

2006 New Mexico Farmer Silage Trials



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New Mexico 2006 Corn Silage Variety Trial Results - Torrance County, Jim Schwebach Trial 1 Silage (Early Maturity)

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URL for Further Information: www.cahe.nmsu.edu

Trial Description

Year of Harvest (yyyy)	2006	Country	United States	State/Province	NM	Study Design (number of replications):						
Special Test (Describe)	Corn silage trial.			County/Area	Torrance	Replicated Within Site	2					
Soil Name & Texture	clay loam		Soil Depth (inches)	>10.0	Longitude		Replicated Across Sites					
Planting (mm/dd/yy)	4/29/2006	Harvest Date(s) (mm/dd/yy)	9/18/2006	Latitude								
Herbicides/Insecticides	post herbicides, no pre and no insecticides											
Fertilizer Applied (lb/a):	Nitrogen	(P2O5)	(K2O)	Other (specify)		type	lb/a					
Temperature (deg F)	January	February	March	April	May	June	July	August	September	October	November	December
Rain (inches)				63.0	72.6	79.6	79.8	75.3	68.4			
Irrigation (inches)				0.0	0.0	0.0	0.1	0.1	0.2			
Plant Population (number or pounds per acre)	18000		Row Spacing (inches - enter '0' for broadcast)	40.0							Total Rain	0.4
Unusual Conditions (or 'none')	Ample rain at the end of the season, delaying harvest.										Total Irrigation	

Results

Brand/Company	Hybrid/Variety Name	Yield t/a DM	DM at Harvest %	Crude Protein % DM	NDF % DM	NDF % DM	TDN 1X % DM	Fat % DM	Starch % DM	Ash % DM	milk/ton lb/t	milk/acre lb/a
	Trial Mean	7.5703	25.8015	7.4121	46.7426	57.9906	46.7426	2.3806	31.3879	5.5979	2999	22748.4575
	LSD	2.743	9.7051	1.5459	6.3586	5.7389	6.36	0.4642	5.0801	1.3102	348.2857	9235.7653
	LSD P >	0.8247	0.5641	0.8403	0.0393	0.0225	0.0393	0.1306	0.008	0.3696	0.1108	0.6841
	CV	17.0917	17.7436	9.8382	6.417	4.6682	6.417	9.1979	7.6348	11.0409	5.479	19.1516
	F Test	0.628	0.9248	0.6085	2.4596	2.8035	2.4596	1.7676	3.4925	1.1844	1.8597	0.7889
Grand Valley	15A50C	8.66 a	27.365 ab	7.25 a	48.25 ab	64.775 a	48.25 ab	2.01 c	25.29 g	5.64 ab	3103 abc	26869 ab
Grand Valley	25R35CRR	8.53 a	25.875 ab	6.85 a	51.57 a	58.00 bcde	51.57 a	2.01 c	25.69 fg	5.905 ab	2794 cd	23872 ab
Pioneer	33T56	8.46 a	35.27 a	7.85 a	38.495 d	58.86 bcd	38.495 d	2.74 a	38.14 a	5.22 b	3201 ab	27093 a
Grand Valley	23P95PRRR	8.20 a	25.86 ab	7.38 a	41.535 cd	60.37 abc	41.535 cd	2.56 ab	34.645 abc	5.8 ab	3238 a	26591 ab
Pioneer	33J56	8.07 a	28.695 ab	7.76 a	45.645 abc	57.94 bcde	45.645 abc	2.495 ab	35.035 ab	5.555 ab	3060 abc	24761 ab
Grand Valley	23B50CRRY	7.98 a	25.08 b	8.03 a	45.875 abc	62.36 ab	45.875 abc	2.67 a	33.685 abcd	6.215 ab	3128 abc	24942 ab
Grand Valley	24R53CRR	7.85 a	24.57 b	7.565 a	44.97 bc	53.455 de	44.97 bc	2.305 abc	31.265 bcde	5.2 b	2982 abc	23414 ab
Pioneer	32B33P	7.64 a	24.685 b	7.3 a	48.175 ab	55.43 cde	48.175 ab	2.155 bc	29.73 cdefg	5.205 b	2904abcd	22539 ab
Grand Valley	23B53PRRY	7.58 a	24.77 b	8.32 a	51.36 a	52.535 e	51.36 a	2.385 abc	29.825 cdefg	6.765 a	2621 d	19872 ab
NC+	5434RBDRR	7.46 a	26.900 ab	7.195 a	49.72 ab	54.94 cde	49.72 ab	2.475 ab	32.225 bcde	5.615 ab	2845 cd	21213 ab
NC+	6125RBDRR	7.33 a	26.295 ab	7.38 a	45.57 abc	56.975 bcde	45.57 abc	2.525 ab	32.85 bcde	5.58 ab	3043 abc	22341 ab
Grand Valley	X6H23NLL	7.30 a	27.955 ab	7.155 a	45.765 abc	56.02 cde	45.765 abc	2.55 ab	32.345 bcde	5.08 b	2984 abc	21932 ab
NC+	5991BBT	7.24 a	23.975 b	6.995 a	46.91 abc	62.12 ab	46.91 abc	2.145 bc	29.115 defg	5.66 ab	3089 abc	22351 ab
Pioneer	33Y74	7.01 a	24.265 b	6.95 a	45.395 abc	59.365 abc	45.395 abc	2.305 abc	32.82 bcde	5.16 b	3121abc	21767 ab
Pioneer	33R76RR	6.70a	21.62 b	7.635 a	48.765 ab	56.28 cde	48.765 ab	2.44 abc	30.67 bcdef	6.28 ab	2856 bcd	19173 ab
NC+	4973BRRC	6.50 a	23.83 b	7.265 a	45.485 abc	59.455 abc	45.485 abc	2.365 abc	31.885 bcde	5.165 b	3125 abc	20306 ab
Pioneer	33V15	6.17 a	21.615 b	7.125 a	51.14 ab	56.96 bcde	51.14 ab	2.335 abc	28.38 efg	5.1185 b	2881 bcd	17689 b

