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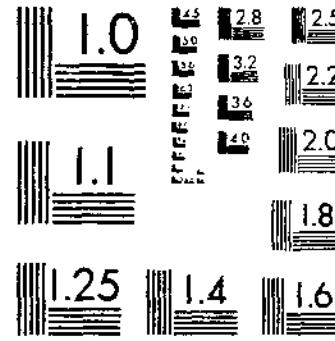
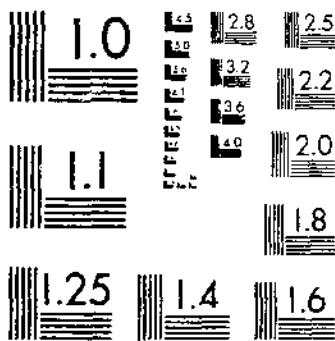
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HEADS OF BARLEY VARIETIES IN THE UNITED STATES AND CANADA 1937-41
HIBBERD, G. R., POWAKA, P. R., REINBACH-HELCH, L.

START



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**UNITED STATES
DEPARTMENT OF AGRICULTURE
WASHINGTON, D. C.**

Yields of Barley Varieties in the United States and Canada, 1937-41¹

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IMPORTANCE OF VARIETIES IN BARLEY IMPROVEMENT

Research on barley has brought to American farmers many new varieties that are constantly increasing the efficiency of their production of this important cereal, and continuing investigations look toward a still greater efficiency. More than 5,000 varieties of barley have been tested by the United States Department of Agriculture and by State and Canadian agricultural experiment stations. Only a few of these varieties are at present under cultivation on farms, because there is a decided advantage in growing a limited number of varieties. Yet it is at the same time highly important to sow only those that have been shown by testing to be high yielding and suited to a locality. What

¹ Submitted for publication June 1944.

varieties to seed, when, and in what quantity per acre is the subject of a Farmers' Bulletin recently revised.² The selection of still better varieties both for stock feed and for industrial uses is a constant concern of barley breeders.

Continuing the periodic reports of the Department of Agriculture on the yields of barley varieties in the United States and Canada, which were begun in 1925, this bulletin makes available to barley breeders of both countries essential data obtained on the testing fields during the years 1937-41. The first of this series included a comprehensive summary to 1921 of the early history of barley production and of the development of varieties.³ Subsequent reports cover the 5-year periods 1922-26,⁴ 1927-31,⁵ and 1932-36.⁶

The agricultural experiment stations from which the yield data were obtained—114 in the United States and 24 in Canada (fig. 1)—cover all



FIGURE 1.—Location of stations in the United States and Canada from which barley yields are reported in this bulletin.

the important barley-producing areas of these two countries. The results are therefore of value to growers on both sides of the border, as

² HARLAN, H. V., and WIEDE, G. A. CROWNING BARLEY FOR MALT AND FEED. U. S. Dept. Agr. Farmers' Bul. 1732, 19 pp., illus. 1943. (Revised.)

³ —— MARTINI, M. L., and POFF, M. N. TESTS OF BARLEY VARIETIES IN AMERICA. U. S. Dept. Agr. Dept. Bul. 1534, 219 pp., illus. 1925.

⁴ —— NEWMAN, L. H., and MARTINI, M. L. YIELDS OF BARLEY IN THE UNITED STATES AND CANADA, 1922-1926. U. S. Dept. Agr. Tech. Bul. 96, 84 pp. 1929.

⁵ —— COWAN, P. R., and REINBACH, L. YIELDS OF BARLEY IN THE UNITED STATES AND CANADA, 1927-31. U. S. Dept. Agr. Tech. Bul. 446, 80 pp. 1935.

⁶ WIEDE, G. A., COWAN, P. R., and REINRACH-WELCH, L. YIELDS OF BARLEY IN THE UNITED STATES AND CANADA, 1932-36. U. S. Dept. Agr. Tech. Bul. 735, 78 pp. 1940.

farmers at some distance from their own testing stations are better served by nearby stations of the neighboring country to the north or to the south.

To facilitate the use of the data, percentage comparisons have been made, computed on the total yield of the varieties tested in terms of some standard variety grown at each station for a comparable period. The data for the United States are given in tables 1 to 38; for Canada, in tables 39 to 47.

A summary of superior varieties is given in table 48 (p. 57), showing the highest and second highest in yield for each station for the 5-year period. If a variety was tested for less than 5 years with good results this fact also is indicated. The choice of a variety in this last category was often arbitrary, as another could have been chosen with equal grounds.

In the United States there is considerable variation in the type of plot used in testing. Since the accuracy of the results is influenced by the size and shape of the plot and by the number of replications used, a compilation of these factors was made and is presented in table 49 (p. 63). In this table plots of 300 square feet or less are considered as nursery plots and those of greater area as field plots. This is an arbitrary division, but it seems to segregate the tests reported fairly well. In Canada there is much less variation in the type and size of plot used, the greater part of the tests being conducted in nursery plots.

The varieties tested at most stations are not those tested 20 years ago. Since many new ones have entered the tests, it seems desirable to give a brief description and the origin of each, especially for those of hybrid origin. The older varieties were described in the first report above-mentioned.⁷ A description of the varieties reported in the present bulletin, their origin or source, and an index to the tables in which each is mentioned are given in table 50 (p. 70). These were grown at Madison, Wis., in the summer of 1942, in order to study their botanical characters. For most of the descriptive notes the present writers are greatly indebted to Ewert Aberg, collaborator of the Division of Cereal Crops and Diseases and research assistant of the University of Wisconsin, while on leave of absence from the Agricultural College, Uppsala, Sweden.

The bulk of the data from Canada consists of results obtained by the Dominion Experimental Farms. This is an extensive testing agency, and responsibility for the presentation of the results has been accepted by P. R. Cowan as an author of this bulletin. This, naturally, should not be taken to mean that the material from the independent Provincial agencies is not on an absolutely equal footing in authorship, but only that, because of the number of stations, the task of preparing the material from the Dominion Experimental Farms has been more onerous.

As in previous reports, the data were contributed by many agencies, and the Division of Cereal Crops and Diseases has functioned only as an agency for compiling the results and for calculating the averages and percentages. It is freely acknowledged that the real authors of this bulletin are the agronomists at the various agricultural experiment stations, whose names are listed preceding the tabulation for each State and Province. It is through their unselfish cooperation that this report is made possible.

⁷ See footnote 3, p. 2.

RESULTS OF TESTS BY STATIONS (TABLES 1-47)

ALABAMA

Alabama Polytechnic Institute, Auburn..... D. G. Sturkie.
 Tennessee Valley Substation, Belle Mina..... Fred Stewart.
 Sand Mountain Substation, Crossville..... R. C. Christopher.
 Black Belt Substation, Marion Junction..... K. G. Baker.

TABLE 1.—*Acre yields of varieties of barley grown at agricultural experiment stations in Alabama in 1 or more of the years 1937-41*

[Data obtained through the courtesy of the Alabama Polytechnic Institute in cooperation with the Division of Cotton and Other Fiber Crops and Diseases, United States Department of Agriculture]

Station and variety	C. I. ¹ No.	Number of plots and acre yield										Relative yield com- pared with stand- ard	
		1937		1938		1939		1940		1941			
		Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Auburn:													
Tennessee Beardless 5 ²	3384											100.0	
Marnobarb	6120			2	5.6			2	37.0			105.7	
Belle Mina:													
Tennessee Beardless 5 ²	3384	2	16.2			2	50.0	2	36.1			100.0	
Marnobarb	6120					2	44.0	2	40.5			98.1	
Crossville:													
Tennessee Beardless 5 ²	3384	2	26.3	2	20.1	2	10.9	2	27.9	2	27.5	122.5	
Marnobarb	6120							2	24.2	2	37.5		
Marion Junction:													
Tennessee Beardless 5 ²	3384					2	17.0	2	19.0	2	51.0	100.0	
Marnobarb	6120					2	46.6	2	25.0	2	49.2	138.9	

¹ C. I. in this and subsequent tables refers to accession number of the Division of Cereal Crops and Diseases.

² Standard with which other varieties are compared for comparable years.

ARIZONA

Salt River Valley Experiment Farm, Mesa

..... D. C. Aepli; also A. T. Bartel, Tucson.

United States Field Station, Sacaton..... C. J. King.

TABLE 2.—*Acre yields of varieties of barley grown at agricultural experiment stations in Arizona in 1 or more of the years 1937-41*

[Data for Mesa obtained in cooperation with the Arizona Agricultural Experiment Station and for Sacaton through the courtesy of the Division of Cotton and Other Fiber Crops and Diseases]

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield com- pared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Mesa:														
Vaughn ¹	1367	19	3	57.2	3	78.8	3	99.2	3	81.5	2	94.2	82.2	
Arivat.	6573	239	3	72.9	3	93.8	3	96.3	3	87.8	2	95.6	89.3	
Californian Mariott	1455	341											104.4	
Atlas X Vaughn	7064	Moscow 6	3	64.5	3	90.0	3	96.3					106.6	
Scarab.	995	22	3	64.9	3	83.3	3	89.7					101.1	
Union Beardless	5976	246	3	60.7	3	67.5	3	85.6					90.5	
Common Six-Row	4625	39	3	58.0	3	61.3	3	86.8					87.7	
Sacramento	4108	2	3	68.3	3	81.0							109.8	
Trebi.	936	3	3	57.5	3	66.8							91.4	
Sacaton: ²														
Common Six-Row ¹	4625		1	39.7	2	61.3			3	60.9	3	52.8	100.0	
Trebi.	936		1	44.1	2	55.0			3	52.9	3	44.8	91.2	
Vaughn.	1367		1	53.6					3	59.3	3	63.4	114.2	
Arivat.	6573								3	63.3	3	64.0	112.0	
Sacramento	4108		1	14.5	2	90.6							104.1	
Scarab.	995		1	81.4	2	83.8							163.6	
Union Beardless	5976		1	51.1	2	63.5							114.6	
Atlas X Vaughn	7064	Moscow 6	2	68.9									173.6	

¹ Standard with which other varieties are compared for comparable years.

² No test conducted at Sacaton in 1939.

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ARKANSAS

Arkansas Agricultural Experiment Station, Fayetteville... C. K. McClelland.
 Rice Branch Experiment Station, Stuttgart..... C. Roy Adair.

TABLE 3.—*Acre yields of varieties of barley grown at agricultural experiment stations in Arkansas in 1 or more of the years 1937-41*

[Data for Fayetteville obtained through the courtesy of the Arkansas Agricultural Experiment Station and for Stuttgart in cooperation with the Arkansas Agricultural Experiment Station]

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield com- pared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Fayetteville:				Bu.		Bu.		Bu.		Bu.		Bu.	Percent	
<i>Fall-sown</i>														
Kentucky 61	4678		1	30.4	1	30.1	1	38.3	2	40.7	1	20.9	32.1 100.0	
Alaska	4106		1	31.5	1	23.4	1	41.4	2	40.5	1	23.7	32.5 101.3	
Tennessee Beard- less 6	2746		1	24.1	1	12.7	1	19.7	2	25.4	1	23.2	21.0 65.5	
Tennessee Winter 57	3544		1	28.6	1	29.6	1	32.4	2	38.1	1	23.7	30.5 95.0	
Tennessee Winter 52	3543		1	34.4	1	24.3	1	37.2	2	43.2	1	24.9	32.8 102.2	
Oral	351		1	33.5	1	31.7	1	41.3	2	30.9	1	31.6	34.2 106.6	
Tenkow	646		1	30.9	1	25.4	1	45.7	2	42.3	1	25.6	34.0 105.9	
Kentucky 36	4677		1	32.1	1	23.3	1	38.3	2	34.7	1	17.2	29.1 90.8	
Union Winter	583		1	23.5	1	15.3	1	36.7	2	39.1	1	17.2	26.4 82.2	
Tennessee Winter	6034										2	33.3	1 21.4 88.8	
Missouri Early Beardless	6051										2	25.1	1 21.4 75.5	
Flynn 1	5911										2	15.9	1 11.2 44.0	
Vaughn	1367										2	15.1	1 11.2 42.7	
Stavropol	5913										2	23.9	1 23.1 79.5	
Tennessee Winter 61	3545		1	26.4	1	33.8	1	35.1	2	36.8			94.7	
Kentucky Winter	4641		1	35.5	1	31.2	1	43.0	2	40.3			107.7	
<i>Spring-sown</i>														
Stavropol	5913										1			
Flynn	1311										1	22.7	3 26.8 2 25.2 2 9.4 100.0	
Vaughn	1367										1	13.7	3 19.7 2 24.1 2 6.3 75.9	
Stuttgart:											1	16.9	3 20.4 2 23.6 2 3.1 76.1	
<i>Fall-sown</i>														
Tennessee Winter 52	3543										3	45.7	1 100.0	
Jackson	6369	Tenn. B5-9 (G)									3	57.5	1 125.8	
Davidson	6373	N. C. 15									3	55.9	1 122.3	
Composite Cross selection	6564	N. C. 11									3	53.9	1 117.9	
Kentucky 11	6021										3	53.1	1 116.2	
Smooth Awn 86	6268										3	46.6	1 102.0	
Marnolmrb.	6120										3	43.3	1 94.7	
Tennessee Smooth Awn	6570	Tenn. B5- 14									3	39.4	1 86.2	
Missouri Early Beardless	6051										3	38.5	1 84.2	
Wisconsin Winter	2159										3	37.7	1 82.5	
Nakano Wase 59	6567										3	37.2	1 81.4	
Tennessee Beard- less 5	3384										3	36.8	1 80.5	
Tennessee Winter 60	3346										3	35.8	1 78.3	
Tennessee Winter X Smooth Awn	6565										3	35.5	1 77.7	
Randolph	6372	N. C. 1-68									3	31.6	1 69.1	
Wintex	6127										3	30.6	1 67.0	
Purdue 28156A3- 2-2-2	6562										3	28.3	1 61.9	
Union Winter	583										3	27.2	1 59.5	
Tennessee Winter	6034										3	25.8	1 56.5	
Purdue 1101	4582										3	25.4	1 55.6	
Reno	6361										3	22.9	1 50.1	
Eswa	4690										3	22.6	1 49.5	
Kentucky 1	6050										3	20.8	1 45.5	

¹ Standard with which other varieties are compared for comparable years.

