

2015 SE Minnesota Regional Performance of Late Maturity Glyphosate Tolerant (GT) Roundup Ready® (RR) Soybean Varieties (1.9 to 2.5 maturities) at Rochester, MN.

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The objective of this study was to compare the performance of late maturity GT/RR® soybean (1.9 to 2.5 maturities) in southeastern Minnesota. The trial was located at Rochester, MN (Lawler site). Field history is reported in Table 1. The trial was planted with a 4-row John Deere 7000 planter equipped with cone units. The seeding rate was 150,000 seeds per acre with seed planted at a depth of 1.5 inches in 30 inch rows. Plots were four rows wide by 22 feet in length in Rock Dell and Rochester. A randomized complete block design was implemented and replicated four times. The center two rows of each plot were machine harvested on October 12, 2015. Table 2 provides yield at 13% moisture. Table 3 lists soybean variety traits. Table 4 lists the 2014 late maturity GT/RR® trial results. (University of Minnesota Extension Regional Office, Rochester, and Southern Research and Outreach Center, Waseca, MN).

Table 1. Field history at Rochester (Lawler site), MN in 2015	
	Rochester (Lawler site)
Planting Date	May 22, 2015
Harvest Date	October 12, 2015
Soil Type	Port Byron Silt Loam
Tillage	Conventional
Previous Crop	Corn

Table 2. Yield (at 13%) of late maturity soybeans (1.9 to 2.6) at Rochester, MN in 2015.		
Entry Name	Description	Rochester (Lawler site)
1.9 to 2.5 maturity	Maturity	Yield @13% (bu/A)
ASGROW AG1935	1.9	59.5
ASGROW AG2035	2.0	61.4
CROPLAN R2C2025	2.0	62.0
CROPLAN R2C2075	2.0	62.2
DAHLMAN 5420 NRR2Y	2.0	56.7
DAHLMAN 5321 NRR2Y	2.1	59.8
DAIRYLAND DSR-1990	1.9	57.8
DAIRYLAND DSR-2110	2.1	62.1
DUPONT PIONEER P19T78R	1.9	58.9
DUPONT PIONEER P22T73R	2.2	61.1
DUPONT PIONEER P25T51R	2.5	62.1
DYNAGRO S20RY45	2.0	62.0
GOLD COUNTRY 2015	2.0	62.8
GOLD COUNTRY 2114	2.1	63.6
LEGACY LS1934 NRR2	1.9	63.4
LEGACY LS2135 N RR2	2.1	62.3
LEGACY LS2414 N RR2	2.4	58.7
LG SEEDS C2020 R2	2.0	61.9
LG SEEDS C2441 R2	2.4	62.3
MYCOGEN SEEDS 5N206 R2	2.0	63.8
NK BRAND S19-B2	1.9	60.9
NK BRAND S20-T6	2.0	59.4
PRAIRIE BRAND 1956	1.9	62.7
PRAIRIE BRAND 2024	2.0	61.2
PRODUCERS 2004 NR2	2.0	60.4
PRODUCERS 2204 NR2	2.2	59.3
RENK RS195 NR2	1.9	61.9
RENK RS213 NR2	2.1	60.9
STINE 19RF32	1.9	60.6
STINE 20RD20	2.0	63.2
LSD (P=0.20)		NS
Plot Ave		61.2 bu/a

Table 3. Traits of late maturity GT/RR[®] soybean varieties in 2015.

Entry Name <i>**Denotes committee selected varieties</i>	Maturity Rating	SCN Resistant Source	Hilum Color	Flower Color	Pubescence Color	Pod Color
ASGROW AG1935	1.9					
ASGROW AG2035	2.0					
CROPLAN R2C2025	2.0					
CROPLAN R2C2075	2.0					
DAHLMAN 5420NRR2Y	2.0		Black	Purple	Tawny	Brown
DAHLMAN 5321NRR2Y	2.1		Black	Purple	Light Tawny	Brown
DAIRYLAND DSR-1990	1.9		Black	Purple	Tawny	Brown
DAIRYLAND DSR-2110	2.1		Black	Purple	Light Tawny	Tan
DUPONT PIONEER P19T78R	1.9					
DUPONT PIONEER P22T73R	2.2					
DUPONT PIONEER P25T51R	2.5		Black	Purple	Light Tawny	Brown
DYNAGRO S20RY45	2.0		Imperfect Black	Purple	Gray	Brown
GOLD COUNTRY 2015	2.0		Black	Purple	Light Tawny	Brown
GOLD COUNTRY 2114	2.1		Imperfect Black	Purple	Gray	Tan
LEGACY LS1934N RR2	1.9		Imperfect Black	Purple	Gray	Brown
LEGACY LS2135N RR2	2.1		Black	Purple	Light Tawny	Brown
LG SEEDS C2020R2	2.0		Black	Purple	Tawny	Brown
LG SEEDS C2441R2	2.4		Black	Purple	Light Tawny	Brown
MYCOGEN SEEDS 5N206R2	2.0		Black	Purple	Light Tawny	Brown
NK BRAND S19-B2	1.9		Black Black	Purple	Light Tawny	Tan
NK BRAND S20-T6	2.0		Black	White	Light Tawny	Brown
PRAIRIE BRAND 1956	1.9		Black	Purple	Light Tawny	Brown
PRAIRIE BRAND 2024	2.0		Black	Purple	Light Tawny	Brown
PRODUCERS 2004NR2	2.0		Black	Purple	Light Tawny	Brown
PRODUCERS 2204NR2	2.2		Black	Purple	Light Tawny	Brown
RENK RS195 NR2	1.9		Imperfect Black	Purple	Gray	Tan
RENK RS213 NR2	2.1		Black	Purple	Light Tawny	Brown
STINE 19RF32	1.9		Black	Purple	Gray	
STINE 20RD20	2.0		Black	Purple	Brown	
LS2414NRR2	2.4		Black	Purple	Light Tawny	Brown

