

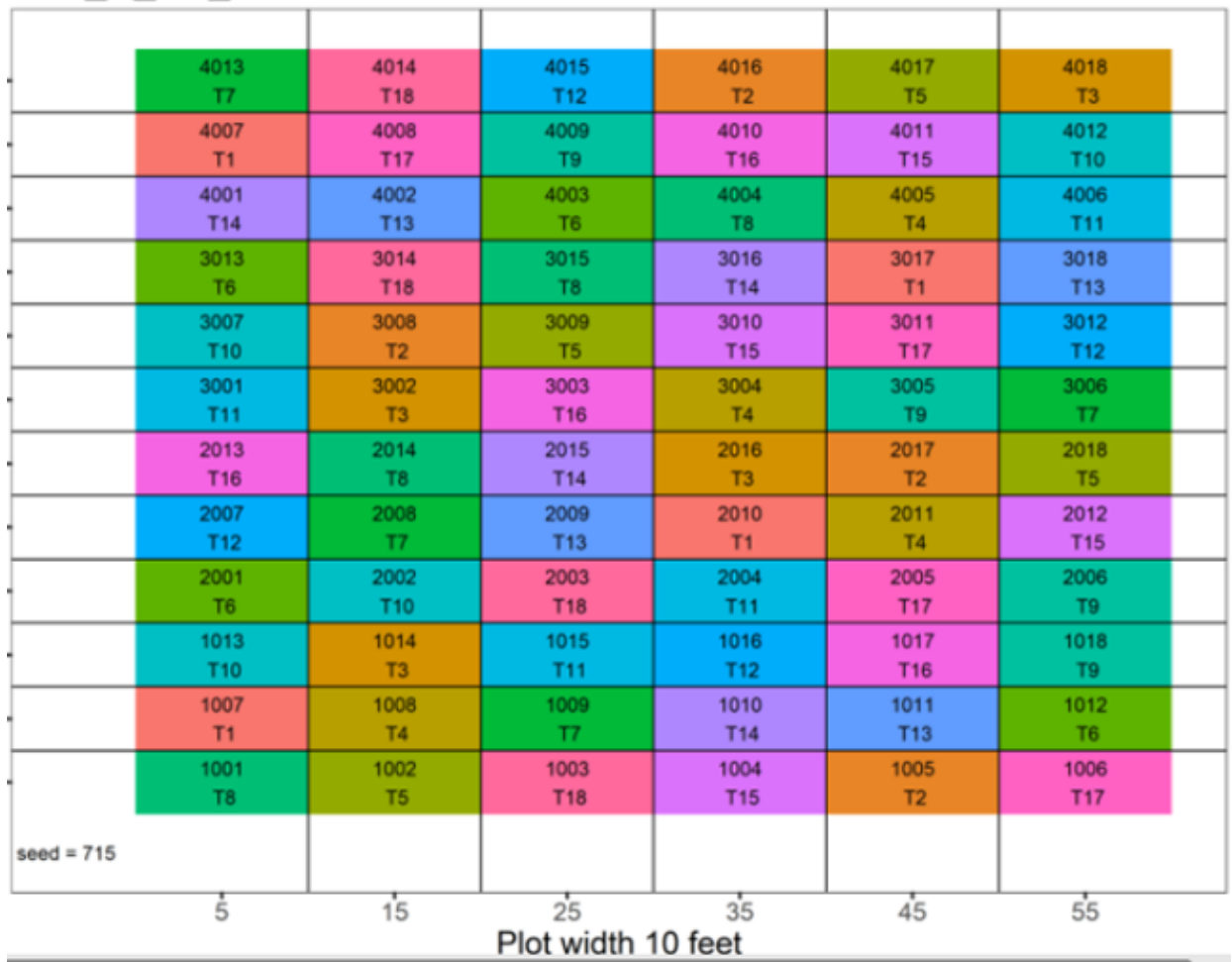
Uniform Fungicide Trial- Corn- Rock Springs  
 UFT\_C\_RS\_2023