CALIFORNIA

University Farm, Davis..... C. A. Suneson.

TABLE 4.—Acre yields of varieties of barley grown at University Farm, Davis, in 1 or more of the years 1937-41

[Data obtained in cooperation with the California Agricultural Experiment Station]

Variety	C. I. No.	Number of plots and acre yield										Average yield, 1937-41	Relative yield com- pared with stand- ard		
		1937		1938		1939		1940		1941					
		Plots	Yield Bu.	Plots	Yield Bu.	Plots	Yield Bu.	Plots	Yield Bu.	Plots	Yield Bu.				
Vaughn 1	1367	5	66.9	5	69.4	5	40.2	5	56.6	7	69.3	60.5	100.0		
Atlas	4118	5	69.8	5	66.2	5	36.6	5	55.6	7	52.7	56.2	92.9		
California Coast Coast	6115	5	56.5	5	58.5	5	33.1	5	50.6	7	62.9	52.3	86.5		
4633	5	52.4	5	63.5	5	38.5	5	59.9	7	71.2	57.1	94.4			
Club Mariout	261	5	66.2	5	54.3	5	38.7	5	46.1	7	57.9	52.6	87.0		
Hero	4602	5	66.4	5	61.0	5	39.7	5	53.5	7	59.2	56.0	92.5		
Hannchen	531										7	55.8	80.5		
California Mariout	1455										7	44.4	64.1		
Rojo (Sta. No. 1017)	5401										7	66.9	96.5		
Blanco	5045	5	55.9	5	49.2	5	33.0						77.7		
Stewart	6112	5	67.6	5	51.4								87.5		
C-422	6113	5	62.8										93.9		
C-308	6114	5	64.3										96.1		

1 Standard with which other varieties are compared for comparable years.

COLORADO

Colorado Agricultural Experiment Station, Fort Collins..... D. W. Robertson.
United States Dry Land Field Station, Akron..... J. F. Brandon.
Fort Lewis Substation, Hesperus..... Dwight Koonce.

TABLE 5.—Acre yields of varieties of barley grown at agricultural experiment stations in Colorado in 1 or more of the years 1937-41

[Data for Fort Collins and Hesperus obtained through the courtesy of the Colorado Agricultural Experiment Station and for Akron in cooperation with the Colorado Agricultural Experiment Station and the Division of Dry Land Agriculture]

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Average yield, 1937-41	Relative yield com- pared with stand- ard		
			1937		1938		1939		1940		1941					
			Plots	Yield Bu.	Plots	Yield Bu.	Plots	Yield Bu.	Plots	Yield Bu.	Plots	Yield Bu.				
Fort Collins:																
Trebi 2	936	10	58.4	10	58.4									100.0		
Lito	6279	F. C. 1110	10	75.8	10	63.1								100.3		
End	5061		10	64.5	10	53.6								102.8		
Wisconsin Barbless	5105		10	64.4	10	51.6								91.5		
Coast X Lion	6368	F. C. 1105	10	63.4	10	55.9								96.8		
Velvoa	6109		10	63.4	10	57.7								103.9		
Trebi X Colsess Do	6369	F. C. 1124	10	59.1	10	56.9								104.9		
Coast 23	6370	F. C. 1125	10	56.4	10	64.3								108.9		
Colsess	2791		10	52.2	10	42.3								74.9		
Velvet	2792		10	51.5	10	46.1								79.1		
Nepal	4252		10	41.9	10	49.5								80.9		
Hannchen	595		10	37.3	10	31.1								60.6		
Composite Cross	531		10	26.2	10	64.9								84.8		
Regal	5461		10	42.1	10	51.5								83.4		
Beecher	6566		10	42.1	10	43.1								82.0		
Arivat	6573		10	42.1	10	43.1								79.4		
Warrior	6991		10	62.3	10	53.8								85.1		
Colsess X Trebi	6986	F. C. 1139	10	62.3	10	53.8								96.5		

See footnotes at end of table.

YIELDS OF BARLEY, 1937-41

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TABLE 5.—*Acre yields of varieties of barley grown at agricultural experiment stations in Colorado in 1 or more of the years 1937-41—Continued*

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield compared with standard, 1937-41	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Fort Collins—Con. Union Beardless (Canadian Thorpe × Coast) × (Black Six-Row × Coast)	5976		10	57.8	10	36.0		7	33.0				71.8	
Peatland	6985	F. C. 1140	10	62.8	10	55.8		7	53.0				97.1	
Akron ¹	5267		10	21.8	10	48.5							60.2	
Club Marigold ²	261		4	18.2	4	25.9	4	5.4	4	1.0	4	28.9	15.9	
Trebi	936		4	14.2	4	16.8	4	9	4	1.2	4	37.5	14.1	
Coast	690		4	17.0	4	26.1	4	4.1	4	1.4	4	34.7	16.7	
Himalaya	620		4	11.2	4	14.6	4	2.5	4	1.0	4	23.9	10.6	
Spartan	5027		4	17.5	4	24.0	4	5.6	4	1.2	4	33.3	16.7	
Vance	4585		4	16.4	4	31.7	4	5.8	4	1.9	4	37.8	18.3	
Blackhull 1180	6009		4	18.7	4	35.7	4	4.0	4	1.2	4	36.9	19.0	
Flynn	1311		4	12.8	4	23.9	4	4.4	4	1.0	4	32.1	14.8	
Vaughn	1367		4	18.6	4	28.6	4	5.1	4	1.1	4	28.2	13.3	
Blackhull	378		4	13.8	4	27.4	4	3.4	4	1.2	4	23.1	14.2	
Beecher	6566	Moscow 9	4	34.3	4	4.7	4	1.2	4	29.9		117.8		
North Platte 1	5266		4	18.6	4	35.7	4	5.0	4	1.4	4	34.1		
Atlas × Vaughn	6973	Moscow 13	4	14.8	4	21.3	4	3.8	4	1.2	4	28.4		
Lico	6279		4	18.1	4	25.3	4	6.3					81.4	
Atlas × Vaughn	6970	Moscow 1	4	29.2	4	5.0	4	7					108.0	
Composite Cross selection	5414		4	18.1	4	25.3	4	6.3					100.4	
Blackhull 1178	5679		4	18.0									98.9	
Pryor	2359		4	15.6									85.7	
Hesperus ³														
Trebi ²	936		10	74.7	10	90.5	10	57.1	10	31.0	10	58.0	62.3	
Lico	6279	F. C. 1110	10	73.6	10	79.4	10	52.6	10	54.0	10	62.4	64.4	
Trebi × Colesse ⁴	6369	F. C. 1124	10	78.0	10	80.9	10	50.8	10	46.3	10	63.1	63.8	
(Canadian Thorpe × Coast) × (Black Six-Row × Coast)	6985	F. C. 1140	10	78.1	10	80.2	10	51.8	10	48.3	10	58.0	63.3	
Coast × Lion	6368	F. C. 1109	10	66.6	10	85.5	10	54.8	10	47.8	10	59.3	62.8	
Velvyn	6109	F. C. 1138	10	67.8	10	69.3	10	57.5	10	55.7	10	55.0	61.1	
Colesse × Trebi	6986	F. C. 1139	10	68.0	10	70.5	10	51.5	10	42.2	10	55.6	57.5	
Trebi × Colesse	6370	F. C. 1125	10	66.2	10	77.5	10	43.3	10	39.5	10	39.4	57.2	
Wisconsin Barleless 5105			10	63.4	10	79.0	10	49.0	10	38.1	10	54.6	56.8	
Coast 23	2791		10	54.9	10	75.0	10	52.9	10	39.8	10	51.2	54.8	
Ezond	5064		10	69.1	10	63.3	10	48.1	10	39.2	10	51.6	54.7	
Hannchen	531		10	58.0	10	70.1	10	48.0	10	42.8	10	52.0	54.2	
Velvet	4252		10	56.4	10	68.1	10	55.1	10	38.0	10	48.2	49.2	
Colesse	2792		10	42.4	10	58.7	10	43.4	10	35.0	10	47.2	45.3	
Regal	5030		10	63.5	10	51.1	10	43.9	10	33.0	10	30.9		
Flynn 134	6987						10	65.1	10	47.6	10	47.8	109.9	
Arival	6573						10	68.3	10	53.2			136.7	
Beecher	6566						10	66.6	10	52.5			133.8	
Lico 393	6988						10	68.0	10	68.0			117.2	
Lico 351	6989						10	66.9	10	66.9			115.3	
Lico 448	6990						10	64.7	10	64.7			111.6	
Warrior	6991						10	61.4	10	61.4			105.9	
Union Beardless	5976	F. C. 1119	10	57.5	10	72.5	10	46.1	10	52.0			90.1	
Conse × Lion		F. C. 1123	10	66.0	10	76.0							91.6	
Do		F. C. 1123	10	53.7	10	51.4							86.0	
Peatland	5267		10	53.7	10	51.4							63.6	

¹ No test conducted at Fort Collins in 1939.² Standard with which other varieties are compared for comparable years.³ F. C. = Fort Collins.⁴ Yields at Akron greatly reduced by drought in 1939 and by hail and drought in 1940.

DELAWARE

Delaware Agricultural Experiment Station, Newark..... G. L. Schuster.
 Milford Plats, Milford..... In care of G. L. Schuster, Newark.

TABLE 6.—*Acre yields of varieties of barley grown at agricultural experiment stations in Delaware in 1 or more of the years 1937–41*

[Data obtained through the courtesy of the Delaware Agricultural Experiment Station]

Station and variety	C. I. No.	Number of plots and acre yield										Average yield, 1937–41	Relative yield compared with standard
		1937		1938		1939		1940		1941			
		Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Bu.	Per cent
Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Per cent
Newark:													
Tennessee Winter 1	257	5	20.9	5	40.1	5	32.4	5	20.9	5	43.0	31.5	100.0
Tennessee Winter 52	3543	5	20.4	5	38.4	5	31.2	5	20.1	5	33.2	26.8	91.3
Tennessee Winter 76	6992	5	20.9	5	33.9	5	32.7	5	18.0	5	42.7	29.6	94.2
Kentucky 1	6050	5	23.0	5	42.9	5	31.8	5	20.0	5	45.2	32.6	103.6
Kentucky 2	6993	5	20.2	5	39.7	5	34.0	5	21.6	5	43.6	31.8	101.1
Kentucky 20	6994	5	25.5	5	44.4	5	37.2	5	13.4	5	47.3	33.6	106.7
Purdue 21	4581	5	19.4	5	33.6	5	28.3	5	17.0	5	38.1	27.7	87.9
Purdue 1101	4582	5	21.2	5	43.1	5	33.8	5	16.6	5	49.0	32.7	104.1
Michigan Winter	2036	5	19.3	5	37.7	5	36.2	5	18.4	5	39.7	30.3	96.2
Manchuria	2947	5	23.7	5	45.9	5	35.3	5	20.5	5	42.1	33.3	105.9
Smooth Awn 86	6268	—	—	—	—	—	—	—	—	5	17.2	—	106.3
Smooth Awn 102	6995	—	—	—	—	—	—	—	—	5	17.3	—	102.2
Sunrise	6272	—	—	—	—	—	—	—	—	5	16.4	—	89.5
Wisconsin Winter	2159	—	—	—	—	—	—	—	—	5	18.6	—	86.4
Marnobarb	6120	—	—	—	—	—	—	—	—	5	36.6	—	94.9
Milford:													
Tennessee Winter 1	257	5	33.7	5	24.5	5	25.4	5	46.8	5	28.2	31.7	100.0
Tennessee Winter 52	3543	5	38.1	5	18.4	5	19.1	5	41.0	5	24.8	28.3	89.2
Tennessee Winter 76	6992	5	38.7	5	17.8	5	23.8	5	49.2	5	29.7	31.8	100.4
Kentucky 1	6050	5	39.3	5	22.2	5	22.2	5	50.3	5	24.6	31.7	100.0
Kentucky 2	6993	5	39.4	5	23.3	5	19.1	5	39.2	5	22.4	27.9	88.0
Kentucky 20	6994	5	45.8	5	27.3	5	27.0	5	47.2	5	30.9	35.6	112.4
Purdue 21	4581	5	33.3	5	20.1	5	20.8	5	39.4	5	25.2	27.8	87.5
Purdue 1101	4582	5	34.6	5	20.8	5	22.4	5	48.6	5	21.9	30.3	95.4
Michigan Winter	2036	5	38.4	5	24.4	5	29.3	5	47.0	5	29.7	33.8	106.4
Manchuria	2947	5	37.6	5	24.1	5	26.4	5	46.4	5	23.7	31.6	99.7
Smooth Awn 86	6268	—	—	—	—	—	—	—	—	5	63.1	—	134.7
Smooth Awn 102	6995	—	—	—	—	—	—	—	—	5	44.6	—	102.1
Sunrise	6272	—	—	—	—	—	—	—	—	5	50.6	—	107.5
Wisconsin Winter	2159	—	—	—	—	—	—	—	—	5	41.8	—	83.5
Marnobarb	6120	—	—	—	—	—	—	—	—	5	32.5	—	115.2

¹ Standard with which other varieties are compared for comparable years.

YIELDS OF BARLEY, 1937-41

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GEORGIA

Georgia Agricultural Experiment Station, Experiment..... R. P. Bledsoe.
 College of Agriculture of the University of Georgia, Athens..... W. C. Collins.

