

REDFERN - RIVERS Soybean Variety Plot

(Cooperator: Redfern Family Farms) SE 6-12-21



Field History and Fertility

- 2016: Wheat
- 2015: Potato
- Fertilizer was banded in the fall of 2016 as a liquid suspension fertilizer (0-45-5-0 @ 32 imperial gallons per acre)
- The field is irrigated with a centre pivot
- Soybean Trial was seeded on May 24
- All varieties and replicates were sown at 210,000 seeds per acre targeting 180,000 plants per acre.
- Solid seeded with a 60 foot New Holland Precision Hoe Drill (P2070) and cart (P4760)

	Variety	Plants per Acre	Plants per Acre				
West Replicate	TH 33003	181,111	178,889	East Replicate			
	TH 87003	145,000	147,222				
	Mahony R2Y	146,111	143,889				
	BY Akras R2Y	154,444	152,778				
	PG Torro R2Y	166,111	164,444				
	PG Dylano R2Y	160,556	159,444				
	PG Dario R2Y	143,889	146,667				
	SYNG S003-L3	165,000	163,889				
	SYNG S001-B1	179,444	164,444				
	PS 00095 R2	172,778	175,556				
PS 0035N R2	168,333	164,444					
	DKB 22-60	151,111					
	DKB 24-12	145,000					
	DKB 23-60	146,111					

Weed Control

- Burn Off: May 5
 - Heat (80 ac rate) + glyphosate (0.5L/ac)
- First Pass: July 10
 - Roundup Transorb @ 0.67 L/ac (1 REL)

Harvest

- The plot was harvested on October 10, 2017 with a CX8.80 New Holland combine with a 35 foot Superflex New Holland Header 2.5 mph.
- Plots weights were measured using the scale on the 1075 bu grain cart.
- Plot lengths were measured using a wheel roller.

Average Yield of 2 Replicates	
1 Syng S003-L3	56.8
2 Mahony R2Y	56.6
3 TH87003 R2X	55.4
4 BY Akras R2Y	55.0
5 PS0035N R2	53.7
6 PG Torro R2Y	53.0
7 PS00095 R2	51.9
8 Syng 001-B1	51.7
9 TH33003 R2Y	51.3
10 PG Dylano R2X	48.6
11 PG Dario R2X	46.2

Single Replicate	
1 DKB 23-60	53.4
2 DKB 24-12 R2Y	50.6
3 DKB 22-60 R2Y	50.3

Raw Data and adjusted data
to 14% moisture
On following pages

Raw Harvest Data

Variety	Repl icate	Length (metres)	Weig ht (kg)	Length (ft)	Weight (lbs)	Swath Width (ft)	Area (sq ft)	Area (acres)	Yield (bu/acr e)	Ave Yield bu/ac	Standard Deviation	Averag e Deviasi on	Bushel Weight (lbs / Bu)	Moisture
TH33003 R2Y	1	185.8	660	609.58	1,455.04	34.5	21,030.5	0.48	50.2				60.0	11.4
TH33003 R2Y	2	204.3	710	670.28	1,565.27	34.5	23,124.5	0.53	49.1				61.0	11.0
										49.7	0.8	0.5		
TH87003 R2X	1	186.8	685	612.86	1,510.15	34.5	21,143.7	0.49	51.9				59.0	11.3
TH87003 R2X	2	202.1	790	663.06	1,741.63	34.5	22,875.5	0.53	55.3				60.0	10.8
										53.6	2.4	1.7		
Mahony R2Y	1	185.1	690	607.28	1,521.17	34.5	20,951.3	0.48	52.7				60.0	11.2
Mahony R2Y	2	202.0	815	662.73	1,796.75	34.5	22,864.2	0.52	57.1				60.0	11.5
										54.9	3.1	2.2		
BY Akras R2Y	1	183.3	675	601.38	1,488.11	34.5	20,747.5	0.48	52.1				63.0	11.5
BY Akras R2Y	2	199.2	785	653.54	1,730.61	34.5	22,547.2	0.52	55.7				62.0	12.9
										53.9	2.6	1.8		
PG Torro R2Y	1	187.8	635	616.14	1,399.92	34.5	21,256.9	0.49	47.8				61.0	11.3
PG Torro R2Y	2	200.0	775	656.17	1,708.57	34.5	22,637.8	0.52	54.8				61.0	10.9
										51.3	4.9	3.5		
PG Dylano R2X	1	187.9	585	616.47	1,289.69	34.5	21,268.2	0.49	44.0				62.0	11.5
PG Dylano R2X	2	199.0	720	652.89	1,587.31	34.5	22,524.6	0.52	51.2				61.0	12.6
										47.6	5.0	3.6		
PG Dario R2X	1	191.4	585	627.95	1,289.69	34.5	21,664.4	0.50	43.2				62.0	11.4
PG Dario R2X	2	199.0	655	652.89	1,444.01	34.5	22,524.6	0.52	46.5				62.0	11.7
										44.9	2.4	1.7		
Syng S003-L3	1	191.6	715	628.61	1,576.29	34.5	21,687.0	0.50	52.8				60.0	10.8
Syng S003-L3	2	198.2	795	650.26	1,752.66	34.5	22,434.1	0.52	56.7				60.0	10.8
										54.7	2.8	2.0		
Syng 001-B1	1	190.6	675	625.33	1,488.11	34.5	21,573.8	0.50	50.1				61.0	11.1
Syng 001-B1	2	198.9	700	652.56	1,543.22	34.5	22,513.3	0.52	49.8				61.0	10.8
										49.9	0.2	0.2		
PS00095 R2	1	191.4	650	627.95	1,432.99	34.5	21,664.4	0.50	48.0				60.0	10.8
PS00095 R2	2	192.8	710	632.55	1,565.27	34.5	21,822.8	0.50	52.1				59.0	10.7
										50.0	2.9	2.0		
PS0035N R2	1	194.1	720	636.81	1,587.31	34.5	21,970.0	0.50	52.5				61.0	11.3
PS0035N R2	2	192.8	710	632.55	1,565.27	34.5	21,822.8	0.50	52.1				59.0	12.0
										52.3	0.3	0.2		
DKB 22-60 R2Y	1	192.9	665	632.87	1,466.06	34.5	21,834.2	0.50	48.7				61.0	11.2
										48.7	0.0	0.0		
DKB 24-12 R2Y	1	194.5	680	638.12	1,499.13	34.5	22,015.3	0.51	49.4				60.0	11.9
										49.4	0.0	0.0		
DKB 23-60	1	194.3	710	637.47	1,565.27	34.5	21,992.6	0.50	51.7				60.0	11.1
										51.7	0.0	0.0		

