The Water Summit – Farmer Perspectives August 15, 2019 Rodney Rulon

Farming Since 1869

RULON

Our Cropping System: PRODUCTIVE & SUSTAINABLE

- -4th Generation family farm
- -North Central Indiana
- -100% No-Till since 1989
- -90% CB Rotation, 10% CAC
- -15 years cover crops
- -Liquid Hog manure 320 a/yr (No-Till)
- -1 acre grid management w/ full VRT
- -Conservation is the best economic model
- -We are accountable for what leaves our farm

We are a Legacy Farm







Conservation Legacy

NATIONAL WINNER 2012 Presented by USDA, ASA, NCGA Sponsored by Corn and Soybean Digest







Recognizing the Conservation Achievements of U.S. Soybean Farmers...

National No-Till Innovator Award in 2010 Ag Rep to Indiana Environmental Rules Board National "River Friendly Farm" Award Finalist 2014

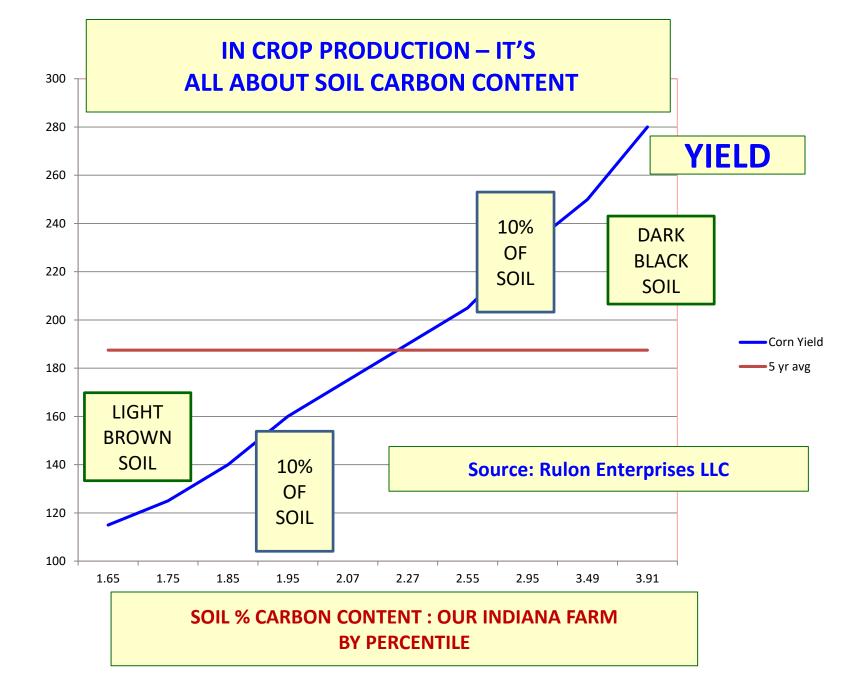
MEET THE NEEDS OF THE PRESENT WITHOUT DIMINISHING THE ABILITY TO MEET FUTURE NEEDS BALANCE: ECONOMIC SOCIAL ENVIRONMENT

