

Maturity Ratings of Corn Hybrids
Registered for Sale in
Minnesota in
1943

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Agricultural Experiment Station

UNIVERSITY OF MINNESOTA

CONTENTS

	Page
Map of corn maturity zones.....	4
Index of hybrid designation in tables and name of hybrid producer	6
Classification for maturity of hybrids registered for sale in Southern zone	7
Classification for maturity of hybrids registered for sale in South Central zone	11
Classification for maturity of hybrids registered for sale in Central zone.....	13
Classification for maturity of hybrids registered for sale in North Central zone	14
Classification for maturity of hybrids registered for sale in Northern zone	15

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HYBRID CORN varieties of commercial seed companies and experiment station origin that were registered for sale in the state of Minnesota for the 1943 growing season were grown in trial plots in 1943 and their moisture content at time of husking was determined. This comparison seems the most desirable one that can be made to determine the adaptability of hybrids to the various corn-growing regions of Minnesota. A map indicating the five corn maturity zones of the state is presented on page 4.

SEED FOR THE TRIALS was obtained from retail seed dealers. Each hybrid was planted in three replications in trials in each of three different counties located in the maturity zone for which the hybrid was registered for sale. Each plot was harvested separately and moisture percentages were determined at time of harvest.

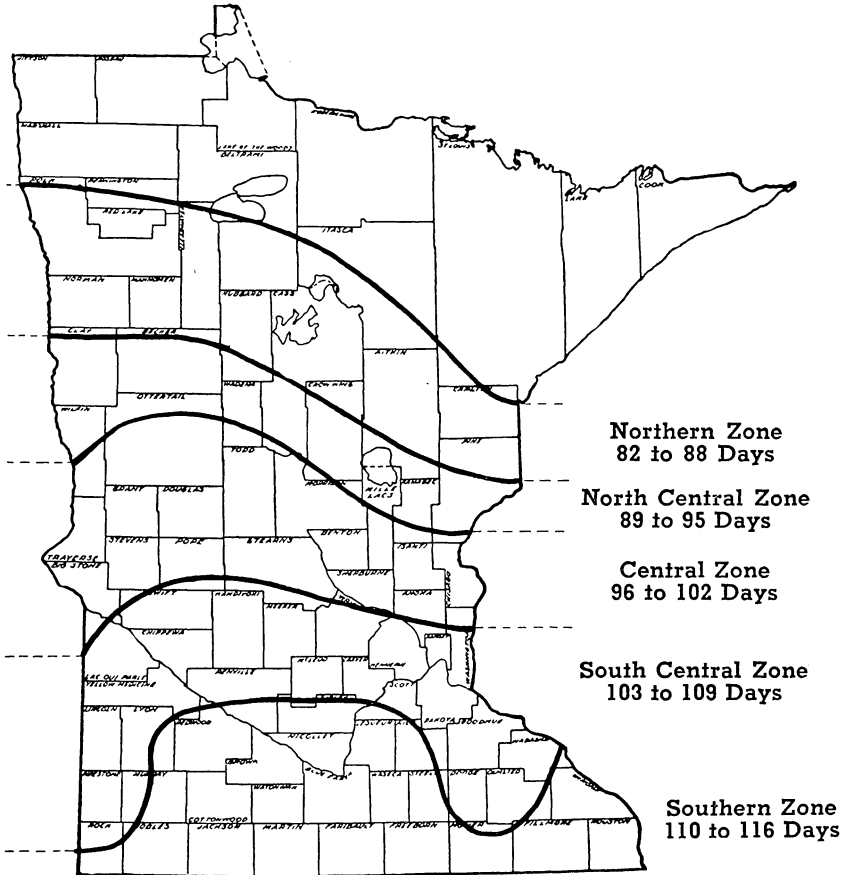
Data from each trial within a maturity zone were averaged and if a hybrid was tested in the same zone in 1942 an average per cent moisture for the 1942-43 period was obtained. The hybrids tested for two years in a zone were arranged in order according to their average moisture percentages for 1942-43. The hybrids tested only in 1943 were grouped in the tables among those tested for two years by using the

1943 moisture percentages. An average least significant difference in moisture percentage was calculated to give odds of 19:1 that a difference as great as this was a true difference. The calculated significant difference was used to aid in establishing maturity classes with the class centers differing by the least significant difference.

