Doudlah Farms LLC Evansville WI

The WHY's & HOW-S behind TRANSITIONING to ORGANIC?

92 bu/ac Organic Wheat 2012

College of Agricultural & Life Sciences
UNIVERSITY OF WISCONSIN-MADISON
Growing the future

Mark.r.Doudlah@gmail.com or 608.490.0925

Plant Cereal Rye in place of your herbicide for Food Grade Soybeans

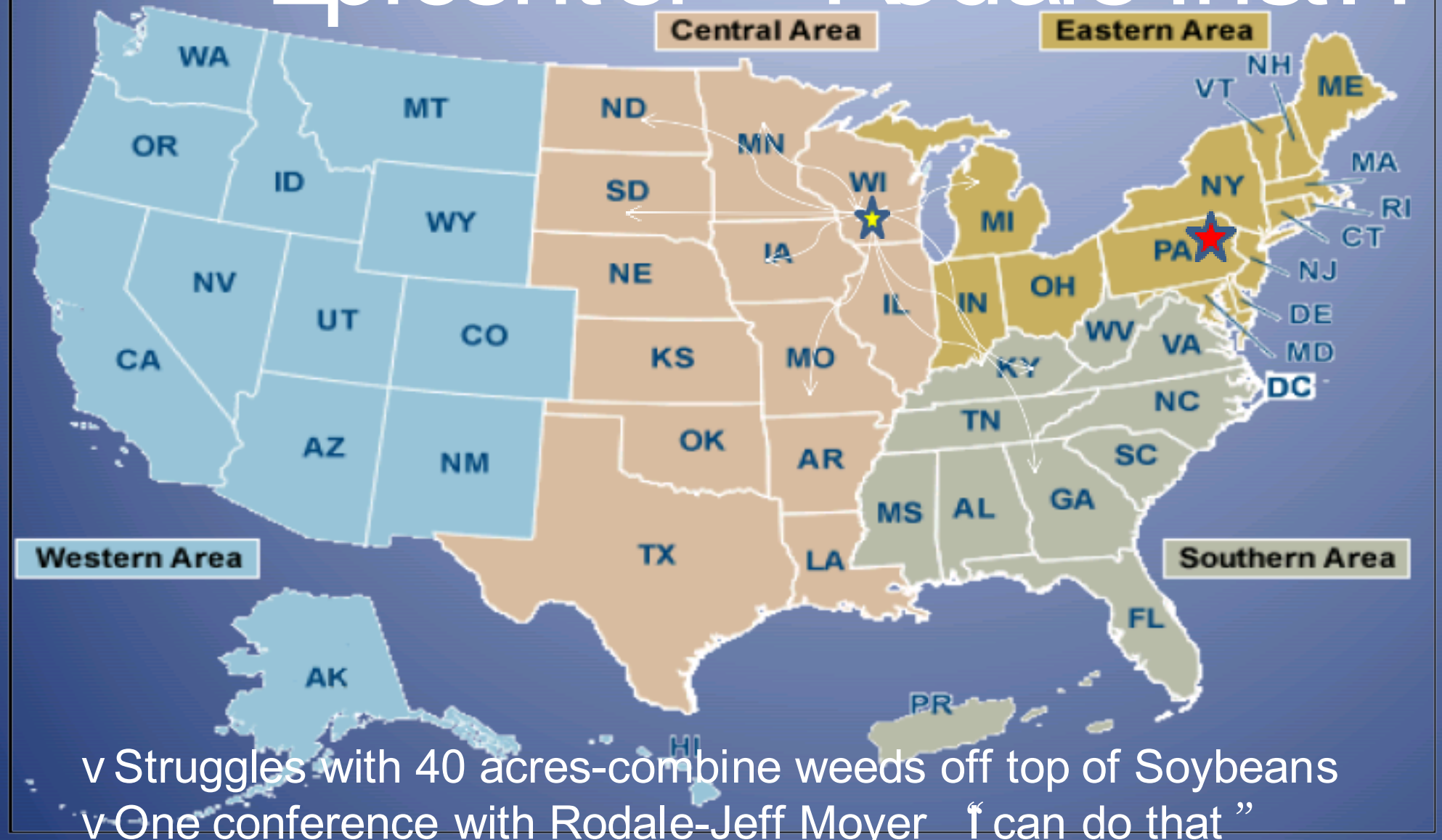
1. 110 # Cereal Rye
2. Residuce + PL from AgriEnergy
3. Dry Nutrients if needed
4. 500+Hp to keep it rolling

Jeff Moyer of Rodale speaking at 2014 MOSES Conference

Doudlah Farms Field Day, Standing room only!
Kentucy, North & South Dakota, Minnesota, Michigan, Iowa, Illinois, Wisconsin, Georgia

Erin Silva-Crimped Cereal Rye

Epicenter – Rodale Inst. PA



- Struggles with 40 acres-combine weeds off top of Soybeans
- One conference with Rodale-Jeff Moyer "I can do that"
- 600+ Acres later – SUCCESS
- One Year later held our own FIELD DAY
- 200 farmers gathered to see how to Crimp Cereal Rye-Erin Silva
- UW-Madison ground truthing is instrumental to my success- Organic is not passed down from Generation to Generation.
- 2017 – 1,400+ acres will be ORGANIC Thank You Rodale Institute !

Weed Control - Get it right in the fall!

Cereal Rye Seeding

1. Its all about the Planting Date
   - Prefer to follow the corn combine with drill!
2. Seeding Rate is secondary 110#s+
3. Drill seeding more consistent than air plane
   - Late wet corn harvest
     - Air plane only viable option?
     - Increase seeding rate 150#s+
     - Plant perimeter twice

Add 7.5 ton of biological active carbon while you plant!

Crimped Rye

Field M & D- upper field

Rolled down June 4th. Projected 3-5 ton dry matter

Not all crimpers are created equal

25-35% of Cereal Rye Stand goose necked up
Recrimped 3-5 days later
1-3% heads left standing

- Crimprite roller by Ritewate requires recrimping even at 550#/ft

- Chevron less likely to need recrimp at 230#/ft

Don t' Panic

Narrow rows will close canopy

All rainfall will be infiltrated

Cereal Rye will maintain weed control thru fall

No-till beans- Keehn Field
Doudlah Farms, July 23

No-till beans –Keehn Field

NOTE: weed control July 23

Notill beans –Keehn Field

Doudlah Farms, Sept 16

Foliar application in soy (Fish+SP-1+Ksulfate+Micros)