SUSTAINABLE IS DIFFERENT FOR EVERY TOWN STATE COUNTRY

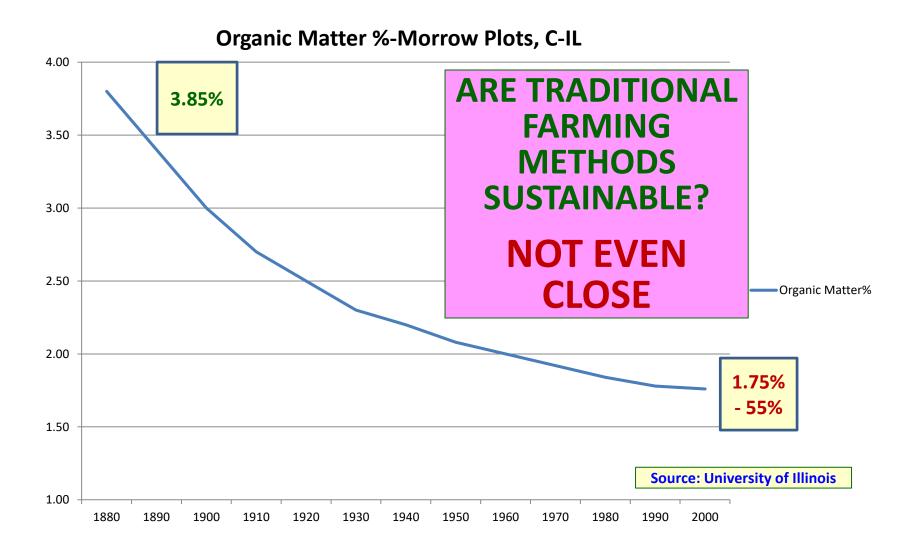


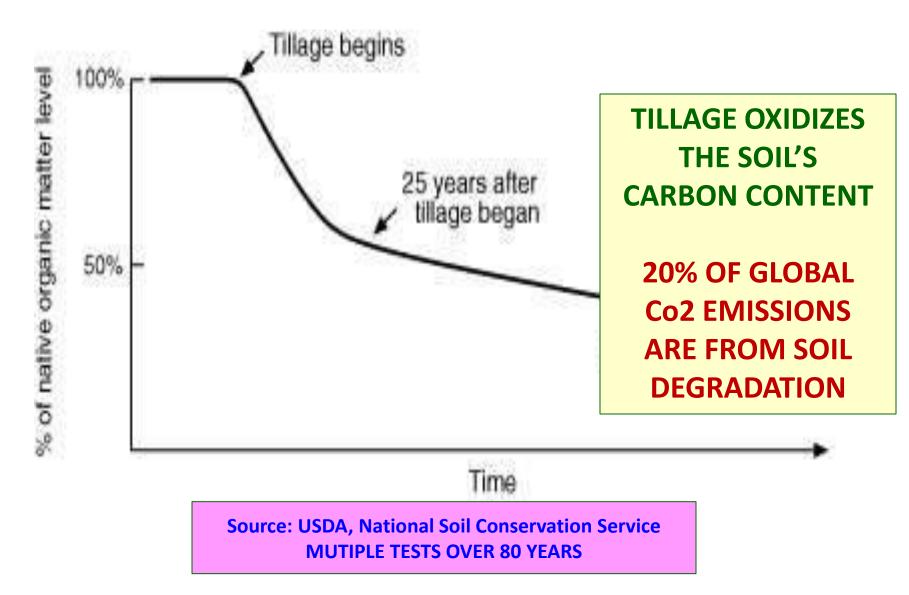
WHAT ABOUT OUR FARM ?

SUSTAINABLE REQUIRES CARBON CAPTURE TECHNOLOGY



MUST MAINTAIN % CARBON CONTENT TO BE SUSTAINABLE



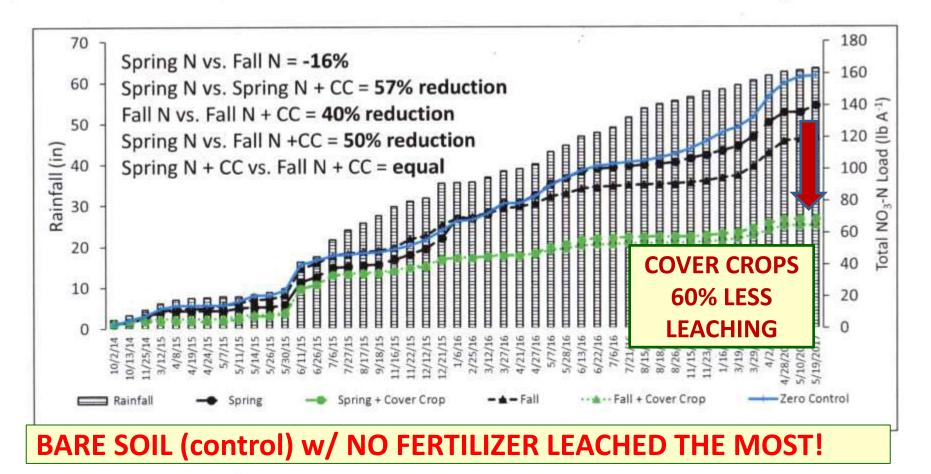


How to be Sustainable:

- Stop Soil Degredation/Increase Soil Carbon
- Be a low cost producer
- Continuous No-Till not rotational
 - Eliminate catastrophic tillage events
 - Allow soil to build structure and biology
 - Plant Cover Crops NO Erosion, NO Bare Soil, STOP leaching of nutrients, Manage Infiltration
 - Utilize New Technology

HOW DO WE STOP NUTRIENT LEACHING?

Cumulative Rainfall and Nitrate Loading



Source: Purdue University Dr. Shalamar Alexander

Healthy Soil is a System



- No-Till (infiltration/OM/cover/biology)
- Cover Crops (rooting/temp/OM/feed biology)
- Soil Carbon/Soil Health
- Drainage (Managing Air/Water)
- Soil Balance (Proper Chemistry-Structure)
- $\square \quad VRT N, P, K, Seed etc.$
- VRT Lime/Gypsum/amendments/Manure
- Variety Selection (Plant health and Yield)
- Integrated Pest Management (IPM)
- On Farm Testing Economic Tracking

What healthy soil returns to us:

- Increased Yield
- Increased Biology (Big and Small)
- Nutrient Efficiency and Cycling
- Drought Tolerance/decreased soil temp/evaporation
- Increased water infiltration/water holding
- Improved Plant Health (reduced disease and insects)
- Improved Structure=Improved Trafficability (Timing)
- Improved Economics/Agronomics



What we do to manage soil Quality:

Cover Crops

Manage for long term soil health-FAST



Cover Crops on Our Farm

- Remove compaction without tillage (Soil repair)
- **Transition from tillage to no-till**
- **Rotational Advantage**
- Take no-till and soil quality/Biology to the next level
- **Trap nitrogen from manure/carryover/soybeans**
- Erosion Control
- **Break disease cycle in CAC**
- Cycle expensive nutrients
- Build Organic Matter/Structure
- **Economics/Agronomics**
- **Grandpa used cover crops and he was pretty smart**

















CAN WE INCREASE SOIL CARBON?