The average moisture percentages for 1942-43 are given in table 1 for Minhybrid varieties that have matured satisfactorily, on the average, in the respective zones. This table also gives the estimated days of maturity for the average moisture content and the calculated minimum levels of significance used to establish maturity classes for each of the five corn maturity zones in Minnesota.

¹ Acknowledgment is made to the State Department of Agriculture, Dairy and Food for collecting samples from seed stocks offered for sale and for aid in financing the labor costs of seed preparation, planting, and harvesting. The Minnesota Agricultural Experiment Station assumes entire responsibility for the analysis of the data.

MATURITY ZONES



Zones indicate the approximate number of days growing season that may be expected from emergence after planting to maturity, the stage of being well denting before a killing frost.

The method of utilizing the least significant difference for establishing the limits of the maturity classes is presented for the South Central zone. All other zones were handled in a similar manner. The average moisture percentage at husking for Minhybrids 301, 500, and 502 is 29.4 per cent (table 1). This average is used as the center of the maturity class rated as 104-108 days. As the least significant difference is 1.1 the range of this class is from 28.9

to 29.9 per cent and the range within each class is 1.1 in moisture percentage at husking. Class centers above and below this class differ from 29.4 by + or -1.1.

Hybrids considered too early or too late for a zone were grown also, and their moisture content in relation to the size of the calculated error was used to establish days of maturity for the various classes.

The moisture percentage data are

Table 1. Average Moisture Percentages for 1942-43 of Minhybrid Varieties and the Least Significant Differences That Were Used To Establish Maturity Classes for Each of the Five Corn Maturity Zones

Zone	Minhybrid	Average per cent moisture 1942-43	Maturity rating in days
SOUTHERN	Minhybrid 403	25.8	
	Minhybrid 404	25.7	
	Minhybrid 405	27.4	
		Average 26.3 = class center for 108-112 days	
	Least significant difference at 5 per cent point =	1.4	
SOUTH CENTRAL	Minhybrid 301	30.3	
	Minhybrid 500	29.2	
	Minhybrid 502	28.6	
		Average 29.4 = class center for 104-108 days	
	Least significant difference at 5 per cent point =	1.1	
CENTRAL	Minhybrid 600	33.6	
	Minhybrid 601	34.6	
	Minhybrid 603	37.5	
	Minhybrid 604	36.0	
		Average 35.4 = class center for 97-101 days	
	Least significant difference at 5 per cent point =	1.6	
NORTH CENTRAL	Minhybrid 700	35.4	
	Minhybrid 701	35.5	
	Minhybrid 702	34.2	
		Average 35.0 = class center for 88-92 days	
	Least significant difference at 5 per cent point =	1.7	
NORTHERN	Minhybrid 800	36.5	
	Minhybrid 402	36.4	
		Average 36.5 = class center for 85-89 days	
	Least significant difference at 5 per cent point =	1.0	

summarized in tables 2 to 6. An index containing the name of the producer and the designation of his hybrids as used in the tables is presented on page 6.

Table 2 includes 217 hybrids registered for sale in the Southern zone for the 1943 growing season. A large percentage of these 217 hybrids are later than Minhybrid 405 which in station trials seems well adapted to this zone. Ninety-one hybrids have been given day ratings with averages above the 116-day upper limit for the Southern zone. These 91 are those having maturity ratings of 116-120 days, or

higher, and apparently are too late to be well adapted to this zone.

Table 3 includes 80 hybrids registered for sale in the South Central zone for the 1943 growing season. Twenty-three of these hybrids are not well adapted to this zone as they have an average maturity rating above 109 days which is the upper day limit for the zone. These 23 are those having a rating of 108-112 days or above.