Table 4. Yield (at 13%) of late maturity soybeans (1.9 to 2.6) at Rochester (Lawler site) and Waseca, MN, and the 2-site average, in 2014.

Entry Name	Description	Rochester (Lawler)		Waseca		2-Site Average
1.9 to 2.6 maturity ** Denotes committee selected	Maturity	Yield (bu/A)		Yield (bu/A)		Yield at 13% (bu/A)
ASGROW AG2031	2.0	59.3	a	45.6	a-e	52.4
ASGROW AG2134	2.1	51.8	i-p	38.2	k-q	45.0
ASGROW AG2232	2.2	54.8	b-i	44.1	b-g	49.4
ASGROW AG2433	2.4	55.5	b-g	41.1	f-m	48.3
CHANNEL 2105R2	2.1	53.7	d-l	41.1	f-m	47.4
CROPLAN R2C2200	2.2	56.8	a-d	40.0	g-n	48.4
CROPLAN R2C2120	2.1	54.0	d-l	39.9	g-n	46.9
DAHLMAN 5321NRR2Y	2.1	50.4	n-r	37.8	l-q	44.1
DAHLMAN 5420NRR2Y	2.0	50.6	m-r	38.2	k-q	44.4
DAIRYLAND SEED DSR-19902Y	1.9	51.7	i-p	36.6	n-q	44.1
DAIRYLAND SEED DSR-2105R2Y	2.1	51.2	k-r	39.3	h-p	45.3
DAIRYLAND SEED DSR-2411R2Y	2.4	53.6	e-m	47.5	abc	50.5
DUPONT PIONEER P22T69R	2.2	55.0	b-h	38.6	i-p	46.8
DUPONT PIONEER P25T51R	2.5	57.2	abc	47.9	ab	52.6
DUPONT PIONEER 92Y51	2.5	53.0	f-n	38.6	i-p	45.8
DYNAGRO 24RY73	2.4	53.2	e-n	35.5	o-r	44.3
GOLD COUNTRY 2114	2.1	54.1	c-k	42.9	d-i	48.5
GOLD COUNTRY 2040	2.0	55.6	b-g	40.0	g-n	47.8
LEGACY SEEDS LS-2034NRR2	2.0	49.0	o-r	38.5	i-p	43.7
LEGACY SEEDS LS-2313NRR2	2.3	48.7	pqr	42.4	d-k	45.5
LG SEEDS C2020R2	2.0	52.0	h-o	48.6	a	50.3
LG SEEDS C2222R2	2.2	50.8	l-r	42.1	d-l	46.4
MYCOGEN SEEDS 5N206R2	2.0	54.6	b-j	45.1	a-f	49.9
MYCOGEN SEEDS 5N223R2	2.2	52.0	h-o	37.6	m-q	44.8
NK BRAND S20-T6	2.0	57.2	ab	38.2	k-q	47.7
NK BRAND S22-F8**	2.2	52.0	h-o	31.2	r	41.6
NK BRAND S22-S1**	2.2	56.3	a-e	40.7	g-n	48.5
PRAIRIE BRAND PB2024R2	2.0	54.8	b-i	46.2	a-d	50.5
PRAIRIE BRAND PB2230R2	2.2	48.2	r	38.1	k-q	43.2
PRODUCERS HYBRIDS 1900 NR2	1.9	55.1	b-g	42.8	d-j	48.9
PRODUCERS HYBRIDS 2101 NR2	2.1	51.4	k-q	39.7	g-o	45.6
RENK SEEDS RS213NR2	2.1	54.9	b-i	43.2	c-h	49.0
RENK SEEDS RS224NR2	2.2	52.5	g-n	41.5	e-m	47.0
STINE 20RD20	2.0	56.0	b-f	43.3	c-h	49.6
STINE 22RD00	2.2	51.9	h-o	43.6	b-h	47.8
STINE 22RC62	2.2	53.4	e-n	35.2	pqr	44.3
VIKING 2000R2N	2.0	51.5	i-q	33.9	qr	42.7
VIKING 2144R2N	2.1	48.4	qr	39.5	h-p	44.0
Site Average		53.2		40.6		
LSD (P=0.10)		3.1		4.8		