New Mexico 2006 Corn Silage Variety Trial Results - Torrance County, Jim Schwebach Trial 2 Silage (Late Maturity)

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Trial Description

Year of Harvest (yyyy)	2006	Country	United States	State/Province	NM	Study Design (number of replications):						
Special Test (Describe)	Corn silage trial.			County/Area	ance	Replicated Within Site	2					
Soil Name & Texture	Clay loam	Soil Depth (inches)	>10.0	Longitude		Replicated Across Sites						
Planting (mm/dd/yy)	4/29/2006	Harvest Date(s) (mm/dd/yy)	9/18/2006	Latitude								
Herbicides/Insecticides	post herbicide, no pre and no insecticide											
Fertilizer Applied (lb/a):	Nitrogen	(P2O5)	(K2O)	Other (specify)		type	lb/a					
Temperature (deg F)	January	February	March	April	May	June	July	August	September	October	November	December
Rain (inches)				63.0	72.6	79.6	79.8	75.3	68.4			
Irrigation (inches)				0.0	0.0	0.0	0.1		0.2			
Plant Population (number or pounds per acre)	18000	Row Spacing (inches - enter '0' for broadcast)	40.0	Total Rain	0.4							
Unusual Conditions (or 'none')	e rain at the end of the season, delaying harvest.							Total Irrigation				