Table 4 includes 42 corn hybrids registered for sale in the Central zone for the 1943 growing season. Twelve of these hybrids have an average maturity rating which places them outside

INDEX OF HYBRIDS AND PRODUCERS

Hybrid Designation	Name of Producer
Brookfield.....	Brookfield Seed Co.
Crystal.....	Cargill Inc., Seed Division
DeKalb.....	DeKalb Agricultural Association
Eggerth.....	Charles Eggerth
Epley.....	Epley Bros.
Farmers.....	Farmers Hybrid Seed Corn Co.
Funk Bros.....	Funk Bros. Seed Co.
Gold Seal.....	Cargill Inc., Seed Division
Gurney's.....	Gurney's Inc.
Haapala.....	Levi Haapala & Sons
Henry Field.....	Henry Field Seed Co.
Hibbs.....	L. T. Hibbs & Sons
Iowealth.....	Michael-Leonard Co.
Jacques.....	Jacques Seed Co.
Kingscrot.....	Northrup King & Co.
Knudsen.....	F. N. Knudsen
Lowe.....	Lowe Seed Co.
Master.....	Farmer Seed & Nursery Co.
Matheson.....	L. V. Matheson
McNeilly.....	J. R. McNeilly
Minhybrid.....	Minn. Agr. Expt. Station
Minn. Seed Co.....	Minnesota Seed Co.
Mullins.....	Mullins Hybrid Corn Co.
Northrup King.....	Northrup King & Co.
Parcaut's.....	Frank Parcaut
Pfister.....	Pfister Associated Growers, Inc.
Pioneer.....	Pioneer Hi-Bred Corn Co.
Pointer.....	Nelson-Lenhardt Co., Inc.
Quiram's.....	Charles Quiram
Reid-Bred.....	Reid Hybrid Corn Co.
Reid-National.....	Reid Hybrid Corn Co.
Thompson.....	Thompson Hybrid Corn Co.
Todd.....	Lester Todd & Sons
Turner.....	Turner Hybrid Seed Co.
Twin City Seed.....	Twin City Seed Co.
Vinton.....	Vinton Hybrid Corn Co.
Wisconsin.....	Wisconsin Agr. Expt. Station

of the 102-day upper limit of the zone. These 12 hybrids have a rating of 101-105 days, or more, and are not well adapted to this zone.

Table 5 includes 33 corn hybrids registered for sale in the North Central zone for the 1943 growing season. Only three of these hybrids received maturity day ratings with averages exceeding the upper limit of 95 days for the zone. These are the ones listed with

maturity ratings of 94-98 or more days and are not well adapted to this zone.

Table 6 includes 19 corn hybrids registered for sale in the Northern zone for the 1943 growing season. Seven of these have an average day rating which exceeds the upper limit of 88 days for the Northern zone. These seven are not well adapted to this zone and are the ones listed as having maturity ratings of 87-91 days or higher.

MATURITY RATINGS OF CORN HYBRIDS

Table 2. Corn Hybrids Registered for Sale in the Southern Zone and Tested in 1942 in Faribault, Fillmore, and Murray Counties and in 1943 at Waseca Branch Station and in Redwood and Jackson Counties