No Contractor

4 WEEKS LATER OATS/RADISHES/RAPESEED/CLOVER COVER CROP

CAN WE INCREASE SOIL CARBON?



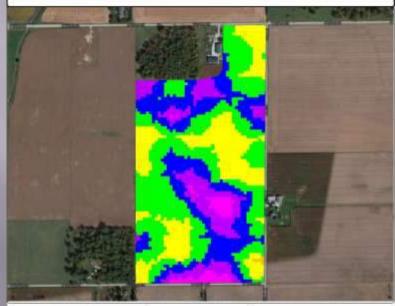
PLANTING CORN INTO GREEN RAPESEED

PLANTING SOYBEANS INTO GREEN RYEGRASS

INCREASE SOIL CARBON CONTENT : AVG = .5%

Organic Matter 2002 vs. 2012 = + 1.1% **2.47** (1.4 to 4.0) **3.58** (1.8 to 6.1)

13Bendi-Hill - Soil Sampling (2002)



Grower : Rulon Enterprises LEC			S	Soil OM	
Farm : 13Bendi-Hill		3.5	0	(%) 10.00(121)
Field : 13All		3.0	0 -	3.50(434)
Operation : Soll Sampling	RULON	2.5	2010	3.00(2.50(1	824)
Average Soil OM : 2,478 %	LATTERPOLISES	1.5		2.00(783)
		0.0		1.50(6) 0)
Maximum Soil OM : 4,000 %					~~*
Minimum Soil OM : 1.400 %	Ag Lender Technology SMIS Ashaevert				Page 1 of

13Bendi-Hill - Soil Sampling (2012)

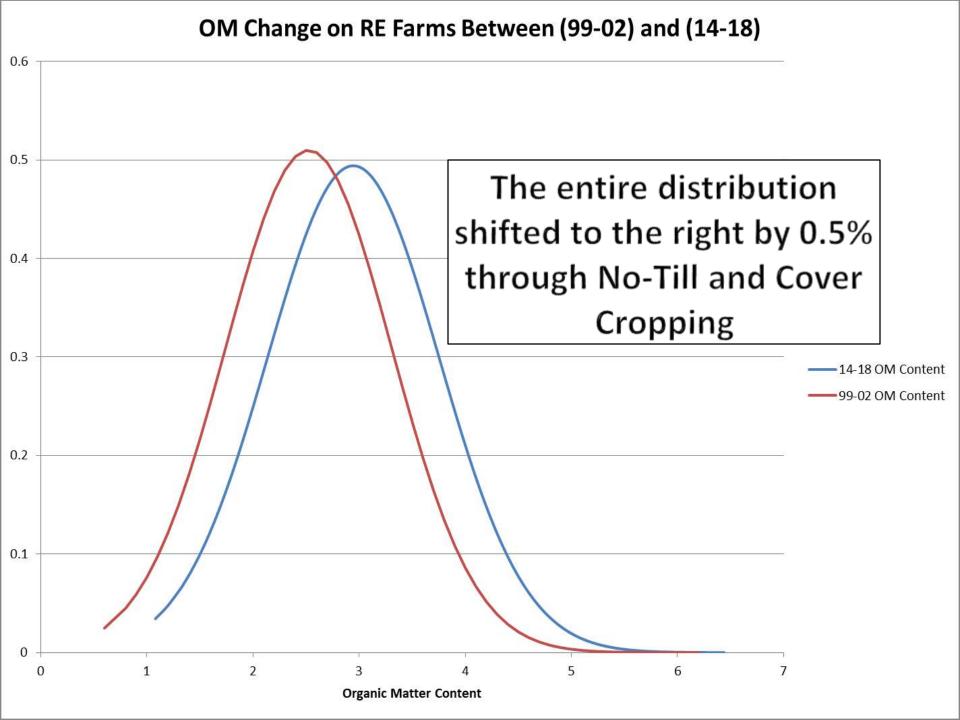


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Soil Sample Percentile Breakdown 6000 Samples 2015-2018

