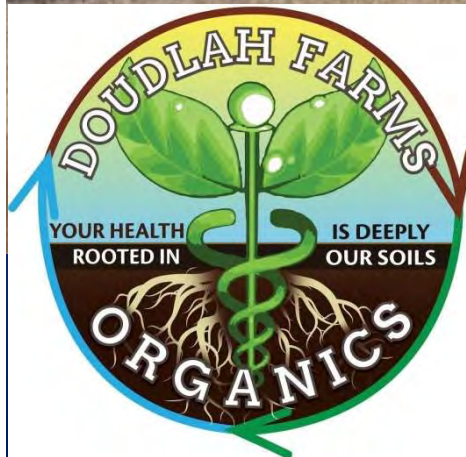


How and Why our farm Transitioned to Organic



92 bu/ac Organic Wheat 2012

www.doudlahfarms.com



OGrain

Soil Health is 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



What do the
Millennials
Want?

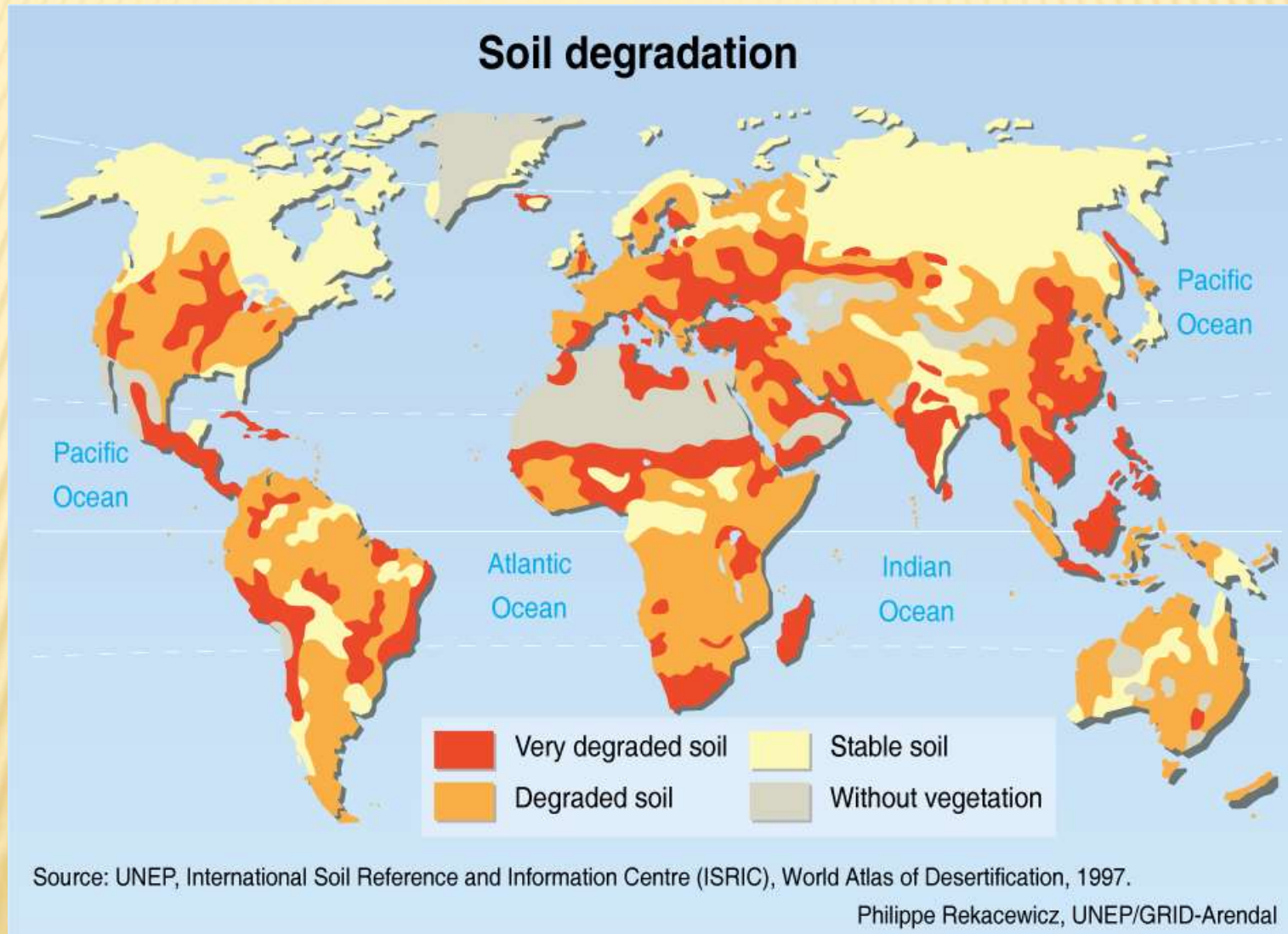


FOOD defined by your NEW BOSS

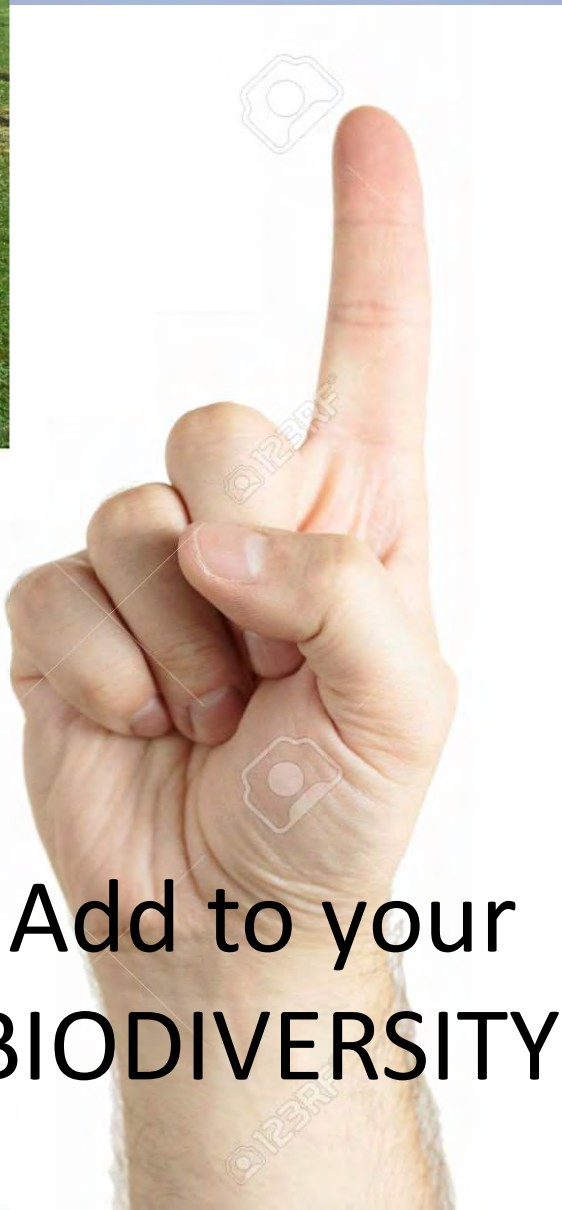
- Nutrient Dense-biologically healthy rich soil?
- Safe-no synthetic pesticides-Organic?
- Free from Antibiotics-Organic or non GMO?
- Free of Hormones-No implants? No soy?
- Type of fat-omega 3 vs 6 fatty acids-grass fed
- Humanely produced-Free range on pasture?

