

2008 UCCE Tulare/Fresno County Silage Corn Variety Trial

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Table 3. Plant height, ear height, and yield results.

Cooperator: Windmill Ranches, Jay TeVelde, Tony Schotanus

Plot Size: 5 30-in beds x 1200 ft

Number of replications: 3

Planted on: June 9, 2008

Harvested: September 22, 2008

At planting: 10 gal UAN32 4 inches to the side w/ 2 pt of Zinc mix, Pounce applied

Field Variety: Pioneer 31G97

Brand	Stand Count plants/acre	# June 19	Moisture % at Harvest		Tons/Acre at Harvest		Harvest Tons/Acre standardized to 70% moisture		Avg Plant Height (ft) Sept. 5	Avg Ear Height (ft) Sept. 5		
L-9H22RR	32,780	AB	74.3	A	37.94	A	32.42	DE	12.1	CD	5.6	BCD
Integra 967 IR	31,780	ABCD	69.1	B	32.95	BC	33.81	BCDE	11.8	DE	5.4	CDE
NC+ 7374 RB	31,400	BCD	68.6	B	30.75	DEF	32.20	DE	10.9	G	5.1	EF
Dyna-Gro 58K02	31,040	CDE	67.8	BC	33.66	B	36.17	ABC	12.4	BC	5.8	B
Pioneer Brand 31G97	32,980	A	67.4	BC	30.98	CDE	33.74	BCDE	12.4	ABC	5.3	DE
RX 940	32,070	ABCD	67.3	BC	34.73	B	37.80	A	12.6	AB	6.3	A
TMF 2H917	32,010	ABCD	67.1	BC	31.15	CD	34.14	BCDE	11.7	DE	5.6	BCD
8221 VT3	30,690	DE	66.4	BC	28.77	FG	32.25	DE	11.7	DE	5.7	BC
DKC63-45	31,780	ABCD	65.8	CD	27.76	GH	31.66	E	11.4	EF	4.7	GH
STP 7808	32,620	AB	63.3	DE	26.98	GH	32.92	CDE	12.4	BC	4.4	H
Dairyland 11914	33,170	A	63.0	E	28.78	FG	35.41	ABCD	12.1	CD	5.5	BCD
Pioneer Brand 33F85	32,270	ABC	62.3	EF	28.94	EFG	36.39	AB	11.8	DE	5.1	EF
HT 8720	29,750	E	61.9	EF	27.14	GH	34.45	BCDE	11.2	FG	5.1	EF
ES 7654 RR	31,940	ABCD	61.7	EF	25.82	H	32.95	CDE	12.1	CD	5.3	DE
Garst 82K79	31,980	ABCD	59.5	FG	26.28	H	35.42	ABCD	12.8	A	5.4	CDE
SX 5470	31,880	ABCD	57.8	G	22.62	I	31.85	E	11.5	EF	5.0	FG
Overall Mean	31,884		65.196		29.703		33.970		11.93		5.34	
Probability	0.006		0.0000		0.0000		0.1250		0.00		0.00	
LSD .05	1465.9		2.754		2.145		3.280		0.44		0.35	
Co-efficient of Variability (%)	2.8		2.53		4.33		5.79		2.20		3.96	

Values are the means of 3 replications.

Within a column, values followed by a common letter do not differ at the 5% level of Probability, using Least Significant Difference for mean separation.

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Table 4. Yields grouped by moisture at harvest

Cooperator: Windmill Ranches, Jay TeVelde, Tony Schotanus

Plot Size: 5 30-in beds x 1200 ft

Number of replications: 3

Planted on: June 9, 2008

Harvested: Sept. 22, 2008

At planting: 10 gal UAN32 4 inches to the side w/ 2 pt of Zinc mix, Pounce applied