%	TEC	рH	OM	N ib/ac	S ppm	Easy P P205	P1 ppm	Easy P ppm	k ppm	ca %	mg %	К%	na %	Other %	Н%
5%	10.24	5.6	1.89	58	7	46	4	10	78	54.16	7.62	1.33	0.33	4.1	0
10%	11.12	5.8	2.04	61	8	55	6	12	87	59.46	8.4	1.5	0.39	4.3	0
15%	11.83	5.9	2.14	63	8	64	7	14	95	62.38	9	1.61	0.42	4.4	0
20%	12.47	6	2.23	65	9	73	8	16	102	64.32	9.52	1.71	0.46	4.5	1.5
25%	12.99	6.1	2.31	66	10	78	10	17	109	65.9	10.02	1.8	0.49	4.6	3
30%	13.6	6.2	2.4	68	10	87	11	19	114	67.02	10.51	1.89	0.52	4.7	4.5
35%	14.18	6.3	2.49	70	11	96	13	21	120	68.02	10.96	1.97	0.55	4.7	4.5
40%	14.73	6.3	2.59	72	11	105	14	23	127	68.97	11.43	2.05	0.57	4.8	6
45%	15.27	6.4	2.7	74	12	115	16	25	133	69.92	11.89	2,13	0.6	4.9	7.5
50%	15.88	6.5	2.81	76	13	128	18	28	140	70.77	12.39	2.23	0.62	4.9	7.5
55%	16.45	6.5	2.93	79	13	137	21	30	147	71.65	12.83	2.32	0.65	5	9
60%	17.21	6.6	3.04	80	14	156	24	34	154	72.47	13.31	2.41	0.68	5.1	10.5
65%	17.93	6.7	3.17	82	16	174	27	38	162	73.35	13.89	2.52	0.72	5.1	10.5
70%	18.7	6.7	3.3	83	19	192	31	42	171	74.18	14.44	2.62	0.76	5.2	12
75%	19.68	6.8	3.46	85	30	220	38	48	180	75.07	15.05	2.76	0.8	5.2	13.5
80%	20.73	6.9	3.62	86	74	252	46	55	192	75.97	15.75	2.9	0.85	5.4	15
85%	21.96	7	3.83	88	114	293	57	64	206	77.09	16.72	3.07	0.91	5.6	18
90%	23.72	7.1	4.09	91	168	357	75	78	224	78.49	17.88	3.34	0.99	5.8	21
95%	26.56	7.3	4.48	95	246	467	178	102	252	80.42	20.08	3.77	1.1	6.2	27
100%	74.7	8.1	16.36	128	5978	3412	0	745	482	90.15	30.18	7.42	6.45	7.8	49

This chart shows the nutrient values over all of our farms ranked in 5% intervals. We use this chart to help in writing our formulas for seeding rate, N rate, etc.



Rulon E	nterprises LLC	- Cover Cro	p Cost Anal	ysis Fall 2017	
SEED COSTS		Cost/Acre	Acres	Seed Cost	
Mix #1- Early After Soybea	Mix #1- Early After Soybeans		1,300	\$27,027	
Mix #2- Late After Soybear	ns (Oct 10th)	\$15.12	1,300	\$19,656	
Mix #3- Early After Corn		\$14.85	1,300	\$19,305	
Mix #4- Late After Corn (Od	ct 15th)	\$7.25	1,300	\$9,425	
	5,200	S	eed Cost =	\$75,413	
			See	d Cost/Acre =	\$14.50
		• • • •	5 /		
Planting Costs for Seaso	n	Quantity	Rate	Total Cost	
Tractor Hours		338	\$59.00	\$19,942	
Labor (40 acres/hr@70%=	28 acres/hr)	185.7	\$17.50	\$3,250	
Fuel		1267.5	\$3.05	\$3,866	
Planter Repairs/Wear		5,200	\$3.00	\$15,600	
Total Other Costs	Acres =	5,200		\$42,658	
					• • • • •
			Planting	g Cost/Acre =	\$8.20
	Т	otal Cover C	Crop Cost =	\$118,071	
		Total	Cost/Acr	e Planted =	\$22 71
		i otai	UUSUACIO		ΨΖΖ.ΙΙ

Rulon En	terprises LL	C Cover (Crop Ben	efits Fall 201	17
			Per acre	Acres	Total Benefit
Fertilizer Saved-P&K (20#P@	\$.38 + 30#K@\$.225)	\$14.35	5,200	\$74,620
Fertilizer Saved-N (35#/Aci			\$7.35	2,600	\$19,110
Corn Yield (4yearsx64strips	Plot Data: 7.1	bu@\$4)	\$28.40	2,600	\$73,840
Soybean Yield Increase (1.	95bu@\$10)		\$19.50	2,600	\$50,700
TOTAL	ANNUAL E	BENEFIT=	\$41.98		\$218,270
Drought Tolerence (2004-17:	30 bu every 5th	=6 Bu@\$4)	\$24.00	2,600	\$62,400
Carbon Content (5.35bu/.1	of OM x 50% =	2.7bu@\$4)	\$10.80	5,200	\$56,160
Erosion Reduction (2 ton/ac	cre @ \$4)		\$8.00	5,200	\$41,600
CSP Program Payment (\$4	0,000)		\$7.69	5,200	\$40,000
TOTAL LO	NG-TERM E	BENEFIT=	\$50.49		\$200,160
	То	tal Cov	er Crop	Benefit =	\$418,430
		Net Ec	onomic	Return =	\$300,359
ROI = 254%		Net Pro	fit/Acre I	Planted =	\$57.76

2018 CCSI Cover Crop/N Rate

Year	Cover	Rep1	Rep2	Avg	Rank	Advantage	Field Averag
2012	Annual Rye		63.4	63.4	1	5.3	60.20
	Cereal Rye	<i>ie</i>	59.8	59.8	2	1.7	
	Oats/Radish	27	59.5	59.5	3	1.4	
	No Cover	2	58.1	58.1	4		
2014	Oats/Radish	76,3	72.7	74.5	1	2.95	73.43
	Cereal Rye	72.8	75.4	74.1	2	2.55	
	Annual Rye	72.3	74.8	73.55	3	2	
	No Cover	73.5	69.6	71.55	4		
2016	Oats/Radish	68.4	67.8	68.1	1	8.0	63.93
	Cereal Rye	66	62.9	64.5	2	4.3	
	Annual Rye	64.7	61.3	63.0	3	2.9	
	No Cover	64.3	56	60.2	4		
2018	Oats/Radish	67,6	72.5	70.1	1	3.7	68.65
	Cereal Rye	66	72.4	69.2	2	2.9	
	Annual Rye	67.9	70.2	69.1	3	2.7	
	No Cover	67.4	65.22	66.3	4		
					Average	3.36	