“Capturing the Benefits of BIODIVERSITY”

VULNERABLE AREAS OF THE WORLD



What is your “ONE THING”?



Add to your
BIODIVERSITY



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



Vibrant Picture of My Dad



*Earl Doudlah...
"Out-Standing in
his field!"*

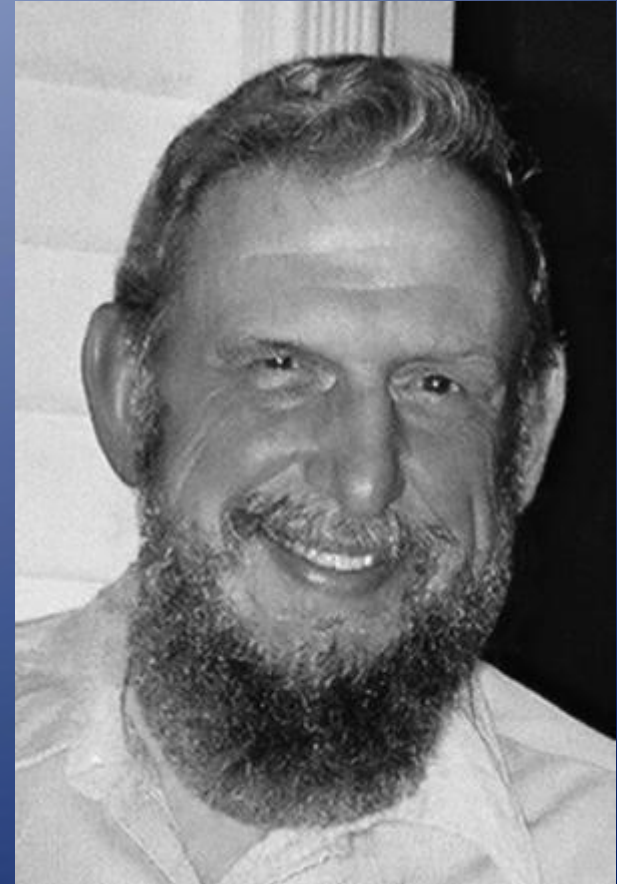


2008 Diagnosis Cancer

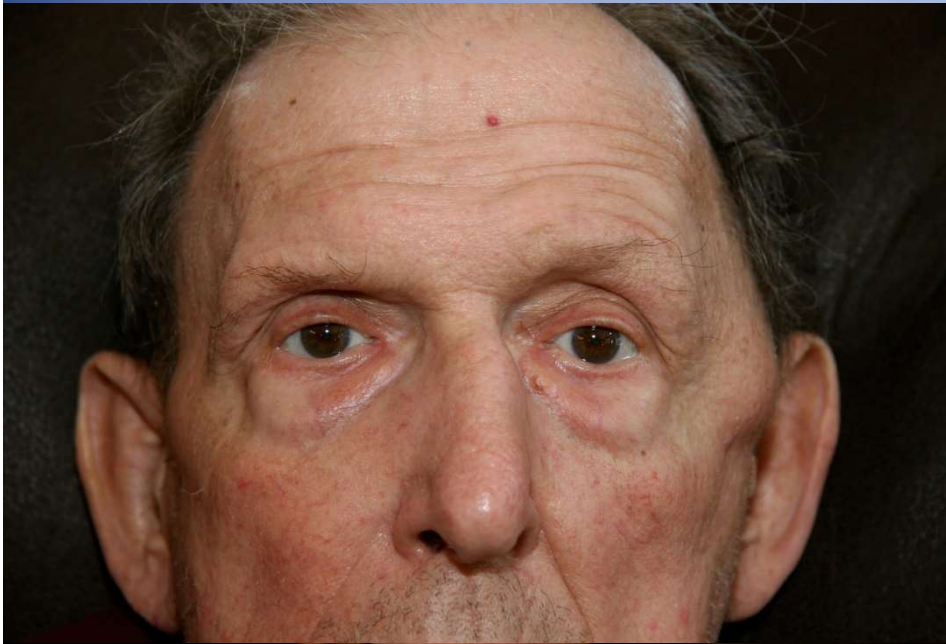
- Dad was diagnosed with Mantle-Cell Lymphoma. A Cancer of the Midwest!
- Transition 40 acres to Organics in 2008.
- Today 629 acres transitioning to 1455 acres
- Learn in conventional and implement into our organic acres- organic forces you to be a better biological farmer!

