

New Mexico 2019 Grain Corn Performance Test - Agricultural Science Center at Clovis

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Test Description

Location:

County/Area: Curry
 Longitude: -103.22
 Latitude: 34.60
 Elevation: 4435 ft.
 Soil Name: Olton
 Soil Texture: clay loam
 Soil Depth: >60 in.

Test Design:

Replications: 3
 Plot Length: 20 ft.
 Rows per Plot: 2
 Row Spacing: 30 in.
 Seeding Rate: 27,000 seed/a

Management Practices:

Previous Crop: fallow
 Planting Date: 22-May
 Harvest Date: 1-Nov

Production Inputs

	Rate	Date
Fertilizer:		
Nitrogen	38 lb/ac	carryover
Nitrogen	78 lb/ac	pre plant
S	25 lb/ac	pre plant
Nitrogen	18 lb/ac	6-Feb
Phos	60 lb/ac	6-Feb
Chelated Zn	3 lb/ac	6-Feb
Nitrogen	90 lb/ac	24-May
Phos	3 lb/ac	24-May
Herbicides:		
Atrazine	1 pt/ac	pre plant
Balance Flexx	3 oz/ac	pre plant
LV 6	1 pt/ac	pre plant
Glyphosate	32 oz/ac	pre plant
Atrazine	1 pt/ac	24-May
Glyphosate	32 oz/ac	24-May
Verdict	10 oz/ac	24-May
DiFlex Duo	32 oz/ac	1-Jul
Warrant	2 qt/ac	1-Jul
Insecticides:		
Onager	16 oz/ac	1-Jul
Prevathon	20 oz/ac	30-Jul
Oberon	8 oz/ac	30-Jul
Fungicides:		
Stratego Yield	5 oz/ac	30-Jul

Growing Conditions:

	Average Temp. °F	Precip. in.	Irrigation in.
January	38.5		
February	41.4		
March	45.7		
April	56.0		
May 22-31	63.2	0.95	1.40
June	72.7	2.09	3.20
July	78.0	4.45	5.30
August	78.5	3.15	4.40
September	74.0	0.06	1.70
October	58.5	7.53	
November	43.0		
December			

Seasonal Precipitation: 18.2 in.

Total Irrigation: 16.0 in.

Date of Last Spring Frost: 15-Apr

Date of First Fall Frost: 11-Oct

Frost Free Period: 178 days

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Brand/Company Name	Hybrid/Variety Name	Moisture					Silk Date
		Grain Yield bu/a	at Harvest %	Test Weight lb/bu	Plant Height in	Ear Height in	
Dyna-Gro	D55VC80	270.5	13.3	61.4	120.3	48.4	31-Jul
Dyna-Gro	D54VC14	265.6	13.3	62.2	122.7	57.0	29-Jul
Dyna-Gro	D57VC17	264.1	14.0	61.7	106.0	43.3	30-Jul
Dyna-Gro	D57VC51	262.9	14.8	61.8	112.3	51.2	30-Jul
Dyna-Gro	CX18116	262.0	13.7	60.7	111.7	50.8	28-Jul
Dyna-Gro	D58VC65	256.1	14.2	62.1	115.3	52.6	30-Jul
Dyna-Gro	D53TC19	255.0	13.4	61.4	105.3	50.1	26-Jul
Dyna-Gro	CX18413	252.1	13.5	60.8	120.0	49.1	28-Jul
LG Seeds	LG64C30TRC	249.5	13.8	62.0	109.0	48.8	27-Jul
LG Seeds	LG66C32VT2PRO	244.2	14.3	61.7	123.0	47.5	30-Jul
Dyna-Gro	D52VC15	226.0	12.9	61.4	106.7	47.4	27-Jul
	Trial Mean	255.0	13.7	61.6	113.0	49.7	30-Jul
	LSD (P > 0.05)	33.0	0.86	0.79	2.4	2.2	4.3
	CV	91.00	3.66	0.75	1.22	2.58	1.20
	F Test	0.3664	0.0066	0.0100	<.0001	<.0001	0.2116