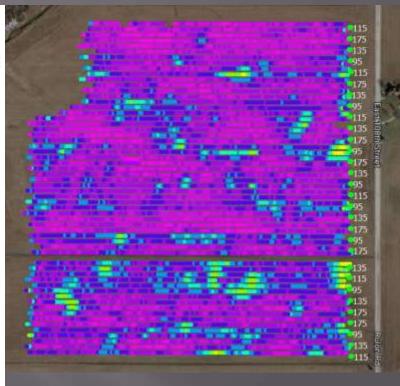
Cover Crop Yield +3.36 bu/ac Oats/Radish +4.01 bu/ac

Cover Crop vs N Rate Study - Bean Average Yields

Overall Yield	Advantage:
Oats/Radish	= 4.01 bu/ac
Cereal Rye	= 2.86 bu/ac
Annual Rye	= 3.23 bu/ac

2017 CCSI Cover Crop/N Rate Harvest Data

over Crop vs N Rate Study 2017						
Nitrogen Rate	Cover	Repi	Rep2	Ave	Rank	AVG For N Rat
95	Oats/Radish	195.53	208.95	202.24	1	195.45
	No Cover	191.24	207.30	199.27	2	
	Cereal Rye	189.94	198.40	194.17	3	
	Annual Rye	181.90	190.32	186.11	. 4	
115	Oats/Radish	230.34	222.88	216.51	1	206.72
A RADA	Annual Rye		207.25	207.25	2	090(3)/2/62
	No Cover	197.74	214.99	206.37	3	
	Cereal Rye	183.37	210.64	197.01	4	
135	Oats/Radish	221.98	228.78	225.38	1	217.24
Ceeline.	No Cover	215.27	221.97	218.62	2	10106/125
	Annual Rye	206.62	218.51	212.56	3	
	Cereal Rye	194.82	218.82	206.82	1	
175	Oats/Radish	229.86	233.66	231.70	- 1	220.45
100094-016	Cereal Rye	217.53	216.67	217.10	2	Selfilless.
	Annual Rye	213.92	219.38	216.65		
	No Cover	212.73	215.99	214.36	-	
Other N Credits	Total N Applied	8				
30# from planter	95 + 30= 125#	2				
	115 + 30= 145#					
	135 + 30= 165#					
	175 + 30= 205#					

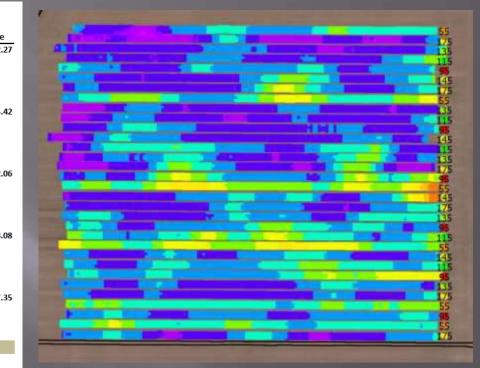


Cover Crop Yield +0.5 bu/ac Oats/Radish +10.26 bu/ac

Final Yield Average:Oats/Radish= 219.32 bu/acCereal Rye= 205.03 bu/acAnnual Rye= 204.25 bu/acNo Cover= 209.06 bu/ac

2015 CCSI Plot Harvest Data

Cover Crop vs I	N Rate Study 2015					
Nitrogen Rate	Cover	Rep1	Rep2	Avg	Rank	AVG For N Rate
55	Oats/Radish	150.66	169.4	160.03	1	142.2
	Cereal Rye	155.65	146.48	151.07	2	
	Annual Rye	137.05	125.82	131.44	3	
	No Cover		126.55	126.55	4	
95	Cereal Rye	164.89	187.1	176.00	1	165.4
	Oats/Radish	154.48	180.07	167.28	2	
	Annual Rye		162.26	162.26	3	
	No Cover	143.78	168.5	156.14	4	
115	Cereal Rye	171.9	195.26	183.58	1	172.0
	Oats/Radish	163.82	185.32	174.57	2	
	Annual Rye	174.9	171.35	173.13	3	
	No Cover	159.83	154.12	156.98	4	
135	Cereal Rye	184.35	196.58	190.47	1	184.0
	Oats/Radish	184.37	192.86	188.62	2	
	No Cover	182.17	175.5	178.84	3	
	Annual Rye	173.53	183.25	178.39	4	
175	Oats/Radish	187.12	203.39	195.26	1	187.3
	Annual Rye	186.29	187.65	186.97	2	
	No Cover	184.7	183.69	184.20	3	
	Cereal Rye	184.94	181	182.97	4	
Other N Credits	Total N Applied					
30# from planter	55 + 80 = 135#					
50# Soybeans	95 + 80 = 175#					
	115 + 80 = 195#					
	135 + 80 = 215#					
	175 + 80 = 255#					