TABLE 7.—*Acre yields of varieties of barley grown at agricultural experiment stations in Georgia in 1 or more of the years 1937-41*

(Data obtained through the courtesy of the Georgia Agricultural Experiment Station and the College of Agriculture of the University of Georgia)

Station and variety	C. I. No.	Station No.	Number of plots and acre yield						Average yield, 1937-41	Relative yield compared with standard			
			1937		1938		1939						
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield			
Experiment:													
Tennessee Beard less 5 ²	3384	184	6	0	6	17.6	6	57.6	6	34.4	10	26.6	27.2
Greece	221	168	6	0	6	18.9	6	57.8	6	32.9	10	37.1	29.3
Tennessee Winter	257	169	6	0	6	18.4	6	58.5	6	38.2	10	37.0	30.4
Texas Winter	354	171	6	0	6	19.7	6	57.5	6	38.6	10	36.8	30.5
Wisconsin Winter	319	172	6	0	6	18.4	6	59.7	6	37.5	10	36.2	30.4
Greece X Tennessee Beardless	6996	11398-1-2-2-5	6	0	6	17.5	6	58.4	6	37.3	10	33.8	29.4
Do.	6997	11398-1-2-2-6	6	0	6	16.6	6	56.5	6	35.4	10	34.2	28.5
Do.	6998	11398-1-2-11-4	6	0	6	23.5	6	65.2	6	39.4	10	36.0	32.8
Tennessee Beard less 5 selection	7001	P 900	6	0	6	14.6	6	45.9	6	31.1	10	33.6	24.6
Eswa	4690	970	6	0	6	20.7	6	57.8	6	37.6	10	27.9	28.8
Greece X Tennessee Beardless	6999	11398-1-2-2-5-4	6	0	6	17.3	6	57.5	6	36.3	10	36.3	109.1
North Carolina:													
Hooded	15951	975	6	0	6	15.0	6	51.3	6	36.1	10	23.6	88.3
Nakano Wase	35	6269	965						6	36.1	10	26.4	102.5
Sunrise	6272	966							6	39.8	10	32.5	118.5
Marnobarb	6120	1135							6	23.5	10	13.2	60.2
Tennessee Beard less 5 selection	7002	P 901							6	39.0	10	39.0	146.6
Do.	7003	P 906							6	37.3	10	37.3	140.2
Smooth Awn 203	6267	968							6	35.0	10	31.4	131.6
Smooth Awn 205	7004	969							6	31.4	10	34.7	129.3
Blackhull 1178	5679	979							6	34.7	10	34.7	130.5
Athens:													
Nakano Wase ²	2164	...	4	56.0	4	50.1	4	53.3	4	32.5	4	24.7	39.3
Tennessee Beard less 5	3384	...	4	41.5	4	32.8	4	16.6	4	38.8	4	34.1	32.8
Tennessee Winter	66	3546	4	37.1	4	56.9	4	23.0	4	42.7	4	33.0	38.5
Tennessee Winter	257	...	4	32.6	4	52.5	4	22.8	4	34.4	4	36.7	35.8
Awnless	5922	...	4	31.5	4	50.0	4	15.8	4	39.6	4	40.1	41.0
Argentine	4594	...	4	19.2	4	59.2	4	33.3	4	55.8	4	45.4	44.6
Greece	4593	...	4	19.6	4	60.8	4	31.2	4	54.2	4	63.6	45.9
Mammoth	4683	...	4	17.1	4	63.5	4	22.8	4	43.3	4	60.5	41.6
Orel	4592	...	4	13.5	4	30.2	4	22.8	4	40.1	4	38.7	29.1

¹ No yields were taken in 1937 because of injury to nursery by aphids; yields in 1938 are of doubtful value because of hail injury.

² Standard with which other varieties are compared for comparable years.

IDAHO

Idaho Agricultural Experiment Station, Moscow

K. H. Kliges and H. K. Schultz.

Aberdeen Substation, Aberdeen Harland Stevens and J. L. Foebs.

Sandpoint Substation, Sandpoint R. E. Knight.

TABLE 8.—*Acre yields of varieties of barley grown at agricultural experiment stations in Idaho in 1 or more of the years 1937-41*

[Data for Moscow and Sandpoint obtained through the courtesy of the Idaho Agricultural Experiment Station and for Aberdeen in cooperation with that station]

Station and variety	C. I. No.	Station No.	Number of plots and acre yield												Relative yield compared with stand- ard	
			1937		1938		1939		1940		1941		Average yield 1937-41			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Moscow:																
Trebi ¹	936	2073	3	78.4	3	66.6	3	51.0	3	52.3	5	73.5	64.4	100.0		
Winter Club	488	2001	3	75.7	3	70.7	3	55.3	3	64.9	5	61.3	65.6	101.9		
White Smyrna	910	2074	3	52.8	3	56.5	3	51.7	3	61.9	5	42.9	53.2	82.6		
Colsess	2792	2088	3	55.7	3	68.6	3	45.8	3	51.6	5	46.7	49.7	77.2		
Spartan	5027	2106	3	68.3	3	45.2	3	52.2	3	47.6	5	52.5	49.4	76.7		
Ezond	5064	2112	3	63.1	3	73.1	3	62.0	3	47.6	5	62.8	61.8	96.0		
Hanuchen	1841	2173	3	73.9	3	76.2	3	49.8	3	43.4	5	65.2	62.9	96.6		
Victory	5027	2116	3	79.0	3	71.4	3	57.6	3	65.7	5	69.9	69.3	107.7		
Faust	4579	2117	3	37.7	3	35.3	3	33.4	3	32.4	5	37.0	35.2	54.6		
Vaughn	1367	2119	3	63.1	3	54.9	3	54.9	3	49.3	5	54.4	58.5	90.9		
Atlas	4118	2120	3	87.7	3	64.9	3	43.2	3	48.9	5	49.3	58.8	91.4		
Archer	1031	2121	3	44.3	3	60.8	3	56.7	3	47.9	5	63.8	55.9	86.9		
Meloy	1176	2122	3	64.6	3	45.4	3	45.7	3	38.1	5	50.9	49.3	77.0		
Black		2123	3	65.9	3	70.6	3	49.9	3	58.6	5	55.3	59.1	92.4		
Atlas X Vaughn	12		3	78.1	3	72.8	3	42.5	3	71.9	5	62.1	65.4	101.7		
Do.	14		3	79.8	3	86.1	3	46.2	3	47.1	5	57.3	59.8	98.5		
Do.	15		3	75.5	3	82.5	3	45.0	3	58.4	5	57.0	63.9	99.2		
Do.	16		3	76.3	3	91.7	3	45.7	3	47.2	5	70.7	66.3	103.0		
Do.	17		3	84.1	3	94.5	3	42.1	3	48.0	5	69.3	67.6	105.1		
Do.	18		3	76.4	3	91.7	3	52.6	3	58.4	5	62.1	68.2	106.0		
Arival	6573	19	3	81.9	3	80.0	3	49.9	3	46.1	5	77.7	67.1	104.3		
Atlas X Vaughn	21		3	91.5	3	85.1	3	48.0	3	48.3	5	81.9	80.0	110.3		
Do.	22		3	75.0	3	87.6	3	38.2	3	48.3	5	71.3	80.6	103.7		
Do.	23		3	91.3	3	88.5	3	46.3	3	41.9	5	79.8	69.6	108.1		
Do.	24		3	91.8	3	93.5	3	46.2	3	45.6	5	75.1	70.3	109.5		
Do.	25		3	83.6	3	88.9	3	50.8	3	47.3	5	76.0	68.9	107.1		
Do.	26		3	92.1	3	89.4	3	50.8	3	50.3	5	79.0	72.3	112.3		
Do.	27		3	106.5	3	81.1	3	50.4	3	42.8	5	71.5	70.3	109.6		
Do.	28		3	65.9	3	91.1	3	47.8	3	57.7	5	91.6	70.9	110.2		
Do.	6974	29	3	79.7	3	86.2	3	38.9	3	45.1	5	63.8	62.7	97.5		
Do.	6975	31	3	74.6	3	92.6	3	61.0	3	58.9	5	72.4	72.8	113.1		
Glacier	6976	33	3	95.3	3	95.3	3	63.8	3	44.6	5	62.2	72.1	112.0		
Atlas X Vaughn	34		3	69.9	3	88.4	3	102.3	3	90.1	5	62.9	67.9	104.8		
Do.	35		3	84.1	3	93.8	3	52.3	3	52.3	5	86.4	83.1	129.1		
Do.	36		3	79.8	3	88.2	3	55.2	3	55.2	5	64.6	68.3	106.2		
Do.	37		3	94.0	3	93.1	3	34.3	3	56.6	5	68.8	69.4	107.9		
Do.	38		3	89.8	3	88.7	3	50.8	3	59.4	5	79.3	73.6	114.4		
Do.	6977	39	3	70.2	3	70.5	3	44.4	3	58.8	5	80.6	65.0	101.0		
Do.	41		3	82.3	3	72.7	3	40.1	3	57.7	5	71.4	65.4	101.7		
Do.	42		3	86.9	3	93.8	3	39.8	3	56.5	5	76.9	71.3	110.8		
Do.	6978	43	3	82.9	3	88.1	3	32.1	3	68.5	5	78.0	70.0	108.7		
Do.	45		3	87.9	3	78.3	3	35.5	3	54.4	5	67.4	64.7	100.6		
Do.	46		3	62.8	3	85.1	3	40.1	3	62.2	5	67.4	64.8	100.7		
Do.	47		3	73.3	3	85.1	3	37.8	3	51.6	5	56.7	60.9	94.6		
Do.	48		3	84.0	3	102.7	3	36.6	3	57.1	5	71.6	70.8	110.0		
Do.	49		3	78.9	3	88.3	3	36.2	3	68.6	5	75.9	69.6	108.1		
Aberdeen:																
Trebi ¹	936		3	103.9	3	115.3	3	112.8	2	106.7	2	121.8	112.1	100.0		
Velvon	6109		3	107.3	3	113.1	2	103.2	2	103.8	2	124.2	110.4	98.4		
Ezoud	6265		3	91.4	3	103.5	3	99.8	2	89.4	3	110.4	99.3	88.6		
Flynn	1311		3	91.1	3	113.3	3	107.2	2	98.5	3	114.2	104.9	93.3		
Hanuchen	531		3	85.7	3	103.5	3	97.0	2	92.8	2	110.7	97.2	86.7		
Composite Cross selection	5302	1	99.4	3	112.6	3	110.0	2	104.2	3	126.6	110.6	98.6			
Mechanical Mixture	4115	1	93.2	1	77.1	2	75.1	2	90.3	1	77.8	82.7	73.8			
Composite Cross	4116	1	89.6	1	95.0	1	75.9	1	76.4	1	110.4	89.3	79.8			
Do.	5461	3	102.7	2	110.2	1	75.3	2	66.5	2	95.6	88.1	78.6			

See footnotes at end of table.

YIELDS OF BARLEY, 1937-41

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TABLE 8.—*Acre yields of varieties of barley grown at agricultural experiment stations in Idaho in 1 or more of the years 1937-41—Continued*

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield compared with standard, 1937-41	
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Aberdeen—Con.														
Lico	6279						3	90.3	2	91.2	3	117.1		
Manchurian X							1	109.7	2	111.0	2	119.1	88.1	
Minia	7005	36Ab.5117					1	52.3	1	67.9	2	71.0	99.6	
Murasaki Mochi	5899						1						56.0	
Meloy	1176		2	74.8	1	95.8							76.5	
Spartan	5027								2	73.4	3	87.8	70.5	
Composite Cross selection	7007	36Ab.1794								1		115.5	94.8	
Do	7008	36Ab.6127								1		117.6	96.6	
Minia X Horn	7006	36Ab.4631									1	112.1	92.0	
Composite Cross selection	5380		3	96.0	3	98.5	3	91.7	2	89.0			85.5	
Afghan	4166		3	103.0	3	114.2	3	107.2					97.7	
Composite Cross selection	5365		3	101.2	3	112.1	3	101.0					94.7	
High Altitude Composite Cross	6006		1	82.4	1	58.7	1	79.3					66.4	
Sandrel X Trebi	36Ab.4331						1	102.1	2	108.4			95.9	
Minia	3536						1	93.7	1	73.1			76.9	
Composite Cross selection	36Ab.3452						1	83.5					74.0	
Do	5323		1	94.0	3	111.5							93.8	
Sandpoint:														
Trebi 1	936	2073	2	33.9	2	19.7	2	58.8	2	36.2	2	37.4	100.0	
Beldi Giant	2777		2	32.8	2	22.8	2	54.2	2	35.2	2	61.8	100.4	
Charlottetown 80	2732	2118	2	32.7	2	20.7	2	51.2	2	30.3	2	38.7	84.3	
Manchurian	531		2	39.3	2	26.2	2	55.7	2	34.9	2	52.3	111.2	
Union Beardless	5976	2108	2	37.5	2	22.8	2	49.0	2	34.6	2	55.5	96.8	
O. A. C. 21	1470		2	28.7	2	21.2	2	57.3	2	33.0			94.3	

¹ Standard with which other varieties are compared for comparable years.² First replication of all varieties not harvested, because of error caused by threshing on this land in 1939.³ Third replication not harvested because of severe lodging.

ILLINOIS

Illinois Agricultural Experiment Station, Urbana G. H. Dungan.
 Crop Experiment Field, Alhambra In care of G. H. Dungan, Urbana.
 Crop Experiment Field, De Kalb In care of G. H. Dungan, Urbana.
 Crop Experiment Field, Mount Morris In care of G. H. Dungan, Urbana.

TABLE 9.—*Acre yields of varieties of barley grown at agricultural experiment stations in Illinois in 1 or more of the years 1937-41*

[Data obtained through the courtesy of the Illinois Agricultural Experiment Station]

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield compared with standard, 1937-41	
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Urbana:														
Spring-sown														
Wisconsin Barley less ¹	5105		2,521	237.4	2,265	6	50.1	6	47.3	10.7	100.0			
Trebi	936		2,543	233.0	2,355	6	46.8	6	41.7	41.8	102.8			
Joglos	6239		2,477	231.9	2,288	6	37.2	6	45.5	38.1	93.8			
Velvet	4252		2,456	227.0	2,312	6	36.0	6	42.6	36.5	89.7			
Orderbrucker	4666		2,437	233.7	2,314	6	41.5	6	39.9	38.0	93.5			
Manchuria	2947	N. Dak. 2121	2,416	225.0	2,280				6	36.0		85.2		

See footnotes at end of table.