Maturity classes	Variety name	Average per cent moisture		Maturity rating in days Minn. Expt. Sta.
		1943	1942-43	
24.3-25.6 per cent	Brookfield 41	24.1		106-110
	Reid-National 110 ₁	24.2		
	Kingscrot KN-2	24.3		
	Twin City Seed D57	24.6		
25.7-27.0 per cent	Twin City Seed D66	25.0		108-112
	Jacques Kow Salad No. 2	25.2	25.7	
	Minhybrid 404	25.4	25.7	
	Minhybrid 403	25.5	25.8	
	Reid-National 99	24.8	26.0	
	Twin City Seed D54	25.5	26.2	
	Iowearth W16	25.5	26.3	
	Pioneer 373	25.4	26.6	
	Jacques 1102J	25.5	26.6	
	Twin City Seed C53	25.6		
	Pioneer 377	25.9		
	Brookfield 76	26.4	26.8	
27.1-28.4 per cent	Twin City Seed Silo Fodder Blend No. 4	26.1	27.3	110-114
	Twin City Seed D56	26.1		
	Twin City Seed D62	26.2		
	Twin City Seed B38	26.2		
	DeKalb B	26.3		
	Reid-National Hybrid 110W	26.4		
	Jacques 1108J	26.6	27.4	
	Minhybrid 405	27.0	27.4	
	Wisconsin 606	26.5	27.6	
	Jacques 1104J	26.6	27.6	
	Jacques 1107	26.4	27.7	
	Reid-National Hybrid 112 ₂	27.4	27.7	
	Wisconsin 570	26.7	27.9	
	Pointer 275	26.7		
	Brookfield 74	27.5	28.0	
	Haapala Silo Corn No. 30	28.3	28.0	
	Reid-National Hybrid 110	26.4	28.1	
	Twin City Seed B58	26.9	28.1	
	Quiram's 73	27.0		
	Hibbs 942	27.2		
	Quiram's 78	27.4		
	Pioneer 353 A	27.6	28.3	
	Brookfield 87	25.7	28.4	
Turner N-15	27.7	28.4		
28.5-29.8 per cent	Crystal Silage 110 day	26.5	28.6	112-116
	Reid-National Hybrid 116W	29.7	28.6	
	Master F105	28.7	28.7	
	Reid-National Hybrid 114 ₃	26.5	28.8	
	DeKalb 410	26.7	28.8	
	Mullins Silage Corn	28.0	28.8	
	Wisconsin 645	28.6	28.8	
	Gold Seal Silage 110 day	28.2	28.9	
	Pioneer 353	27.7	28.9	
	Reid-National Hybrid 112R	27.8		
	Minhybrid 406	27.9		
	Reid-National Hybrid 110 ₂	28.0	28.9	
	Jacques 1151	28.2	29.0	

Table 2. Corn Hybrids Registered for Sale in the Southern Zone (Continued)

Maturity classes	Variety name	Average per cent moisture		Maturity rating in days Minn. Expt. Sta.		
		1943	1942-43			
28.5-29.8 per cent (Continued)	Thompson 26	27.6	29.1	112-116		
	Pioneer 322	26.8	29.2			
	Wisconsin 648	28.1	29.2			
	Reid-National Hybrid 112	27.2	29.3			
	McNeilly 1938	28.1				
	Jacques 1109	28.1				
	Parcaut's 931 A	28.2				
	Eggerth 931	28.3				
	Northrup King Silobred Medium Blend	29.2	29.3			
	Wisconsin 603	29.3	29.3			
	Thompson 36	27.6	29.5			
	Funk Bros. G-7	28.4	29.5			
	Iowearth A	29.4	29.6			
	Parcaut's Special	28.2	29.7			
	Parcaut's C-2	28.2	29.7			
	Pioneer 324	28.3	29.7			
	Master F 101	27.9	29.8			
	McNeilly 942	28.4	29.8			
	DeKalb 22	28.4				
	Hibbs H 432	28.5				
	Knudsen 390	28.6				
	Knudsen Wisconsin 645	28.6				
	Murdock	28.7				
	29.9-31.2 per cent	Gold Seal Silage 115 day	29.0		29.9	114-118
		Iowearth Ensilage 110 day	29.8		29.9	
		Wisconsin 640	28.8		30.0	
		Farmers 214	28.8			
		Wisconsin 625	28.9		30.0	
		Knudsen 600B	28.9			
		Epley E25	29.0			
		Jacques Kow Salad No. 3	29.1		30.1	
		Minhybrid 408	29.1			
Matheson 320		29.2				
Wisconsin 585		29.7	30.2			
Kingscrot KR-2		29.7	30.4			
Pfister 266		29.3	30.5			
DeKalb 421		28.9	30.6			
Jacques 1208J		29.3				
Jacques 1152		29.3				
Minhybrid 407		29.3				
Knudsen K60		29.4				
Wisconsin 641		29.4				
Kingscrot KR-5		29.4				
Pfister 268		29.5	30.6			
Mullins N15		30.2	30.6			
Reid-National Hybrid 110A ₁		28.7	30.7			
Mullins J25		29.5	30.7			
Reid-Bred FO		30.0	30.7			
Wisconsin 676		30.3	30.7			
Vinton 942		28.3	30.8			
Lowe M-L-18		28.4	30.8			
Vinton V32		28.9	30.8			
McNeilly 1940		29.0	30.8			
Farmers 388		30.8	30.8			
Reid-National Hybrid 114 ₂		28.3	31.0			
Turner 939	29.0	31.0				