Lymphoma Doctors list of possible causes

- Exposure to Herbicides
 - Exposure to Insecticides & Fungicides
 - Exposure to Degreasers
-
- Dad passed away June 12, 2011
 - He was 73 years old



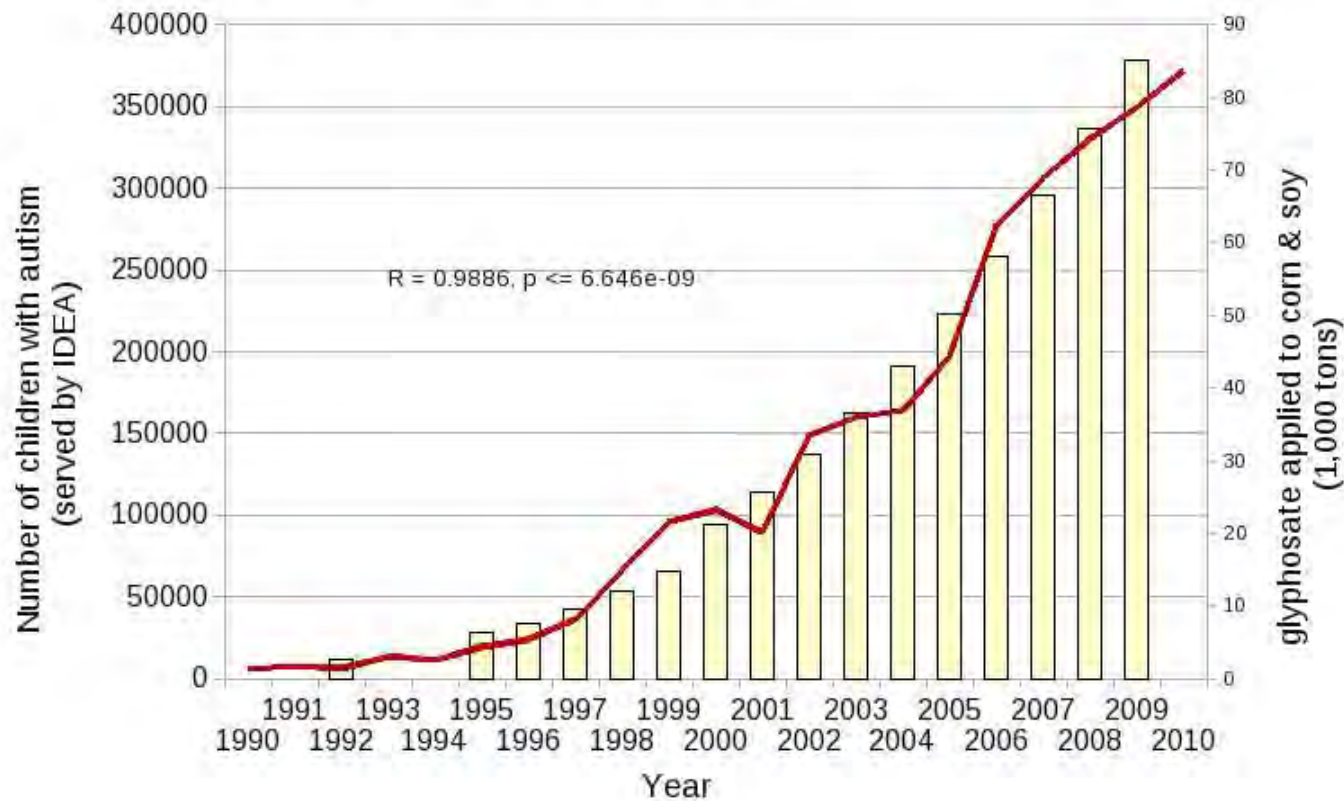
Dad with Mantle Cell Lymphoma-Blood Cancer



Glyphosate and Autism*

Number of children (6-21yrs) with autism served by IDEA
plotted against glyphosate use on corn & soy

□ # w/ autism
— Glyphosate applied to
Corn & Soy



*

<http://www.examiner.com/article/>

Glyphosate (ppb) levels in food

Food product	Glyphosate (ppb)	Food product	Glyphosate (ppb)
Cheerios	1,125.3	Oreo Double Stuf	190.90
Honey-nut cheerios	670.2	Simply Naked Pita Chipa	812.53
Wheaties	31.2	Ley's Kettle Cooked	452.71
Trix	9.9	Doritos Cool Ranch	481.20
Annies Gluten free bunny cookies	55.13	Fritos (Original)	174.71
Kellogs corn flakes	78.90	Goldfish Crackers	18.40
Kellogs Raisin bran	82.90	Goldfish Whole Grain	24.58
Kashi Organic Promise	24.90	Oatmeal Crème Pies	264.28
Kellogs Special K	74.60	Oatmeal Cookies	452.44
Kellogs Frosted Flakes	72.80	Organic Golden Round	119.12
Cheeze-It (Original)	24.60	Crispy Cheddar Crackers	327.22
Cheeze-It (whole grain)	36.25	Bread (7 brands)	<0.1-127,000.00
Ritz Crackers	270.24	Sugar (7 brands)	0.5-810,000.00
Triscuit	89.68	Breast milk (range)	66-166.00
Oreo Original	289.47	Drinking water (range)	0.5-700.00
		Instant oatmeal	1,670.00

