

Table 1. Continued.

Entry No.	Entry	Days to 50% Bloom ^{1/}			Height in cm ^{2/}		
		Yuma 110m	Tucson 1920m	Lakeside ^{3/} 6220m	Yuma	Tucson	Lakeside
56	Funks 102F	108	79		252	215	
57	Funks 102S	105	79		272	230	
58	Funks 99F	164	Veg.		310	305	
59	Funks HW 4060	80	73		258	215	
60	NK X 7984 F	74	62	110	235	215	61

^{1/} Planted in moisture: Yuma = 9 May 1980
 Tucson = 6 May 1980
 Lakeside = 13 June 1980

^{2/} Plant height was measured to the top of the average plant head.

^{3/} Those entries that didn't flower are indicated as vegetative, in early boot or in the boot stage.

Corn Variety Demonstration

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Elevation: 4400 feet

Crop History:

Planted: April 17, 1980

Harvested: October 2, 1980

Seeding Rate: 33,000 plants/A

Previous Crop: Corn

Insecticides: 10 lbs of Furadan (1.0 lb of active ingredient/A) were incorporated at planting. One quart/acre of Sevimol 4 (1.0 lb active ingredient/acre) was applied 3 times during the growing season. Molasses is included in this formulation.

Weed Control: Three quarts of Sutan and 3 quarts/acre each of Bladex were incorporated prior to planting.

Cultivation: One cultivation was performed.

Fertilization:

Amount/A	Source	Time of Application	lbs. N/acre	lbs. P ₂ O ₅ /acre
250	18-46-0	Prior to planting	45	115
300	NH ₃	Prior to planting	250	
300	UN32	1st to 21st of July divided into 5 appli- cations	96	
Total			391	115

Soil Analysis^{1/}

Date of Sample: 3-18-80

pH = 6.4 (paste with distilled H₂O);

EC_e x 10³ = 0.8 (to convert EC_e x 10³ to soluble salts, multiply EC_e x 10³ x 700);

Soluble salts = 560 ppm

N = 26 ppm (Nitrate reported as N. To convert N to NO₃, multiply N x 4.4);

P = 44 ppm (Bray P. Phosphate reported as P. To convert P to PO₄, multiply P by 3.1).

Plant Analysis:^{1/}

Date of Sample: 6-24-80

Growth Stage: 8-10 leaf

Plant part: whole plant

	<u>Nitrogen %</u>	<u>Phosphorus %</u>	<u>Zinc, ppm</u>
Critical Level	3.65	0.33	35
Sufficient Range	3.0	0.3	20
	3.5-5.0	0.4-0.8	25-70

Date of Sample: 7-14-80
 Growth Stage: Silking
 Plant Part: Leaf

	<u>Nitrogen %</u>	<u>Phosphorus %</u>	<u>Zinc, ppm</u>
Critical Level	2.97	0.32	23
Sufficient Range	2.5	0.2	15
	2.7-3.5	0.25-0.4	20-50

Irrigation: 32 acre inches/acre of well water were applied through a center pivot sprinkler.
 Plot Size: 12 x 1000 feet.

Variety	Yield (lbs/plot) ²				Ave. Yield (lbs/plot)	Harvest Moisture (%)	Bu.Wt. (lbs)	Yield ³ (lbs/A)
	Rep 1	Rep 2	Rep 3	Rep 4				
Asgrow RX 777	2960	2990	3050	--	3000	22.5	56	10890a
DeKalb XL 71	--	--	2880	2930	2910	28.0	54	10560ab
Pioneer 3183	2870	2830	2930	2900	2880	31.7	53	10450ab
WAC 917	2680	2920	2790	-	2800	25.9	53	10160abc
Cargill 967	2360	2810	2840	3030	2760	26.4	53	10020 bc
MOEWs Wm 724	2700	2780	2740	2750	2740	26.4	54	9950 bc
DeKalb XL 74A	--	--	2800	2560	2720	29.5	51	9870 bcd
Asgrow RX 90	2450	2820	2740	2800	2700	25.7	53	9800 bcd
Acco 8201	2680	2760	2710	2660	2700	25.2	54	9800 bcd
McNair X210	2680	2710	--	--	2670	25.6	54	9690 bcde
NK Px 74	2580	2620	2570	2560	2580	26.2	53	9370 cde
Funks 4673	2410	2650	2460	2770	2570	28.7	54	9330 cde
Acco 8951	2470	2620	2520	2660	2570	27.5	54	9330 cde
DeKalb XL 390 B	--	--	2556	2490	2520	28.6	53	9150 cde
Trojan txs 115A	2370	2630	2550	2450	2500	26.4	53	9075 de
Cargill 949	2300	2550	2490	2540	2470	25.8	53	8960 de
NC+59	2330	2570	2460	-	2460	25.4	54	8930 de
Ferry Morse 3020	2420	2430	2420	2330	2400	26.4	54	8710 e
DeKalb XL 72aa	2130	2340	2190	2240	2220	26.7	54	8060 f

1/ Laboratory consultants, PO Box 27381, Tempe, Arizona 85282

2/ All yield data adjusted to a 15.5 moisture content.

3/ Means followed by same letter are not significantly different at the .05 level by Student-Newman-Keuls' Test.