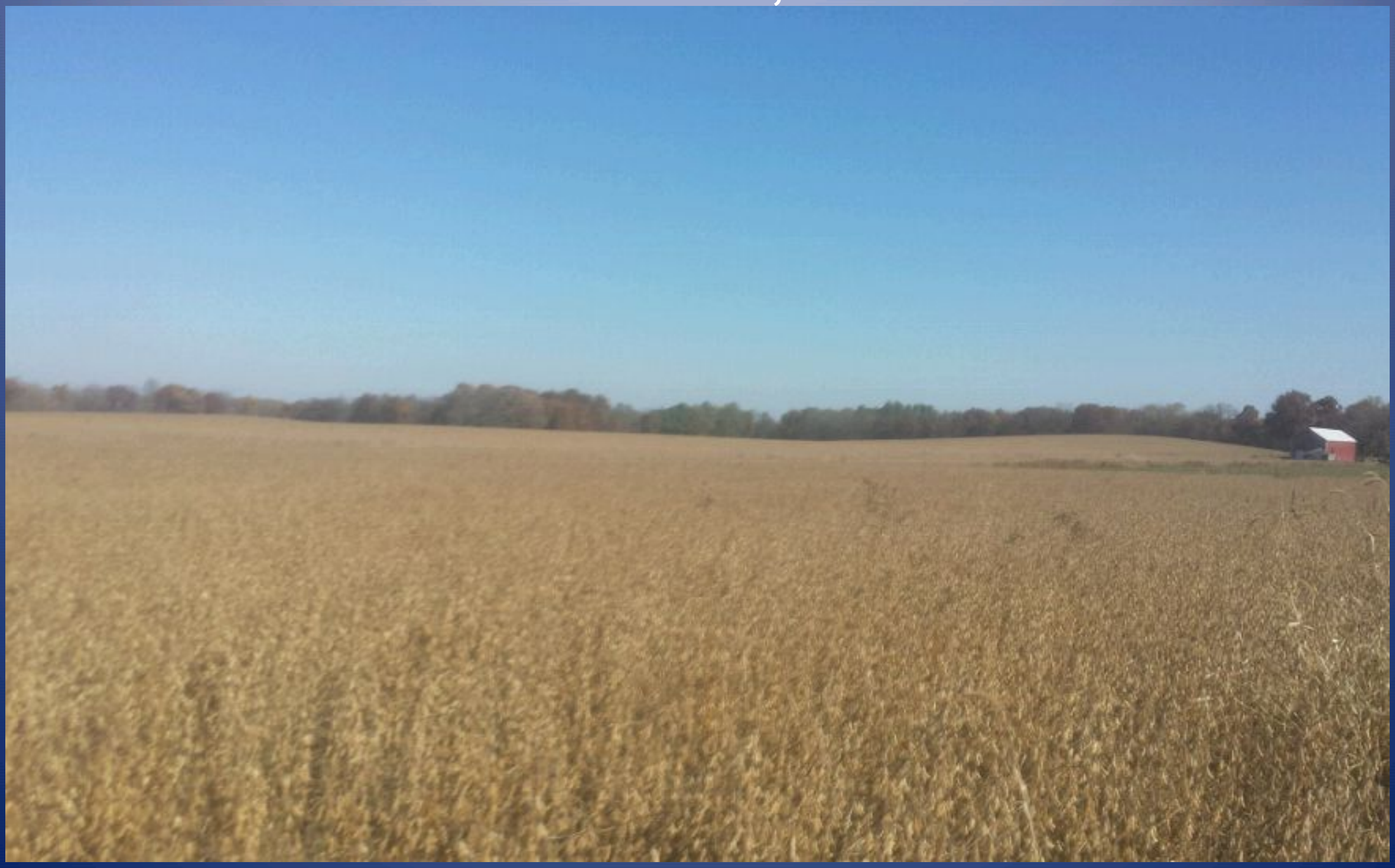
Notill-Crimp Dry Edible black beans –Sept 20

Jason the Weeding Crew Leader

“It’s like Combining on Carpet”
Robin Brekken

Notill beans –Keehn Field

Doudlah Farms, 47 bu/ac



The Why - $$$

Jerry Maguire

“SHOW ME the MONEY! ”

Transitional or Organic Food Grade Soybeans in just 4 passes!

Food Grade Clear Hylem Soybeans		
Production Costs	Transitional	Organic
Cereal Rye 110#s	$ 28	$ 40
Residuce	$ 8	$ 8
Salford RTS 522	$ 20	$ 22
FG Soybean Seed 1.6 units	$ 55	$ 80
Anderson EA(humic)	$ 9	$ 9
Salford seeder	$ 20	$ 22
Roller	$ 10	$ 10
Foliar Feed	$ 26	$ 26
Sprayer	$ 8	$ 8
Combine	$ 30	$ 32
Haul	$ 7	$ 8
Certification		$ 13
Total Cost	$ 221	$ 278
Revenue 45bu/ac	$ 585	$ 1,328
Return to Land & Mgmt FG Soy	**$ 365**	**$ 1,050**

Ave NotIll-Crimped Rye bpa	45.2
Ave Chemical program beans bpa	49.5
Crimped Rye- Chem Beans bu	-4.3
Price bpa	$ 13
Crimped rye yield loss	$ (55.90)
Gangster+Roundup+cobra	$ 82.83
Crimped Rye Profit over chemical FGbeans	**$ 26.93**
3 year ave yield RR soybeans bpa	55
Price	$ 10
Gross	$ 550
Food Grade Bean bpa	45.2
Food Grade Premium	$ 12.75
Gross	$ 576.30
Crimped Rye FGsoy Advantage vs. GMO	**$ 26.30**

Crimping with Confidence starts with UW-Madison

- UW-Madison Dr. Erin Sylva WI
- David Brandt OH-fellow crimper
- Reginald Destree WI-Organic Consultant
- Robin Brekken ND-fellow crimper
- Jason Doudlah WI-son
  - Next generation to Crimp rye

Wheat

Growing Nitrogen after Wheat

The Why - $$$

Jerry Maguire

“SHOW ME the MONEY! ”

Organic Wheat

Organic Wheat		
Production Costs	**Organic-2012**	**Organic-CRP**
Residuce+cocktail	$ 35	$ 35
Plow	$ 15	$ 15
Pick Rock	$ 6	$ 6
Salford 2x	$ 30	$ 30
Organic Wheat Seed	$ 60	$ 60
Foliar Spray	$ 20	$ 20
Sprayer	$ 8	$ 8
Combine	$ 40	$ 42
Haul	$ 18	$ 2
Certification	$ 12	$ 9
Total Cost	$ 245	$ 227
Yield bpa	92	43
$/bu	$ 13.50	$ 18.50
Revenue	$ 1,242	$ 924
Return to Land & Mgmt	**$ 997**	**$ 697**

Planting Medium Red Clover for Corn

Organic Corn starts with aerial seeding Red Clover into growing Winter Wheat

Growing Nitrogen after Wheat

Organic Corn –Red Clover plow down

- Note sprayer pass with Residuce

2013 pre-emerge surface application

- High Calcitic Lime (500#/ac)
- Gypsum (500#/ac)
- Compost (1,000#/ac)
- Chicken pellets (1,600#/ac)
  - Worked into soil

Supercharge your corn seed

- Myco seed treatment on seed
- Chilean nitrate 2”x2”placement
- Fish, SP-1, Molasses, Bio Repel,Ecotec, Mycotrol O in the Seed Trench

Corn 40 days after planting

Doudlah Farms, Evansville, WI

Prairie Hybrids 3081 Food Grade

2nd crop out of CRP
Following wheat/clover in 2013
< 50# added N in 2014
= 201 bu/a Organic Corn in 15 ”Rows

Competitive weeds only in 30”tramlines

2011 Implemented Tracked Tramlines

- Improve soil health
- Increase infiltration and percolation

Harvest Organic Corn

Spraying Residuce while Crimping Stalks

The Why - $$$

Jerry Maguire

“SHOW ME the MONEY! ”

2014 Organic Corn

Production Costs	Transitional	Organic
Med Red Clover 12#s	$ 17	$ 27
Airplane	$ 14	$ 14
Residuce+cocktail	$ 35	$ 35
Plow	$ 15	$ 15
Pick Rock	$ 6	$ 6
Salford 2x	$ 30	$ 30
Corn seed 40K	$ 90	$ 125
In furrow	$ 58	$ 58
2"x2"	$ 94	$ 94
Kinze Planter	$ 18	$ 20
Tine weed 2x	$ 9	$ 9
Cultivate w sidedress	$ 99	$ 99
Cultivate	$ 12	$ 12
Foliar Spray	$ 20	$ 20
Sprayer	$ 8	$ 8
Combine	$ 30	$ 32
Haul	$ 10	$ 31
Certification	n/a	$ 29
Total Cost	$ 565	$ 664
Revenue 201bu/ac	$ 754	$ 2,915
Corn Return to Land & Mgmt	**$ 189**	**$ 2,251**

Canning Peas ahead of Dry Edibles

Dry Edible Black Beans (Zorro) after Peas

Hatzenbichler Tine Weeder 40 ’

In Row Weeding –WOW!