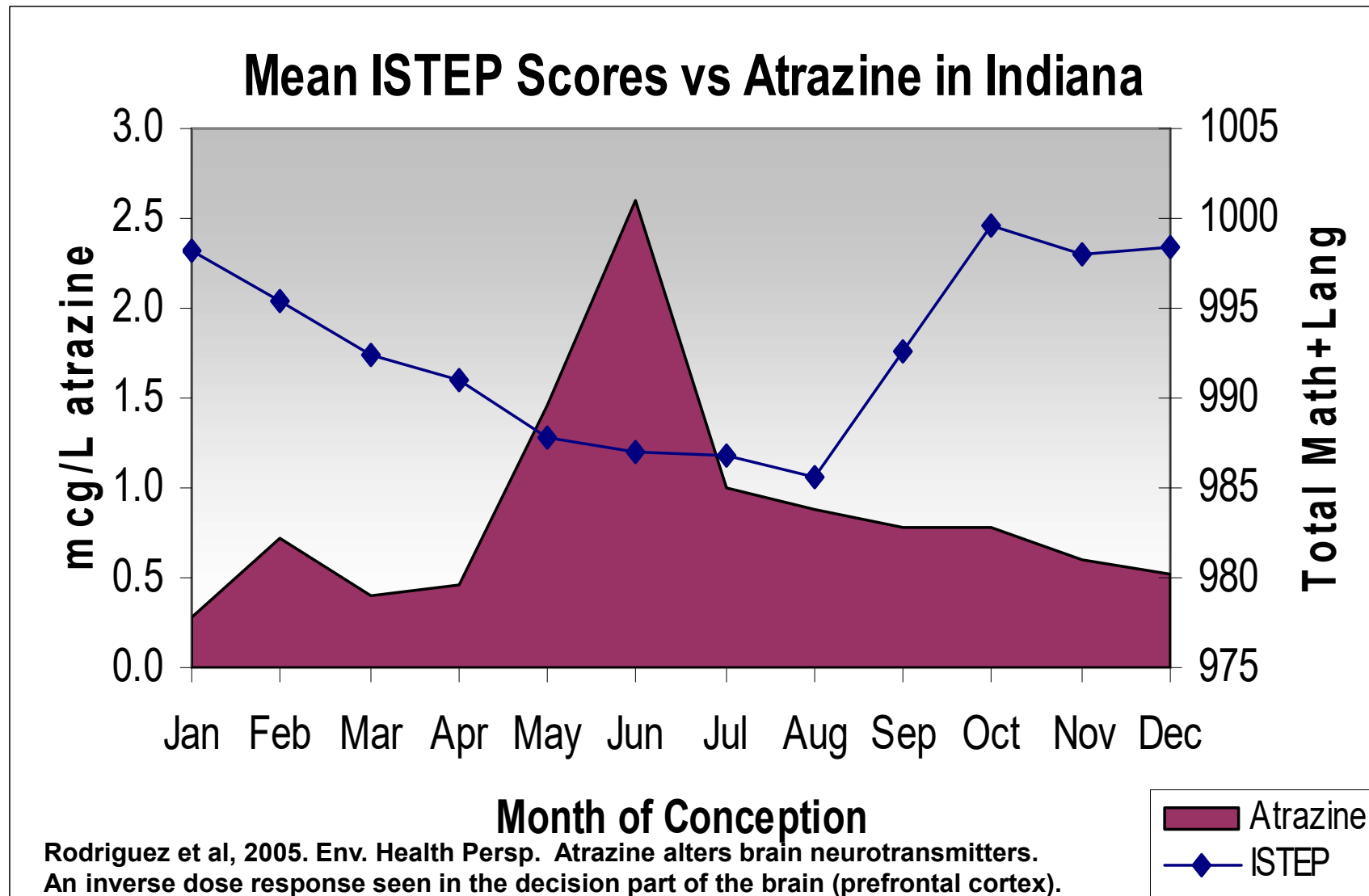
One in Two in 2025?



dreamstime.com

The rate was 1 in 10,000 in 1970

Could learning abilities in humans be altered by an *herbicide*?



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

What do you BELIEVE in?

- My conventional beliefs were shattered – I drank the Kool-Aid
 - No turning back - Know too much
 - Duped by the Big Chem Agenda
 - Do you believe you are responsible to feed the world?
 - At what cost?
 - Cancer for your consumer?
 - Contamination of your well water?
 - Gulf Hypoxia? Shrimper 100 Miles to get to work? Would you drive your tractor that far?
 - Have you been fraudulently misled?
 - Drugs and side effects?
 - Conventional Agriculture – Drug Addict?
 - Would you have been a “user” if you had known the side effects to your fellow man?
 - Can you safely farm with your kids? Open a seed corn bag
 - **Organic – Start with transitioning your thoughts**
 - My definition of a farmer changed -“produce nutrient dense - safe - food”
- My Legacy
 - Judgment day?
 - Put your grandkids on your knee
 - Gods Judgement am I Practice Sorcery (Greek word Pharmakia) Pharmacy and Mingled (Hebrew word Kilayim) seeds of mixed locked genomes - GMO Seeds?
 - **Organic is a CHOICE – you are demonstrating your beliefs**

Transition Plan to Organic

Rotation on Acceptable Tillage Fields (denotes cover crops) crimpSOY(vetch)-crimpCORN(c. rye+clover)-plowCanning PEAS(optional Or Forage peas)/DRY EDIBLES(wheat)-WHEAT(vetch/tillage radish/mustard/buckwheat)-cplowDRY EDIBLES(med. red clover)-plowCORN(c. rye)
 Rotation on HEL crimp only fields (denotes cover crop) crimpSOY(c. rye+vetch)-RYE+VETCH(verrtillage volunteer vetch)-crimpCORN(c. rye)
 Difficult hydrological conditions for Organic

Difficult hydrological conditions for Organic				Organic										Organic										Organic									
2014				last pesticide		Crop	SQ FT	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(c.rye)-soy	192	Batty	78	summer 2014	C	7 Rye				78					78								78										
		Kens	78	summer 2014	C	15 rye				78						78								78									
		Casey 3	36	Organic	org C	4-6 PB Vetch				36						36									36								
2 CORN(c.rye)-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	low seeding rate=poor stand			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										
		Keehns 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											
5 Soy(vetch)-corn	133	Casey 2	36	Organic	P.DE	4-6 PB Vetch		36								36									36								
		Keehns	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															
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	-	-							
split					Organic			139	-	36	-	-	-	-	36	168	71	-	21	5	591	398	307	133	-	-							

