 60 mg/kg Nicotine 55 mg/kg
- BurnOut 3000 mg/kg
- Pyrethrum 1350 mg/kg

FYI: LD 50 of Table Salt = 3000 mg/kg (Smaller values indicate a more toxic product!)

Slide 18

Conservation vs Conventional



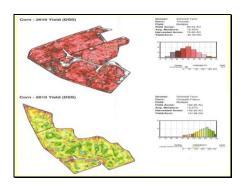


"No-Till" (L) does not work up the ground before planting.

Slide 19

Schmidt Farms, Inc.							
Soybeans - Year	1998	2000	2005	2010 (slight drought)	2011 (drought)	2012 (drought)	
Biotech Acreage	195	322	416	270	522	527	
Yield bu/a	54.2	50.3	53.5	46	37	43	
Conventional Acreage	156	184	213	306	750	675	
Yield bu/a	48.2	43.2	46.3	36	34	36	
Yield Difference	6 bu	7.1 bu	7.2 bu	10 bu	3 bu	7 bu	
Price/Bushel	\$6.90	\$6.62	\$7.25	\$11.30	\$12.52	\$14.55	
Income Difference/Acre	\$41.40	\$47.00	\$52.20	\$113.00	\$37.56	\$101.85	

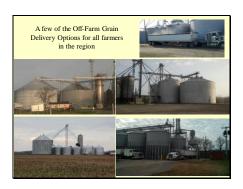
		Sc	hmidt	Farms I	nc.
Corn – Year (dryland)	2000	2004	2010 (slight drought)	2011 (drought & Hurricane)	2012 (drought)
Biotech Acreage	10	276	573	397	464
Yield bu/a	171	182	110	44	111
Conventional Acres	647	415	195	213	261
Yield bu/a	165	167	91	18	57
Bt Yield Advantage	6.4	15	19	26	54
Price/Bu	\$2.35	\$2.55	\$5.18	\$6.47	\$7.40
Net/Acre	\$15.04	\$38.25	\$98.42	\$168.22	\$399.60
Certified Organic			40 bu/ac	Mowed	decert





Slide 23







Thank You! Jennie Schmidt, MS, RD @FarmGirlJen Facebook: The Foodie Farmer

schmidtvineyardmgt@gmail.com http://thefoodiefarmer.blogspot.com
