

2008 Headline fungicide treatment

Wheat, Corn, Soybeans,&
Milo

Equipment

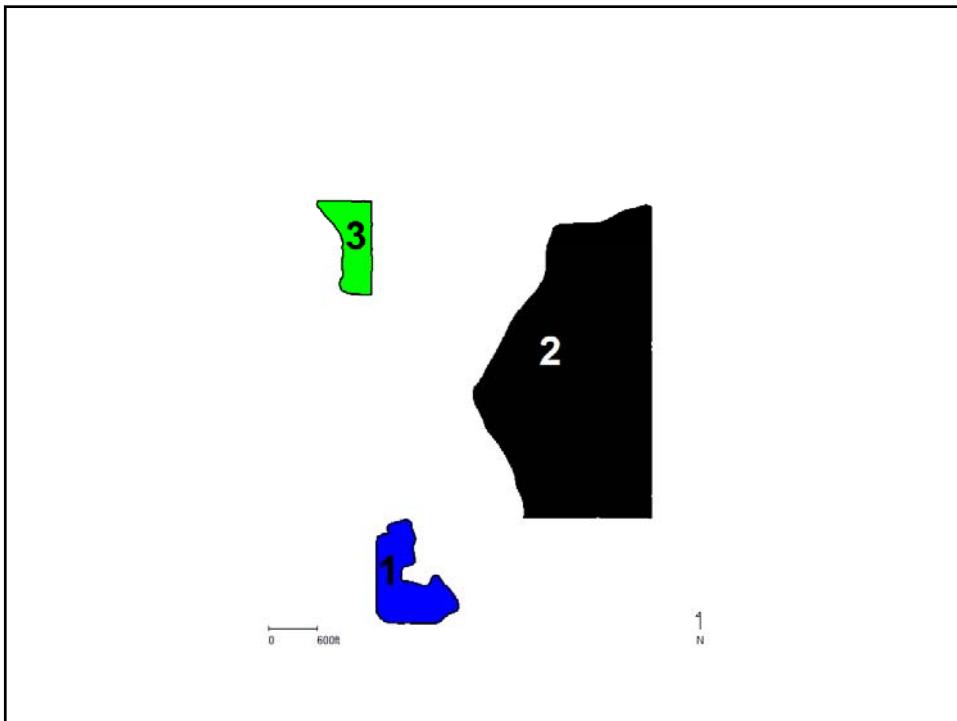
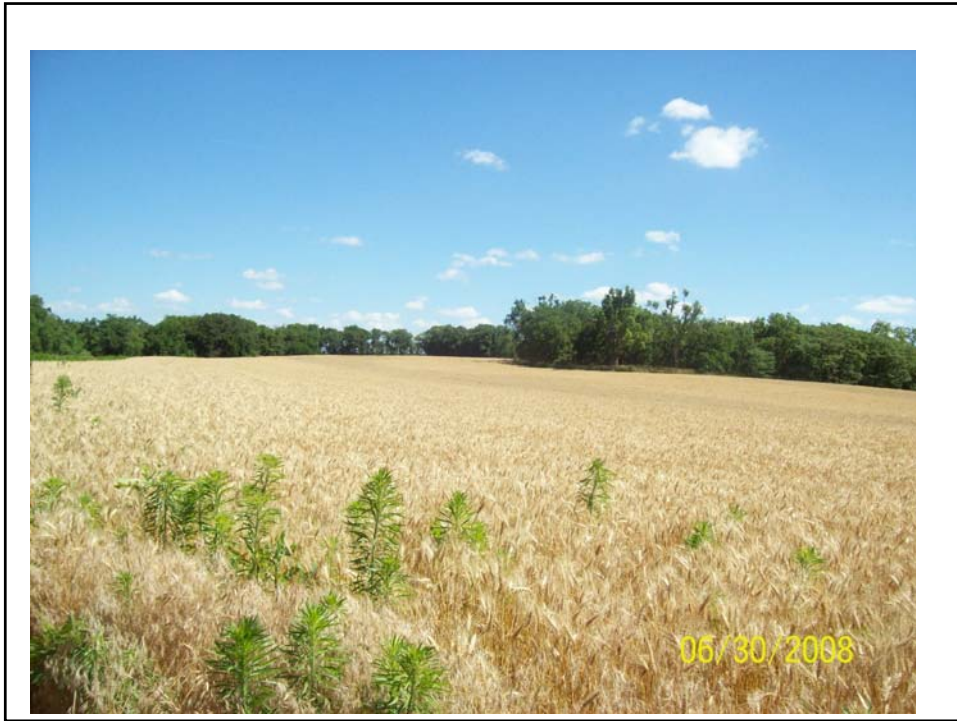
- Walker self propelled 90 ft front boom sprayer
- Agleader Insight to log planter data
- RTK auto steer
- Agco R75 with 30ft header or 12x30 corn head
- Agco fieldstar to log yield data
- Agleader SMS to analysis data