Total Acres		1,429	1,429		1,429	
Organic Acres		116	175		301	
Acres		257	379	343	-	64
Yield		180	1800	45	50	50
Price \$		3.50	\$ 0.55	\$ 13.00	\$ 6.00	\$ 7.00
Gross \$		161,910	\$ 375,210	\$ 200,655	\$ -	\$ 22,225
Acres		139	379	36	-	64
Yield		170	2	45	60	400
Price \$		13.00	\$ 300.00	\$ 28.00	\$ 15.00	\$ 1.50
Gross \$		307,190	\$ 170,550	\$ 45,360	\$ -	\$ 38,100
Total Gross \$		1,559,820	2,305,945		2,710,518	

Transitioning Seed Loophole permitted

- Allowed to plant your own transitioning cover crop seed on your certified organic acres
 - Must clean on farm or a Certified Organic Seed Cleaner
 - Only exposed to your own weeds
 - Ease into your organic acres using this low cost method
 - Start small on 5 to 40 acres
 - Learn from small mistakes and observe the success areas
 - Do not put your equity at risk by going all in cold turkey

Transition with Cover Crops?

- T1-Improve soil tilth, add N and break weed cycle
 - 4010 speckled forage peas plant early in spring
 - 1.5 bpa
- T2-Improve soil tilth, smother weeds and add N
 - Plant Poly crop
 - Aroostook Cereal Rye 1.5 bpa
 - Purple Bounty Vetch 22#/ac.
- T3 Organic-\$9.00 organic corn?
 - Grow 80-100% of your Nitrogen Needs

Organic adaption rate- Petition NOP to allow Transitional Cover Crop seed to be planted on other farms organic lands

Transitional alternate cash crop-4010 forage peas – T1



Harvest - Aroostook Cereal Rye with Purple Bounty Vetch –T2



T2 - Aroostook Cereal Rye and Purple Bounty Vetch Harvest





Aroostook
Cereal Rye
&
Purple Bounty
Vetch

Purple Bounty Vetch ahead of Corn-
also over 200 bpa-no manure- T3



Corn after Purple Bounty Vetch- T3



**Organic Corn(T3) starts with aerial frost
seeding Medium Red Clover into growing
Winter Wheat(T2)**



Planting Oats Vetch and Clover for Corn



Growing Nitrogen after Wheat(T2)



Organic Corn – Red Clover plow down

- Note sprayer pass with Residue



2013 pre-emerge surface application

- High Calcitic Lime (1,000#/ac)
- Gypsum (1,000#/ac)
- Compost (1 ton/ac)
- Raw manure(1-3 tons)
 - Worked into soil to retain N



ROCKET your corn seed for weed control

- Myco seed treatment (MST) on seed
- Chilean(sodium) nitrate 2"x2" placement
- Fish, SP-1, Molasses, Bio Repel, Ecotec, Jabb SPE in the Seed Trench

Don't risk your high value organic crop by planting NAKED



Jabb SPE - *Beauveria bassiana* –seed treatment

- **Reports, trials and research indicate seeds treated with Soil Plant Enhancer (SPE-120) with *Beauveria bassiana* have shown improved performance against:**
 - Potato psyllids Leaf hoppers Pea aphids Green peach aphids Leaf miner, Mites, white flies Wheat midge Spotted wing drosophila in raspberries Grape colaspis Wheat stem sawfly Apple maggot Onion maggot Onion thrips Plum curculio Pecan weevil Alfalfa weevil Clover leaf weevil Squash borer Cabbage looper Armyworm Corn Ear worm Pink boll worm Variegated cutworm Black cutworm Webworm European corn borer Northern corn root worm beetle Western corn root worm beetle Japanese beetle Colorado potato beetle Wireworms
- **SPE-120 with *Beauveria bassiana* is a plant symbiont. Activity includes:**
 - Stimulation of immune system
 - Restricts plant pathogens from entering the plant.
 - Interacts with plant to produce additive biochemicals
 - Combines plant resistance to insect feeders for reducing population threat
 - Naturally occurs in soil but has been killed off by fungicides and tillage



Soil Plant Enhancer (SPE-120)

Reports have shown :

reduced Toxins:

Aflatoxins and Mycotoxins in corn

reduced Diseases:

Fusarium and Rhizoc in potatoes and cucurbits

Suppressed Insects in:

Lygus bugs/ squash bugs in squash and melons

Cabbage looper in cole crops and greens

Colorado Potato beetles in potatoes and egg plant

Onion thrips in onions

**Aphids, white flies,
mosquitoes, psyllids**



Why 15" Corn-close the canopy





Corn 40 days after planting

Doudlah Farms, Evansville, WI





2nd crop out of CRP
Following wheat/clover in 2013
< 20 units added N in 2014
= 201 bu/a Organic Corn in 15" Rows



Lack of N-previous crops: Soy , pintos
and spring 4010 peas



Two Rotations-Organic *mechanical action-CROP* (cover crop)

Tillable Lands

- Year 1 *mid May disk-CORN*(Aroostook cereal rye)
- Year 2 *crimp-DRY EDIBLES or SOY*(*disk-oats+mustard*)
- Year 3 *disk-CANNING PEAS-disk-DRY EDIBLES*(winter wheat+daikon radish)
 - *plane-frost seed med. red clover*
- Year 4 none-**WHEAT** or (purple bounty vetch and Aroostook cereal rye)

HEL Lands

- Year 1 *crimp-SOY*(Aroostook c.rye + purple bounty vetch)
- Year 2 *none-RYE+VETCH*(verticle-tillage volunteer vetch)
- Year 3 *disk-CORN*(aroostook cereal rye)



**Take the first step towards
increased soil health by
Notill-Crimped Soybeans**

Introduction to No-till-Crimp Beans

Simple as 1 – 2 – 3!!!!