MATURITY RATINGS OF CORN HYBRIDS

Table 2. Corn Hybrids Registered for Sale in the Southern Zone (Continued)

Maturity classes	Variety name	Average per cent moisture		Maturity rating in days Min. Expt. Sta.		
		1943	1942-43			
29.9-31.2 per cent (Continued)	Turner L 103	29.1	31.0	114-118		
	Thompson 45	29.4	31.0			
	McNeilly 939	29.5	31.0			
	DeKalb 450	29.5				
	Reid-Bred TN	29.6				
	Knudsen K50	29.6				
	Eggerth C	29.6				
	Wisconsin 690	30.0	31.0			
	Vinton 939	29.2	31.1			
	Turner N15A	29.8	31.1			
	Thompson 52	29.0	31.2			
	Mullins J30	29.7	31.2			
	Jacques 1204	29.8	31.2			
	Wisconsin 640A	29.9				
	Epley 101	30.0				
	DeKalb 443	30.0				
	Knudsen Iowa 939	30.3				
	31.3-32.6 per cent	Jacques 1154	29.4		31.3	116-120
		DeKalb 404A	30.4		31.3	
Pioneer 340		30.4				
Pioneer 341		30.4				
Henry Field 116		31.5	31.3			
Thompson 27		30.6	31.4			
Henry Field 116 R		33.0	31.4			
Jacques 1155J		31.5	31.5			
McNeilly 1951 A		30.2	31.5			
Northrup King Silobred Late Blend		30.4	31.7			
Wisconsin 696		30.7	31.7			
Lowe M-L-24		31.5	31.7			
Master F 106 (silage)		29.9	31.8			
Jacques 1206J		31.1	31.8			
Thompson 47		30.3	31.9			
Iowearth AF-11		31.0	32.0			
DeKalb 504		31.1	32.1			
Reid-National Hybrid 116R		30.0	32.1			
Iowearth Ensilage 114 day		30.5	32.2			
Wisconsin 692		30.5	32.2			
DeKalb 609		30.6				
Gurney's 118		30.7				
Hibbs 939		30.9				
Haapala Silo Corn 120		30.9				
Wisconsin 608		31.0				
Twin City Seed D73		31.1	32.2			
Kingscrot 3		31.1				
Pfister 566		31.2				
Farmers 318		31.3				
DeKalb 458		31.3				
Funk Bros. G-114		31.7	32.2			
Iowearth 16		31.2	32.3			
Pioneer 330		31.5	32.3			
Kingscrot KY	31.5	32.2				
Farmers 427	31.0	32.4				
Funk Bros. G-22	31.4	32.4				
Reid-National Hybrid 117R	31.7	32.4				
DeKalb 615	31.9	32.5				
Wisconsin 694	32.0	32.5				

Table 2. Corn Hybrids Registered for Sale in the Southern Zone (Continued)