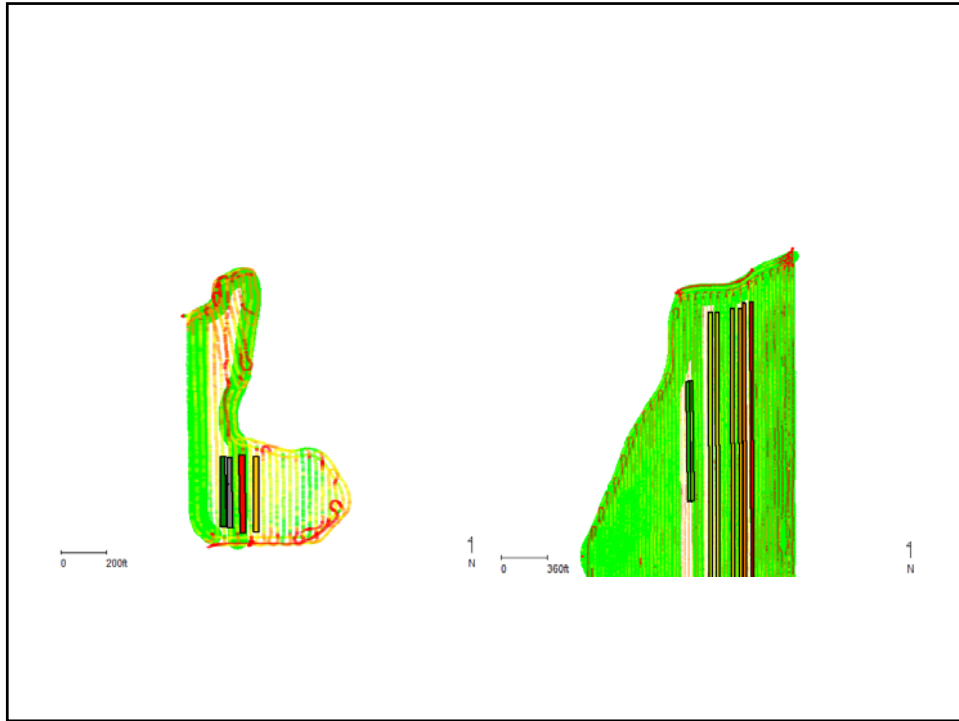
Application Method

- Strips of headline were either applied or left unapplied on several fields with a ground sprayer

Wheat

- An application of headline 6 oz & bumper of 2 oz with 5oz of liberate as the surfactant was applied the end of May at heading





Headline	no treatment	Difference	
63.51	57.21	6.3	Field 1
61.29	60.27	1.02	Field 1
59.19	54.72	4.47	Field 2
59.23	56.59	2.64	Field 2
59.16	56.88	2.28	Field 2
56.18	56.07	0.11	Field 2
50.73	49.25	1.48	Field 3

Other observations

- We had several fields with treated and non treated areas and on the yield maps the treated areas appeared to have higher yields
- We also felt that the treatment delayed harvest a couple of days