TABLE 9.—*Acre yields of varieties of barley grown at agricultural experiment stations in Illinois in 1 or more of the years 1937-41—Continued*

Station and variety	C. I. No.	Station No.	Number of plots and acre yield						Average yield, 1937-41	Relative yield compared with standard		
			1937		1938		1939					
			Plots	Yield	Plots	Yield	Plots	Yield				
Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Percent		
Urbana—Continued.												
Spartan	5027		248.2	232.7	233.6					108.0		
Glabron	4577		238.1	236.0	232.3					90.9		
Regal	5030						6	44.0		87.3		
New Era	5108		235.2							67.6		
Fall-sown												
Purdue 21 ¹	4581		228.9	244.2	461.4	6	34.3	6	33.2	100.0		
Purdue 1101	4582		237.2	251.6	463.7	6	38.5	6	30.1	109.5		
Kentucky 1	6050		228.0	245.1	463.8	6	41.9	6	21.8	101.1		
Tennessee Winter	6054		211.0	220.4	445.5	6	41.1	6	8.9	23.4		
Missouri Early										62.8		
Beardless	6051		220.4	222.9	438.1	6	21.7	6	4.5	33.3		
Smooth Awn 203	6267		230.0	212.1	456.2	6	25.2	6	1.1	61.2		
Orel	351						433.6	6	19.7	57.1		
Purdue 28156A3-2-2-2	6562						6	38.0	6	30.3		
Reno	6561						6	43.6	6	11.1		
Santiam	6367						6	40.4	6	3.0		
Marnobarb	6120						6	27.1	6	1.8		
Tennessee Winter	52						6	30.9	6	4.0		
Wisconsin Winter	2159						6	25.0	6	3.8		
Jackson	6569	Tenn. B5-9(S)	23.0	213.1	437.8	6	26.8	6	1.7	40.7		
Eswa	4690						6	23.5		57.7		
Athambar												
Spring-sown												
Wisconsin Barb- less ¹	5105				211.4		6	8.7		100.0		
Spartan	5027						6	31.2	6	19.6		
Fall-sown												
Purdue 21 ¹	4581		561.6	524.6	544.0	5	52.7	2	27.1	42.0		
Missouri Early							5	46.8	2	20.6		
Beardless	6051		538.9	59.2	534.5	5	58.0	2	35.3	30.0		
Kentucky	6050		565.0	529.9	562.5	5	58.0	2	32.1	71.4		
Purdue 1101	4582		542.3	560.6	537.6			2	20.4	113.7		
Tennessee Winter	6054		542.4	525.2	518.2			2	20.4	109.7		
Smooth Awn 203	6267		544.1	51.1	530.9			2	20.4	67.3		
Marnobarb	6120						5	51.0	2	23.3		
Orel	351						5	15.6	2	18.2		
Reno	6561						2	31.4		47.5		
Tennessee Winter	52						2	30.3		115.9		
Wisconsin Winter	2159						2	26.0		11.8		
Tennessee Smooth Awn	6570	Tenn. B5-14					2	25.8		95.2		
Santiam	6367						2	21.9		80.8		
Tennessee Smooth Awn	6569	Tenn. B3-96					2	20.4		73.3		
Jackson	6569	Tenn. B5-9(S)	539.1		513.6			2	18.3	68.3		
De Kalb ²										49.9		
Spring-sown												
Wisconsin Barb- less ¹	5105		233.4	234.8	235.2	6	55.2	6	41.6	38.0		
Trifl. 1	936		232.1	240.4	232.5	6	39.0	6	33.5	41.7		
Velvet	4252		217.0	231.3	233.1	6	57.0	6	34.3	33.3		
Jugos	6239		217.6	231.4	234.1	6	56.7	6	32.7	34.5		
Oderbrucker	4666		216.3	230.5	236.3	6	48.3	6	31.9	32.7		
Manchuria	2947	N. Dak. 3121	216.3	229.9	234.9	6	48.7	6	29.5			
Spartan	5027		231.7	227.1	235.0	6	48.7			81.9		
Glabron	4577		214.5	229.2	236.4			6	38.0			
Regal	5030						6	38.0		85.8		
New Era	5108		217.9							105.1		

¹ Standard with which other varieties are compared for comparable years.² Tests were conducted at Mount Morris instead of De Kalb in 1941.

YIELDS OF BARLEY, 1937-41

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INDIANA

Purdue University Agricultural Experiment Station, La Fayette

Jennings County Experiment Field, North Vernon ----- R. R. Mulvey.

Moses Fell Annex Farm, Bedford ----- In care of R. R. Mulvey, La Fayette.

Knox County Experiment Field, Bicknell ----- H. G. Hall.

----- In care of R. R. Mulvey, La Fayette.

TABLE 10.—*Acre yields of varieties of barley grown at agricultural experiment stations in Indiana in 1 or more of the years 1937-41*

[Data obtained through the courtesy of the Purdue University Agricultural Experiment Station]

Station and variety	C. I. No.	Number of plots and acre yield										Average yield, 1937-41	Relative yield com- pared with stand- ard		
		1937		1938		1939		1940		1941					
		Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield				
La Fayette:															
<i>Fall-sown</i>			Bu.		Bu.		Bu.		Bu.		Bu.		Per- cent		
Purdue 1101 1	4582	8	45.8	8	37.4	8	36.3	8	40.3	8	45.7	41.1	100.0		
Purdue 21	4581	2	48.9	2	35.7	2	34.8	2	42.5	2	41.6	40.7	97.0		
Kentucky 1	6050	2	48.8	2	44.1	2	42.5	2	43.3	2	49.5	46.0	112.0		
Beardless Winter		2	25.4	2	21.3	2	33.5	2	29.1	2	39.0	29.7	72.2		
Missouri Early Beard- less	6051	2	33.0	2	20.6	2	29.6	2	30.2	2	40.2	30.7	74.7		
Purdue 28156A3-2-2-2	6362	1		2	27.0	2	34.3	2	36.9	2	36.2	31.2	81.2		
Purdue 28154A3-1-1-6	7067	1		2		2	31.5	2	41.9	2	42.9	35.1	82.5		
Purdue 28156A3-2-1-3		2		2		2	31.7	2	34.9	2	34.3				
Purdue 28156A3-2-1-2		2		2		2	31.3	2	39.7	2	36.1				
Purdue 28156A4-1-1-6		2		2		2	29.0	2	40.0	2	41.3				
Marnobarb.	6120	2	38.4	2	11.1								59.5		
<i>Spring-sown</i>															
Alpha 1	959	8	35.2	8	5.7	4	29.9	4	31.7	4	41.5	28.8	100.0		
Spartan	5027	2	34.7	2	7.0	2	24.5	2	26.3	2	37.0	25.9	89.9		
Manchuria	2330	2	32.6	2	6.8								94.4		
Glabron	4577	2	23.8	2	5.5								66.3		
Velvet	4252	2	37.6	2	7.8								111.0		
Wisconsin Beardless	3105	2	27.5	2	2.8								74.1		
Oderbrucker X Lion (Sta. No. Wis. Ped. 37)	5028	2	34.1	2	6.0								98.0		
North Vernon:															
<i>Fall-sown</i>															
Purdue 21 1	4581	2	14.5	2	6.5	2	25.5	2	20.5	2	27.5	18.9	100.0		
Missouri Early Beard- less	6051	1	14.9	1	9.3	1	16.5	1	14.5	1	30.3	17.1	90.5		
Kentucky 1	6050	1		1	12.8	1	30.5	1	24.3	1	33.8		126.8		
Marnobarb.	6120	1	15.6	1	10.5								124.3		
Bedford:															
<i>Fall-sown</i>															
Purdue 21 1	4581	2	45.0	2	33.8	2	42.8	2	44.5	2	28.5	38.9	100.0		
Missouri Early Beard- less	6051	1	41.0	1	24.3	1	40.3	1	50.3	1	31.7	37.5	96.4		
Kentucky 1	6050	1		1	42.4	1	43.8	1	56.9	1	36.1		129.7		
Marnobarb.	6120	1	41.0	1	34.4								95.7		
Bicknell:															
<i>Fall-sown</i>															
Purdue 21 1	4581	2	17.7	2	26.0	2	28.7	2	44.2	2	32.2	29.8	100.0		
Missouri Early Beard- less	6051	1	24.0	1	20.0	1	27.0	1	30.9	1	24.4	25.3	84.9		
Kentucky 1	6050	1		1	39.0	1	41.1	1	41.6	1	40.6		123.8		
Marnobarb.	6120	1	13.9	1	24.5								87.9		

¹ Standard with which other varieties are compared for comparable years.

IOWA

Iowa Agricultural Experiment Station, Ames..... L. C. Burnett.
 Experimental Field, Kanawha..... In care of L. C. Burnett, Ames.

TABLE 11.—*Acre yields of varieties of barley grown at agricultural experiment stations in Iowa in 1 or more of the years 1937-41*

[Data obtained through the courtesy of the Iowa Agricultural Experiment Station]

Station and variety	C. I. No.	Number of plots and acre yield										Average yield, 1937-41	Relative yield com- pared with stand- ard
		1937		1938		1939		1940		1941			
		Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Bu.	Percent
Ames: Ioglos ²	6239	2	43.3	2	20.5	2	24.8	2	36.7	2	0	25.1	100.0
Velvet	4252	2	42.0	2	16.3	2	27.6	2	39.0	2	0	25.0	99.7
Glabron	4577	2	40.3	2	19.4	2	23.8	2	38.0	2	0	24.3	97.0
Wisconsin Barless	5105	2	47.8	2	24.8	2	38.6	2	42.9	2	0	30.8	123.0
Spartan	5027	2	45.7	2	23.5	2	21.2	2	36.9	2	0	25.9	103.2
Manchuria	2947	2	43.5	2	16.5	2	16.3	2	37.2	2	0	22.7	90.6
Oderbrucker	4666	2	35.7	2	12.4	2	17.3	2	28.5	2	0	18.8	74.9
Peatland	5267	2	46.5	2	14.7	2	20.3	2	37.7	2	0	23.8	95.1
Trebi	936	2	43.5	2	23.2	2	19.3	2	40.2	2	0	25.4	101.5
Minsturdi	1556	2	39.5	2	21.8	2	15.3	2	36.8	2	0	22.7	90.5
Kanawha: Ioglos ²	6239	10	22.2	10	30.6	10	47.8	10	51.9	4	16.4	33.8	100.0
Velvet	4252	10	20.3	10	34.6	10	47.3	10	52.6	4	16.9	34.3	101.7
Glabron	4577	10	22.6	10	30.7	10	45.1	10	52.3	4	19.9	34.1	101.0
Wisconsin Barless	5105	10	31.6	10	33.5	10	55.7	10	56.0	4	22.0	39.8	117.7
Spartan	5027	10	25.1	10	44.8	10	35.9	10	38.2	4	10.0	30.6	90.6
Manchuria	2947	10	25.7	10	25.3	10	33.7	10	38.4	4	14.5	27.1	80.3
Oderbrucker	4666	10	17.0	10	21.7	10	32.8	10	27.8	4	11.3	22.1	65.5
Peatland	5267	10	38.2	10	22.1	10	33.2	10	32.1	4	18.2	29.2	86.3
Trebi	936	10	28.1	10	21.2	10	40.2	10	53.2	4	13.2	31.2	92.3
Minsturdi	1556	10	15.5	10	20.7	10	16.9	10	31.5	4	16.2	20.2	59.7

¹ Crop destroyed by hail at Ames in 1941.

² Standard with which other varieties are compared for comparable years.

KANSAS

Kansas Agricultural Experiment Station, Manhattan..... H. H. Laude.
 Northeast Experiment Field, McLouth. In care of Erwin Abmeyer, Wathena.
 Southeast Experiment Field, Columbus. In care of F. E. Davidson, Parsons.
 Southeast Experiment Field, Thayer. In care of F. E. Davidson, Parsons.
 South Central Experiment Field, Wichita. In care of C. R. Porter, Kingman.
 South Central Experiment Field, Kingman..... In care of C. R. Porter.
 South Central Experiment Field, Hutchinson..... In care of C. R. Porter, Kingman.
 Southwest Experiment Field, Dodge City. In care of A. B. Erhart, Meade.
 Southwest Experiment Field, Meade..... A. B. Erhart.
 Branch Experiment Station, Hays..... A. F. Swanson.
 Branch Experiment Station, Colby..... E. H. Coles.
 Branch Experiment Station, Tribune..... T. B. Stinson.
 Branch Experiment Station, Garden City..... A. E. Lowe.

YIELDS OF BARLEY, 1937-41

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TABLE 12.—*Acre yields of varieties of barley grown at agricultural experiment stations in Kansas in 1 or more of the years 1937-41*

[Data for Manhattan, for the branch stations at Garden City and Tribune, and for the experiment fields obtained through the courtesy of the Kansas Agricultural Experiment Station; for Hays, in cooperation with the station; and for Colby through the courtesy of the station and the Division of Dry Land Agriculture]

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Average yield, 1937-41	Relative yield com- pared with stand- ard		
			1937		1938		1939		1940		1941					
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield				
Manhattan:																
<i>Spring-sown</i>				Bu.		Bu.		Bu.		Bu.		Bu.		Percent		
Stavropol	5913	7136	3	35.9	3	46.6										
Flynn	1311	7143					3	21.1	3	21.8	3	29.3				
<i>Fall-sown</i> ¹																
Missouri Early																
Beardless ²	6051	7182	1	15.4	1	0	1	2.3	1	20.1	1	19.4	11.4	100.0		
Reno	6361	7178												135.7		
Ward	6007	7179												151.1		
Kansas Southeast																
strain	7070	7176	1	17.9	1	0	1	2.5	1	19.9				106.6		
Kansas South-central strain	6376	7177	1	21.1	1	0	1	5.4	1	22.8				130.4		
Kentucky 2	6148	8081	1	23.0	1	0								149.4		
Kentucky 11	6021	8082	1	16.2										105.2		
Tenkow	646	7180												154.2		
Manchuria	243	7181												176.1		
McLouth ³ :																
<i>Fall-sown</i>														*		
Missouri Southeast																
strain ²	7070	7176	3	32.1	2	31.1	3	37.4	3	62.4	3	0	33.6	100.0		
Missouri Early																
Beardless	6051	7182	3	0	3	0	2	29.3	3	42.5	3	0	14.3	71.8		
Reno	6361	7178			3	0	3	38.6	3	55.1	3	0		93.9		
Ward	6007	7179									3	0				
Columbus:																
<i>Fall-sown</i>																
Missouri Early																
Beardless ²	6051	7182	2	30.7	2	30.7	2	18.9	2	14.3	3	21.3	23.2	100.0		
Reno	6361	7178			2	64.4	2	34.8	2	37.2	3	58.5		205.3		
Ward	6007	7179							2	32.9	3	33.7		187.1		
Kansas South-central strain	6376	7177	2	38.1	2	38.8	2	34.3	1	25.1				165.2		
Kansas Southeast																
strain	7070	7176	2	43.7	2	61.4	2	31.7	1	32.0				178.4		
Kentucky 2	6148	8081	2	39.8	2	57.5	2	28.1						156.2		
Tenkow	646	7180							2	12.1				84.6		
Manchuria	243	7181							3	6.1				42.7		
Thayer:																
<i>Fall-sown</i>																
Reno ²	6361	7178					3	21.6	3	22.2	3	44.1		100.0		
Missouri Early																
Beardless	6051	7182					3	20.7	3	18.1	3	27.0		70.3		
Ward	6007	7179							2	10.4	3	41.4		78.1		
Kansas South-central strain	6376	7177					3	24.1	3	14.1				87.2		
Kansas Southeast																
strain	7070	7176					3	18.9	3	17.8				83.8		
Tenkow	646	7180							2	13.0				58.6		
Manchuria	243	7181							2	15.6				70.3		
Kentucky 2	6148	8081					3	20.6						95.4		
Wichita:																
<i>Spring-sown</i>																
Flynn ²	1311	7143	4	31.4	4	37.1	6	11.4	3	61.6	3	47.4	37.8	100.0		
Stavropol	5913	7136	4	25.4	4	39.5	6	11.4	3	50.8	3	40.8	33.6	88.9		
Malt ⁴		7183	4	31.0	4	31.0	6	8.3	3	53.9				87.8		
Tribi	936	7137			4	32.7								88.1		

See footnotes at end of table.

