



Comparison of time to silk should not be made between varieties grown at different localities.

In table 1 it will be noted that all varieties matured well under Akron conditions. Three bushel weights, however, were slightly below standard. In table 2 several of the hybrids showed light bushel weights and take slightly longer periods to silk. The table indicates that in the 2 years of the test, hybrids taking more than 66½ days to silk have bushel weights 2 or 3 pounds below standard.

Table 1. Average yield and agronomic data of hybrid and open-pollinated corn varieties grown at the U. S. Dry Land Field Station for varying periods of years from 1939 to 1943, inclusive.

Variety or Hybrid	Acre yield shelled corn <sup>1</sup>	Wt. per measured bushel <sup>3</sup>	Days to silk <sup>3</sup>	Plants with suckers <sup>3</sup>	Smutted <sup>3</sup> plants
	Bus.,	Lbs.	Number	Pct.	Pct.
Funk G-7	20.2	52.7	72.9	10.6	3.8
Wisconsin 625	19.8	52.8	73.9	9.8	4.1
Minhybrid 403	19.8	56.0	70.3	13.8	5.1
Akron White <sup>2</sup>	19.7	54.9	69.8	21.9	4.2
Wisconsin 570	18.9	53.0	72.8	7.7	6.4
Akron Yellow <sup>2</sup>	18.1	56.0	67.4	10.9	8.7
Colorado 13 <sup>2</sup>	16.9	54.0	71.4	1.6	8.8

<sup>1</sup> 5-year average on basis of 15.5 percent moisture.

<sup>2</sup> Open-pollinated varieties.

<sup>3</sup> 4-year average.

Table 2. Average yield and agronomic data of hybrid and open-pollinated corn varieties grown at the U. S. Dry Land Field Station for a 2-year period, 1942-1943.

Variety or Hybrid	Acre yield shelled corn <sup>1</sup>	Wt. per measured bushel	Days to silk	Plants with suckers	Smutted plants
	Bus.	Lbs.	Number	Pct.	Pct.
Funk G-7	35.4	51.2	67.5	13.2	2.4
Wisconsin 570	35.1	53.1	65.9	11.2	4.6
Wisconsin 645	34.8	51.4	67.9	8.3	2.6
Colorado 13 <sup>2</sup>	34.7	54.2	65.5	2.7	9.1
Akron White <sup>2</sup>	34.2	54.4	64.7	39.6	7.1
Wisconsin 625	33.4	51.9	69.4	15.2	2.8
Akron Yellow <sup>2</sup>	32.8	55.4	64.8	15.6	8.3
Minhybrid 403	32.2	55.2	66.5	17.9	5.6
Wisconsin 696	29.5	51.2	71.4	17.7	3.7
Pioneer 334	17.2	46.0	73.5	39.8	5.3

<sup>1</sup> Shelled corn on 15.5 percent moisture basis.

<sup>2</sup> Open-pollinated varieties.

Difference to be significant - 7.37 bushels.

Average yield of all varieties - 31.9 bushels.

Table 3. Average yields and agronomic data of corn hybrids and open-pollinated varieties tested at the U. S. Dry Land Field Station in 1943.

Rank	Hybrid or variety	Acres yield shelled corn (1) Bus.	Wt. per bushel Lbs.	Days to silking Number	Moisture in corn (2) Pct.	Plants with suckers Pct.	Smutted plants Pct.	Broken or lodged stalks Pct.
1	Wisconsin 570	37.9	55.1	62.8	15.0	20.8	5.1	21.5
2	Funk G-7	35.7	54.2	64.0	16.9	25.8	3.5	13.3
3	Colorado 13(3)	35.1	55.2	61.0	14.1	4.9	16.0	30.9
4	Akron Yellow(3)	34.6	57.7	60.5	15.7	31.2	14.1	33.8
5	Minhybrid 403	34.1	58.1	62.0	13.6	34.6	10.0	14.0
6	Wisconsin 696	34.1	54.8	66.8	23.3	34.1	6.2	16.2
7	Wisconsin 625	33.5	55.7	64.8	18.1	29.9	3.7	28.0
8	Funk G-550W	33.2	55.2	69.0	17.4	68.4	4.0	36.4
9	Wisconsin 645	32.8	54.4	63.8	25.2	14.8	2.9	21.7
10	Reids National 110W	32.4	54.4	66.0	15.6	94.6	4.2	33.3
11	Akron White (3)	31.6	55.0	60.3	18.3	50.4	12.0	31.3
12	Sure Crop (3)	31.8	56.0	59.6	16.0	68.3	12.2	35.7
13	Funk G-11	31.3	55.6	67.0	18.7	26.7	3.0	11.5
14	Local Strain Y.D. (3)	29.0	55.1	62.5	25.0	79.9	12.4	35.0
15	DeKalb 458	26.1	53.7	68.8	27.3	29.3	4.2	18.1
16	Funk G-65	25.3	52.0	68.8	32.4	73.2	9.6	28.8
17	DeKalb 404-A	24.4	55.4	66.5	23.3	28.2	3.9	22.8
18	Pioneer 333	20.7	53.7	70.3	26.6	49.6	5.8	8.5
19	Pioneer 334	16.6	52.0	68.0	28.4	78.1	9.8	17.7
20	Pioneer 300	15.8	48.8	71.5	38.9	74.0	7.6	16.6
21	Golden Republic (3)	15.0	52.4	72.5	36.9	122.5	11.1	43.1

(1) Bushels of shelled corn per acre 15.5 percent moisture basis.

(2) Moisture in ear at harvest.

(3) Open-pollinated varieties

Difference to be significant = 7.47 bushels

Mean yield of all varieties = 29.1 bushels