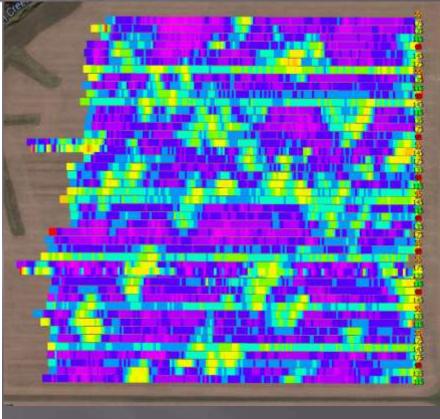
Final Yield A	verage:
Oats/Radish	= 177.1 bu/ac
Cereal Rye	= 176.8 bu/ac
Annual Rye	= 166.9 bu/ac
No Cover	= 164.3 bu/ac

Cover Crop Yield + 12.8 bu/ac

2013 CCSI Cover Crop/N Rate Harvest Data

Cover Crop vs N Rate Study 2013

Nitrogen Rate	Cover	Rep1	Rep2	Avg	Rank	AVG For N Rate
55	Oats/Radish		153	153	1	149.56
	Annual Rye	148.9	155.6	152.3	z	
	No Cover	148.8	150.4	149.6	3	
	Cereal Rye	139	147.8	143.4		
95	Oats/Radish		203.7	203.7	1	183.40
	Annual Rye	180.8	178.8	179.8	2	
	Cereal Rye	172.6	180.6	176.6	a	
	No Cover	173.3	173.7	173.5		
115	Oats/Radish	193.7	187.2	190.5	-1-	184.05
	Cereal Rye	192.5	175.7	184.1	2	
	Annual Rye	161.7	183.2	182.5	3	
	No Cover	168.5	189.9	179,2	i.	
135	Oats/Radish	204.8	193.1	199.0	T	189.81
	Cereal Rye	194.6	189.1	191.9	2	
	Annual Rye	181.6	191.7	185.7	3	
	No Cover	178.1	185.5	181.8	<u>_</u>	
175	Oats/Radish	208.4	194.4	201.4	1	190.90
	Annual Rye	190.3	190.5	190.4	2	12000000
	Cereal Rye	182.8	193.1	188.0	3	
	No Cover	173.3	194.4	183.9		
Actual N Applied	Total N Applied					
30# N on planter	55 + 30= 85#					
78	95 + 30= 125#					
	115 + 30= 145#					
Total N Rate	135 + 30= 165#					



Cover Crop Yield + 7.1 bu/ac

Final Yield Corn/Oats+Radish = 190.5 Final Yield Corn/Rye = 187.6 Final Yield Corn/No Cover = 183.4

2011 CCSI Cover Crop/N Rate Harvest Data

Nitrogen Rate	Cover	Rep1	Rep2	Ave	Bank	AVG For N Rate
0	Annual Rge	110.5	109.5	109.98	1	105.00
	No Cover	108.4		108,43	2	
	Oats/Radish	101.6	114.2	107.89	3	
	Cereal Rye	94.0	93.4	93.69		
65	No Cover	148.3	150.4	149.33	1	143.56
	Annual Rye	140.1	148.4	144.25	2	
	Oats/Radish	136.8	148.4	142.6	3	
	Cereal Rye	135.9	140.2	138.05		
112	Armual Ryc	149.8	162.4	156.11	-1	154.49
	Cereal Rye	154.5	157.5	155.97	2	
	Oats/Radish	151.9	159.4	155.63	3	
	No Cover	141.5	159.0	150.27		
150	Annual Ryc	149.9	173.9	161.91	1	153,03
	Oats/Radish	141.9	172.9	157.42	2	
	Cereal Ryc	141.9	153.4	147.61	3	
	No Cover	145.2		145.19	4	
160	No Cover	155.t	176.3	166.17	1	162.06
	Osts/Radish	158.9	169.3	164.12	2	
	Armunal Ryre	156.0	164.7	160.1	- 3	
	Cereal Rys	160.9	154.9	157.87		
206	Oets/Radish	160.5	180.2	170.34	_ <u>a</u>	362.54
	Annual Rye	155.5	169.6	162.56	2	
	No Cover	145.4	173.2	159.29	- 3	
	Cereal Rye	148.3	166.0	157.18		
Actual N Applied	Total N Applied					
30# N on planter	0 * 30= 30#					
	65 + 30= 95#					
	112 + 30= 142#					
	150 + 30= 180#					
	160 + 30= 190#					
	206 + 30= 236#					