Field Variety: Pioneer 31G97

Brand	9/22/2008		9/22/2008		Harvest Tons/Acre standardized to 70% moisture	
	Moisture % at Harvest		Tons/Acre at Harvest			
L-9H2RR	74.30	A	37.94	A	32.42	DE
Integra 967 IR	69.13	B	32.95	BC	33.81	BCDE
NC+ 7374 RB	68.55	B	30.75	DEF	32.20	DE
Dyna-Gro 58K02	67.75	BC	33.66	B	36.17	ABC
Field Variety (Pioneer Brand 31G97)	67.37	BC	30.98	CDE	33.74	BCDE
RX 940	67.32	BC	34.73	B	37.80	A
TMF 2H917	67.11	BC	31.15	CD	34.14	BCDE
8221 VT3	66.38	BC	28.77	FG	32.25	DE
Dyna-Gro 58K02	67.75	BC	33.66	B	36.17	ABC
Field Variety (Pioneer® Brand 31G97)	67.37	BC	30.98	CDE	33.74	BCDE
RX 940	67.32	BC	34.73	B	37.80	A
TMF 2H917	67.11	BC	31.15	CD	34.14	BCDE
8221 VT3	66.38	BC	28.77	FG	32.25	DE
DKC63-45	65.78	CD	27.76	GH	31.66	E
DKC63-45	65.78	CD	27.76	GH	31.66	E
STP 7808	63.33	DE	26.98	GH	32.92	CDE
STP 7808	63.33	DE	26.98	GH	32.92	CDE
Dairyland 11914	62.95	E	28.78	FG	35.41	ABCD
Pioneer Brand 33F85	62.28	EF	28.94	EFG	36.39	AB
HT 8720	61.92	EF	27.14	GH	34.45	BCDE
ES 7654 RR	61.65	EF	25.82	H	32.95	CDE
Pioneer Brand 33F85	62.28	EF	28.94	EFG	36.39	AB
HT 8720	61.92	EF	27.14	GH	34.45	BCDE
ES 7654 RR	61.65	EF	25.82	H	32.95	CDE
Garst 82K79	59.54	FG	26.28	H	35.42	ABCD
Garst 82K79	59.54	FG	26.28	H	35.42	ABCD
SX 5470	57.78	G	22.62	I	31.85	E

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Table 5. Quality results

Cooperator: Windmill Ranches, Jay TeVelde, Tony Schotanus

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Planted on: June 9, 2008

Harvested: September 22, 2008

At planting: 10 gal UAN32 4 inches to the side w/ 2 pt of Zinc mix, Pounce applied

Field Variety: Pioneer 31G97

Quality Results - all based on 100% Dry Matter													
Brand	% Crude Protein	% Acid Detergent Fiber (ADF)	% Neutral Detergent Fiber (NDF)	% TDN	% Calcium		% Potassium		% Starch	NDFD 24hr, % of NDF	NDFD 48hr, % of NDF	Milk Lbs./Ton of DM	
L-9H22RR	8.73	A	34.27	52.00	64.67	0.21	ABC	2.16	A	17.33	43.67	57.00	2556
Integra 967 IR	7.80	CDE	30.77	48.10	68.67	0.20	BC	1.75	BCDE	24.67	43.67	59.33	2712
NC+ 7374 RB	7.97	BCD	28.67	45.40	69.33	0.17	D	1.77	BCDE	28.43	46.33	58.33	2783
Dyna-Gro 58K02	7.63	DEF	33.07	51.90	64.33	0.20	C	1.86	ABCDE	21.77	41.33	55.33	2454
Pioneer Brand 31G97	7.07	FG	30.40	48.70	67.33	0.14	F	1.68	DE	23.30	43.67	57.67	2595
RX 940	7.50	DEFG	31.23	49.27	67.00	0.18	D	1.72	CDE	23.77	45.67	58.67	2675
TMF 2H917	7.90	BCD	33.57	51.63	63.67	0.20	BC	2.03	ABC	19.77	43.67	54.67	2504
8221 VT3	7.90	BCD	29.17	46.30	68.67	0.23	A	1.65	DE	28.17	43.67	58.33	2695
DKC63-45	8.63	A	31.63	50.10	66.00	0.21	ABC	2.01	ABC	22.97	43.33	58.00	2583
STP 7808	8.40	ABC	35.03	52.70	65.00	0.22	ABC	2.06	AB	20.37	40.00	57.33	2451
Dairyland 11914	7.83	BCDE	31.73	51.37	65.33	0.18	D	1.85	ABCDE	22.57	42.67	56.33	2533
Pioneer Brand 33F85	7.23	EFG	29.20	45.90	68.67	0.15	EF	1.74	CDE	27.33	46.00	58.67	2748
HT 8720	7.767	DE	31.03	49.93	68.33	0.20	C	1.56	E	24.90	46.67	61.33	2681
ES 7654 RR	8.43	AB	34.13	54.50	65.00	0.18	D	1.95	ABCD	19.27	43.33	59.00	2495
Garst 82K79	6.93	G	29.43	46.83	67.67	0.16	DE	1.65	DE	27.47	45.00	58.33	2678
SX 5470	7.93	BCD	33.03	53.07	66.33	0.17	D	1.76	BCDE	24.23	41.33	58.67	2488
Overall Mean	7.85		31.65	49.86	66.63	0.19		1.83		23.52	43.75	57.94	2601.94
Probability	0.000		0.251	0.207	0.589	0.000		0.017		0.063	0.172	0.252	0.485
LSD .05	0.614		NS	NS	NS	0.034		0.316		NS	NS	NS	NS
Co-efficient of Variability	4.68		9.60	8.15	5.04	10.87		10.38		17.59	6.08	4.15	7.27

Values are the means of 3 replications.

Within a column, values followed by a common letter do not differ at the 5% level of Probability, using Least Significant Difference for mean separation.

Quality was determined by NIRS. "TDN" is Total Digestible Nutrients; "NDFD" is Neutral Detergent Fiber Digestibility