<b>Year</b>	2023
<b>Location</b>	Russel E. Larson Agricultural Research Center at Rock Springs
<b>Field</b>	28
<b>GPS coordinates</b>	40.713132, -77.942119
<b>Soil type</b>	Silt loam
<b>Crop</b>	Corn
<b>Previous crop</b>	Soybean
<b>Variety</b>	P0157AM
<b>Seeding rate</b>	32,000
<b>Row space (in)</b>	30
<b>Reps</b>	4
<b>Tillage/Residue</b>	No-till
<b>Trial type</b>	RCBD
<b>Plot dimensions</b>	10'x20'
<b>Herbicide</b>	Pre: y Post: y
<b>Foliar insecticide</b>	n
<b>Foliar fungicide</b>	n
<b>Fertilizer</b>	Starter: y Side-dress: y
<b>Irrigation</b>	n
<b>Planting date</b>	5/11/23
<b>Artificial inoculations (y/n)</b>	n
<b>Inoculum type/density</b>	N/A
<b>Inoculation date</b>	N/A
<b>Rating 1 date</b>	9/5/23
<b>Rating 2 date</b>	N/A
<b>Rating 3 date</b>	N/A
<b>Harvest date</b>	11/15/23

Map:

### UFT\_C\_RS\_2023



## Protocol:

Trt	Product	Rate (oz/a)	Timing	Adjuvant	Rate	Spray Date_1	Spray Date_2
1	UTC						
2	Veltyma	7	VT	NIS	0.25% v/v	8/3/2023	
3	Headline AMP	14.4	VT	NIS	0.25% v/v	8/3/2023	
4	Lucento	5	VT	NIS	0.25% v/v	8/3/2023	
5	Revylok	5.5	VT	NIS	0.25% v/v	8/3/2023	
6	Revylok	6.5	VT	NIS	0.25% v/v	8/3/2023	
7	Headline AMP	10	VT	NIS	0.25% v/v	8/3/2023	
8	Miravis Neo	13.7	VT/R1	Induce	0.125% v/v	8/3/2023	
10	Trivapro	13.7	VT/R1	Induce	0.125% v/v	8/3/2023	
11	Insitgo/Carbose	16/6	VT			8/3/2023	
12	Lucento	5	R1	Induce	0.25% v/v	8/3/2023	
13	Adastrio	8	R1	Induce	0.25% v/v	8/3/2023	
14	Topguard fb Adastrio	10, 8	V8/V1 0 fb R1	Induce	0.25% v/v	7/13/2023	8/3/2023
15	Topguard EQ	5	R1	Induce	0.25% v/v	8/3/2023	
16	Delaro Complete	8	VT/R1	Induce 90 SL	0.12% v/v	8/3/2023	
17	Veltyma	7	V5			6/29/2023	
18	Miravis Neo	13.7	V5			6/29/2023	

## Data by plot:

plot	trt	rep	yield_bu_a	GLS_severity (%)	weight (lb)	moisture (%)	yield_kg_ha	tw (lb/bu)
101	8	1	221.6463	5.4	28.63	15.9	13912.22	62.9
102	5	1	231.788	2.466667	29.94	15.9	14548.79	62.6
104	15	1	198.8153	4.933333	25.62	15.7	12479.17	63.4
105	2	1	212.9187	5.2	27.47	15.8	13364.41	63
107	1	1	202.5601	13.53333	26.01	15.4	12714.22	64.1
108	4	1	200.821	4.666667	25.94	15.9	12605.06	62.6
109	7	1	215.7626	5.8	27.87	15.9	13542.91	62.9
110	14	1	213.1716	6.233333	27.47	15.7	13380.28	63.2
111	13	1	236.4041	3.166667	30.5	15.8	14838.53	63.1
112	6	1	219.4496	3.3	28.38	16	13774.33	62.6
113	10	1	208.8682	5.7	26.82	15.4	13110.16	64.1
114	3	1	219.8454	10.33333	28.33	15.7	13799.17	63.5
116	12	1	221.1044	10.46667	28.56	15.9	13878.2	62.8
117	16	1	230.5569	6.866667	29.64	15.5	14471.51	63.8
201	6	2	232.0636	2.433333	29.94	15.8	14566.08	63.1
202	10	2	220.6697	8.033333	28.47	15.8	13850.92	63.2
207	12	2	210.1284	3.733333	27.11	15.8	13189.26	63
208	7	2	203.2113	3.866667	26.28	16	12755.09	62.5
209	13	2	230.5909	4.966667	29.75	15.8	14473.65	63
210	1	2	190.8156	17.36667	24.56	15.6	11977.05	63.7
211	4	2	208.2051	5.433333	26.83	15.7	13068.54	63.2
212	15	2	218.6764	4.466667	28.28	16	13725.8	62.6
213	16	2	209.0587	3.766667	26.94	15.7	13122.12	63.4
214	8	2	230.5909	3.966667	29.75	15.8	14473.65	63.3
215	14	2	208.5931	4.633333	26.88	15.7	13092.9	63.4
216	3	2	189.3558	7.833333	24.43	15.8	11885.42	63.2
217	2	2	205.6209	3.1	26.56	15.9	12906.34	62.8
218	5	2	232.9162	4.433333	30.05	15.8	14619.6	63.1
302	3	3	195.014	4.433333	25.16	15.8	12240.57	63.1
303	16	3	209.6633	4.8	27.05	15.8	13160.07	63.2
304	4	3	212.8412	4.333333	27.46	15.8	13359.54	63.2
306	7	3	205.3886	5.366667	26.53	15.9	12891.76	62.9
307	10	3	187.5826	3.4	24.23	15.9	11774.12	62.8
308	2	3	213.9129	1	27.73	16.2	13426.81	61.9
309	5	3	212.6659	2.766667	27.47	15.9	13348.54	63
310	15	3	201.3698	4.3	25.98	15.8	12639.51	63.1
312	12	3	219.5846	5.366667	28.33	15.8	13782.81	63.1
313	6	3	218.7589	2.233333	28.19	15.7	13730.98	63.5