Results

Brand/Company	Name	Hybrid/Variety Name	Yield t/a DM	DM at Harvest %	Crude Protein %, DM	NDF %, DM	NDFD % %, DM	TDN 1X %, DM	Fat %, DM	Starch %, DM	Ash %, DM	milk/ton lb/t	milk/acre lb/a
		Trial Mean	7.79	22.9374	7.1403	48.0276	55.1063	65.9249	2.3734	31.0503	5.3726	2912	22748
		LSD	2.48	6.86	1.5868	4.9217	10.8812	6.4194	0.5233	5.10614	0.916	396.3925	8712.009
		LSD P >	0.0796	0.0424	0.4158	0.0036	0.9189	0.2286	0.3191	0.0089	0.0132	0.1037	0.1326
		CV	15.1679	14.286	10.5781	4.8777	9.3986	4.6348	10.4945	7.8274	8.1152	6.4796	18.2288
		F Test	1.962	2.2899	1.1078	3.7382	0.5164	1.4248	1.2512	3.1716	2.9362	1.8263	1.7016
Grand Valley	X14B75P		10.1254 a	26.475 abc	7.42 ab	48.645 cdef	52.69 a	63.8305 abc	2.27 ab	29.14 cde	5.825 abcd	2776 bcd	28321 ab
Grand Valley	X7B28PRYG		9.5822 ab	28.86 ab	7.955 a	47.395 cdefg	54.445 a	65.5918 ab	2.69 a	31.805 abcd	6.12 ab	2889 abc	27673 ab
NC+	6361RBRBR		9.1112 abc	26.26 abc	7.685 ab	42.36 h	57.85 a	69.8011 a	2.595 a	32.575 abc	5.33 bcdefg	3190 a	29049 a
NC+	6125RBD RR		9.0802 abc	30.725 a	6.855 ab	43.645 gh	57.915 a	69.6543 ab	2.395 a	33.545 abc	4.85 fg	3176 a	28816 a
Grand Valley	26B57PRRY		8.4990 abcd	21.99 bcd	6.485 ab	51.515 abc	57.74 a	64.4642 abc	1.855 b	23.18 f	5.965 abc	2762 bcd	23442 abcd
Grand Valley	24B69PRRB		8.4863 abcd	25.89 abc	6.87 ab	46.9 cdefgh	54.8 a	66.8672 ab	2.41 a	32.08 abc	4.905 efg	2988 abc	25266 abcd
Grand Valley	24W55CRRR		8.2333 abcd	22.99 bcd	6.14 b	51.36 abc	52.685 a	63.2956 bc	2.18 ab	29.445 bcde	5.215 bcdefg	2734 cd	22722 abcd
Pioneer	31G91RR		8.1423 abcde	22.985 bcd	6.84 ab	44.04 fgh	59.28 a	69.4897 ab	2.415 a	34.28 ab	5.41 bcdefg	3150 ab	25718 abc
Grand Valley	26B50HRRY		7.7939 abcde	21.08 cd	7.375 ab	53.705 ab	57.715 a	64.3600 abc	2.31 ab	26.7 def	5.77 abcde	2758 bcd	21375 abcd
Pioneer	31G67RR		7.7609 abcde	25.405 abc	7.355 ab	46.34 cdefgh	56.055 a	67.6620 ab	2.32 ab	30.7 abcde	4.715 fg	3040 abc	23831 abcd
Grand Valley	25B96PRR		7.5726 bcde	21.755 cd	6.675 ab	50.36 abcd	54.7 a	65.1861 abc	2.335 ab	30.555 abcde	5.005 defg	2856 abc	21661 abcd
Pioneer	33R76RR		7.4193 bcde	21.7 cd	6.37 ab	48.535 cdefg	51.99 a	64.5831 abc	2.35 ab	33.95 abc	5.095 cdefg	2839 abc	21088 abcd
Pioneer	31G96RR		7.1263 bcde	20.38 cd	6.84 ab	47.86 cdefg	55.415 a	66.4416 ab	2.175 ab	29.88 bcde	4.875 efg	2948 abc	20982 abcd
NC+	RE689RRRP		7.0790 cde	21.23 cd	7.905 a	48.915 bcdef	55.57 a	64.7553 abc	2.485 a	30.445 abcde	6.535 a	2812 abcd	20068 bcd
Pioneer	32B32RRP2		6.8599 cde	21.78 cd	7.855 a	45.255 e fgh	54.715 a	67.3598 ab	2.645 a	35.175 a	5.325 bcdefg	3026 abc	20763 abcd
NC+	7371RR		6.8567 cde	17.765 d	7.2 ab	54.445 a	48.405 a	58.8223 c	2.23 ab	26.625 ef	6.04 ab	2438 d	16848 d
Pioneer	33V14RRP2		6.3473 de	21.47 cd	6.38 ab	49.33 bcde	52.245 a	65.0143 abc	2.45 a	33.45 abc	4.545 g	2872 abc	18233 cd
Grand Valley	15A50C		6.3036 de	20.265 cd	6.95 ab	46.86 cdefgh	57.435 a	67.4339 ab	2.345 ab	31.39 abcde	5.48 bcdef	3004 abc	18877 cd
Pioneer	32T22RR		5.7137 e	16.805 d	7.735 a	45.06 e fgh	55.37 a	67.9604 ab	2.64 a	35.035 a	5.075 cdefg	3068 abc	17486 cd