Cultivating 15 ”Rows w/Tramlines & RTK

15 ”Row Dry Edible Beans

Organic Black Beans

Harvesting Black Beans

The Why - $$$

Jerry Maguire

“SHOW ME the MONEY! ”

Early Peas double cropped with Dry Edibles

Peas		
Production Costs	Transitional	Organic
Sprayer	$ 8	$ 8
Residuce+cocktail	$ 35	$ 35
Plow	$ 15	$ 15
Pick Rock	$ 6	$ 6
Salford 2x	$ 30	$ 30
Drill Peas-Seneca	$ 22	$ 22
Tine weed 2x		
Foliar Feed	$ 35	$ 35
Pea Combines	Seneca Foods	Seneca foods
Certification	n/a	$ 6
Total Cost	$ 151	$ 156
Revenue 2,000 #/ac	$ 360	$ 560
Return to Land & Mgmt	**$ 209**	**$ 404**

Black Beans		
Production Costs	Transitional	Organic
Oats 2 bu	$ 16	$ 21
Salford 1x	$ 14	$ 14
Residuce+cocktail	$ 35	$ 35
Plow	$ 15	$ 15
Pick Rock	$ 6	$ 6
Salford 2x	$ 30	$ 30
Spreader	$ 10	$ 10
Hi Calcitic Lime	$ 13	$ 13
Gypsum		
Compost	$ 20	$ 20
Tine weed 3x	$ 27	$ 27
Foliar Spray	$ 51	$ 51
Cultivate	$ 12	$ 12
Foliar Spray	$ 20	$ 20
Sprayer	$ 8	$ 8
Combine	$ 40	$ 42
Haul	$ 80	$ 53
Certification	n/a	$ 9
Total Cost	$ 396	$ 385
Revenue T$.55@1.6k O$.88@1.05k	$ 882	$ 924
Return to Land & Mgmt	**$ 486**	**$ 540**
Peas Return To Land & Mgmt	**$ 209**	**$ 404**
Double Crop Pea & Black BeanTotal	**$ 695**	**$ 943**

Two Rotations —mechanical action-CROP (cover crop)

Tillable Lands

- Year 1 crimp-SOY(vetch)
- Year 2 crimp-CORN(cereal rye + red clover)
- Year 3 plow-Canning PEAS(optional 0r Forage peas)/ DRY EDIBLES(wheat)
- Year 4 WHEAT(vetch/tillage radish/mustard/buckwheat)
- Year 5 diskrip-DRY EDIBLES(red clover)
- Year 6 plow-CORN(cereal rye)

HEL Lands

- Year 1 crimp-SOY(cereal rye + vetch)
- Year 2 RYE+VETCH(verticle-tillage volunteer vetch)
- Year 3 crimp-CORN(cereal rye)

Transition Plan to Organic

Rotationon Acceptable Tillage Fields (denotes cover crops) — crimpSOY(vetch)-crimpCORN(c. rye+clover)-plowCanningPEAS(optional 0r Forage peas)/DRYEDIBLES(wheat)-WHEAT(vetch/tillage radish/mustard/buckwheat)-cplowDRYEDIBLES(med. red clover)-plowCORN(c. rye)

Rotationon HEL crimp only fields (denotes cover crop) — crimpSOY(c. rye+vetch)-RYE+VETCH(vett illage volunteervetch)-crimpCORN(c.rye)

Difficult hydrological conditions for Organic

T1 | T2 | Organic | MB4010

2014				last pesticide	Crop	SQFT		2015 crop							2016 crop						2017 crop					
Farm Group	Group Acres	Farm	acres	36 month date	2014	Inspection 11.6.14	Comment	Corn	P/DE	FG Soy	Wheat	Trit/vetch	Rye/Vetch	Forage Peas	Corn	P/DE	FG Soy	Wheat	Trit/vetch	Rye/Vetch	Corn	P/DE	FG Soy	Wheat	Trit/vetch	Rye/Vetch
1 Corn(crye)-soy	192	Batty	78	summer 2014	C	? Rye				78					78								78		-	
		Kens	78	summer 2014	C	15 rye				78					78								78			
		Casey 3	36	Organic	orgC	4-6 PBVetch				36					36								36			
2 CORN(crye)-peas	225	Brooklyn	122	summer 2014	C	6 oats 2-5 Vetch		122	x	x								122				122				
		Riley M	72	summer 2014	C	5 rye 1 vetch	better on hill		x	72								72				72				
		Monson S	31	summer 2014	S	6-8 oats			31					x				31				31				
3 SOY(vetch)	155	Birk 160	155	summer 2014	S	.5rad .5rye 1.5 vetch .5 clover	lowseedingrate=poor stand		155									155			155					
4 Peas/DE(wheat)	140	Cooksville North	50	summer 2013	DE	8oat 8vetch 8clover		50								50					50					
		Cooksville middle	20	summer 2014	c				20									20			20					
		Keelhns Upper and East	30	summer 2012	DE	8oat 8vetch 8clover		30								30					30					
		Porter West	40	Organic	P,DE	8oat 8vetch 8clover	excellent	40								40					40					
		Casey 2	36	Organic	P,DE	4-6 PBVetch		36								36								36		
5 Soy(vetch)-corn	133	Keelhns	85	summer 2013	S	1 C Rye	thick residue	85									85							85		
		Porter East Tobacco	5	summer 2013	S	none								5		5								5		
		Porter East Center	6	summer 2013	S	none								6		6								6		
		Porter East Jeff garden	1	summer 2013	S	none								1		1								1		
6 Soy-DE	173	Tuttle	173	summer 2013	S	5 oat 2 vetch 1 clover			173									173				173				
7	296	Porter DJ Wilder	33	summer 2012	DE			33									28			5	33					
		Porter East South	43	summer 2013	S							43					43				43					
		M+D Lower	18	summer 2014	C								18							18	18					
		M+D Upper	21	summer 2013	S							21							21		21					
		Magnolia	72	summer 2014	S	9-16 oats 4-6 vetch	excellent no rye matt						72							72	72					
		Cooksville South	110	summer 2014	C								110							110	110					
8	115	Birk 40	37	summer 2014	S					37							37						37			
		Birk 80	78	summer 2014	S					78							78						78			
	1,429	Totals	1,429					396	379	379	-	64	200	12	192	168	271	573	21	205	591	398	307	133	-	-
spelt							Organic	139	-	36	-		-		36	168	71	-	21	5	591	398	307	133	-	-