1 - Seed Aroostook Cereal Rye in Fall

2 - Plant beans and Crimp Rye

3 - Harvest Beans

NRCS CONSERVATION PROGRAMS

- **Environmental Quality Incentives Program (EQIP)**
 - Cover Crops (340)
 - Residue and Tillage Management
 - No-till/strip-till/ direct seed (329)
- **Conservation Stewardship Program (CSP)**
 - Precision Application Tech to apply nutrients (WQL11)
 - Drift reducing Nozzle low pressure/low boom height to reduce pesticide drift (AIR04)
 - GPS, targeted spray application or electronic control technology (AIR07)
 - Control Traffic System (SQL01)
 - Plant tissue test and analysis to improve
 - Nitrogen management (WQL04)



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

- 
1. 180 # Cereal Rye
 2. Residue + PL from AgriEnergy
 3. Dry Nutrients if needed
 4. 500+Hp to keep it rolling

Gear up for timely cover crops



Jeff Moyer of Rodale speaking at 2014 MOSES Conference

**MY
Ah-ha
Moment**

My “one Thing”



Weed Control - Get it right in the fall!



Soybean Planting and Rye Crimping



Add 7.5 ton of biological active carbon while you plant!

Rye roots feed your soil biology and crop

Weather proof your soil and crop Yields



Crimped Rye

Field M & D- upper field

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



Humic Substances

Soybean
& corn
roots



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

- Crimp-rite roller by Rite-way requires recrimping even at 550#/ft
- Chevron less likely to need recrimp at 230#/ft





Crimper-better
than Roller



Check Crop Insurance Termination Guidelines for your area

* Cover Crop Termination Zones

Prepared by: NRCS | ESO
December 2015



No-till beans — Keehn Field

NOTE: weed control July 23



Notill beans — Keehn Field

Doudlah Farms, 47 bu/ac food grade beans



“It’s like Combining on Carpet”

Robin Brekken MN



Don't Panic

Narrow rows will
close canopy

All rainfall will be
infiltrated

Cereal Rye will
maintain weed
control thru fall



No-till Clear Hilems- Keehn field

Doudlah Farms, Evansville, WI, July 23



Organic Soybeans - No Mech. Cultivation



Rodale and Cover Crops made it possible on my farm!

- Nutrient rich dense safe food-Organic
- Soybeans most erosive crop...to regenerating soil
- No Pesticides
- Reduced my time in field
 - Increase my management in other areas
 - Time with my family
- Increased my profit margins
- Organically-Sequester carbon to “save our planet”

Crimping PLAN B

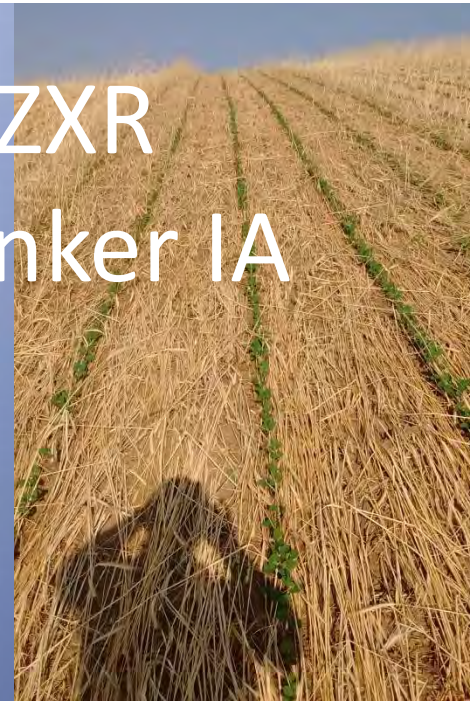


Plan B – 3 more Bushels of cereal rye at planting



Transition with Rye and a ZXR Crimper/Planter? Brent Schlenker IA

- T1 - T2 - T3
- Rye soy- Rye soy -Rye
 - Transition while selling a crop
 - Add N to your soils over time
 - Able to get the rye in early
 - Add brown carbon > 5 ton per year!!!
 - Eliminate erosion
 - Might have to clean rye out of FOOD GRADE soybeans?



Oats and Peas - Transition

- Beran Brothers Lime Springs IA
 - Certified Organic
 - Use internally as a transitional cover crop
 - Decreases compaction
 - Poly/companion/ crop reduces weeds
 - Late July Harvest allows for amendment application
 - Harvest with a lot of air and drill ready?
 - Or clean and separate oats from peas
 - Low Cost

No-Till-Crimp Dry Edible Black Beans –Sept 20



Double Crop - Canning Peas ahead of Dry Edibles



Canning peas 2.4 tons/ac. by-passed due to
Cereal rye contamination-Celiac Disease
Use Oats instead of Rye



Dry Edible Black Beans (Zorro) after Peas



Hatzenbichler Tine Weeder 40'



In Row Weeding – WOW!



RTK Cultivating 15" Rows w/Tramlines



15" Row Dry Edible Beans



Organic Black Beans



Harvesting Black Beans w/combine



Knifer on front 3 point



Roder and conveyor on rear 3 point



Know your equipment to meet quality



Skin Checks-No Augers



Chippewa Valley Bean Menominee WI

Bob Wachsmuth 1.715.664.8342



Soy free protein



Yellow Peas



Tillage vs No-Till-Crimp



Crimping Purple Bounty Vetch



No-Till into Crimped Vetch and Rye



Tillage vs. No-Till-Crimp



Crimped No-Till Organic



No-Till Crimped Organic Corn

- Planted in fall
 - Oats, sorghum and Daikon Radish in 15” rows
 - Lynx winter pea in twin 5” rows in between
- No-till corn into winter killed 15” rows
 - Dakon radish acts as early gas tank for early corn developmental nutrients
 - Crimp V2 or V3 corn
 - Crimp flowering Lynx winter pea for long term nitrogen needs
 - Lynx winter pea failed to emerge due to skin check damage