Maturity classes	Variety name	Average per cent moisture		Maturity rating in days Minn. Expt. Sta.
		1943	1942-43	
31.3-32.6 per cent (Continued)	Iowearth AQ	30.5	32.6	116-120
	Lowe M-L-16	32.7	32.6	
32.7-34.0 per cent	Thompson 46	31.5	32.8	118-122
	Henry Field 116	32.0	32.8	
	Kingscrot KZ	31.6	33.0	
	DeKalb 422	31.7	33.0	
	Reid-Bred EI	31.8	33.0	
	Reid-National Hybrid 115 ₁	32.2	33.0	
	Funk Bros. G-16	30.7	33.1	
	Reid-National Hybrid 118R	31.2	33.1	
	Funk Bros. G-66	30.9	33.2	
	Hibbs H-66	31.8		
	Farmers 321 A	31.9		
	Hibbs H-65	31.9		
	Twin City Seed D78	32.1		
	Mullins N 14	32.2	33.2	
	Farmers 439	32.4		
	Mullins J40	32.5		
	Jacques 1158J	32.6		
	Funk Bros. G-29	32.7	33.3	
	Eggerth Special A	32.7		
	Hibbs H-67	32.7		
	Pfister 366	33.5	33.3	
	Jacques 1203 J	33.9	33.3	
	Pfister 260	34.3	33.3	
	DeKalb 607	32.1	33.4	
	Reid-Bred SI	33.0	33.4	
	Henry Field 100R	33.0		
	Reid-National Hybrid 118	30.9	33.5	
	Lowe M-L-14	32.7	33.5	
	Pfister 280	33.5	33.5	
	Wisconsin 695	33.1	33.6	
	Reid-National Hybrid 116	32.6	33.6	
	Turner N 14	33.2	33.8	
	Farmers 322	33.2		
	Jacques 1209J	33.2		
Gurney's 112R	33.3			
Pfister 4897	33.3			
Pfister 5879	33.4			
Gurney's 112	33.5			
Eggerth A	33.7			
Kingscrot KY-2	34.0			
Pfister 360	34.4	33.8		
Pfister 380	34.3	33.9		
34.1-35.4 per cent	Iowearth Ensilage 117 day	34.1	34.1	120-124
	DeKalb 606	33.4	34.1	
	DeKalb 639	33.0	34.2	
	Reid-National Hybrid 117 ₁	34.2	34.2	
	Iowearth 25	33.3	34.3	
	Iowearth BC-4	34.6	34.5	
	Farmers 421	34.7		
McNeilly 1940 A	34.8	35.2		
Least significant difference 5 per cent point.....		2.4	1.4	

MATURITY RATINGS OF CORN HYBRIDS

Table 3. Corn Hybrids Registered for Sale in the South Central Zone and Tested in 1942 in Goodhue, Lac qui Parle, and Meeker Counties and in 1943 at University Farm and in Lac qui Parle and Renville Counties

Maturity classes	Variety name	Average per cent moisture		Maturity rating in days Minn. Expt. Sta.
		1943	1942-43	
25.6-26.6 per cent	Haapala 360	22.3		101-105
26.7-27.7 per cent	Pioneer 359	22.9		102-106
	Twin City Seed D32	23.6		
	Quiram's 63	23.7		
	Twin City Seed D44	23.9		
	Kingscrot KS2	24.0		
27.8-28.8 per cent	Gurney's Golden 90R	24.2		103-107
	Minhybrid 502	24.7	28.6	
	Northrup King Silobred Early Blend	25.5	28.6	
28.9-29.9 per cent	Master F 82	22.7	29.0	104-108
	Minhybrid 500	23.3	29.2	
	Quiram's 68	24.9		
	Minn. 13 U.F.	24.9		
	Jacques Kow Salad No. 1	25.1	29.8	
	Brookfield 69	25.1	29.8	
	Minhybrid 505	25.1		
	Twin City Seed D43A	25.1		
	Minhybrid 503	25.3		
	Minhybrid 504	25.4		
Jacques 1051	25.6	29.8		
30.0-31.0 per cent	Twin City Seed C39	24.2	30.0	105-109
	Turner E4	25.6	30.0	
	Brookfield 66	24.8	30.2	
	Pointer 350	25.2	30.2	
	Twin City Seed D33A	25.6		
	Twin City Seed B43	25.7		
	Minhybrid 301	26.2	30.3	
	Epley Ohio M-15	26.2		
	Funk Bros. G-1A	26.6		
	Brookfield 55	26.7	30.4	
	Haapala Hybrid Silo No. 20	25.4	30.6	
	DeKalb 78	25.9	30.6	
	Wisconsin 531	26.5	30.6	
	Kingscrot KO	26.7		
	Henry Field 100L	27.1		
	Gold Seal 108	27.1		
Pioneer 355	27.2	30.7		
Gold Seal 105	26.5	30.8		
Brookfield 63	26.4	31.0		
Wisconsin	26.4	31.0		
31.1-32.1 per cent	Twin City Seed B45	26.3	31.1	106-110
	Vinton V-25	25.0	31.2	
	Kingscrot M-2	26.2	31.2	
	Pioneer 358	27.4	31.4	
	Jacques 1050J	28.6	31.4	
	Haapala 202	28.9	31.6	
	Reid-National 107W	27.0	31.8	
	Iowearth S	25.3	31.9	
	Reid-National 104W	24.9	32.1	
32.2-33.2 per cent	Pointer 270	27.7	32.2	107-111
	Twin City Seed Silo Fodder Blend No. 3	26.0	32.8	