TABLE 12.—*Acre yields of varieties of barley grown at agricultural experiment stations in Kansas in 1 or more of the years 1937-41—Continued*

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield compared with standard	
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Wichita—Continued.														
<i>Fall-sown</i>				Bu.		Bu.		Bu.		Bu.		Bu.	Percent	
Kansas South-central strain ²	6376	7177	3	30.2	2	38.9			1	87.5	2	45.4	100.0	
Missouri Early														
Beardless	6051	7182			2	37.4			1	73.3	2	33.8	84.1	
Ward	6007	7179							1	84.6	2	46.5	98.9	
Reno	6561	7178							1	80.9	2	41.7	92.2	
Kansas Southeast strain	7070	7176	3	29.5	2	44.3			1	83.3			100.0	
Bluebaugh ⁵			2	49.8									128.0	
Kingman:														
<i>Spring-sown</i>														
Flynn ²	1311	7143	4	22.5	4	28.4	6	15.2	2	26.0	2	28.9	23.8	
Stavropol	5913	7136	4	22.2	4	39.1	6	12.1	2	22.1	2	33.8	25.9	
Malt ⁴		7183	4	23.6	4	40.8	6	9.8	2	27.7			113.7	
Trebi	936	7157			4	32.3								
<i>Fall-sown</i> ⁶														
Kansas South-central strain ²	6376	7177	2	19.1	2	41.6	2	0	1	27.3	2	42.4	26.1	
Missouri Early														
Beardless	6051	7182	2	12.1	2	33.5	2	0	1	16.5	2	30.2	18.5	
Ward	6007	7179							1	23.1	2	43.5	95.6	
Reno	6561	7178							1	17.3	2	42.1	85.2	
Kansas Southeast strain	7070	7176	2	18.2	2	45.5	2	0	1	23.9			99.5	
Bluebaugh ⁵			2	40.5									97.4	
Hutchinson:														
<i>Spring-sown</i>														
Flynn ²	1311	7145					4	14.7	2	57.8	2	30.5		
Stavropol	5913	7136					4	13.4	2	40.0	2	22.5	73.7	
Malt ⁴		7183					4	10.5	2	52.4			86.8	
<i>Fall-sown</i>														
Kansas South-central strain ²	6376	7177							2	41.7			100.0	
Kansas Southeast strain	7070	7176							2	41.2			98.8	
Reno	6561	7178							2	41.1			92.0	
Ward	6007	7179							2	31.4			75.3	
Hays:														
<i>Spring-sown</i>														
Flynn 1 ²	5911		2	23.4	2	50.3	3	15.9	4	28.5	4	37.4	35.1	
Vaughn	1367		2	20.3	2	49.5	2	15.1	4	24.7	4	51.3	32.2	
Club Marion	261		2	19.3	2	34.0	2	9.4	4	25.0	4	42.3	44.0	
Stavropol	5913		2	18.7	2	35.9	2	7.3	4	29.8	4	48.5	28.0	
Franklin Malt	5915		2	24.7	2	29.9	2	2.6	4	27.1	4	45.0	25.9	
Spartan	5027		2	21.1	2	33.0	2	5.0	4	25.0	4	45.5	26.0	
White Smyrna	195		2	30.2	2	32.6	2	11.2	4	23.2	4	44.3	28.3	
Flynn	7009	H. C. 388	2	33.9	2	8.6	2	32.3	4	46.5			79.8	
Beecher	6566		2	33.3	2	20.3	4	21.3	4	47.8			88.4	
Glacier	6976	Moscow 33											100.7	
Hannchen	531												67.6	
Wisconsin Barless	5105												96.2	
Atlas X Vaughn		Moscow 22			2	39.6	2	11.2	4	24.0			79.0	
Lico	6279				2	6.3	4	24.4					69.1	
Colby:														
<i>Spring-sown</i>														
Flynn 1 ²	5911		3	10.5	3	13.2	3	18.4	3	26.5	3	51.5	24.0	
Vaughn	1367		3	8.6	3	10.0	3	16.4	3	19.4	3	51.2	21.3	
Stavropol	5913		3	8.5	3	18.0	3	11.5	3	13.0	3	50.7	20.3	
Spartan	5027		3	6.9	3	8.0	3	13.4	3	13.7	3	50.3	18.9	
Club Marion	261		3	6.7	3	9.7	3	12.8	3	19.9	3	56.1	21.0	
Franklin Malt	5915		3	.7	3	11.8	3	7.9	3	7.3	3	42.9	14.1	
Beecher	6566		3	.7	3	6.3	3	23.6	3	66.6			58.8	
Hannchen	531								3	25.7			75.6	
Wisconsin Barless	5105								3	27.6			49.9	

See footnotes at end of table.

YIELDS OF BARLEY, 1937-41

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TABLE 12.—*Acre yields of varieties of barley grown at agricultural experiment stations in Kansas in 1 or more of the years 1937-41—Continued*

Station and variety	C. I. No.	Station No.	Number of plots and acre yield						Relative yield com- pared with stand- ard				
			1937		1938		1939		1940				
			Plots	Yield	Plots	Yield	Plots	Yield	Plots				
Tribune: ⁷													
Spring-sown				Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Percent			
Flynn ²	1311	7143	2	0	2	17.1	2	4.3	2	38.9	16.8	100.0	
Vaughn	1367	8073	2	0	2	16.3	2	4.9	2	36.0	20.2	15.0	
Stavropol	5913	7136	2	0	2	23.0	2	4.1	2	24.9	15.9	89.2	
Beecher	6566	8086										94.4	
Spartan	5027	8075										113.9	
Malt ¹		7183	2	0	2	18.6	2	2.2		2	38.6	65.5	
Club Mariout	261	7131	2	0	2	12.6	2	5.4				97.2	
Trebi	936	7137	2	0	2	15.2						84.1	
Garden City:												106.4	
Spring-sown													
Flynn ^{1,2}	5911		1	13.5	3	5.5	3	1.7	3	41.3	3	49.4	22.3
Vaughn	1367		1	14.9	3	5.9	3	1.8	3	37.9	3	48.1	21.7
Stavropol	5913		1	14.2	3	1.0	3	1.2	3	38.0	3	32.5	12.7
Club Mariout	261		1	12.8	3	6.0	3	1.9	3	29.9	3	37.8	17.5
Franklin Malt	5915		1	11.5	3	2.1	3	1.8	3	26.3	3	34.0	65.5
Hannchen	531											68.8	
Dodge City: ⁸													
Spring-sown													
Flynn ²	1311	7143			2	9.5	2	15.7	2	45.9	2	47.4	
Stavropol	5913	7136			2	10.3	2	11.2	2	40.2	2	47.9	
Vaughn	1367	8073			2	7.3	2	12.7	2	49.2	2	45.7	
Meade: ⁸												98.6	
Spring-sown													
Flynn ²	1311	7143			2	18.8	2	7.9	2	24.8	2	56.4	
Stavropol	5913	7136			2	16.7	2	4.6	2	22.1	2	43.0	
Vaughn	1367	8073			2	17.6	2	7.6	2	26.5	2	38.7	

¹ All varieties were winter-killed in 1938.² Standard with which other varieties are compared for comparable years.³ All zero yields are due to winter-killing ranging from 90 to 100 percent.⁴ Seed for this variety was obtained from several sources and, therefore, may not be exactly identical at all stations where it was grown.⁵ A local barley.⁶ All varieties were winter-killed in 1939.⁷ Crop failure in 1937 due to drought; crop was damaged by hail in 1938.⁸ Duplicate plots were sown, one on fallow land and the other on cropped land, each year.

MAINE

Aroostook Experiment Farm, Presque Isle...In care of J. A. Chucka, Orono.

TABLE 13.—*Acre yields of varieties of barley grown at the Aroostook Experiment Farm, Presque Isle, in 1 or more of the years 1937-41*

[Data obtained through the courtesy of the Maine Agricultural Experiment Station]

Variety	C. I. No.	Number of plots and acre yield						Relative yield com- pared with stand- ard				
		1937		1938		1939		1940				
		Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield			
			Bu.		Bu.		Bu.		Bu.	Percent		
Alpha ¹	959	4	46.7	5	29.5	5	41.2	6	68.6	10	47.5	46.7
Byng	6089	4	57.4	5	26.2	5	47.6	6	69.2	10	50.1	100.0
Velvet	4252	4	48.1	5	17.8	5	37.5	6	53.9	10	23.7	107.3
Wisconsin Barleless	5105	4	37.7	5	18.6	5	35.5	6	54.8	10	41.8	78.4
Hannchen	531	4	35.5	5	20.6	5	41.7	6	65.7	10	47.1	80.7
Oderbrucker	4666	4	35.5	5	20.2	5	35.2	6	51.2	10	25.9	93.7
Spartan	5027	4	39.7	5	15.9							70.9
Trebi	936	4	57.4	5	27.1							110.9
Manchuria	2947	4	33.7									72.2

¹ Standard with which other varieties are compared for comparable years.

MARYLAND

Maryland Agricultural Experiment Station, College Park...R. G. Rothgeb.

TABLE 14.—*Acre yields of varieties of barley grown at the Maryland Agricultural Experiment Station, College Park, in 1 or more of the years 1937–41*

[Data obtained through the courtesy of the Maryland Agricultural Experiment Station]

Variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield com- pared with stand- ard	
			1937		1938 ¹		1939 ¹		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Tennessee Winter ² ...	257		2	45.1	2	0	2	25.0	2	18.9	3	24.6	21.7	100.0
Maruohar...	6120	13-6	2	43.3	2	0	2	19.2	2	17.0	3	20.2	19.9	97.8
Smooth Awn selection...	6495	13-8	2	47.9	2	0	2	18.8	2	16.5	3	23.4	21.3	95.8
Smooth Awn 86...	6268		2	47.8	2	0	2	16.8	2	16.1	3	30.2	22.0	96.9
Missouri Early Barbless...	6051		2	37.9	2	0	2	26.4	2	14.5	3	24.1	20.6	90.6
Tennessee Winter...	6031				2	33.8	2	20.4	3	27.5				104.4
Kentucky L...	6050													80.9
Sunrise...	6272		2	51.3	2	0	2	24.4	2	16.7				103.8
Smooth Awn selection...	6494	19-8	2	44.6	2	0	2	18.1						89.4
Smooth Awn 203...	6267		2	37.1										82.3

¹ Plots not harvested in 1938 because of poor emergence due to late seeding on a wet seedbed; lower yields, beginning in 1939, are due to the fact that a new farm, with soil unsuitable for good barley production, was used for the plot tests.

² Standard with which other varieties are compared for comparable years.

MICHIGAN

Michigan Agricultural Experiment Station, East Lansing—J. W. Thayer, Jr.

TABLE 15.—*Acre yields of varieties of barley grown at the Michigan Agricultural Experiment Station, East Lansing, in 1 or more of the years 1937–41*

[Data obtained through the courtesy of the Michigan Agricultural Experiment Station]

Variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield com- pared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Spartan ¹ ...	5027	68	136	25.0	137	47.6	90	29.7	212	35.8	201	39.6	35.5	100.0
Michigan Two- Rowed...	2782	124	5	25.0	6	47.6	6	33.6	6	42.2	6	34.8	38.6	108.7
Alpha...	939	121	6	24.4	6	49.3	6	35.3	6	43.2	6	48.2	40.5	113.9
Wisconsin Barbless...	5105	180	6	29.4	6	55.3	6	38.7	6	39.8	6	49.5	42.3	119.7
Manchuria...	1273	101	6	23.6	6	36.4	6	43.0	6	32.7	6	33.9	33.9	95.4
Velvet...	4252	95	6	30.1	6	48.0	6	37.3	6	38.9	5	43.2	39.5	111.1
Tribi...	916	137	6	30.4	6	57.4	6	34.9	6	40.5	5	44.3	41.5	116.8
Ioglos...	6239	204	6	26.6	6	49.3	6	36.6	6	35.1	6	42.6	38.0	107.0
Newal...	6086	205	6	26.6	6	50.6	6	34.3	6	23.7	6	33.8		93.3
Noharb...	6335	227	6	27.5	6	48.6	6	36.1	6	44.6	6	42.7		115.8
Glabron...	4577	99	6	27.5	6	48.6	6	36.1	6	44.6	6	42.7		109.7
Minnesota 450...	6446	180	6	34.8	6	54.2	6	40.1	6	40.1	6	40.1		126.2

¹ Standard with which other varieties are compared for comparable years.