Ideal No-till Environment for Corn



Frost Terminated – Oats, Radish and Sorghum in 15" rows



N - Lynx Winter field peas in twin 5"





NT Organic Crimped Corn



Winter Pea & Vetch Breeding Program- USDA Grant

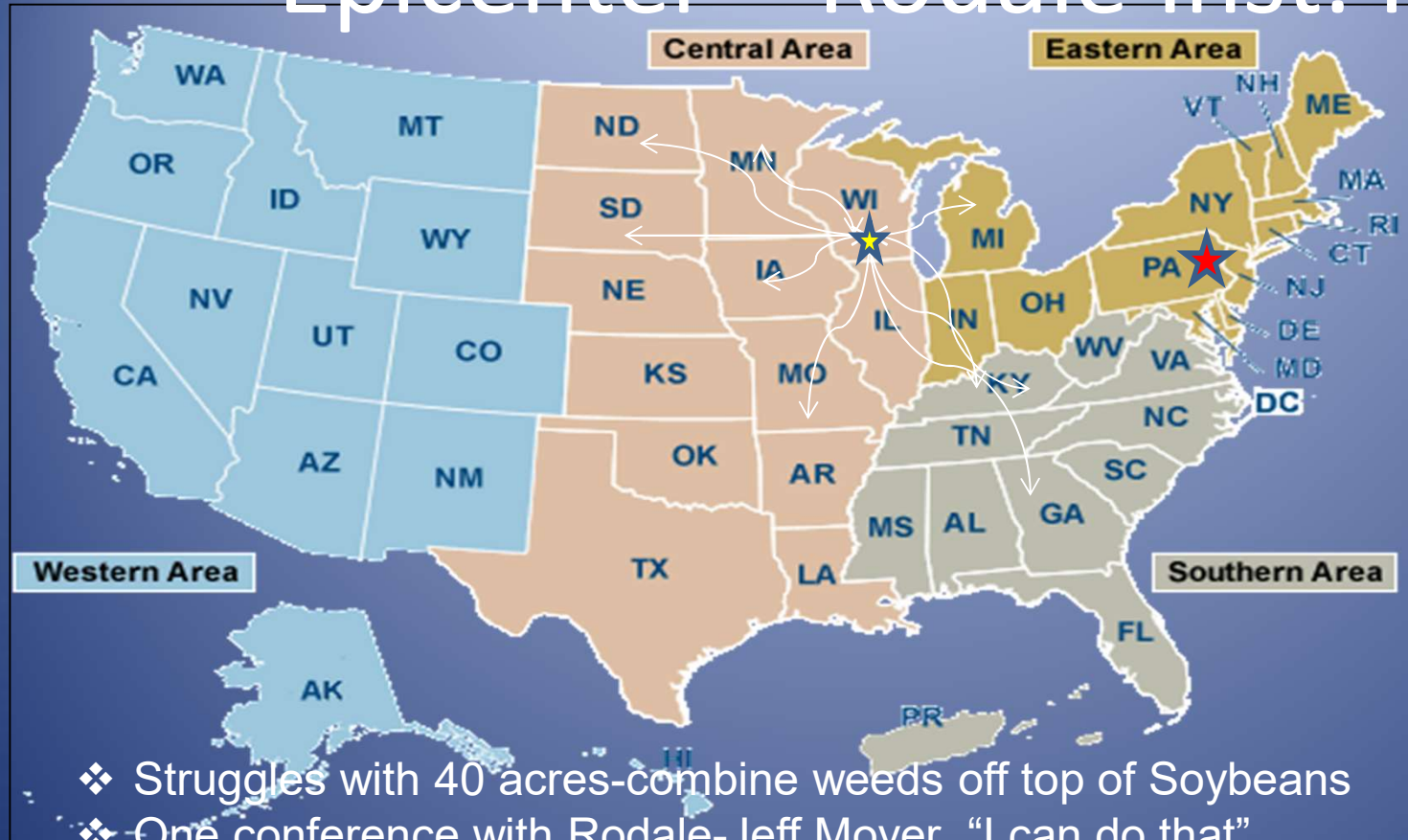


2017 Install - Prairie Filter Strips

- GPS Index for tram lines
- Beneficial Insects
- Erosion Control
- Pollinator Habitat
- BIODIVERSITY
- Small changes
 - Big Impacts
 - Partnered with Sand County Foundation



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
- ❖ Rodale 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 !**

Doudlah Farms Field Day, Standing room only!

Kentucky, North & South Dakota, Minnesota, Michigan, Iowa,
Illinois, Wisconsin, Georgia



2017 Organic Field Day August 10th

Crimping with Confidence-Credits

- Rodale Institute, Jeff Moyer PA
- UW-Madison, Dr. Erin Sylva WI
- David Brandt, OH
- Reginald Destree, WI
- Robin Brekken, ND
- Jason Doudlah, WI



White Parks on rotational
paddocks



Cover Crops
allow us to
Direct Market
our farm

Birks on Pasture



Removable Solar Electric Fence



Pastured Turkeys



Egg Layers on White Clover Grass



Mobile Egg Layer




FarmRite
ORGANICS™

How we use COVERCROPS & BIODIVERSITY

- Nitrogen production-legumes and N fixing bacteria(soil health)
- Build organic matter %...nutrients, water holding capacity
- Solubilizing nutrients in soil
 - Each CC species expresses it's unique nutrient release thru microbes
- Armor soil to eliminate:
 - Erosion
 - Surface Puddling (crusting) ...buildup of CO₂ causes further weed germination
 - Runoff....free irrigation...increase infiltration and percolation
 - Evaporation
- Consistent 365 day food source for microbes
- Weed control-both mulch and allelopathy expression
- Reduce/eliminate the use of herbicides, fungicides, fumigants and insecticides that kill off soil life
- Reduce/eliminate the use of toxic fertilizers that kill off beneficial soil life. SOP, TN Brown, soft rock phosphate
- Produce and Market **pasture based** livestock without antibiotics
- Makes organic farming possible, profitable, regenerative, sustainable, safe and environmentally sound

