

New Mexico 2020 Grain Corn Performance Test - Agricultural Science Center at Clovis

Investigators: A. Mesbah, A. Scott, and B. Niece

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: 12-May
 Harvest Date: 6-Oct

Production Inputs

	Rate	Date
Fertilizer:		
Nitrogen	13 lb/ac	carryover
Nitrogen	40 lb/ac	pre plant
Zn	3 qt/ac	pre plant
Phos	47 lb/ac	pre plant
S	22 lb/ac	13-May
Nitrogen	122 lb/ac	13-May
Herbicides:		
Panther	2 oz/ac	pre plant
LV 6	20 oz/ac	pre plant
Glyphosate	32 oz/ac	pre plant
DiFlexx	16 oz/ac	13-May
Atrazine	1 pt/ac	13-May
Balance Flex	3 oz/ac	13-May
Warrant	1.5 qt/ac	13-May
DiFlexx	16 oz/ac	15-Jun
Warrant	2 qt/ac	15-Jun
Insecticides:		
Onager	16 oz/ac	15-Jun
Prevathon	20 oz/ac	31-Jul
Oberon	8 oz/ac	31-Jul

Growing Conditions:

	Average Temp. °F	Precip. in.	Irrigation in.
January	38.2		
February	38.0		
March	51.0		
April	53.9		
May 12-31	67.2	0.05	2.5
June	75.8	1.16	2.2
July	79.0	3.90	6.25
August	79.0	0.55	7.9
September	65.5	0.04	2.20
October 1-6	66.0	0.00	0.20
November			
December			

Seasonal Precipitation: 5.7 in.
 Total Irrigation: 21.3 in.

Date of Last Spring Frost: 18-Apr
 Date of First Fall Frost: 17-Oct
 Frost Free Period: 186 days

New Mexico 2020 Grain Corn Performance Test - Agricultural Science Center at Clovis

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 Seed	D54VC34	273.7	14.8	60.7	93.3	45.7	25-Jul
Dyna-Gro Seed	D58VC65	269.4	16.4	61.1	92.0	44.9	20-Jul
Dyna-Gro Seed	D55VC80	267.8	16.1	59.9	97.0	48.9	24-Jul
LG Seeds	LG66C44VT2PRO	265.4	13.7	61.2	88.3	42.0	20-Jul
Dyna-Gro Seed	D57VC17	260.3	15.3	61.0	92.0	45.7	26-Jul
Dyna-Gro Seed	D52DC82	251.1	14.3	59.8	95.0	48.0	26-Jul
Dyna-Gro Seed	D54VC14	250.2	14.5	61.8	87.0	41.6	26-Jul
LG Seeds	LG66C32VT2PRO	248.9	16.3	61.6	85.3	42.9	27-Jul
LG Seeds	LG67C45STX	246.2	14.8	61.4	93.0	47.6	26-Jul
Dyna-Gro Seed	D54SS74	241.0	14.1	61.3	88.3	40.7	19-Jul
Dyna-Gro Seed	D58VC90	240.9	15.8	60.7	90.7	45.9	20-Jul
Dyna-Gro Seed	D53VC33	239.9	14.1	60.2	95.0	44.4	24-Jul
	Trial Mean	254.6	15.0	60.9	91.4	44.9	23-Jul
	LSD (P > 0.05)	25.0	2.13	1.71	4.5	3.7	2.8
	CV	5.79	8.39	1.66	2.92	4.90	0.81
	F Test	0.3795	0.2008	0.6862	0.0129	0.2165	0.2010