		Total Acres	1,429
	organic	116	
		Organic Acres	175
1,210	de		
540	wheat		

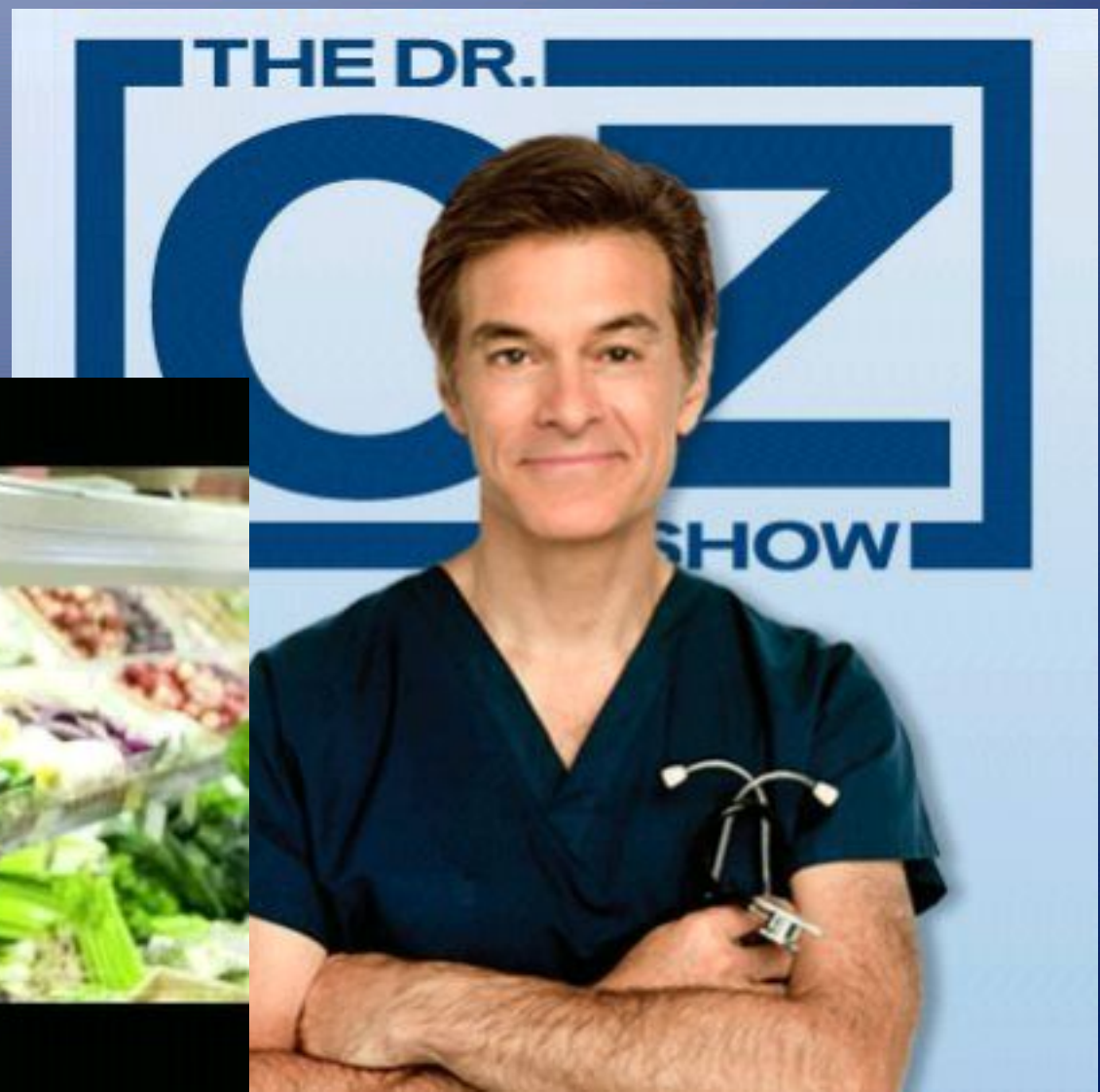
	2015 crop							2016 crop							2017 crop					
	Corn	P/DE	FG Soy	Wheat	Trit/vetch	Rye/Vetch	Forage Peas	Corn	P/DE	FG Soy	Wheat	Trit/vetch	Rye/Vetch		Corn	P/DE	FG Soy	Wheat	Trit/vetch	Rye/Vetch
	1,429							1,429							1,429					
	175							301							1,429					
Acres	257	379	343	-	64	200	12	156	-	200	573	21	205			398	-		-	
Yield	180	1800	45	50	50	40	20	180	2200	45	60	50	40		180	2	45	50	50	40
Price	$ 3.50	$ 0.55	$ 13.00	$ 6.00	$ 7.00	$ 14.00	$ 30.00	$ 3.50	$ 0.55	$ 13.00	$ 6.00	$ 7.00	$ 14.00		$ 3.50	$ 300.00	$ 13.00	$ 6.00	$ 7.00	$ 14.00
Gross	$ 161,910	$ 375,210	$ 200,655	$ -	$ 22,225	$ 111,720	$ 7,200	$ 98,280	$ -	$ 117,000	$ 206,280	$ 7,175	$ 114,520		$ -	$ 238,800	$ -	$ -	$ -	$ -
Acres	139	379	36	-	64	200	-	36	168	71		21	5		591	398	307	133	-	-
Yield	170	2	45	60	400	400		170	1,800	45	400	400	400		170	1,800	45	60	400	400
Price	$ 13.00	$ 300.00	$ 28.00	$ 15.00	$ 1.50	$ 1.50		$ 13.00	$ 0.90	$ 28.00	$ 15.00	$ 1.50	$ 1.50		$ 13.00	$ 0.92	$ 28.00	$ 15.00	$ 1.50	$ 1.50
Gross	$ 307,190	$ 170,550	$ 45,360	$ -	$ 38,100	$ 119,700	$ -	$ 79,560	$ 272,160	$ 89,460	$ -	$ 12,300	$ 3,000		$ 1,306,110	$ 659,088	$ 386,820	$ 119,700	$ -	$ -
Total Gross	$ 1,559,830							$ 3,305,845							$ 2,719,518					

Soil Health = Human Health?

- In the race to feed the world we have forgotten about Soil Health and it's DIRECT LINK to YOUR HEALTH.

Media Educating our consumers:

- DR OZ
- DR Mercola
- DR Hymen
- DR Huber



THE COSTCO CONNECTION
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A lifestyle magazine for Costco members

GROWING Organic

A seedling market rises to mainstream 36

SPECIAL SECTION
FROM START TO FITNESS
PAGE 41

The Why - $$$

Jerry Maguire

“SHOW ME the MONEY! ”

How to get the $$$$

Production Costs	Transitional	Organic
Double Crop Pea & Black Bean Total	$ 695	$ 943
Return to Land & Mgmt FG Soy	$ 365	$ 1,050
Corn Return to Land & Mgmt	$ 189	$ 2,251
Wheat Return to Land & Mgmt		$ 847.33

When will you have an “Áh-ha Moment ”?

The Challenge!

My challenge to you today going forward will be to improve your:

- Ø Family's Health
- Ø Regenerate your Soil's biology & Nutritient Balance
- Ø Profitability $$$$ And in turn your Nation's Prosperity.

Please listen with an open mind and note through-out this presentation what existing practices you can change now to be more profitable.

Vibrant Picture of My Dad

Earl Doudlah…

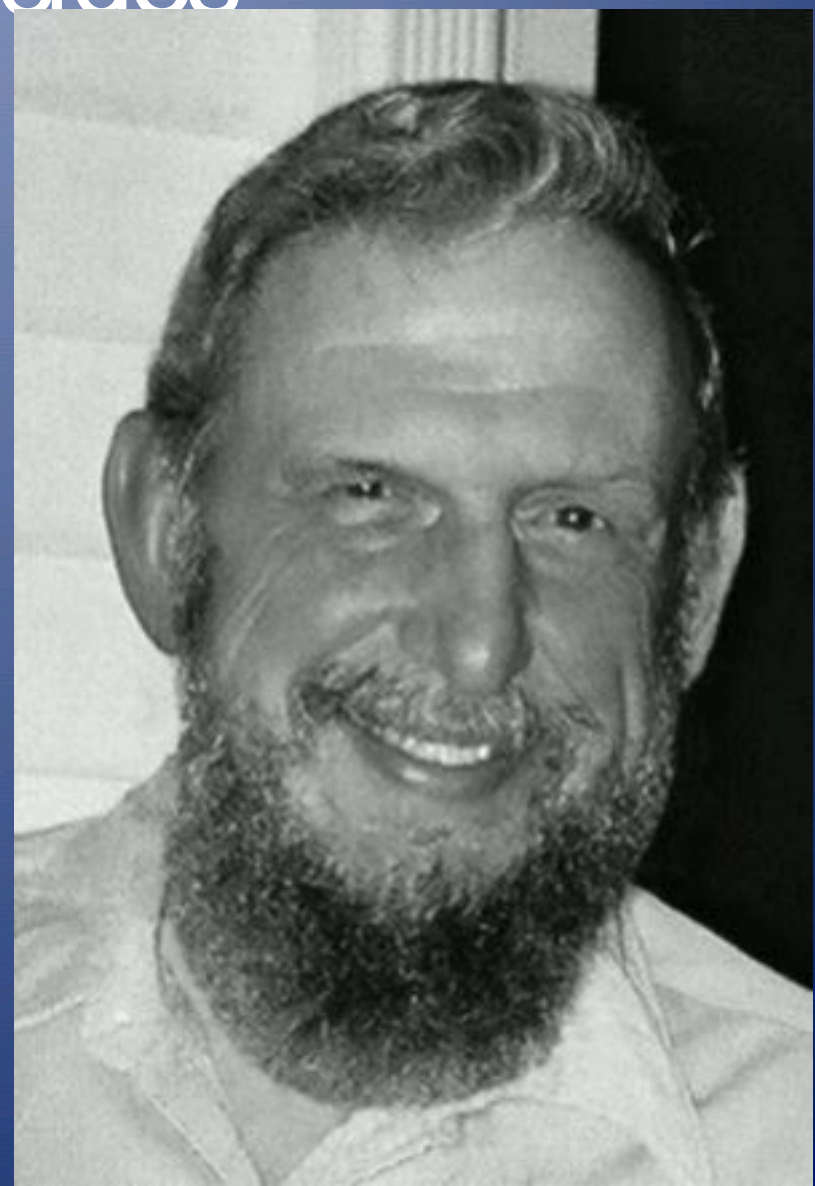
"Out-Standing in his field."

