

2007 Silage Corn Variety Trial in Tulare County

The trial was planted on June 14, 2007, on 30-inch beds. Plots were 5 rows wide and ran for the length of the quarter mile field. Emergence was very good for all plots. The field was sprayed for spider mites and corn leafhoppers.

The only significant production problem was a strong thunderstorm that occurred in late September. Several varieties experienced some lodging in all replications. For some it was because the neighboring plot fell over and lodging did not occur in every replication. Plant populations, plant height, ear height, and lodging are summarized in Table 2. Table 3 has more specific details on lodging.

All five rows of each plot were harvested for yield results on October 16-17, 2007. Samples were taken from each truck at the silage pile for moisture determination. Yields results are presented in Table 1 as weighed on the day of harvest and adjusted to moisture at 70% based on samples taken at harvest.

Table 1. Yield Results from 2007 Tulare County UCCE Silage Corn Variety Trial

Brand	Marketed by	Population after emergence	Percent Moisture at Harvest	Tons per Acre as harvested	Tons per Acre adjusted to 70% Moisture
Croplan 9009 CL	Croplan Genetics	31,470 ABCD	63.3 ABCD	34.4 AB	41.9 A
Mycogen 2A120	Dow /Mycogen	32,240 A	64.6 ABCD	34.7 AB	40.9 A
DKC-67-87	DK Seeds	31,700 AB	64.1 ABCD	33.4 ABC	39.9 A
NK N85-F3	Western Ag Services	31,150 ABCD	67.0 A	35.7 A	39.2 A
UAP 7002	UAP	31,900 AB	60.7 DE	29.1 CDE	38.2 AB
NC+7250 R	Lockwood Seed & Grain	32,110 A	64.5 ABCD	31.9 ABCD	37.7 AB
Integra 9682 R	Wilbur Ellis	30,590 CD	65.4 ABC	31.7 ABCD	36.7 ABC
Hyttest HT 8720	Hyttest	31,450 ABCD	64.5 ABCD	30.8 BCD	36.4 ABC
Golden Harvest H-9637	Simplot	31,740 AB	65.7 AB	31.7 ABCD	36.3 ABC
RX 940RR	RX Seeds	30,380 D	65.7 AB	31.5 ABCD	36.0 ABC
Garst 82K79GT	Western Ag Services	29,220 E	61.6 BCDE	27.7 DEF	35.5 ABC
Dynegro 58K22	UAP	30,910 BCD	58.7 EF	25.6 EF	35.2 ABC
TecAg 8535	TechAg Seed Co.	31,310 ABCD	60.8 CDE	24.4 F	31.9 BC
ST7634 RR	Eureka Seeds	31,530 ABC	62.3 BCDE	24.3 F	30.6 C
BH 9024 RR	RX Seeds	31,200 ABCD	62.1 BCDE	23.8 F	30.1 C
TS540 RR	Tech Seed	31,850 AB	56.1 F	16.3 G	24.0 D
Baglietto 5636 RR	Baglietto	31,370 ABCD	63.4 ABCD	18.7 G	22.7 D
Overall Mean		31,319	62.967	28.57	34.90
Probability		0.0000	0.0003	0.0000	0.0000
LSD .01		1268	5.270	5.400	7.821
LSD .05		942.797	3.920	4.020	5.818
Co-efficient of Variability		1.81%	3.74%	8.47%	10.03%

Values are the means of 3 replications. Common letters within a column do not differ at the 5% probability level using Duncan's Multiple Range.

* This variety was previously named Garst 8287 RR.

The field was planted on June 14 and harvested October 16 & 17, 2007.

Each plot was 5 rows by the length of the field. There were 3 replications.

Most lodging occurred due to strong thunderstorm that came through in late September.

Table 2. Plant & Ear Height from 2007 Tulare County UCCE Silage Corn Variety Trial

Brand	Marketed by	Plant Height (ft)	Ear Height (ft)	Lodging (%)
Integra 9682 R	Wilbur Ellis	12.8 A	6.7 A	16.0 CDE
ST7634 RR	Eureka Seeds	12.3 ABCDE	6.3 ABCDE	39.0 ABC
Garst 82K79GT	Western Ag Services	12.5 AB	5.8 FGH	1.0 E
Hytest HT 8720	Hytest	11.6 DEF	6.1 EFGH	0.7 E
NC+7250 R	Lockwood Seed & Grain	11.7 BCDEF	5.7 GH	5.0 DE
Dynegro 58K22	UAP	12.3 ABCDE	6.5 ABCD	16.0 CDE
NK N85-F3	Western Ag Services	11.6 CDEF	6.1 DEFG	0.7 E
UAP 7002	UAP	11.2 F	5.7 H	0.7 E
DKC-67-87	DK Seeds	12.3 ABCDE	6.3 BCDE	1.7 E
RX 940RR	RX Seeds	12.5 AB	6.5 ABC	13.7 CDE
Golden Harvest H-9637	Simplot	12.3 ABCDE	6.3 BCDE	14.3 CDE
Mycogen 2A120	Dow /Mycogen	12.4 ABCD	6.3 ABCDE	17.3 CDE
TecAg 8535	TechAg Seed Co.	12.3 ABCDE	6.3 ABCDE	31.7 BCD
Croplan 9009 CL	Croplan Genetics	12.2 ABCDE	6.0 EFGH	15.3 CDE
BH 9024 RR	RX Seeds	12.5 A	6.2 CDEF	43.3 AB
Baglietto 5636 RR	Baglietto	11.5 EF	6.1 EFGH	52.7 AB
TS540 RR	Tech Seed	12.5 ABC	6.6 AB	61.0 A
Overall Mean		12.14	6.21	19.4
Probability		0.0261	0.0000	0.000
LSD .01		0.93	0.46	32.1
LSD .05		0.69	0.35	23.9
Co-efficient of Variability		3.44%	3.34%	74.05%

Values are the means of 3 replications. Common letters within a column do not differ at the 5% probability level using Duncan's Multiple Range.

* This variety was previously named Garst 8287 RR.

Table 3. 2007 Tulare County Corn Variety Trial - Lodging Details

Brand	Replication			Average
	I	II	III	
Hytest HT 8720	0	0	2	0.7
NK N85-F3	0	0	2	0.7
UAP 7002	1	1	0	0.7
Garst 8287	3	0	0	1.0
DKC-67-87	5	0	0	1.7
NC+7250 R	0	15	0	5.0
RX 940RR	40	0	1	13.7
Golden Harvest H-9637	3	0	40	14.3
Croplan 9009 CL	45	0	1	15.3
Dynegro 58K22	30	13	5	16.0
Integra 9682 R	25	20	3	16.0
Mycogen 2A120	18	12	22	17.3
TecAg 8535	50	33	12	31.7
ST7634 RR	40	27	50	39.0
BH 9024 RR	45	45	40	43.3
Baglietto 5636 RR	55	35	68	52.7
TS540 RR	35	60	88	61.0