

2006 Tulare County Silage Corn Variety Trial

The U.C. Cooperative Extension silage corn variety trial conducted in Tulare County was planted in a sandy loam soil on June 2 and harvested September 18, 2006. Plots were 5 rows by a quarter mile with three replications. Yield data are based on the whole plot. Moisture data is from samples taken from each truck at the silage pile. The field was sprayed for spider mites and weeds were controlled by a post-emergence broadleaf material and a lay-by application of Prowl. Corn leafhoppers were present toward the end of the season but very few plants showed symptoms resembling corn stunt. Most varieties were just beginning to tassel as the extreme July heat wave broke. The varieties that were the furthest along in tasseling during the heat were TS 535RR, MX 5565, 7891RR, and Mission 9110. These varieties tended to be lower in yield than varieties that tasseled a little later. Some lodging occurred in the field. The varieties with the most lodging were Tech Ag 501 followed by Mission 9110. In both cases, the percent averaged overall was less than 8% and plants had snapped at the lower nodes. Moisture at harvest was on the dry side, ranging from 61.4 to 68.6 percent. Yield data are presented both as the weight when harvested and also the weight adjusted to 70% moisture. This adjustment favors varieties that are drier when harvested. Yield results are listed in Table 1. Plant and ear heights are listed in Table 2. Within a column, if a value is followed by a common letter, there is no statistical difference in yield. For example in Table 1, for the column "Tons per Acre as Harvested," there is a 95% chance that there is no difference in the yields of Asgrow RX940, NC+7371R, 7624 RR, Harvest Bounty 9671, and N85-F3.

Table 1. Yield Results from 2006 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
Baglietto MX 5565	Baglietto Seed	26,333 f	64.4 bcd	23.9 e	28.3 e
Tech Ag TG501	Tech Ag Seed Co.	29,489 bc	62.6 cd	24.3 e	30.2 de
Tech Seed TS 535RR	Baglietto Seed	29,333 bc	62.8 cd	24.4 e	30.2 de
Mission M9110	Mission Ag Resources	28,467 cde	62.5 cd	26.4 e	32.8 cde
H-9657	JR Simplot	30,444 b	61.4 d	26.6 de	33.9 bcd
7891 RR	Hytest	26,811 f	64.7 bcd	29.4 cd	34.4 bcd
BH 9024 RR	C & R Seeds	30,533 b	66.6 abc	30.7 bc	33.9 bcd
Dyna Gro 5518	UAP	29,567 bc	62.8 cd	31.0 bc	38.3 ab
Croplan Genetics 823 HX/LL	Stanislaus Farm Supply	32,448 a	64.9 bcd	31.3 bc	34.4 bcd
8270 RR (Garst)	Western Ag Services	27,078 ef	66.9 abc	31.6 bc	34.7 abcd
Asgrow RX940	Monsanto Company	26,497 f	67.9 ab	33.4 ab	35.8 abc
NC +7371 R	Lockwood Seed and Grain	28,989 bcd	66.0 abc	35.0 a	39.4 a
7624 RR	Eureka Seed	29,944 bc	69.4 a	35.6 a	36.2 abc
Harvest Bounty 9671	Wilbur-Ellis	27,522 def	68.4 ab	35.9 a	37.6 abc
N 85-F3 (NK)	Western Ag Services	29,900 bc	68.6 ab	36.2 a	37.8 ab
Overall Mean		28,890	65.3	30.4	34.5
Probability		0.00	0.002	0.00	0.00
LSD .05		1,519	3.89	2.84	4.32
Co-efficient of Variability (%)		3.14	3.56	5.57	7.46

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.

Table 2. Plant and Ear Heights from 2006 Tulare County UCCE Silage Corn Variety Trial

Brand	Marketed by	Plant Height (ft)	Ear Height (ft)
Baglieto MX 5565	Baglietto Seed	11.5 abcd	4.7 g
Tech Ag TG501	Tech Ag Seed Co.	10.7 d	4.8 g
Tech Seed TS 535RR	Baglietto Seed	11.8 abc	5 g
Mission M9110	Mission Ag Resources	11.9 abc	5.9 def
H-9657	JR Simplot	11.2 cd	5.6 f
7891 RR	Hyttest	11.5 abcd	5.6 f
BH 9024 RR	C & R Seeds	12.4 a	6.7 a
Dyna Gro 5518	UAP	12.3 ab	6.7 a
Croplan Genetics 823 HX/LL	Stanislaus Farm Supply	11.7 abcd	6.6 ab
8270 RR (Garst)	Western Ag Services	11.3 bcd	6.2 bcde
Asgrow RX940	Monsanto Company	11.9 abc	6.6 abc
NC +7371 R	Lockwood Seed and Grain	11.3 cd	6.2 cde
7624 RR	Eureka Seed	11.4 abcd	5.9 ef
Harvest Bounty 9671	Wilbur-Ellis	11.4 bcd	6.1 de
N 85-F3 (Conventional NK)	Western Ag Services	11.3 cd	6.4 abcd
Overall Mean		11.6	5.9
Probability		0.04	0.00
LSD .05		0.88	0.411
Co-efficient of Variability (%)		4.54	4.13

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.