New Mexico 2006 Corn Silage Variety Trial Results - Dona Ana County, Jerry Tallmon Trial 1 Silage

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Trial Description

Year of Harvest (yyyy)	2006	Country	United States	State/Province		Study Design (number of replications):						
Special Test (Describe)	Corn silage trial.			County/Area	a Ana	Replicated Within Site	3					
Soil Name & Texture	clay loam	Soil Depth (inches)	>10.0	Longitude	31°53.634N	Replicated Across Sites						
				Latitude	106°38.908W							
Planting (mm/dd/yy)	5/11/2006	Harvest Date(s) (mm/dd/yy)	8/27/2006									
Herbicides/Insecticides	post herbicides, no pre and no insecticides											
Fertilizer Applied (lb/a):	Nitrogen	250	(P2O5)	60	(K2O)	40	Other (specify)	manure	500			
								type	lb/a	type	lb/a	
Temperature (deg F)	January	February	March	April	May	June	July	August	September	October	November	December
Rain (inches)					74.7	79.6	79.8	75.3	68.1			
Irrigation (inches)				6.0	8.0	8.0		0.1	0.2			
Plant Population (number or pounds per acre)	32500		Row Spacing (inches - enter '0' for broadcast)	40.0			Total Rain	0.4				
Unusual Conditions (or 'none')	Ample rain at the end of the season, delaying harvest.						Total Irrigation	22.0				

Results

Brand/Company Name	Hybrid/Variety Name	Yield t/a DM	DM at Harvest %	Crude Protein % DM	NDF % DM	NDFD % DM	TDN 1X % DM	Fat % DM	Starch % DM	Ash % DM	milk/ton lb/t	milk/acre lb/a
	Trial Mean	9.32	46.3467	7.1464	45.0360	58.9478	60.5264	1	7920	6.2826	2433.22	23069.51
	LSD	2.56	10.82	0.94	13.57	6.55	7.90	1	9.181	2.3831	598.31	14969.64
	LSD P >	0.0035	0.0594	0.0858	0.4985	0.1929	0.6591	0	4993	0.5675	0.7244	0.0283
		29.2347	0.1361	14.0102	17.5654		.6057	35.6846	43.3534	22.1120	14.3344	37.8276
		4.2047	2.2686	2.0453	0.9781	1.5639	.7766	0.8863	0.977	0.8883	0.6988	2.7336
DeKalb (Monsanto)	DKC64-77AF	13.678a	51.04ab	6.30b	42.05ab	60.34ab	62.96ab	2.24a	33.02ab	5.37b	2623.80a	35124.54a
Asgrow (Monsanto)	RX940RR2AF	11.0213ab	39.11c	9.17a	48.45ab	60.56ab	59.27ab	1.48a	20.52ab	6.15ab	2350.70a	26122.47ab
DeKalb (Monsanto)	DKC69-68AF	10.2396abc	57.55a	6.24b	40.94ab	55.30bc	61.04ab	2.59a	36.39a	5.64ab	2506.21a	26184.00ab
Triumph	T1756CBRR	9.5782abc	45.74bc	6.89b	39.29b	63.89a	64.05a	2.15a	30.01ab	5.91ab	2667.62a	24733.60ab
DeKalb (Monsanto)	DKC69-71AF	9.5433abc	47.52abc	6.89b	53.54a	53.45c	55.35b	1.54a	19.04ab	7.32ab	2085.16a	20481.55ab
Grand Valley	GV25B93RR	9.5178abc	47.83abc	7.26b	40.71ab	59.13abc	61.75ab	2.16a	30.63ab	5.70ab	2540.04a	26535.78ab
Dyna-Gro	DG58K22RR	9.4851abc	43.26bc	7.42b	43.12ab	60.85ab	61.33ab	1.82a	25.03ab	6.47ab	2473.88a	24122.21ab
Asgrow (Monsanto)	RX940RR2AR2	7.5234bc	39.09c	6.89b	51.80ab	56.96bc	58.39ab	1.45a	14.17b	8.01a	2236.72a	16692.21b
DeKalb (Monsanto)	DKC66-23AR2	6.4730bc	46.19bc	6.99b	45.24ab	59.71abc	60.27ab	1.71a	24.56ab	5.98ab	2398.35a	15607.08b
DeKalb (Monsanto)	DKC68-28AF2	6.1780c	46.14bc	7.43b	45.21ab	59.29abc	60.87ab	1.74a	24.54ab	6.29ab	2449.66a	15091.64b