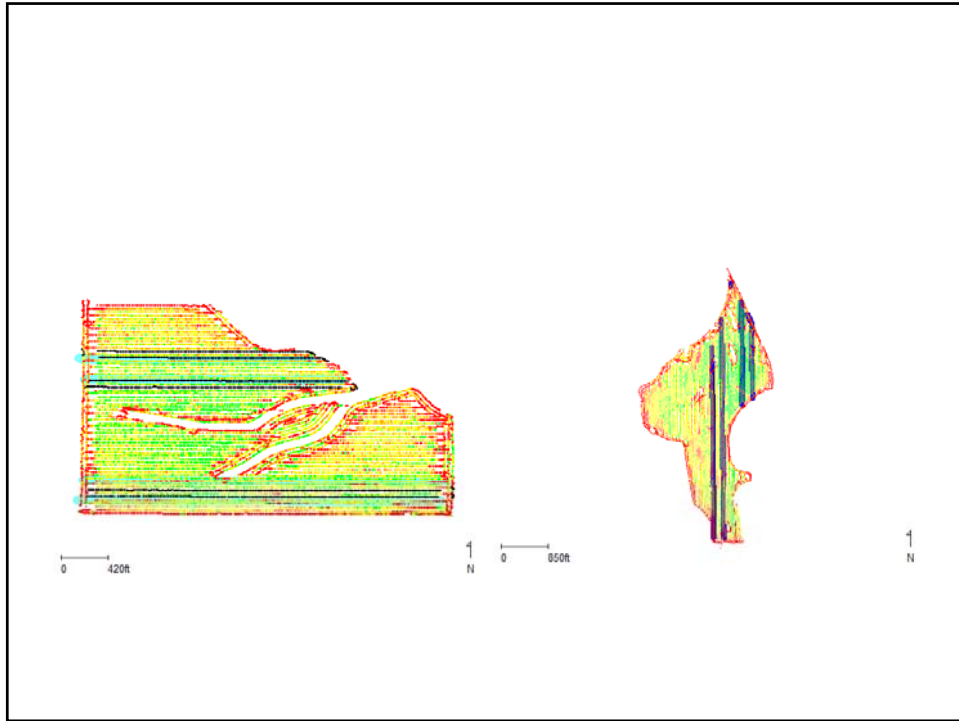
Conclusion

- Cost of headline at 6oz with 2oz of bumper was \$13.84 per acre (\$10.50, \$3.34)
- Wheat at \$5.54 (Jan.19th price)
- You need 2.5 bu. Increase
- So at a 2.6 bu. Average increase it paid for chemical costs but no application

Questions about wheat

Milo

- 6 oz of headline with 5oz of liberate (surfactant) was sprayed with a front boomed self propelled sprayer with insight auto swath on Aug. 7th boot stage



Headline	None		Difference
141.5	140.8		0.7
140.2	147.5		-7.3
146.1	149.3		-3.2
150.7	145		5.7
153.5	145.3		8.2
159.6	158.9		0.7
157.5	155.6		1.9
132.5	131.2		1.3
135.5	139.7		-4.2
		Average difference	0.422222

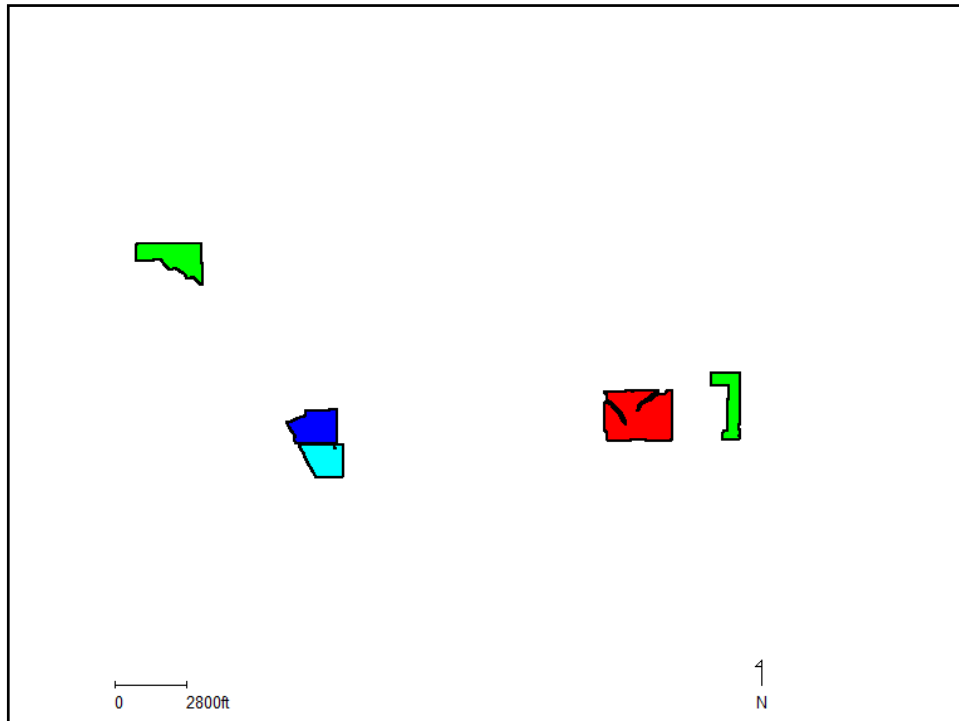
Conclusion

- Headline on good yielding milo does not pay

• Questions on milo

Soybeans

- 6 oz of headline with 5oz of liberate (surfactant) was sprayed with a front boomed self propelled sprayer with insight auto swath the first week of Aug.
- We also applied the mix with roundup O-Max