Cover Crop vi N Rate Study 2011

Cover Crop Yield WITH 0 & 60# Rates: -5.9 bu/ac

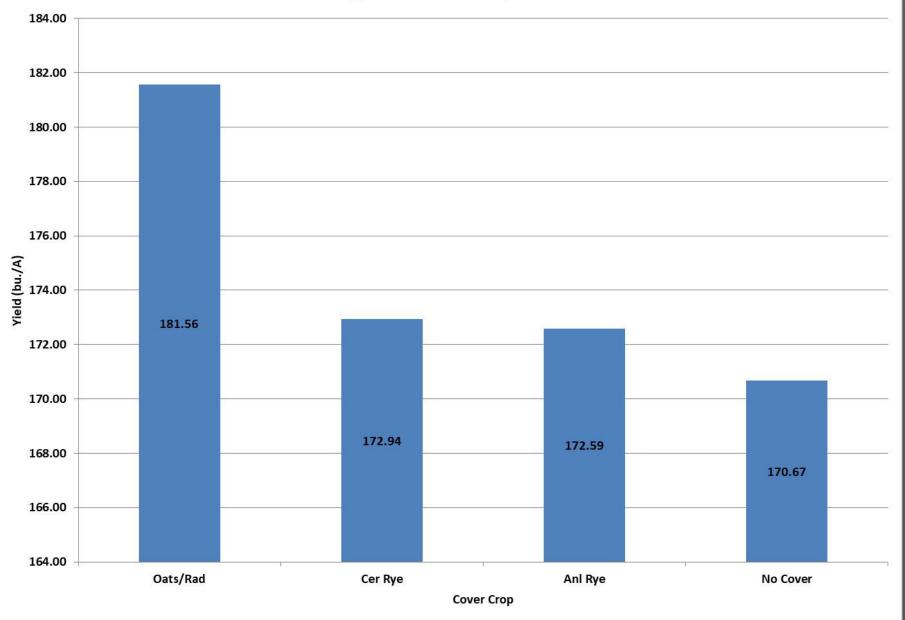
Cover Crop Yield EXCLUDING 0 & 60# Rates: +2.5 bu/ac

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Final Yield Average:

Oats/Radish	= 147.95 bu/ac
Cereal Rye	= 140.55 bu/ac
Annual Rye	= 146.33 bu/ac
No Cover	= 150.87 bu/ac

Average Corn Yield w/o N Rate



2012, 2014, 2016 CCSI Plot Soybean Harvest Data Summary

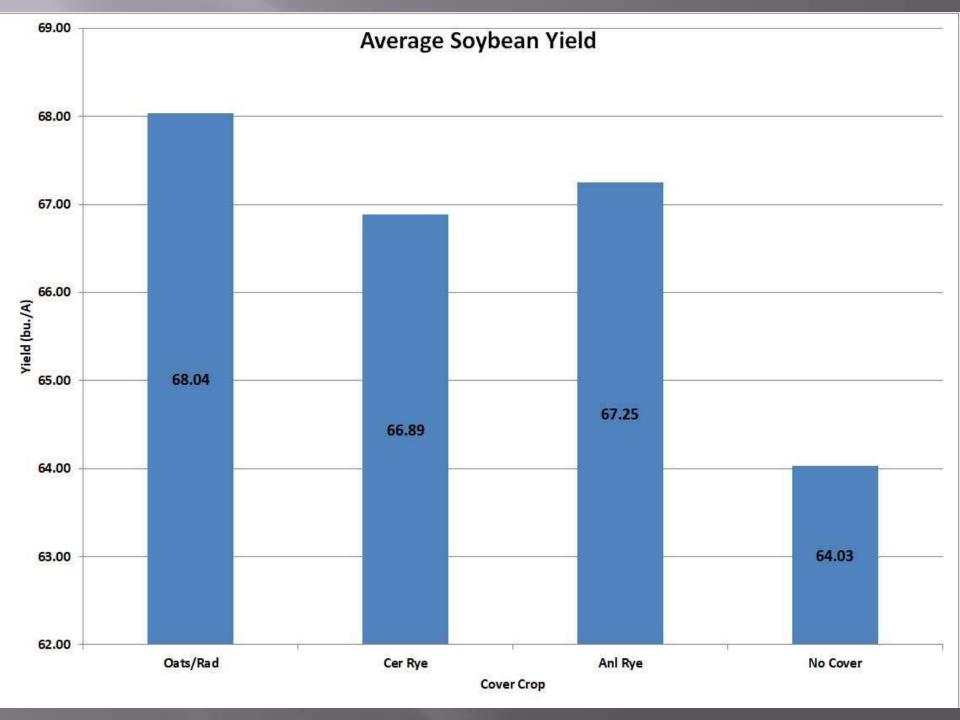
Cover Crop vs N Rate Study - Bean Average Yields

Year	Cover	Rep1	Rep2	Avg	Rank	Field Average
2012	Annual Rye	-	63.4	63.4	1	60.20
	Cereal Rye	-	59.8	59.8	2	
	Oats/Radish	-	59.5	59.5	3	
	No Cover	-	58.1	58.1	4	
2014	Oats/Radish	76.3	72.7	74.5	1	73.43
	Cereal Rye	72.8	75.4	74.1	2	
	Annual Rye	72.3	74.8	73.55	3	
	No Cover	73.5	69.6	71.55	4	
2016	Oats/Radish	68.4	67.8	68.1	1	63.93
	Cereal Rye	66	62.9	64.5	2	
	Annual Rye	64.7	61.3	63.0	3	
	No Cover	64.3	56	60.2	4	