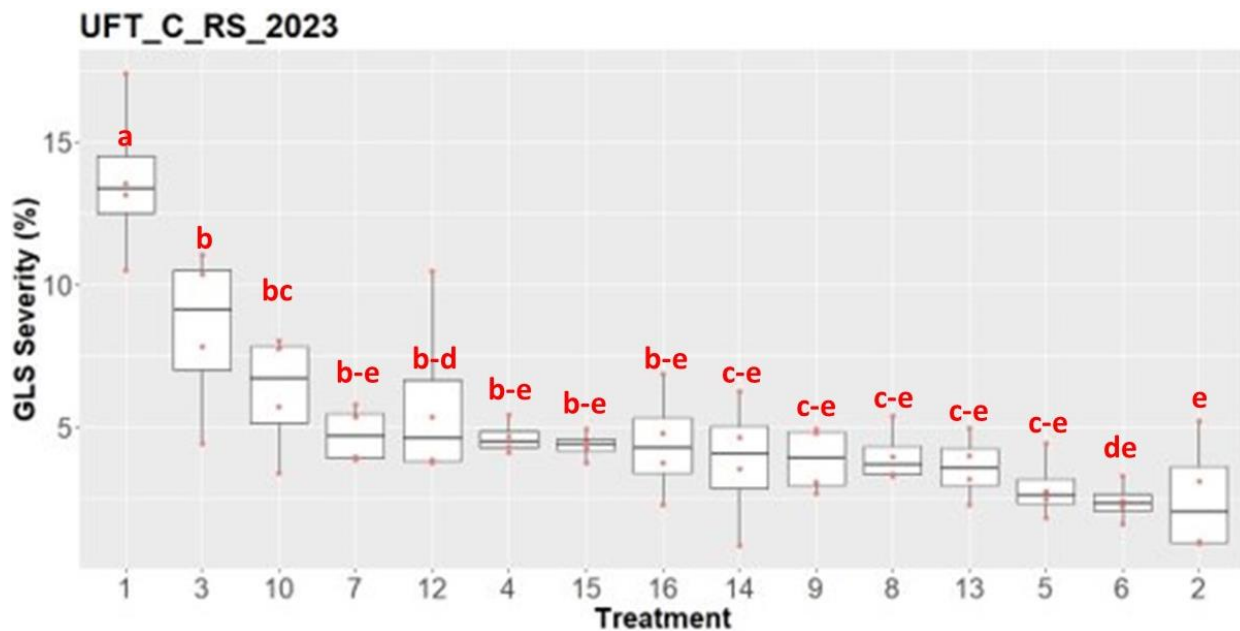
315	8	3	197.9492	3.366667	25.63	16.1	12424.8	62.2
316	14	3	183.3386	3.533333	23.71	16	11507.73	62.3
317	1	3	192.84	13.13333	24.85	15.7	12104.11	63.4
318	13	3	237.1298	4	30.63	15.9	14884.08	62.8
401	14	4	89.26707	0.866667	11.74	17.4	5603.084	60.5
402	13	4	192.1591	2.3	24.91	16.2	12061.37	61.9
403	6	4	201.0462	1.6	26	16	12619.19	62.5
404	8	4	201.2702	3.3	26.06	16.1	12633.26	62.4
405	4	4	207.8508	4.1	26.88	16	13046.3	62.5
407	1	4	189.0375	10.5	24.36	15.7	11865.44	63.4
410	16	4	198.4985	2.3	25.64	15.9	12459.28	62.8
411	15	4	182.6427	3.766667	23.62	16	11464.05	62.6
412	10	4	161.5723	7.733333	20.92	16.1	10141.51	62.1
413	7	4	192.3884	3.966667	24.91	16.1	12075.76	62.4
415	12	4	197.1733	3.866667	25.56	16.2	12376.1	62.1
416	2	4	189.1021	0.933333	24.75	17	11869.5	60.7
417	5	4	156.6301	1.833333	20.5	17	9831.299	60.8
418	3	4	149.648	11.03333	19.33	15.9	9393.054	62.6