MINNESOTA

Minnesota Agricultural Experiment Station, St. Paul..... F. R. Immer.
 Southeast Experiment Station, Waseca..... In care of F. R. Immer, St. Paul.
 West Central Experiment Station, Morris..... In care of F. R. Immer, St. Paul.
 Northwest Experiment Station, Crookston..... In care of F. R. Immer, St. Paul.
 North Central Experiment Station, Grand Rapids

..... In care of F. R. Immer, St. Paul.
 Northeast Experiment Station, Duluth..... In care of F. R. Immer, St. Paul.

TABLE 16.—*Acre yields of varieties of barley grown at agricultural experiment stations in Minnesota in 1 or more of the years 1937-41*

[Data obtained through the courtesy of the Minnesota Agricultural Experiment Station]

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield com- pared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
St. Paul:														
Manchuria 1	2330	184	3	27.9	3	41.4	3	33.5	3	55.5	3	46.5	41.0	
Peatland	5267	452	3	33.0	3	50.6	3	51.6	3	73.3	3	54.7	52.7	
Velvet	4252	447	3	34.2	3	42.2	3	44.4	3	73.3	3	54.7	49.8	
Minsturdi	1556	439	3	42.0	3	58.3	3	42.0	3	68.9	3	61.0	54.4	
Wisconsin Barbless	5105	529	3	30.5	3	54.8	3	49.6	3	77.8	3	64.7	53.5	
O. A. C. 21	1470	587												
Gartons	7016	588												
Spartan	5027	536												
Minnesota 462 X														
Peatland	7010	II-31-15												
Do.	7011	II-31-19												
Do.	7012	II-31-25												
Do.	7013	II-31-37												
Do.	7014	II-31-39												
Mars	7015	II-31-45												
Glabron	4577	445	3	37.9	3	45.9	3	45.7	3	69.7	3	62.4	125.8	
Trebi	936	448	3	46.0	3	58.4	3	48.7	3	71.5			141.9	
Joglos	6239	586												
Oderbrucker	4666	528												
Odessa	182	564												
Lion X Manchuria 6001	565	3	47.6	3	46.1								135.2	
Waseca:														
Manchuria 1	2330	184	3	47.7	3	41.5	3	48.8	3	53.4	3	55.9	45.5	
Peatland	5267	452	3	48.3	3	44.0	3	58.2	3	83.7	3	54.3	53.7	
Velvet	4252	447	3	44.6	3	57.7	3	61.7	3	61.3	3	35.1	30.1	
Minsturdi	1556	450	3	54.1	3	47.4	3	52.7	3	66.2	3	36.5	31.4	
Wisconsin Barbless	5105	529	3	57.1	3	56.8				103.4	3	43.3		
Spartan	5027	536												
Minnesota 462 X														
Peatland	7010	II-31-15												
Do.	7011	II-31-19												
Do.	7012	II-31-25												
Do.	7013	II-31-37												
Do.	7014	II-31-39												
Mars	7015	II-31-45												
Glabron	4577	445	3	39.0	3	44.4	3	53.7	3	61.6	3	43.6	115.6	
Trebi	936	448	3	67.3	3	50.3	3	64.8	3	84.2			139.3	
Oderbrucker	4666	528	3	38.3	3	43.7	3	60.4	3	53.2			102.2	
Joglos	6239	586												
Odessa	182	564												
Lion X Manchuria 6001	565	3	52.4										97.3	
Morris:														
Manchuria 1	2330	184	3	31.5	3	49.0	3	31.1	3	51.2	3	39.3	40.4	
Peatland	5267	452	3	31.8	3	48.8	3	41.7	3	59.6	3	47.0	45.8	
Velvet	4232	447	3	34.3	3	50.9	3	48.6	3	52.7	3	41.4	45.6	
Wisconsin Barbless	5105	529	3	43.4	3	64.6	3	55.1	3	72.4	3	53.3	57.8	
Gartons	7016	588												
Spartan	5027	536												
Minnesota 462 X														
Peatland	7010	II-31-15												
Do.	7011	II-31-19												
Do.	7012	II-31-25												
Do.	7013	II-31-37												
Do.	7014	II-31-39												

See footnote at end of table.

TABLE 16.—*Acre yields of varieties of barley grown at agricultural experiment stations in Minnesota in 1 or more of the years 1937-41—Continued*

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Average yield, 1937-41	Relative yield com- pared with stand- ard
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Bu.	Percent
Morris—Continued.														
Mars	7015	11-31-45	3	30.5	3	33.3	3	46.8	3	38.9	3	56.0	—	142.5
Glabron	4577	445	3	30.5	3	33.3	3	46.8	3	38.9	—	—	—	177.6
Trebi	936	448	3	42.9	3	63.7	3	44.6	3	70.4	—	—	—	136.1
Logios	6239	586	—	—	3	54.7	3	46.7	3	63.1	—	—	—	126.8
Oderbrucker	4666	528	3	24.1	3	50.6	—	—	—	—	—	—	—	92.8
Odessa	182	564	3	34.8	—	—	—	—	—	—	—	—	—	110.5
Lion X Manchuria	6001	565	3	37.5	—	—	—	—	—	—	—	—	—	119.0
Crookston:														
Manchuria	2330	184	3	25.2	3	29.7	3	35.0	3	42.2	3	23.7	31.2	100.0
Peatland	5267	452	3	43.1	3	44.3	3	43.1	3	42.8	3	37.9	42.2	135.6
Velvet	4232	447	3	38.6	3	33.7	3	41.2	3	30.0	3	43.8	39.5	126.6
Wisconsin Barless	5105	529	3	40.2	3	45.7	3	42.9	3	58.5	3	41.5	45.8	146.9
O. A. C. 21	1470	587	3	34.1	3	48.3	3	47.2	3	35.7	3	36.2	40.3	129.3
Cartous	7016	588	—	—	3	42.9	3	52.0	3	32.3	—	—	—	126.1
Spartan	5027	536	—	—	—	—	3	46.2	3	38.8	—	—	—	129.0
Minnesota 462 X														
Peatland	7010	11-31-15	—	—	—	—	—	—	—	—	3	37.1	—	136.5
Do	7011	11-31-19	—	—	—	—	—	—	—	—	3	42.8	—	180.6
Do	7012	11-31-25	—	—	—	—	—	—	—	—	3	31.6	—	133.3
Do	7013	11-31-37	—	—	—	—	—	—	—	—	3	37.6	—	158.6
Do	7014	11-31-39	—	—	—	—	—	—	—	—	3	37.3	—	157.4
Mars	7015	11-31-45	—	—	—	—	—	—	—	—	3	41.9	—	176.8
Glabron	4577	445	3	33.4	3	39.8	3	41.4	3	42.2	—	—	—	188.7
Trebi	936	448	3	39.0	3	37.5	3	56.3	3	43.9	—	—	—	133.8
Logios	6239	586	—	—	3	34.1	3	43.8	3	45.9	—	—	—	113.8
Oderbrucker	4666	528	3	28.4	3	25.7	—	—	—	—	—	—	—	98.5
Odessa	182	564	3	35.5	3	35.1	—	—	—	—	—	—	—	128.6
Lion X Manchuria	6001	563	3	29.6	—	—	—	—	—	—	—	—	—	117.5
Grand Rapids:														
Manchuria	2330	184	3	24.1	3	19.8	3	30.2	3	36.0	3	31.2	28.3	100.0
Peatland	5267	452	3	45.5	3	16.8	3	26.8	3	39.4	3	37.2	33.1	117.3
Velvet	4232	447	3	25.5	3	16.6	3	38.4	3	44.5	3	48.2	34.6	122.6
Wisconsin Barless	5105	529	3	33.8	—	—	3	49.7	3	60.7	3	49.5	—	159.4
Spartan	5027	536	—	—	—	—	—	—	—	—	3	36.6	—	117.3
Minnesota 462 X														
Peatland	7010	11-31-15	—	—	—	—	—	—	—	—	3	42.0	—	134.6
Do	7011	11-31-19	—	—	—	—	—	—	—	—	3	26.1	—	83.7
Do	7012	11-31-25	—	—	—	—	—	—	—	—	3	37.7	—	120.8
Do	7013	11-31-37	—	—	—	—	—	—	—	—	3	33.6	—	107.7
Do	7014	11-31-39	—	—	—	—	—	—	—	—	3	26.3	—	84.3
Mars	7015	11-31-45	—	—	—	—	—	—	—	—	3	39.7	—	127.2
Glabron	4577	445	3	21.3	3	16.1	3	32.8	3	43.3	—	—	—	103.1
Trebi	936	448	3	32.7	3	19.0	3	42.7	3	58.7	—	—	—	139.1
Logios	6239	586	—	—	3	15.2	3	30.0	3	41.9	—	—	—	101.3
Oderbrucker	4666	528	3	22.4	3	17.6	—	—	—	—	—	—	—	91.1
Odessa	182	564	3	38.3	—	—	—	—	—	—	—	—	—	158.9
Lion X Manchuria	6001	565	3	27.1	—	—	—	—	—	—	—	—	—	112.4
Duluth:														
Manchuria	2330	184	3	12.3	3	30.0	3	35.9	3	28.9	3	20.5	25.5	100.0
Peatland	5267	452	3	27.9	3	28.5	3	33.5	3	29.3	3	29.6	29.8	116.6
Velvet	4232	447	3	14.0	3	27.7	3	39.0	3	39.0	3	27.8	27.7	107.8
Wisconsin Barless	5105	529	3	11.6	3	36.3	3	45.4	3	38.3	3	32.6	32.8	128.7
Spartan	5027	536	—	—	—	—	—	—	—	—	3	25.9	3	21.5
Minnesota 462 X											3	30.6	—	149.3
Peatland	7010	11-31-15	—	—	—	—	—	—	—	—	3	32.9	—	160.5
Do	7011	11-31-19	—	—	—	—	—	—	—	—	3	32.4	—	158.0
Do	7012	11-31-25	—	—	—	—	—	—	—	—	3	35.5	—	173.2
Do	7013	11-31-37	—	—	—	—	—	—	—	—	3	30.6	—	149.3
Mars	7015	11-31-45	—	—	—	—	—	—	—	—	3	36.0	—	173.6
Glabron	4577	445	3	19.8	3	24.2	3	30.5	3	29.9	—	—	—	97.5
Trebi	936	448	3	20.5	3	12.6	3	49.4	3	39.8	—	—	—	128.2
Logios	6239	586	—	—	3	28.4	3	43.1	3	32.1	—	—	—	109.3
Oderbrucker	4666	528	3	7.4	3	26.5	—	—	—	—	—	—	—	80.1
Odessa	182	564	3	20.3	—	—	—	—	—	—	—	—	—	163.0
Lion X Manchuria	6001	565	3	12.4	—	—	—	—	—	—	—	—	—	100.8

¹ Standard with which other varieties are compared for comparable years.

YIELDS OF BARLEY, 1937-41

21

MISSISSIPPI

Mississippi Agricultural Experiment Station, State College..... J. E. O'Kelly,
Delta Branch Experiment Station, Stoneville..... P. W. Gull.

TABLE 17.—Acre yields of varieties of barley grown at agricultural experiment stations in Mississippi in 1 or more of the years 1937-41

(Data for State College obtained through the courtesy of the Mississippi Agricultural Experiment Station and for Stoneville through the courtesy of the Delta Branch Station in cooperation with the Division of Cotton and Other Fiber Crops and Diseases)

Station and variety	C. I. No.	Number of plots and acre yield										Average yield, 1937-41	Relative yield com- pared with stand- ard
		1937		1938		1939		1940		1941			
		Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Bu.	Per- cent
State College:													
Texas Winter ¹	6498	6	43.8	6	44.2	6	33.8	6	26.0			100.0	
Tennessee Winter 52	3543	6	49.5	6	50.0	6	27.0	6	19.9			99.1	
Wintex	6127							6	32.3	6	26.8		98.8
Missouri Early Beard- less	6051							6	26.4	6	18.0		74.2
Stoneville:													
Texas Winter ¹	554	4	46.7	4	40.1	4	42.2	6	51.6	6	48.5	45.8	100.0
Texan	6499							4	44.7	6	57.3	60.9	114.6
Wintex	6127							4	48.8	6	58.1	54.9	113.7
Missouri Early Beard- less	6051							4	23.4	6	47.5	33.9	73.6
Finley	5901							6	51.9	6	51.8	97.3	
Reno	6561							6	55.9	6	50.3	106.1	
Hooded 16	6574							6	51.4	6	43.5	89.7	
Tennessee Winter 52	3543							6	32.5	4	34.2	99.6	
Tennessee Winter 61	3545											81.0	

¹ Standard with which other varieties are compared for comparable years.

MISSOURI

Missouri Agricultural Experiment Station, Columbia..... J. M. Pochlman,

TABLE 18.—Acre yields of varieties of barley grown at the Missouri Agricultural Experiment Station, Columbia, in 1 or more of the years 1937-41

(Data obtained through the courtesy of the Missouri Agricultural Experiment Station)

Variety	C. I. No.	Station No.	Number of plots and acre yield										Average yield, 1937-41	Relative yield com- pared with stand- ard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Bu.	Per- cent
Fall-town nursery plot ¹														
Michigan Winter ¹	2036	B 270	10	46.4	10	39.3	10	34.6	10	52.7	10	0	34.6	100.0
Kentucky 1.....	6050	B 216	10	49.1	10	40.2	10	33.4	10	60.8	10	0	36.7	106.1
Kentucky 2.....	6148	B 285	10	50.5	10	39.8	10	34.8	10	57.7	10	0	36.6	105.7
Kentucky 4.....	2017	B 217	10	33.3	10	39.6	10	33.6	10	53.6	10	0	32.0	92.5
Kentucky 5.....	2018	B 269	10	59.1	10	38.0	10	37.5	10	52.7	10	0	37.5	108.3
Wisconsin Winter.....	2159	B 256	10	46.4	10	29.6	10	32.1	10	65.0	10	0	34.6	100.1
Alaska.....	4106	B 237	10	44.1	10	27.7	10	31.3	10	66.3	10	0	33.9	97.9
Do.....	534	B 247	10	45.7	10	41.4	10	34.8	10	59.8	10	0	35.9	103.9
Ham River.....	2163	B 238	10	47.8	10	23.9	10	30.2	10	68.2	10	0	34.0	98.3
Cisado.....	895	B 252	10	40.3	10	32.9	10	30.5	10	43.4	10	0	29.8	86.2
Arabel.....	896	B 253	10	50.3	10	27.7	10	32.0	10	53.8	10	0	33.2	95.8
Pidor.....	901	B 254	10	47.2	10	29.6	10	36.4	10	76.9	10	0	38.0	109.9
Missouri Early Beardless.....	6051	B 288	10	33.1	10	39.0	10	32.9	10	47.4	10	0	30.5	88.1
Admire.....	6377	B 387	10	46.4	10	37.4	10	48.6	10	0	0	0	104.6	
Poland.....	6280	B 388	10	31.0	10	32.5	10	53.9	10	0	0	0	92.7	
Ward.....	6007	B 392	10	43.3	10	41.8	10	53.4	10	0	0	0	109.4	
Randolph.....	6372	B 417	10	47.2	10	42.2	10	60.0	10	0	0	0	117.1	
Reno.....	6561	B 420	10	47.2	10	36.4	10	48.4	10	0	0	0	91.8	
Manchuria.....	245	B 418	10	47.2	10	36.4	10	56.2	10	0	0	0	106.6	

See footnotes at end of table.