2008 Diagnosis Cancer

- Dad was diagnosed with Mantle-Cell Lymphoma. A Cancer of the Midwest!
- Transition 40 acres to Organics in 2008 in his honor.
- Today 125 acres transitioning to 1429 acres
- Learn in conventional and implement into our organic acres- but organic forces you to be a better biological farmer!

Lymphoma Doctors list of possible causes

- Exposure to Herbicides
- Exposure to Insecticides & Fungicides
- Exposure to Degreasers



- Dad's life was cut short on June 12, 2011.
- He was 73 years young.

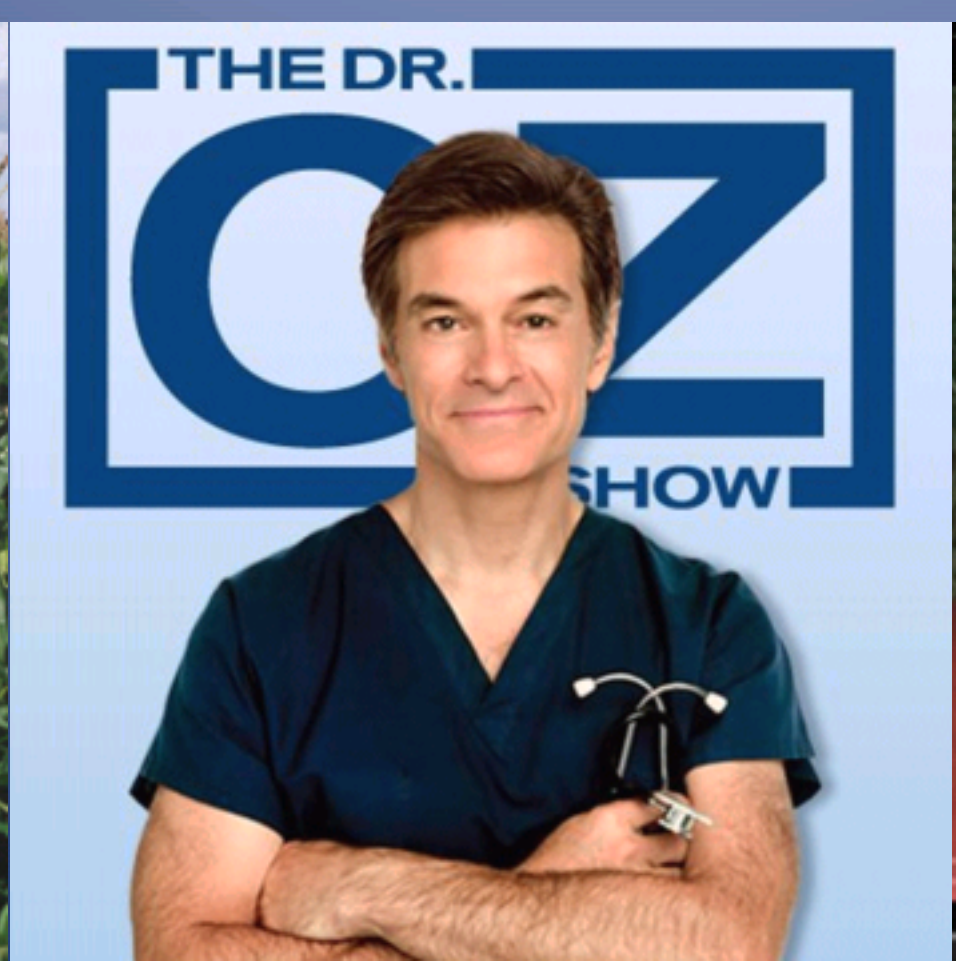
My Dad Taught Me to be a Pioneer

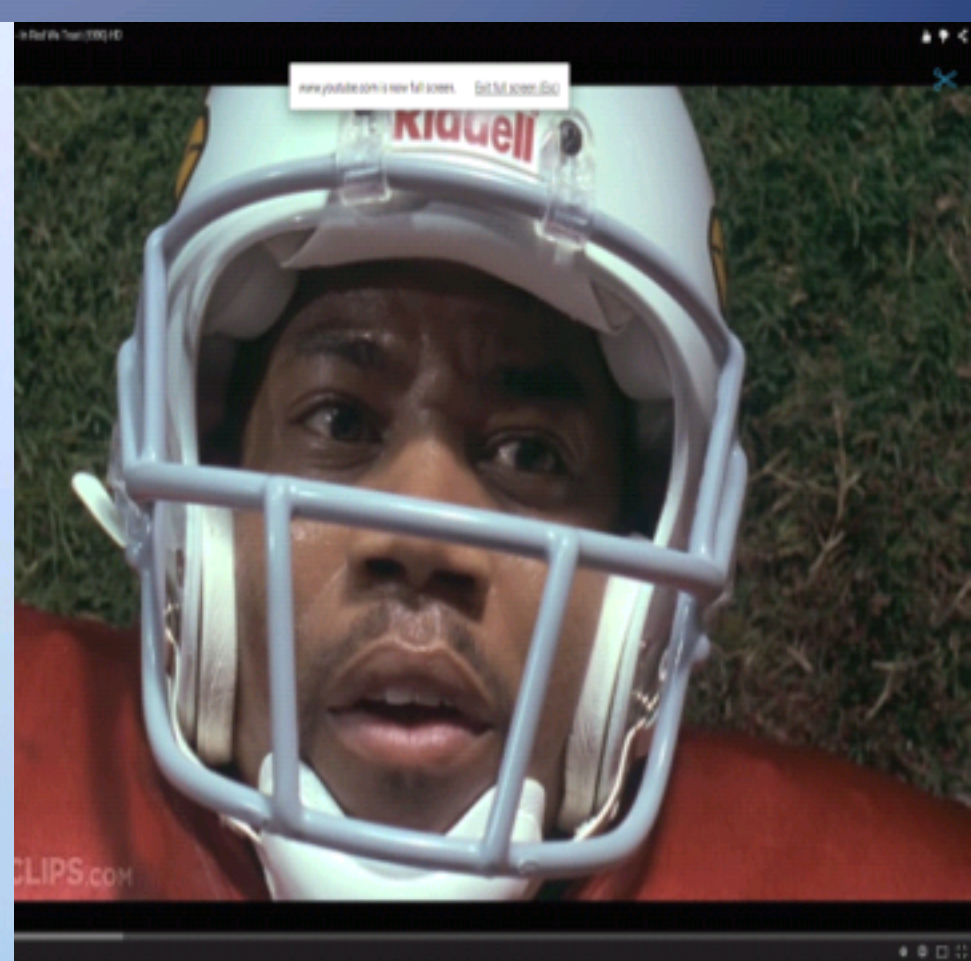
- Early adopter
- "Think outside the box" for different results
- Do what is right – *"Don't worry about what people say"*
- Never give up- *"Make it better"*
- You can do anything if you put your mind to it.
- Dad was my ROCK, my mentor

"A nation that destoys its soil destroys itself."