Head	None		Difference	
64.4	62.2		2.2	
67.2	62.6		4.6	
68.3	61.3		7	
62.4	60.1		2.3	
59.8	61.3		-1.5	2.92
65	63.9		1.1	
66.2	60.5		5.7	3.4
65.2	65.3		-0.1	
65.4	64.5		0.9	
67	64.8		2.2	
58.3	59.8		-1.5	
57.9	58.1		-0.2	0.26
68.7	68		0.7	
61.8	59.1		2.7	
62.2	58.2		4	
60.7	59.2		1.5	
60.8	58.5		2.3	2.625
		Ave. difference	1.99	

Conclusion

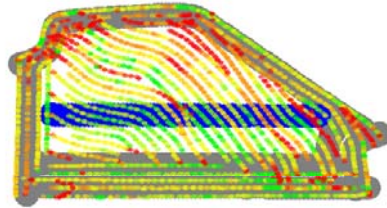
- Cost of headline at 6oz is \$10.50 & liberate at 5oz is \$1.05 for a total \$11.55 per acre
- Soybeans at \$9.00
- **Headline on soybeans pays**

Headline and O-Max

Headline & Roundup	None		Difference
66.3	62.4		3.9
61.2	65.1		-3.9
67.7	64.4		3.3
		Average difference	1.1

Conclusion

- Not sure if headline mixed with glyphosate has the same affect as when applied alone
- We had more test but as you can see some planning was not used



Corn

- 6 oz of headline with 5oz of liberate (surfactant) was sprayed with a front boomed self propelled sprayer with insight auto swath after tassel (middle of July)
- We used the AB lines imported from the planting tractor insight (both RTK)
- Also in some field we applied headline (June 30th) one week after a hail storm

SMS analysis

- Side by side 12 rows
- I tried to query each 12 row strip (3) of the 90 ft spray plus the two 12 row strips to the side of the application
- reason I wanted to see if the middle pass where the sprayer drove had a yield drag and the 2 passes out side of the sprayer to see if the first pass had any affects from drift

Side by side			Skip 12 rows		
none	Headline		none	Headline	
12rows	12rows		12 row away	12 rows	
142.3	156.1	13.8	133.8	156.1	22.3
114.1	125.4	11.3	133.8	125.4	-8.4
103	115.3	12.3	105.4	115.3	9.9
156.6	161.9	5.3	136.8	161.9	25.1
168.7	171.2	2.5	166.9	171.2	4.3
					0
158.1	160.1	2	159.1	160.1	1
151.1	160.2	9.1	145.6	160.2	14.6
150.2	149.4	-0.8	143.3	149.4	6.1
118	123.5	5.5	115.6	123.5	7.9
Average difference		6.78	Average difference		8.28

Conclusion

- Cost of headline at 6oz is \$10.50 & liberate at 5oz is \$1.06 for a total \$11.55 per acre
- Corn at \$3.48
- **With a average gain of 6.8 bu. it pays**

Sprayer track compared to next pass both with headline

The sprayer appears to of caused about a 2 bu. loss in yield on 1/3 of the field and at \$3.48 bu. (\$2.32 per acre) and an airplane at \$11.20 (22.75-11.55) an acre it pays to spray it yourself if yield are comparable

	Track				Track	
156.1	150.6	-5.5		120.5	122.3	1.8
125.4	123.4	-2.0		121.2	122.3	1.1
115.3	123.4	8.1		117.7	116.8	-0.9
161.9	163.0	1.1		122.7	124.5	1.8
171.2	163.0	-8.2		115.6	115.8	0.2
160.1	157.5	-2.6		117.2	115.8	-1.4
160.2	153.9	-6.3		121.4	114.1	-7.3
149.4	141.4	-8.0		120.3	114.1	-6.2
123.5	119.5	-4.0				-2.1
113.3	114.3	1.0				
116.5	114.3	-2.2				