

A photograph of a lush green field of inter-seeded cover crops. The plants are dense and vibrant green, filling the foreground and middle ground. In the background, a rolling green hill rises under a clear blue sky. On the crest of the hill, there is a large silver metal grain silo with a conical roof, a smaller dark building, and some utility poles. The overall scene is bright and sunny, suggesting a clear day.

Inter-Seeding Cover Crop



Year 1 Soybeans

Year 2 Small Grain

Year 3 Corn

Cover Crop Seed

- - Radish

- - Oats

- - Clover

- - Hairy Vetch

Picture Date: October 2nd 2014



**Cover crop
Planted 2014 July 20th**

Picture Date: 2014 October 12th

October 12th



October 12th



Cover Cropped Soil



No Cover Crops - Soybean Ground

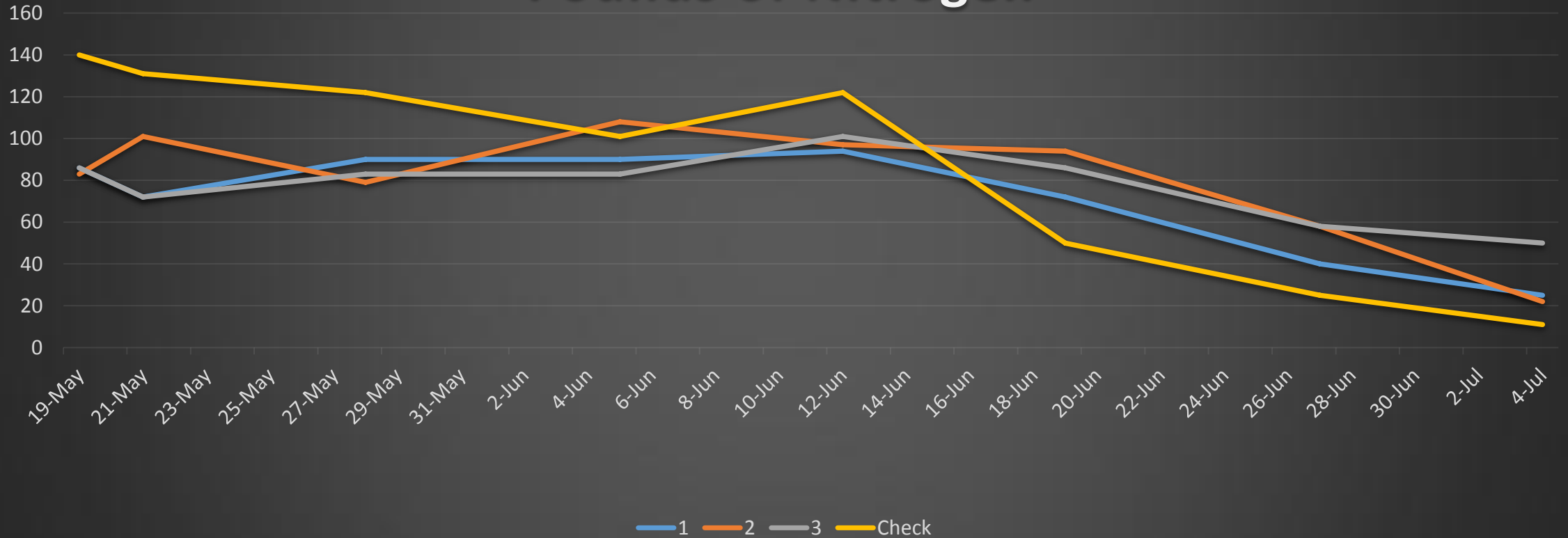


Corn Planted April 25th Into Cover Crops

Rye Cover Crop
Going to Corn

50 lbs. 32% pre plant

Pounds of Nitrogen



Sample 1,2,3 - Where of the Cereal Rye harvested and then cover cropped in July and planted to Corn in 2014. There was only 50 pounds total N of 32% applied in the spring.

Check- Rye cover cropped and 150 pounds of 32% were applied in the spring after soybeans in 2014

REPORT OF ANALYSIS - PERCENT										PARTS PER MILLION					
SAMPL E ID / LAB NUM	DATE ANALYZE D	CROP / STAG E	N NITROGE N	P PHOS- PHORU S	K POTAS - SIUM	Mg MAG- NESIU M	Ca CALCIU M	S SULFU R	Na SODIU M	Fe IRON	Mn MANGA - NESE	B BORO N	Cu COPPE R	Zn ZIN C	NO ₃ -N NITRATE NITROGE N
1-B	June 5, 2015	CORN V6, 3 Week, 6 Leaves	5.53	0.61	4.41	0.17	0.64	0.36	0.002	191	63	7	13	35	
3363928			E	H-E	H	L	S	S-H	S	S	L-D	D	S-H	S	
NORMS			4.250	0.420	3.200	0.300	0.600	0.290	0.008	175.00	95.00	12.00	11.00	33.00	
2-T	June 5, 2015	CORN V6, 3 Week, 6 Leaves	5.57	0.51	4.26	0.17	0.63	0.35	0.001	298	77	6	10	32	
3363929			E	S-H	H	L	S	S-H	S	H	L	D	S	S	
NORMS			4.250	0.420	3.200	0.300	0.600	0.290	0.008	175.00	95.00	12.00	11.00	33.00	