Table 3. Corn Hybrids Registered for Sale in the South Central Zone (Continued)

Maturity classes	Variety name	Average per cent moisture		Maturity rating in days Minn. Expt. Sta.
		1943	1942-43	
32.2-33.2 per cent (Continued)	Crystal Silage 105	26.9	32.8	107-111
	Kingscrot KN-1	27.4	32.4	
	Vinton V-24	25.6	32.6	
	DeKalb 240	27.5	32.6	
	Henry Field 100	27.5		
	Reid-National 105	28.3	32.6	
33.3-34.3 per cent	Reid-Bred V.E.	27.6	33.3	108-112
	Parcaut's P-10	27.7		
	Kingscrot D	27.7		
	Haapala 123	28.0	33.3	
	DeKalb 201	28.6	33.4	
	Todd Hybrid Silo	27.3	33.6	
	DeKalb 21	28.3	33.6	
	Kingscrot D-4	28.3		
	Reid-National 104	28.4	33.8	
	Knudsen 90B	28.4		
Minn. Seed Co. V193	28.6			
34.4-35.4 per cent	Funk Bros. G-12	28.7	34.3	109-113
	Pfister 274	30.5	34.8	
	Turner E7A	28.5	35.0	
	Twin City Seed B35	29.1		
	Farmers 304A	29.5		
	Matheson 260	29.5		
	Eggerth B	29.7		
	Knudsen 931	29.9		
35.5-36.5 per cent	Mullins J-20	30.6	36.3	110-114
	DeKalb 241	30.7		
	Pfister 374	32.0	36.4	
36.6-37.6 per cent	Turner 7B	31.5	36.8	111-115
Least significant difference 5 per cent point.....		1.3	1.1	

Table 4. Corn Hybrids Registered for Sale in the Central Zone and Tested in 1942 in Otter Tail and Isanti Counties and in 1943 at the Morris Branch Station and in Stearns and Otter Tail Counties

Maturity classes	Variety name	Average per cent moisture		Maturity rating in days Minn. Expt. Sta.
		1943	1942-43	
31.5-33.0 per cent	Twin City Seed B23	27.0		93-97
	Minhybrid 606	27.9		
	Minhybrid 605	28.3		
	Haapala Hybrid Silo No. 10	29.4	32.9	
33.1-34.6 per cent	Minhybrid 401	29.6	33.2	95-99
	Minhybrid 600	28.8	33.6	
	Minhybrid 601	30.0	34.6	
	Kingscrot KA-4	30.2		
	Minhybrid 607	30.4		
	Twin City Seed B17	30.4		
34.7-36.2 per cent	Minhybrid 608	30.8		97-101
	Kingscrot A6	32.1	34.7	
	Twin City Seed D33	30.8	34.8	
	Twin City Seed B15	31.4		
	Wisconsin 404	32.2	35.6	
	Haapala Hybrid Silo 10A	32.2		
	Morris Minn. No. 13	32.3		
	Minhybrid 604	31.7	36.0	
36.3-37.8 per cent	Wisconsin 460	32.8	36.5	99-103
	Twin City Seed D36	33.0	36.5	
	Brookfield No. 44	32.3	36.7	
	Jacques 1003J	34.5	36.8	
	Wisconsin 420	33.3		
	Minn. Seed Co. V170	35.4	37.1	
	Twin City Seed Silo Fodder Blend 2	31.6	37.1	
	Wisconsin 455	33.7	37.2	
	Pointer 345	34.2		
	Minn. Seed Co. V171	34.5	37.3	
	Minhybrid 603	34.8	37.5	
	DeKalb 65	34.8		
37.9-39.4 per cent	DeKalb 302	34.1	38.1	101-105
	Kingscrot KS6	35.7		
	Kingscrot KS8	36.7		
	Master F60	39.7	39.2	
39.5-41.0 per cent	Gold Seal 100 day	38.7	39.7	103-107
	Gurney's Golden 100	38.9		
	Henry Field 90	39.4		
	Jacques 1001J	39.6	39.8	
	Reid-National 95	37.7	39.9	
42.7-44.2 per cent	Lowe M-L-19	41.0	42.7	107-111
	DeKalb A	42.2		
44.3-45.8 per cent	Lowe M-L-15	45.3	45.0	109-113
Least significant difference 5 per cent point		2.8	1.6	