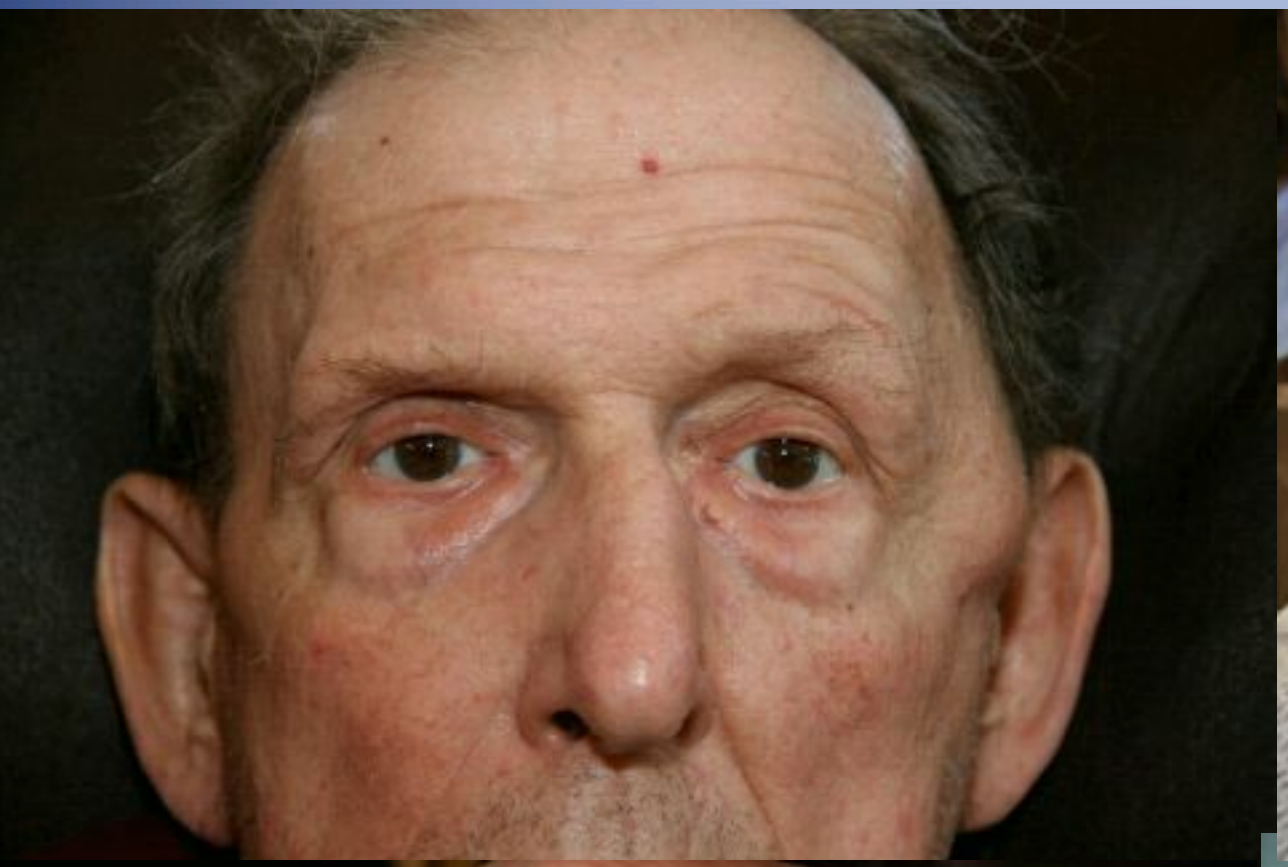
-FDR

THANK YOU for listening to my story of why I'm ORGANIC!





Dad with Mantle Cell Lymphoma-Blood Cancer



Effect of Residual Soil Glyphosate on Wheat, WI, 4-27-11

(Adjacent fields, same variety, planted same day, same fertilizer)

Organic Field

Six years of glyphosate 'burndown' use
(preplant application)

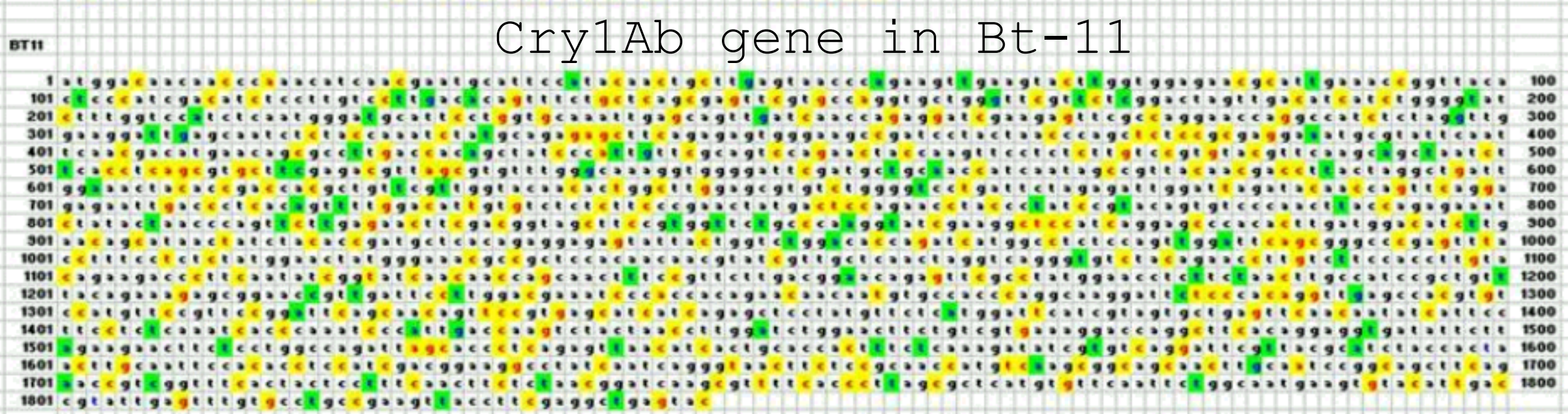
Daniel Olson, Norsk Farms, Lena WI

Codon Changes for Genetic Engineering Bt in Corn

[Every highlighted square represents a deliberately altered piece of genetic code]