- **Tissue Samples Taken on June 5th 2015**
- **Cereal Rye in 2014 and then cover cropped in July**
- **Planted into Corn with 50 lbs. of nitrogen**

REPORT OF ANALYSIS - PERCENT										PARTS PER MILLION						
SAMPLE ID / LAB NUM	DATE ANALYZED	CROP / STAGE	N NITROGEN	P PHOSPHORUS	K POTASSIUM	Mg MAGNESIUM	Ca CALCIUM	S SULFUR	Na SODIUM	Fe IRON	Mn MANGANESE	B BORON	Cu COPPER	Zn ZINC		
GN6-8	July 16, 2015	CORN VT, 8 Weeks, Tassel	3.69	0.38	2.93	0.17	0.50	0.20	0.002	132	42	1	11	19		
3391214			H	S-H	H	S-L	S	S	S	S-H	L-D	D	S-H	L-D		
NORMS			3.250	0.320	2.150	0.280	0.550	0.230	0.005	120.00	65.00	12.00	10.00	26.00		

- Cereal Rye in 2015 and cover cropped in July
- 50 pounds of nitrogen applied in the spring
- nitrate soil test are showing up higher then where we applied 150 lbs. of nitrogen
- 66% and 75% of normal use around our area of 200 lbs./acre.

**201 Bushel Corn – 50 lbs of
nitrogen**



**205 Bushel Corn – 150 lbs
of Nitrogen**





Inter seeding Cover Crops into
Standing V3 Corn

Herbicide Program

- Pre- 1.5 ounces of Balance Flex
- Pre - $\frac{1}{2}$ rate Sharpen



















Tissue Test July 20th

REPORT OF ANALYSIS - PERCENT										PARTS PER MILLION					
SAMP LE ID / LAB NUM	DATE ANALYZ ED	CRO P / STA GE	N NITROG EN	P PHOS- PHOR US	K POTA S- SIUM	Mg MAG- NESIU M	Ca CALCI UM	S SULF UR	Na SODIU M	Fe IRO N	Mn MANG A- NESE	B BOR ON	Cu COPP ER	Zn ZIN C	NO ₃ -N NITRAT E NITROG EN
GR6-8	July 16, 2015	COR N VT, 8 Week s, Tass el	3.22	0.31	1.97	0.44	0.71	0.17	0.003	136	80	2	11	19	
33912 12			S	S	S-L	H-E	H	L	S	S-H	S-H	D	S-H	L-D	
NORMS			3.250	0.320	2.150	0.280	0.550	0.230	0.005	120. 00	65.00	12.00	10.00	26. 00	

Fall

African Cabbage

Annual Rye

Clover







7 trials 21 different Seeds

1	
WS Legume	
Seeding Rate	41 lbs/Acre
	%
Iron & Clay Cowpeas	15%
Grp 7 Stonewall Soybeans	15%
Mung Beans	10%
Spring Oats	49%
Buckwheat	12%

190
bushels

191.08

2	
Grass 1	
Seeding Rate	20 lbs/acre
	%
Clover Red	26%
Annual Rye- Winter Hawk	64%
Nitro Radish	10%

180.47

3	
Grass 2	
Seed Rate	20 lbs/acre
	%
Clover Crimson	26%
KB Royal	64%
Rapeseed Trophy	10%

190.16

4	
Grass 3	
Seed Rate	20 lbs/acre
	%
Clover-Balance	5%
Hairy Vetch	21%
Annual Ryegrass	64%
Broadleaf Mustard	10%

197.5

5	
Grain 1	
Seed Rate	39 lbs/acre
	%
Clover Hubam	5%
Common Vetch	13%
Cereal Rye Aroostock	77%
impact forage collards	5%

203.91

6	
Grain 2	
Seed Rate	38 lbs/acre
	%
Clover Yellow Sweet	5%
Spring Lentils- Indian Head	11%
Cereal Rye-Elbon South	79%
African Cabbage	5%

195.28

7	
Perennial Mix	
Seed Rate	20 lbs/acre
	%
Alfalfa	10%
Clover Red	15%
Hairy Vetch	15%
Orchard Grass Tucker	26%
Tall Fescue	26%
Meadow Brome	13%

185.78

8	
KB Royal Annual Rye	
Seeding Rate	25 lbs/acre

190.62

What's Next?