Table 5. Corn Hybrids Registered for Sale in the North Central Zone and Tested in 1942 at Norman, Otter Tail, and Wilkin Counties and in 1943 in Becker and Otter Tail Counties

Maturity classes	Variety name	Average per cent moisture		Maturity rating in days Minn. Expt. Sta.
		1943	1942-43	
32.5-34.1 per cent	Twin City Seed B3	32.1	32.6	86-90
	Haney No. 13 (Mellum)	32.4		
	Twin City Seed B2	33.1		
	Master F40	34.0	33.7	
34.2-35.8 per cent	Kingscrot KE-1	33.5	34.2	88-92
	Minhybrid 703	34.0		
	Minhybrid 702	34.5	34.4	
	Gurney's Golden 90	35.2		
	Minhybrid 700	36.0	35.4	
	Minhybrid 701	36.4	35.5	
	Wisconsin 330	35.7	35.7	
Twin City Seed D4	35.8			
35.9-37.5 per cent	Jacques 904	36.3	35.9	90-94
	Gold Seal 90 day	36.3	36.2	
	Minn. Seed Co. V125	38.3	36.4	
	Jacques 906	37.1	36.6	
	Wisconsin 412	37.7		
	Wisconsin 355	37.9	36.9	
	Wisconsin 335	38.5	37.2	
	Wisconsin 325	38.7	37.5	
Jacques 907	39.1	37.5		
37.6-39.2 per cent	Gold Seal 95 day	38.0	37.7	92-96
	Brookfield No. 35	39.4	37.8	
	DeKalb 66	39.6	38.2	
	Twin City Seed No. 1	37.4	38.3	
	Jacques 951J	40.2	38.6	
	Jacques 955J	41.6	38.8	
	Reid-National 90	40.3		
	Wisconsin 341	40.7		
	Wisconsin 400	41.6	39.2	
39.3-40.9 per cent	Wisconsin 416	42.0	39.9	94-98
	Jacques 957	42.9		
41.0-42.6 per cent	Jacques 956	47.1	41.5	96-100
Least significant difference 5 per cent point		3.2	1.7	

MATURITY RATINGS OF CORN HYBRIDS

Table 6. Corn Hybrids Registered for Sale in the Northern Zone and Tested in 1942 at Norman, Otter Tail, and Wilkin Counties and in 1943 at Polk, Mahanomen, and Marshall Counties

Maturity classes	Variety name	Average per cent moisture		Maturity rating in days Minn. Expt. Sta.
		1943	1942-43	
32.1-33.0 per cent	Jacques 803	35.5		81-85
	Haney's Early No. 13.....	35.5		
	Jacques 802	35.9	32.8	
	Wisconsin 255	35.3	33.0	
34.1-35.0 per cent	Wisconsin 240	35.3	34.1	83-87
	Master F21	36.4		
35.1-36.0 per cent	Wisconsin 279	37.4	35.3	84-88
	Minhybrid 801	37.4		
36.1-37.0 per cent	Minhybrid 402	40.5	36.4	85-89
	Minhybrid 800	39.4	36.5	
	Gurney's Golden 85.....	39.6		
37.1-38.0 per cent	Wisconsin 275	40.5	37.8	86-90
38.1-39.0 per cent	Kingscrot KE-2	41.0	38.2	87-91
	Jacques 853	42.1	38.3	
	Jacques 852	41.7	38.4	
	Minn. Seed Co. V100 Imp. A.....	42.4		
	Brookfield 23	42.4		
41.1-42.0 per cent	Minn. Seed Co. V100	46.4	41.3	90-94
44.1-45.0 per cent	DeKalb 54	50.5		93-97
Least significant difference 5 per cent point.....		1.7	1.0	