New Mexico 2006 Corn Silage Variety Trial Results - Dona Ana County, Jerry Tallmon Trial 2 Silage

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Trial Description

Year of Harvest (yyyy)	2006	Country	United States	State/Province	M	Study Design (number of replications):						
Special Test (Describe)	corn silage trial.			County/Area	Dona Ana	Replicated Within Site	4					
Soil Name & Texture	clay loam	Soil Depth (inches)	>10.0	Longitude	106°38.948W	Replicated Across Sites						
Planting (mm/dd/yy)	12/2006	Harvest Date(s) (mm/dd/yy)	8/27/2006	Latitude								
Herbicides/Insecticides	Post herbicide, no pre and no insecticide											
Fertilizer Applied (lb/a):	Nitrogen	250	(P2O5)	60	(K2O)	40	Other (specify) type lb/a type lb/a					
							nure 500					
Temperature (deg F)	January	February	March	April	May	June	July	August	September	October	November	December
Rain (inches)					74.7	79.6	79.8	75.3	68.1			
Irrigation (inches)				6.0	8.0	8.0						
Plant Population (number or pounds per acre)	32500		Row Spacing (inches - enter '0' for broadcast)	40.0				Total Rain	0.4			
Unusual Conditions (or 'none')	Ample rain at the end of the season, delaying harvest.							Total Irrigation	22.0			

Results

Brand/Company Name	Hybrid/Variety Name	Yield t/a DM	DM at Harvest %	Crude Protein % DM	NDF % DM	NDFD % DM	TDN 1X % DM	Fat % DM	Starch % DM	Ash % DM	milk/ton lb/t	milk/acre lb/a
	Tria	2	46.7848	6.63	43	57.2891	60.285	2.0	27.8104	5.7852	2425.6907	29.2964
	LS	3	11.85	1.2348	14.4091	5.4203	7.2768	1.316	19.0923	0.8328	563.5123	8125.8198
	F Test	4	14.4604	10.63	19.0613	5.4028	6.8927	38.3484	39.2023	10.6118	13.2657	34.9714
		1.5495	1.0568	1.6176	0.1849	3.2858	0.5325	0.1444	0.1395	1.0648	0.3753	0.9168
DeKalb (Monsanto)	DKC66-23	8.1797a	47.98a	6.95ab	42.89a	59.99a	61.54a	1.96a	26.32a	5.98ab	2498.67a	20538.49a
DeKalb (Monsanto)	DKC69-68AF	7.8338ab	46.30a	6.71ab	42.49a	57.90ab	61.20a	2.04a	29.08a	5.92ab	2494.95a	19600.1810a
Dyna-Gro	DG58K40	7.8017ab	50.19a	5.89b	44.56a	52.51c	59.16a	2.25a	31.21a	5.66ab	2381.39a	18556.56a
Triumph	T1416Bt	7.1874ab	46.54a	7.03a	44.59a	58.19ab	59.16a	1.76a	24.04a	6.28a	2327.31a	17109.49a
Asgrow (Monsanto)	RX940RR2AF	5.8268ab	49.80a	6.36ab	43.38a	54.37bc	58.60a	1.89a	27.58a	5.20b	2311.52a	13786.22a
Triumph	T1866Bt	5.0124b	40.65a	6.77ab	41.15a	60.07a	59.03a	1.85a	28.58a	5.53ab	2511.77a	12349.08a