Yields Adjusted to 14% Moisture

	Variety	Repl icat e	Adj'd Weight (lbs)	Adjusted Yield (bu/acre)	Ave Yield bu/ac	Standard Deviation	Average Deviation
Thunder Seed	TH33003 R2Y	1	1,786.89	51.75			
Thunder Seed	TH33003 R2Y	2	1,992.16	50.86			
					51.3	0.6	0.4
Thunder Seed	TH87003 R2X	1	1,870.98	53.48			
Thunder Seed	TH87003 R2X	2	2,257.67	57.33			
					55.4	2.7	1.9
Secan	Mahony R2Y	1	1,901.47	54.43			
Secan	Mahony R2Y	2	2,187.35	58.71			
					56.6	3.0	2.1
Brett Young	BY Akras R2Y	1	1,811.61	53.59			
Brett Young	BY Akras R2Y	2	1,878.18	56.44			
					55.0	2.0	1.4
Quarry Seed	PG Torro R2Y	1	1,734.42	49.31			
Quarry Seed	PG Torro R2Y	2	2,194.49	56.77			
					53.0	5.3	3.7
Quarry Seed	PG Dylano R2X	1	1,570.06	45.30			
Quarry Seed	PG Dylano R2X	2	1,763.68	51.99			
					48.6	4.7	3.3
Quarry Seed	PG Dario R2X	1	1,583.83	44.53			
Quarry Seed	PG Dario R2X	2	1,727.88	47.79			
					46.2	2.3	1.6
Syngenta	Syng S003-L3	1	2,043.34	54.73			
Syngenta	Syng S003-L3	2	2,271.96	58.83			
					56.8	2.9	2.0
Syngenta	Syng 001-B1	1	1,876.89	51.77			
Syngenta	Syng 001-B1	2	2,000.47	51.62			
					51.7	0.1	0.1
Canterra	PS00095 R2	1	1,857.58	49.81			
Canterra	PS00095 R2	2	2,048.01	54.07			
					51.9	3.0	2.1
Canterra	PS0035N R2	1	1,966.58	54.10			
Canterra	PS0035N R2	2	1,826.14	53.28			
					53.7	0.6	0.4
Dekalb	DKB 22-60 R2Y	1	1,832.57	50.33			
Dekalb	DKB 24-12 R2Y	1	1,763.68	50.64			
Dekalb	DKB 23-60	1	1,974.21	53.41			

Acknowledgements

We would like to thank all contributors to our 2017 Soybean Plot

Brett YoungTM



syngenta



Prograin