Cry1Ab gene in MON810

Cry1Ab gene in Bt-11



Erosion of Pig Stomachs, Intestines with GMO Soybean/Corn Feed, Iowa

Carman, Vlieger, 2011, 2013

Normal color

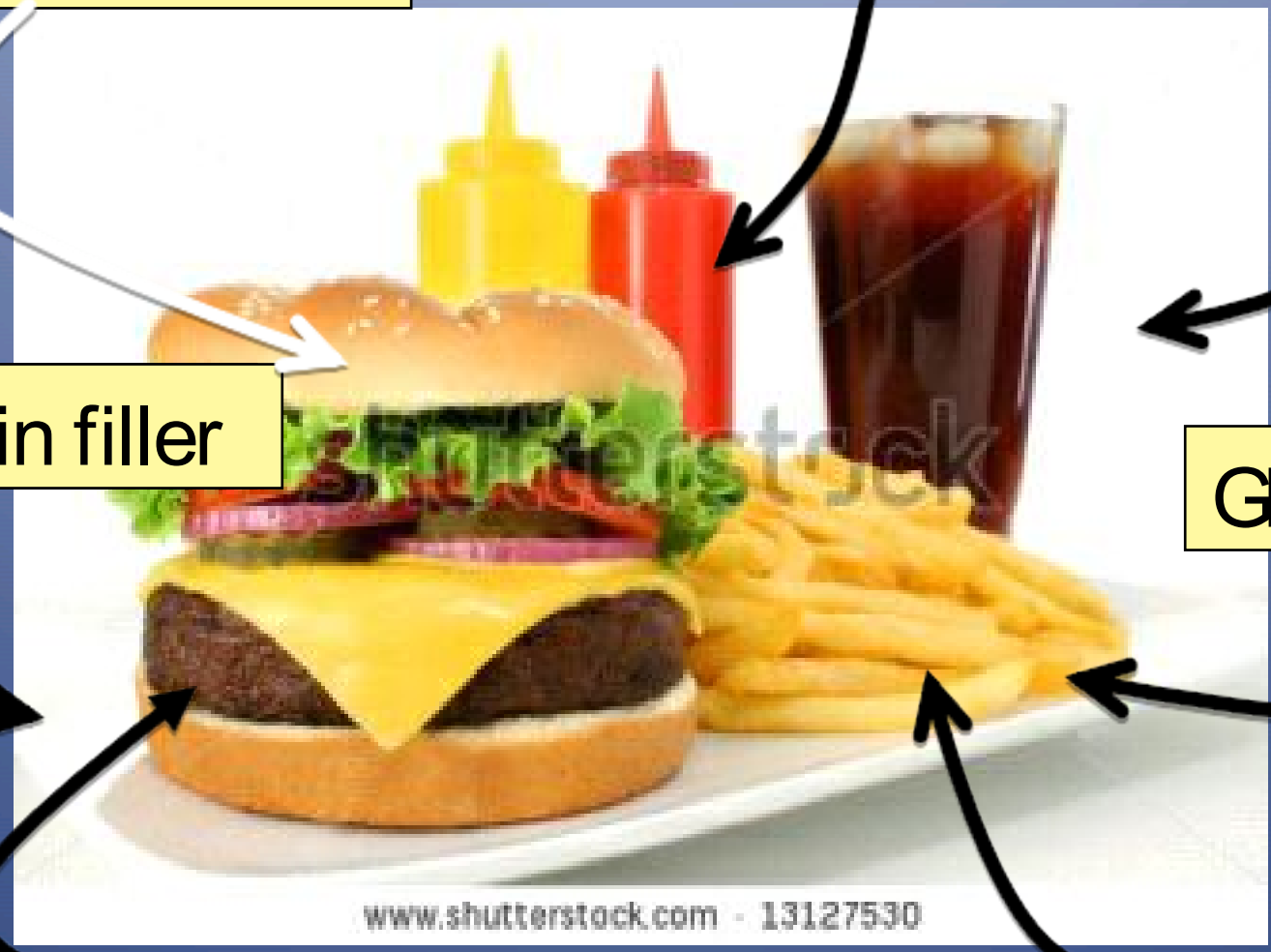
Inflamed, irritated

Dr. Huber

Is Glyphosate in Our Food?

Wheat desiccated with Roundup

High fructose GMO corn syrup



GMO soy protein filler

GMO Canola Oil

Cows fed GMO corn and soy

Potatoes desiccated with herbicides

Dr. Huber's Acres Presentation

It's in our rain…:next generation's problem?

New findings released by the U.S. Geological Survey show the presence of pesticides and herbicides—notably Monsanto's pervasive glyphosate-based Roundup—as well as its degradation byproducts and trace amounts of antibiotics routinely fed to livestock in watersheds and rainwater samples throughout the Mississippi Basin.

Glyphosate in Human Breast Milk

Mom $ Across America Study - 2014

Glyphosate Concentration (PPB)

Urine U.S.	Europe	Breast Milk	Drinking Water (MCL) U.S.	Europe	5 % Increase[X] in Birth Defects	Mis-carriage
18.8	0.16	76-166	700	0.70	0.028*	0.048**