### Summary by treatment:

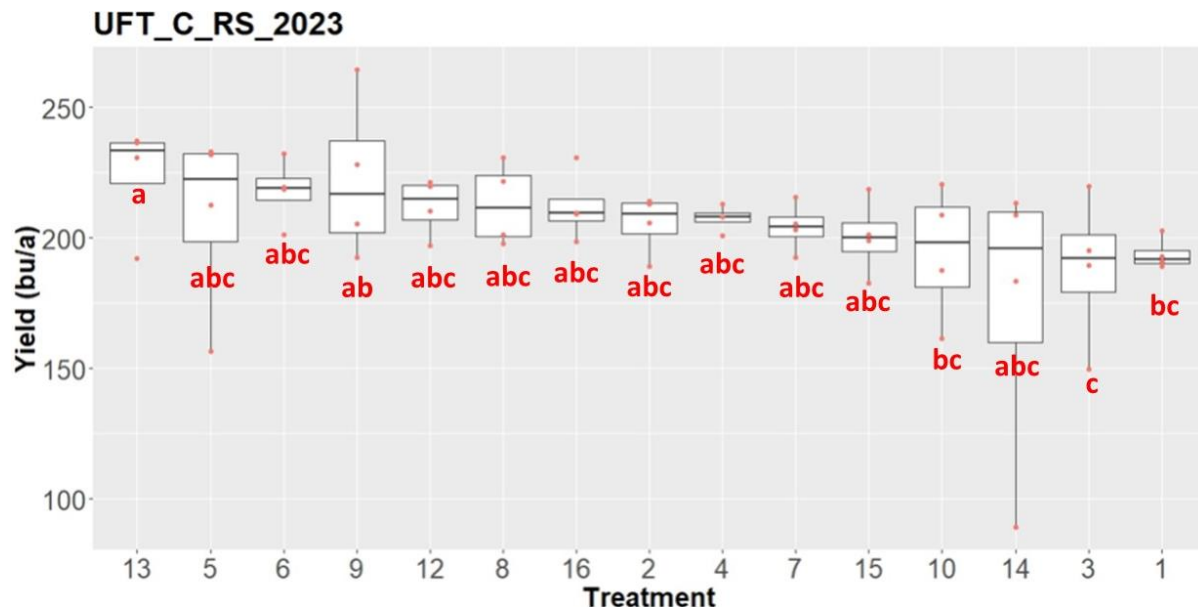
Treatment	GLS_severity (%)	yield_bu_a
1	13.63333	193.8133
2	2.558333	205.3887
3	8.408333	188.4658
4	4.633333	207.4295
5	2.875	208.5
6	2.391667	217.8296
7	4.75	204.1877
8	4.008333	212.8642
10	6.216667	194.6732
11	12.64167	192.1474
12	5.858333	211.9976
13	3.608333	224.071
14	3.816667	201.7011
15	4.366667	200.376
16	4.433333	211.9443
17	13.18333	206.9549
18	12.025	184.0526

## Results/Discussion:

This trial had a good amount of GLS pressure and we saw all products significantly reduce disease compared to the untreated check. The trial was dry early in May, but got sufficient rain in June and July, so yields turned out to be fairly good. There was enough disease pressure for significant yield difference to be observed. Products that performed the best include Revylok, Adastrio, and Veltyma.



**Figure 1.** Boxplot showing the gray leaf spot severity by treatment. Veltyma (2) and Revylok (5 and 6) were the most effective at decreasing GLS disease severity. (\* $\alpha=0.05$ )



**Figure 2.** Boxplot showing the yield by treatment. Adastrio (13) and Revylok (5 and 6) had the highest yields, with Adastrio being significantly higher. (\* $\alpha=0.05$ )

### Acknowledgements:

All products used in this trial were provided by BASF, Bayer- Crop Science, FMC Agricultural Solutions, and Syngenta.