TABLE 18.—*Acre yields of varieties of barley grown at the Missouri Agricultural Experiment Station, Columbia, in 1 or more of the years 1937–41—Continued*

Variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield com- pared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
<i>Fall-sown nursery plots—Continued.</i>				Bu.		Bu.		Bu.		Bu.		Bu.	Per- cent	
Tenkow	646	B 419	10	42.1	10	33.7	10	52.6	10	0			99.8	
Purdue 21	4581	B 393	10	26.5									102.6	
Tennessee Beardless	3384	B 219	10	24.3									57.1	
Tennessee Beardless	2746	B 287	10	31.5									52.4	
Hansee Hull-less	703	B 265	10	26.7									67.9	
Clancy	1002	B 268	10	26.7									57.5	
<i>Fall-sown field plots</i>														
Michigan Winter 2	2836	B 270							4	36.5	4	42.7	100.0	
<i>Missouri Early</i>														
Beardless	6051	B 288							4	34.7	4	41.9	68.4	
Reno	6561	B 420							4	38.5	4	49.8	111.5	
Manchuria	245	B 418							4	44.0	4	40	55.6	
Tenkow	646	B 419							4	41.3	4	70	52.1	
Admire	6377	B 387							4	36.5			100.0	

1 All varieties grown in nursery plots winter-killed at Columbia in 1941.

2 Standard with which other varieties are compared for comparable years.

3 Winter survival 60 percent.

4 Winter survival 38 percent.

5 Winter survival 65 percent.

6 No winter survival.

7 Winter survival 2 percent.

MONTANA

Montana Agricultural Experiment Station, Bozeman, S. C. Litzenberger,
Judith Basin Branch Station, Moccasin

In care of S. C. Litzenberger and R. H. Bamberg, Bozeman.

North Montana Branch Station, Havre, J. J. Sturm.

Huntley Field Station, Huntley, A. E. Seamans.

TABLE 19.—*Acre yields of varieties of barley grown at agricultural experiment stations in Montana in 1 or more of the years 1937–41*

[Data for Bozeman obtained through the courtesy of the Montana Agricultural Experiment Station; for Moccasin, in cooperation with the station; for Havre, through the courtesy of the Division of Dry Land Agriculture, cooperating with the Montana Agricultural Experiment Station; and for Huntley, through the courtesy of the Division of Dry Land Agriculture]

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield com- pared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Bozeman:														
Tribi ¹	936	1500	3	91.4	3	100.8	3	102.4	3	80.5	3	95.7	94.2	
Manchuria	2947	1617	3	69.6	3	66.1	3	60.2	3	71.9	3	77.0	69.0	
Wisconsin Beardless	5105	1614	3	70.4	3	70.0	3	90.6	3	87.9	3	84.0	80.6	
Smooth Awn X														
Manchuria	5998	1618	3	87.9	3	87.5	3	79.7	3	99.9	3	98.8	90.8	
Aulas X Vaughn	6973	Moscow 13	3	107.0	3	107.3	3	93.3	3	108.2	3	109.6		
Velveta	6109	1623	3	96.5	3	96.7	3	104.2	3	102.3	3	103.4		
Composite Gross selection	5436	1625					3	91.8	3	92.2	3	100.7	102.2	
Compania	5438	1626					3	86.1	3	96.4	3	100.7	101.7	
Glacier	6976	Moscow 33					3	86.1	3	116.7			121.9	
Horn	926	1559	3	83.6	3	99.6	3	73.7	3	99.6			95.0	
Velvet	4252	1580	3	76.2	3	73.2	3	68.8					74.1	
Hannchen I	5462	1615	3	81.0	3	89.1	3	77.6					85.1	
Oderbrucker	1272	1620	3	155.6	3	58.8	3	61.0					59.5	
Rhodesia	13339	1622	3	89.1	3	108.9	3	99.8					101.1	

See footnote at end of table.

TABLE 19.—*Acre yields of varieties of barley grown at agricultural experiment stations in Montana in 1 or more of the years 1937-41—Continued*

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield compared with standard, 1937-41	
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Bozeman—Con.														
Atlas	4118	1585	3	82.9	3	68.1							78.6	
Trebi X Velvet 4	6153	1621	3	72.0	3	58.4							67.8	
Spartan	5027	1581	3	75.1									82.2	
Cebeda 97A	6352	1601	3	91.8									100.4	
Moccasin:														
Trebi 1	936	1500	2	47.2	4	54.8	4	27.8	4	16.2	4	34.5	27.6	
Horn	926	1559	2	2.3	4	42.3	4	40.0	4	7.2	4	24.1	23.3	
Compana	5438	1626	2	7.7	4	55.0	4	35.8	4	20.4	4	39.3	31.6	
Atlas X Vaughn	6973	Moscow 13											114.6	
Composite Cross selection	5297												126.6	
Do	5436	1625											133.7	
Glacier	6976	Moscow 33											109.9	
Velvet	6109	1623											129.9	
Atlas	4118	1585	2	51.3	4	49.4	4	29.0					129.9	
Composite Cross selection	5414		2	5.7	4	51.3	4	35.5					96.9	
Do	5429		2	5.3	4	53.4	4	35.3					106.0	
Coast	690		2	5.1	4	45.7							107.7	
Unnamed	4197		2	4.1	4	46.4							85.4	
													84.9	
Composite Cross selection	5431		2	6.5	4	47.6							90.9	
Mechanical Altitude	4118		2	5.4									114.9	
Composite Cross	4116		2	5.3									112.8	
Do	5461		2	5.3									112.8	
Havre:														
Trebi 1	936		3	7.6	3	41.7	3	30.2	3	15.8	3	32.3	25.5	
Exond	5064		3	9.4	3	44.8	3	38.9	3	16.3	3	32.3	28.3	
Horn	926		3	7.8	3	36.0	3	27.3	3	9.7	3	21.5	20.6	
Velvet 4	7020							3	20.5	3	13.2	3	13.9	
Composite Cross selection	5407							3	27.8	3	21.9	3	27.8	
Regal	5010							3	13.9	3	10.8	3	25.0	
Morsett	4880							3	22.6	3	7.6	3	21.9	
Composite Cross selection	5436							3	31.2	3	17.7	3	41.3	
Wisconsin Barbless	4105							3	11.5	3	11.5	3	22.6	
Compana	5438							3	18.8	3	18.8	3	37.5	
Atlas X Vaughn	6973	Moscow 13											117.0	
Composite Cross selection	5297												138.7	
Glacier	6976	Moscow 33											107.4	
Velvet	6109												153.9	
Flynn	1311		3	11.5	3	37.5	3	29.9	3	8.3			110.8	
Meloy	1176		3	11.8	3	31.7	3	31.9	3	4.2			91.5	
Spartan	5027		3	10.1	3	38.2	3	26.4	3	17.4			85.6	
White Smyrna	195		3	8.3	3	42.7	3	33.3	3	17.4			96.6	
Faust	4579		3	6.9	3	26.7	3	22.3	3	5.2			106.7	
Hannchen	1531		3	4.5	3	27.6	3	10.1					64.0	
Newal	6088		3	4.2	3	40.6	3	18.7					53.1	
Oderbrucker	4466		3	2.1	3	21.5	3	6.2					79.9	
Beldi Giant	32777		3	9.0	3	45.8							37.5	
Nepal	595		3	7.6	3	26.4							111.2	
Velvet	4252		3	6.6	3	29.5							69.0	
Composite Cross selection	5429							3	19.8				73.2	
Huntley:														
Horn 1	926							2	49.1	2	39.6	2	37.2	
Compana	5438							2	71.1	2	49.0	2	43.4	
Composite Cross selection	5436												119.1	
Atlas X Vaughn	6973	Moscow 13											133.3	
Composite Cross selection	5414							2	57.3				116.7	
Do	5429							2	61.6				125.5	

² Standard with which other varieties are compared for comparable years.

NEBRASKA

Nebraska Agricultural Experiment Station, Lincoln

K. S. Quisenberry and W. E. Lyness.

North Platte Substation, North Platte. O. J. Webster and K. S. Quisenberry.

Box Butte Experiment Farm, Alliance. R. E. Pahl and K. S. Quisenberry.

Valentine Substation, Valentine. E. M. Brouse and K. S. Quisenberry.

TABLE 20.—*Acre yields of varieties of barley grown at agricultural experiment stations in Nebraska in 1 or more of the years 1937-41*

[Data obtained in cooperation with the Nebraska Agricultural Experiment Station]

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield compared with standard	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Lincoln:														
Trebi ¹	936	105	5	23.2	5	41.6	5	8.9	4	18.9	4	20.5	22.6	
Flynn ¹	5911	107	5	19.8	5	55.7	5	14.2	4	23.4	4	21.4	26.9	
Spartan	5027	111	5	42.9	5	42.9	5	19.5	4	20.7	4	24.4	118.9	
North Platte ¹	5266	116	5	20.3	5	50.0	5	10.9	4	22.8	4	22.2	108.8	
Manchuria	2330	102	5	14.1	5	33.7	5	5.5	4	12.2	4	12.5	69.0	
Ezond ¹	6265	115	5	22.8	5	44.6	5	12.4	4	17.6	4	29.2	25.3	
Short Comfort	5907	104	5	24.1	5	44.3	5	10.0	4	19.1	4	23.3	24.6	
Wisconsin Barbless	5105	119	5	23.1	5	78.8	5	8.4	4	11.9	4	16.9	19.8	
Club Mariout ¹	261	121	5	20.3	5	48.7	5	13.9	4	23.3	4	22.9	25.8	
Manchurian	2947	123	5	15.2	5	31.0	5	3.7	4	11.3	4	14.4	13.3	
Trebi X Velvet ¹	6333	125	5	—	5	41.8	5	12.4	4	15.5	4	23.2	103.6	
Velvon	6109	127	5	—	5	43.7	5	1.4	4	21.2	4	24.6	113.6	
Lico	6279	129	5	—	5	—	5	16.2	4	20.6	4	24.1	126.1	
Atlas X Vaughn	6970	Moscow ¹	5	—	5	—	5	9.2	4	23.5	4	15.4	99.6	
Beecher	6566	130	5	—	5	—	5	12.4	4	22.9	4	26.8	107.9	
Velvet ¹	4252	120	5	17.7	5	24.8	5	6.2	4	9.7	—	—	63.1	
Comfort ¹	4578	108	5	18.0	5	31.7	5	7.6	4	10.4	—	—	73.1	
Oderbrucker X Lion	5028	109	5	26.7	5	39.8	5	8.8	4	13.3	—	—	95.7	
Glabron ¹	4577	122	5	15.2	5	21.6	5	8.7	—	—	—	—	65.8	
Oderbrucker	4666	122	5	10.3	5	21.5	5	—	—	—	—	—	48.8	
Ioglo ¹	6239	124	5	18.2	5	28.7	5	6.9	—	—	—	—	73.0	
Odessa ¹	182	103	5	18.9	5	42.0	—	—	—	—	—	—	94.0	
Colesas ¹	2792	110	5	19.0	5	40.9	—	—	—	—	—	—	92.4	
Peatland ¹	5267	—	5	8.9	—	—	—	—	—	—	—	—	38.4	
Smooth Awn X Manchuria	3998	126	5	—	5	30.7	5	6.2	4	13.3	—	—	72.3	
Composite Cross ¹	111	—	—	—	1	42.6	1	5.6	1	11.5	—	—	86.0	
North Platte ² :														
Trebi ¹	936	—	4	9.4	4	33.3	4	20.7	4	0	4	55.3	23.7	
North Platte ¹	5266	—	4	11.0	4	31.3	4	22.8	4	0	4	56.9	24.4	
Sandiel	937	—	4	11.1	4	31.5	4	21.3	4	0	4	56.8	24.1	
Common Six-Row	4640	—	4	9.7	4	26.3	4	20.0	4	0	4	57.4	22.7	
McClymont	2126	—	4	8.5	4	25.0	4	18.4	4	0	4	54.0	21.2	
Club Mariout ¹	261	—	4	7.9	4	27.9	4	23.3	4	0	4	53.5	22.5	
Spartan	5027	—	4	7.6	4	34.7	4	22.6	4	0	4	53.0	23.6	
Short Comfort ¹	5907	—	4	9.2	4	31.7	4	19.6	4	0	4	51.1	22.5	
Comfort ¹	4578	—	4	8.8	4	28.6	4	14.5	4	0	4	38.5	18.1	
Blackhull ¹	6009	—	—	—	4	33.3	4	24.7	4	0	4	61.7	—	
Velvon	6109	—	—	—	4	37.9	4	21.8	4	0	4	60.9	—	
Ezond ¹	6265	—	—	—	4	37.5	4	19.5	4	0	4	59.2	—	
Atlas	4118	—	—	—	4	31.3	4	23.5	4	0	4	38.5	—	
Lico	6279	—	—	—	4	34.9	4	24.0	4	0	4	56.9	—	
Flynn ¹	5911	—	—	—	4	32.4	4	23.0	4	0	4	53.4	—	
Beecher	6566	—	—	—	4	26.1	4	0	—	—	4	53.4	—	
North Platte ⁴	5488	—	4	11.3	4	25.7	4	20.4	—	—	—	—	90.5	
Ezond ¹	5064	—	4	10.2	4	37.5	4	20.5	—	—	—	—	107.6	
Coast	6390	—	4	9.1	4	30.0	4	19.6	—	—	—	—	92.6	
Glabron ¹	4577	—	4	8.6	4	27.5	4	14.4	—	—	—	—	79.7	
Vaughn	1367	—	4	8.6	—	—	—	—	—	—	—	—	91.5	
Alliance:														
Trebi ¹	936	105	3	2.5	3	45.6	3	18.3	3	4.0	3	50.3	24.1	
Spartan	5027	111	3	4.9	3	37.3	3	20.4	3	11.5	3	35.9	22.0	
Flynn ¹	5911	107	3	8.1	3	38.3	3	18.8	3	12.7	3	40.6	23.7	
Ezond ¹	6265	115	3	4.5	3	41.3	3	23.8	3	5.0	3	53.9	25.7	

See footnotes at end of table.