Know YOU, your BANK and your BANKER

- Does your bank support Organic? Your banker?
 - Do they have a Organic Specialists?
- Does your loan officer understand the Transition process?
- Rate of transition? What is your equity position? Your leverage?
- Do they understand the Organic Market? Do You? Value of the dollar. Finally transitioned and corn goes from \$14.50 to \$8.10?
- Do you understand the equipment changes on your farm going to organic?
 - Can you mechanically weed your entire crop in 2-3 days or in 24 hours?
- Do you have contracts, crop insurance, plan B
- Plan for the unexpected



Knowing your capabilities

- Do you have adequate storage, aeration, bean ladders, belt unload
 - Does your available storage match your contract delivery period
 - Can you clean to the specifications of your contract?
 - Spin your poly crops apart? i.e. Gluten Intolerance?
- Can you clean and sell your cover crops. Can you find the market? Or use it internally?
- Do you have a backup action plan in case your cover crop fails?
 - Access and budget for manure, Chilean Nitrate or Nature Safe?
- Are the demands on your time sustainable? Can you even farm the same number of acres organically? 5X multiplier? Can you keep up with the BIODIVERSITY of your farm?
- Certification Process? Details....can you pull it all together for a day?
- Find your support group. It might not be your neighbors? Coffee shop goes quiet?
- Promote what your doing....soil health, clean water, pesticide reduced food...your health – your part of a solution!

Mitigate your Organic Risk

- Natural Weather
- Fraud
- Global Shading/Chem Trails/GeoEngineering
- Crop insurance



What is your “ONE THING”?



Wild Oat Organics
now sold at
Walmart



Chipotle.



THE COSTCO CONNECTION

January 2015 • Volume 30 • Number 1

A lifestyle magazine for Costco members

GROWING

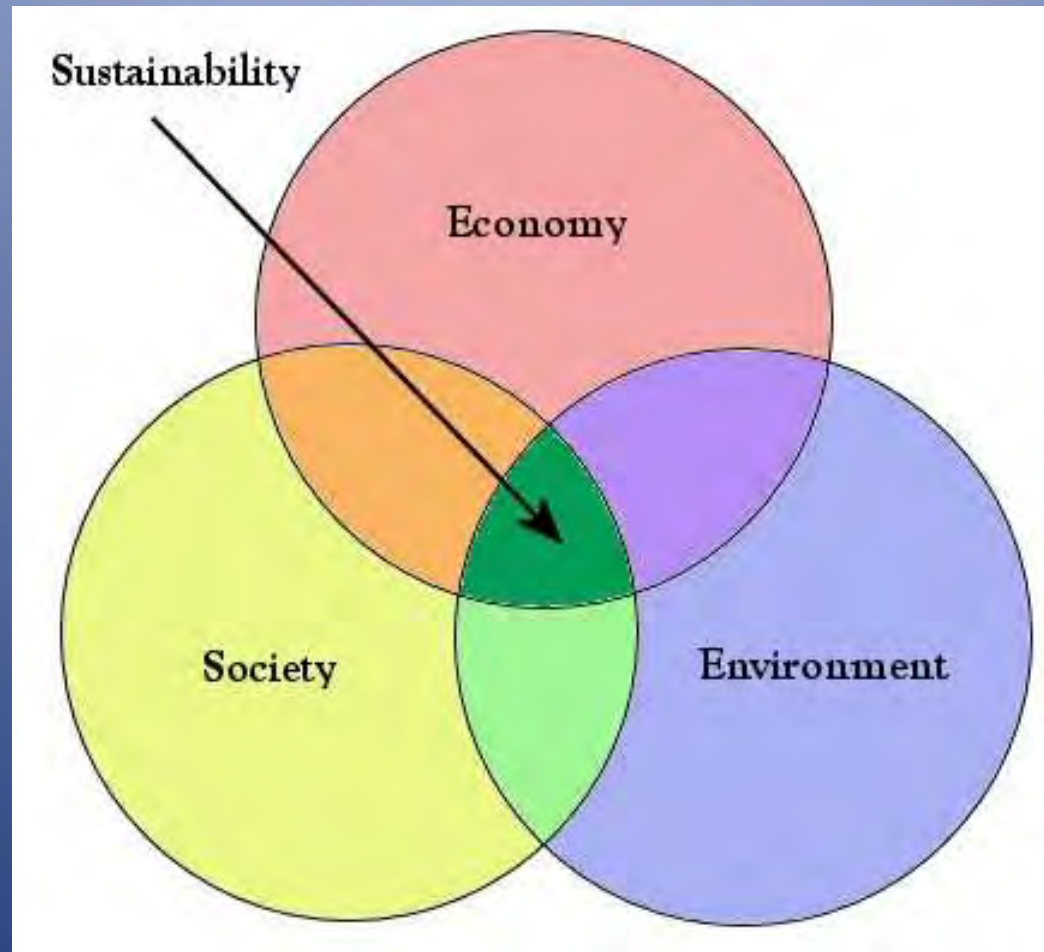
Organic

A seedling market
rises to mainstream
36

SPECIAL SECTION
FROM START
TO
FITNESS
PAGE 41

Costco breakfast bakery 79 Special Section: Furniture 89 Kirkland Signature™ Light Beer 119

Regeneration of Soil Health



Short Term
vs.
Long Term
Profits

Health care cost
vs.
Nutrient Dense
Safe Foods

Degrading soil
health &
water quality
vs. Healthy
Soils.

N-T-Crimp has taken Doudlah Farms to
Organics-providing nutrient dense safe
humanely raised food!



What's your one Thing?

*"A nation
that destroys
its soil
destroys itself."*

-FDR

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