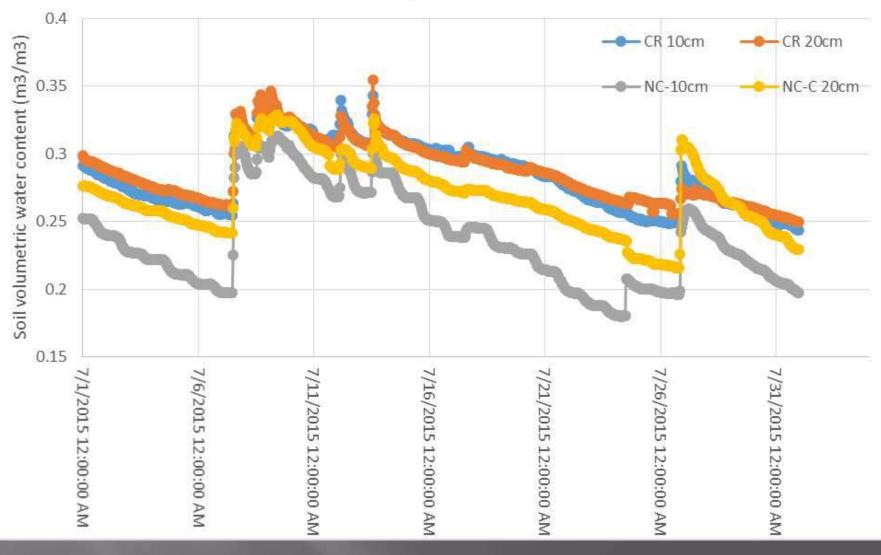
*Rep #1 in 2012 was harvested by 2 different combines and data was too inaccurate to summarize.

Cover Crop Yield + Up To 7.9 bu/ac Over No Cover in Long term test

2012 Annual Rye	= +5.3	bu/ac
2014 Oats/Radish	= +2.95	bu/ac
2016 Oats/Radish	= +7.9	bu/ac
Three Year Avg	= +5.4	bu/ac



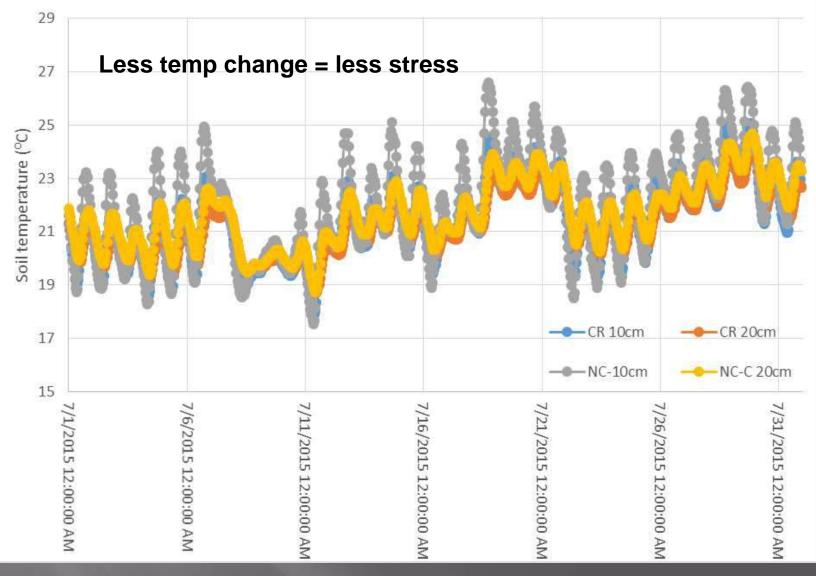
Rulon July Soil Moisture



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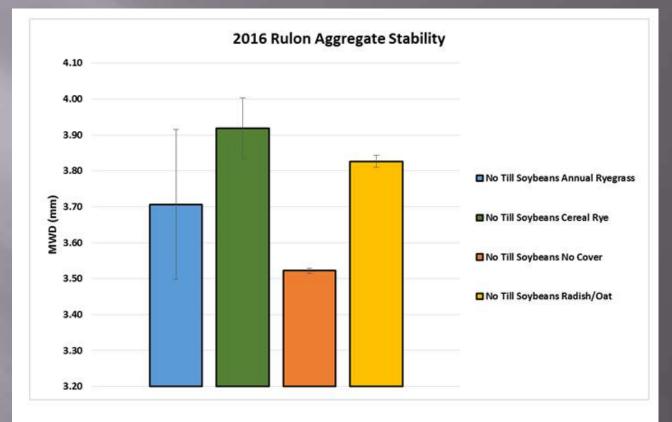


Rulon July Soil Temperature



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Date	Management	Cash Crop	Cover Crop	Plot#	MWD	Treatment MWD	Standard Deviation	Standard Error
2016 No Till	No Till	Soybeans	Annual Ryegrass	RR3	3.50	3.71	0.29	0.21
				RR7	3.91			
2016 No 1	No Till	Soybeans	Cereal Rye	RR2	3.83	3.92	0.12	0.08
	an er maratan.	and the second s		RR6	4.00			
2016 N	No Till Soybea	Soybeans	oybeans No Cover	RR4	3.52	3.52	0.01	0.01
				RR8	3.53			
2016	No Till	Soybeans	Radish/Oat	RR1	3.81	3.83	0.02	0.02
				RR5	3.84			

Dr. Eileen Kladivko Agronomy Department



THANK YOU!!

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Rodney Rulon rodney@rulonenterprises.com

www.rulonenterprises.com