*PPM, had 0.2 PPM in feed

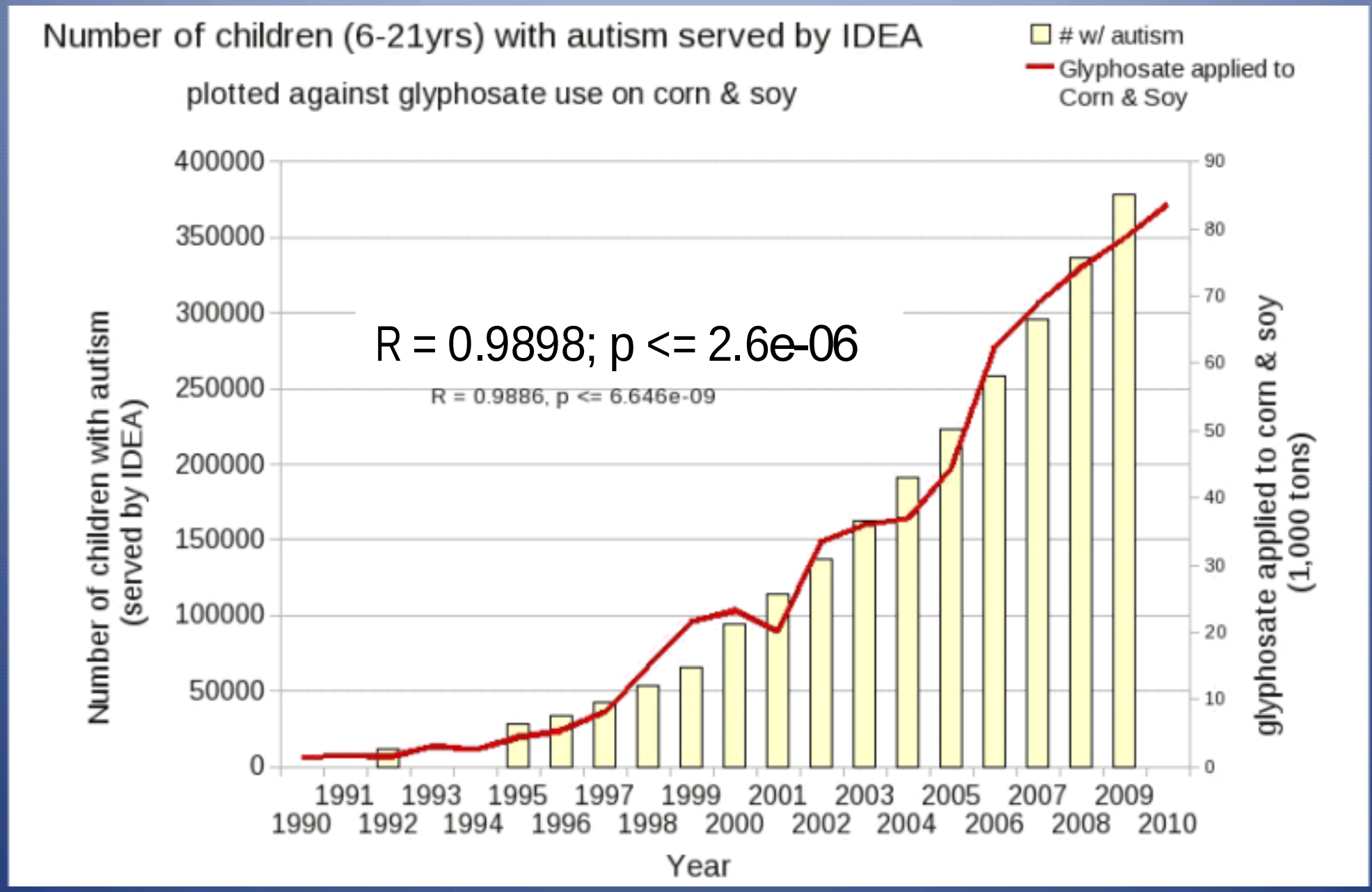
**PPM, had PPM 1.1 PPM in feed

[X]Pig study

From 10-400 PPM permitted in food products

0.1 PPM toxic to beneficial GI microbials

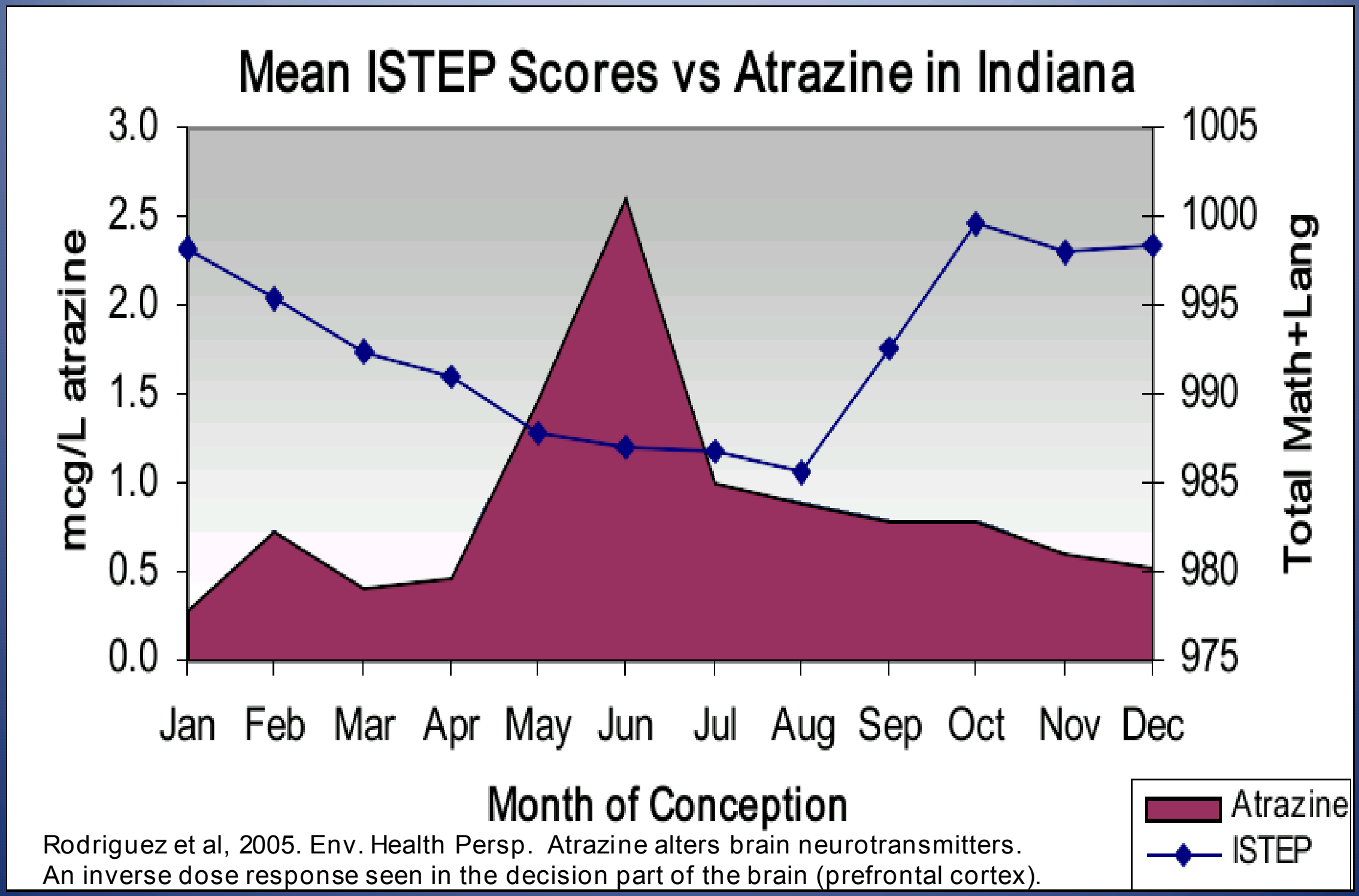
Glyphosate and Autism*



Pearson Correlation Coefficient = 0.99

*Dr. Nancy Swanson, http://www.examiner.com/article/data-show-correlations-between-increase-neurological-diseases-and-gmos

Could learning abilities in humans be altered by an herbicide?



Rodriguez et al, 2005. Env. Health Persp. Atrazine alters brain neurotransmitters. An inverse dose response seen in the decision part of the brain (prefrontal cortex).

Dr. Paul Winchester's data: Director of Neonatology,
St. Francis Hospital & Health Centers, Indianapolis
Clinical Professor, Indiana University School of Medicine

GMOs Failed Promises of Touted Benefits

- ü Higher yields
- ü Fewer pesticides
- ü Less post-harvest loss
- ü Improved N-fixation
- ü Drought and salt tolerance
- ü Increased photosynthesis
- ü Greater root growth & function
- ü Disease resistance
- ü Lower risks (economic)
- ü Lower cost
- ü Greater safety
- ü Simpler management –resistant weeds & pests

BETRAYAL OF THE PUBLIC TRUST

Future historians may well look back and write about our time, not about how many pounds of pesticide we did or did not apply; but about how willing we are to sacrifice our children and jeopardize future generations with this massive experiment we call genetic engineering that is based on false promises and flawed science, just to benefit the "bottom line" of a commercial enterprise.

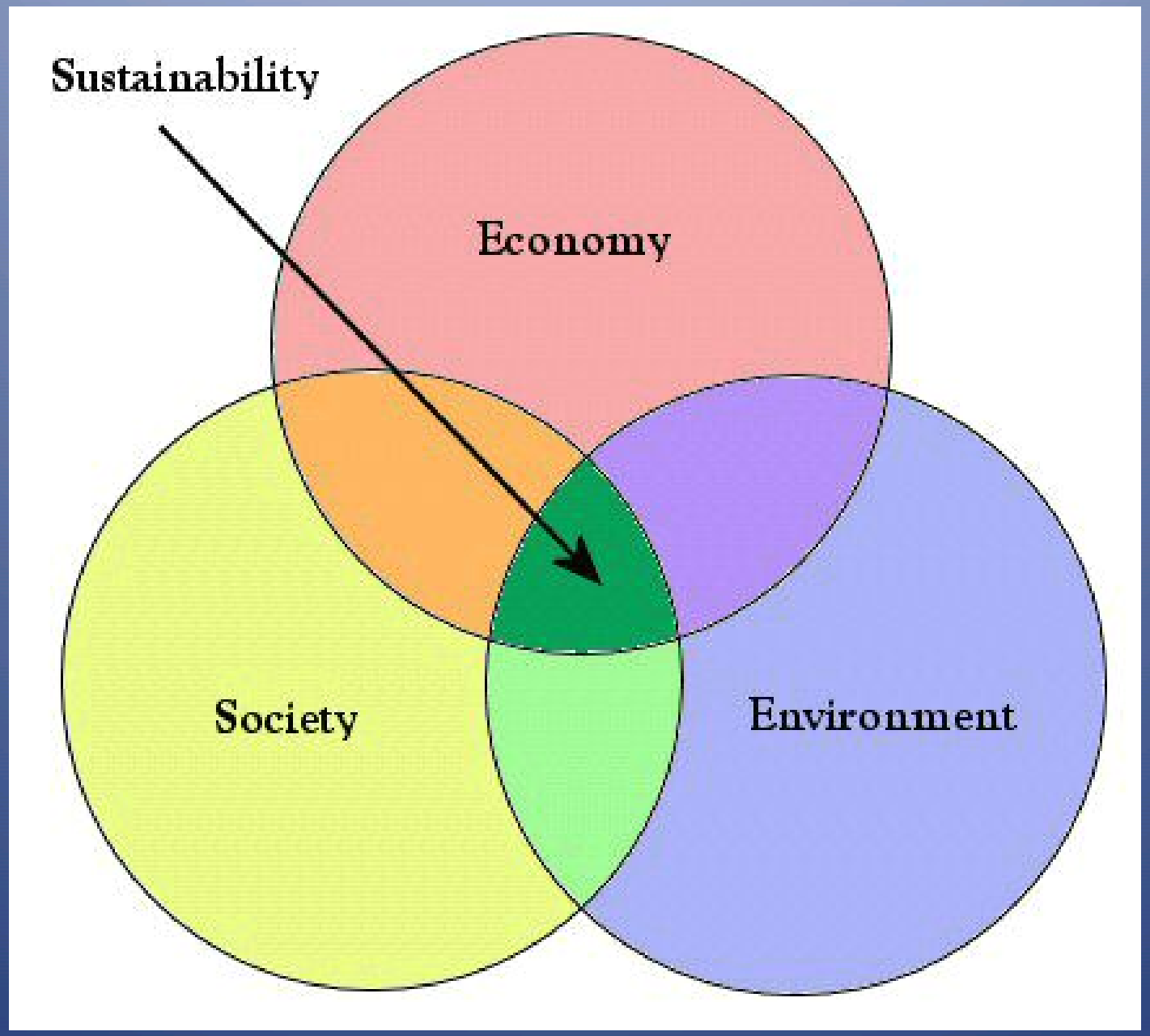
Dr. Don M. Huber, Professor Emeritus, Purdue University

Regeneration of Soil Health

Short Term
Quick Fixes

vs.

Long Term
Profits



Health care cost

vs.

Nutrient Dense
Safe Foods

Degrading soil
health &
water quality

vs.

Healthy Soils.