YIELDS OF BARLEY, 1937-41

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TABLE 20.—Acre yields of varieties of barley grown at agricultural experiment stations in Nebraska in 1 or more of the years 1937-41—Continued

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield compared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
			Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Percent	
Alliance—Continued:														
North Platte 1.....	5266	116	3	2.8	3	35.1	3	22.3	3	5.0	3	45.8	22.2	
Club Mariani.....	261	121	3	4.1	3	39.1	3	19.2	3	7.3	3	36.9	21.3	
Velvon.....	6109	127	—	—	3	37.5	3	20.1	3	5.9	3	45.4	—	
Oderbrucker X Lion 5028	Wis. Ped. 37	—	—	—	3	28.3	3	15.5	3	3.2	3	47.8	—	
Lico.....	6279	128	—	—	—	—	—	—	3	2.6	3	39.2	80.2	
Beecher.....	6566	130	—	—	—	—	—	—	3	7.4	3	23.6	82.5	
Atlas X Vaughn.....	6970	Moscow 1	—	—	—	—	—	—	3	—	3	29.1	57.1	
Gibron.....	4577	109	3	.9	3	22.2	3	13.2	—	—	—	—	54.7	
Wisconsin Barless 5105	—	119	3	4.6	3	56.1	—	—	—	—	—	—	84.6	
Comfort.....	4578	108	3	3.3	—	—	—	—	—	—	—	—	132.0	
Vaughn.....	1367	114	3	7.8	—	—	—	—	—	—	—	—	312.0	
Short Comfort.....	5907	104	—	—	3	32.4	3	17.4	3	5.3	—	—	81.1	
Manchuria.....	2330	102	—	—	3	31.6	—	—	—	—	—	—	69.3	
Colsess.....	2292	110	—	—	3	33.1	—	—	—	—	—	—	72.6	
Valentine:														
Spartan 1.....	5027	111	—	—	2	15.7	2	12.5	—	—	—	—	100.0	
Short Comfort.....	5907	104	—	—	2	17.5	2	13.1	—	—	—	—	108.5	
Gibron.....	4577	109	—	—	2	7.5	2	15.0	—	—	—	—	72.7	
Flynn 1.....	5911	107	—	—	2	14.2	2	9.7	—	—	—	—	84.8	
Club Mariani.....	261	121	—	—	2	12.2	2	6.6	—	—	—	—	66.7	
North Platte 1.....	5266	116	—	—	2	10.7	2	5.4	—	—	—	—	57.1	
Colsess.....	2792	110	—	—	2	9.0	2	5.0	—	—	—	—	49.6	
Trebi.....	936	105	—	—	—	—	2	14.3	—	—	—	—	114.4	
Ezond.....	6265	115	—	—	—	—	2	2.8	—	—	—	—	78.4	

¹ Standard with which other varieties are compared for comparable years.

² Crop destroyed by hail in 1940.

NEW JERSEY

New Jersey Agricultural Experiment Station, New Brunswick—G. H. Ahlgren.

TABLE 21.—Acre yields of varieties of barley grown at the New Jersey Agricultural Experiment Station, New Brunswick, in 1 or more of the years 1937-41

[Data obtained through the courtesy of the New Jersey Agricultural Experiment Station]

Variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield compared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
			Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Percent	
Spring-sown														
Wisconsin Barless 5105	—	10	41.0	9	35.7	10	15.9	10	26.1	9	32.4	30.2	100.0	
Velvon.....	6109	10	39.3	10	35.0	10	19.8	10	35.2	10	43.7	34.6	114.5	
Spartan.....	5027	10	32.7	9	32.5	10	17.1	10	32.5	10	32.3	29.4	97.4	
Alpha.....	1959	10	41.3	10	41.5	10	18.8	10	39.8	10	41.4	36.6	121.0	
Velvet.....	4252	9	39.1	10	29.4	10	12.7	10	35.2	10	35.2	28.2	95.5	
Trebi.....	1956	10	44.2	10	36.7	10	19.1	10	37.2	10	46.1	36.7	121.3	
Tall Comfort.....	5903	10	44.2	9	34.4	10	14.4	10	29.9	10	28.3	30.2	100.1	
Flynn 1.....	5911	—	—	—	10	21.9	10	31.7	10	26.3	—	—	107.4	
Queens.....	7021	R-1112	—	—	—	—	—	—	9	45.6	—	—	140.7	
Comfort.....	4578	10	43.2	9	33.6	10	15.6	10	34.8	—	—	—	107.2	
Juglos.....	6239	—	—	—	10	28.7	—	—	—	—	—	—	80.4	
Bonami.....	4661	8	28.4	—	—	—	—	—	—	—	—	—	69.3	

See footnote at end of table.

TABLE 21.—*Acre yields of varieties of barley grown at the New Jersey Agricultural Experiment Station, New Brunswick, in 1 or more of the years 1937-41—Continued*

Variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield com- pared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
<i>Fall-sown (variety plot)</i>				Bu.		Bu.		Bu.		Bu.		Bu.	Percent	
Marnobarb 1	6120		10	45.2	9	32.2	7	53.4	10	29.0	10	33.5	38.7	
Missouri Early Beardless	6051		8	33.9	9	33.8	10	42.6	10	29.0	10	26.9	33.2	
Tennessee Winter	52343		9	41.6	9	40.2	10	40.7	10	30.4	10	30.8	36.7	
Michigan Winter	2036		10	45.4	10	40.3	10	48.4	10	32.7	10	36.0	40.6	
Wisconsin Winter	2159		10	42.0	10	38.8	10	50.5	10	34.8	10	36.3	40.5	
Kentucky 1	6050		10	42.7	9	44.7	10	39.9	10	38.8	10	40.5	41.3	
Woods Hooded	6235		7	38.8	9	33.3	10	47.4	10	32.1	10	33.8	37.5	
Hartungs	7023				10	38.7	10	30.0	10	35.1	10	35.8	37.8	
Tennessee Winter	237				10	42.3	9	44.2	10	30.3	10	38.3	30.7	
Poland	6280				10	31.4	10	34.7	10	42.8	10	42.8	104.7	
Nassau	7022	WB6-68											111.2	
Burlington			9	47.5	10	32.0	10	49.8	10	33.9			102.1	
Woods Bearded	7024		10	47.5	9	33.4	10	44.7	10	31.3			98.2	
Tennessee Beardless	53384		7	34.9	10	29.5							83.2	
<i>Fall-sown (breeding plot)</i>														
Marnobarb 1	6120		3	61.7	6	37.0	6	30.2	9	31.0			100.0	
Kentucky 1	6050		3	64.8	3	34.8	3	29.0	3	24.9			96.0	
Randolph	6772		3	59.7	3	41.2	3	32.6	3	17.4			94.4	
Hooded selection	7026	N. C. 1-26	3	47.0	3	32.0	3	26.6					81.9	

¹ Standard with which other varieties are compared for comparable years.

NEW MEXICO

New Mexico Agricultural Experiment Station, State College—J. C. Overpeck.
Conservancy District Substation, Albuquerque

In care of J. C. Overpeck, State College.
Capulin Field, Capulin

In care of J. C. Overpeck, State College.

TABLE 22.—*Acre yields of varieties of barley grown at agricultural experiment stations in New Mexico in 1 or more of the years 1937-41*

[Data obtained through the courtesy of the New Mexico Agricultural Experiment Station]

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield com- pared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
<i>State College:</i>														
<i>Fall-sown (irrigated) 1</i>														
Trebi 2	936		7	96.5			6	35.1	12	46.4	8	42.0	100.0	
New Mexico Winter 1	7065		7	92.1			6	43.7	12	67.9	8	48.7	105.2	
New Mexico Winter 2	7066		7	98.5			6	46.1	12	62.2	8	48.7	106.5	
Tennessee Winter	257		7	84.0			6	42.9	12	65.6	8	34.9	94.8	
O. A. C. 6	3954		7	99.9			6	43.3	12	58.6	8	47.7	104.0	
Finley	3901						6	48.7	12	52.5	8	50.6	105.8	

See footnotes at end of table.

YIELDS OF BARLEY, 1937-41

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TABLE 22.—*Acre yields of varieties of barley grown at agricultural experiment stations in New Mexico in 1 or more of the years 1937-41—Continued*

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield com- pared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
State College—Con.														
<i>Fall-sown</i> (<i>irrigated</i>)														
—Continued														
Texas Winter	6498													
Tenkow	646													
Kentucky 1	6050		7	69.7										
Kentucky 2	6148		7	76.0										
Club Mariout	261		7	83.7										
Missouri Early														
Beardless	6051		7	30									0	
<i>Spring-sown</i> (<i>irrigated</i>) ⁴														
Trebi ²	936		7	70.4										
Club Mariout	261		7	65.8										
Vaughn	1367		7	53.3										
Conway	6095		7	77.0										
Atlas	4118													
Atlas X Vaughn	7064	Moscow 6												
Flynn	1311													
Lico	6279													
Velvyn	6109													
Wisconsin Barless	5105		7	62.9										
Union Beardless	5976		7	68.2										
Hannchen	531													
Oderbrucker	4666		7	46.0										
Albuquerque:														
<i>Spring-sown</i> (<i>irrigated</i>)														
Trebi ²	936		12	37.0	6	27.6	5	58.3	6	53.5				
Club Mariout	261		12	38.3	6	23.9	5	59.5	6	51.8				
Conway	6093		12	37.3	6	25.0	5	57.1	6	58.0				
Atlas X Vaughn	7064	Moscow 6	12	34.4	6	24.6	5	68.4	6	60.5				
Vaughn	1367		12	32.8	6	25.8	5	69.0	6	55.3				
Atlas	4118		12	36.0	6	26.1	5	65.1	6	57.0				
Flynn	1311		12	33.1	6	27.2	5	71.0	6	67.1				
Velvyn	6109													
Union Beardless	5976		12	33.6	6	22.7	5	46.2						
Hannchen	531		12	36.2	6	24.7								
Colsess	2792		12	26.8	6	20.5								
Wisconsin Barless	5105		12	30.2	6	29.6								
Oderbrucker	4666				6	23.3								
Capulin:	5													
<i>Spring-sown</i> (<i>dry-farmed</i>)														
White Smyrna ²	195		3	3.9	2	10.9	2	0			3	19.4		
Stavropol	5913		3	3.4	2	12.8	2	0			3	21.6		
Odessa	182		3	3.8	2	17.2	2	0			3	32.5		
Club Mariout	261		3	3.3	2	10.1	2	0			3	20.2		
Colsess	2792		3	2.6	2	11.2	2	0			3	27.4		
Wisconsin Barless	5105		3	3.8	2	10.5	2	0			3	30.4		
Conway	6093		3	4.6	2	13.4	2	0			3	22.9		

¹ No yield data in 1938, due to poor uneven stands.² Standard with which other varieties are compared for comparable years.³ No yield, on account of frost at heading time.⁴ No tests conducted in 1938.⁵ Crop failure in 1939 due to drought; no tests conducted in 1940.

NEW YORK

New York Agricultural Experiment Station, Cornell University, Ithaca
H. H. Love.

TABLE 23.—*Acre yields of varieties of barley grown at the New York Agricultural Experiment Station at Cornell University, Ithaca, in 1 or more of the years 1937–41*

[Data obtained in cooperation with the New York Agricultural Experiment Station]

Variety	C. I. No.	Station No.	Number of plots and acre yield										Average yield, 1937–41	Relative yield com- pared with stand- ard		
			1937		1938		1939		1940		1941					
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.				
Alpha ¹	959		10	19.7	10	25.4	8	26.8	8	47.7	8	29.3	29.8	100.0		
Swiss Spring	877825		10	29.7	10	36.4	8	30.7	8	47.0	8	31.7	35.5	119.1		
Wisconsin																
Barbless	5105		10	17.6	10	23.4	8	30.3	8	41.5	8	22.2	27.0	90.7		
Ohio	5910		10	16.8	10	21.5	8	35.8	8	41.3	8	39.1	28.9	97.0		
(Manchuria X Leiorrhyn- chum) X Al- pha		220a1-29-50	10	21.4	10	35.0	8	34.8	8	43.3	8	26.2	32.1	107.9		
Do.		220a1-31-358	10	26.5	10	34.6	8	30.4	8	42.4	8	24.0	31.6	106.0		
(Manchuria X Leiorrhyn- chum) X Rus- sian 02		222a1-29-302	10	17.4	10	30.8	8	29.8	8	43.2	8	18.8	28.0	94.0		
Do.		225a1-29-410	10	22.8	10	34.1	8	33.5	8	47.6	8	23.2	32.6	109.6		
Nanking 150 X Comfort		505a1-15-4	5	17.5	8	41.5	8	31.5	8	44.1	8	24.8	31.9	107.1		
Do.		505a1-17-6	5	19.1	8	40.5	8	29.1	8	49.4	8	25.1	32.7	109.7		
Do.		505a1-51-1	5	20.3	8	39.4	8	26.6	8	50.9	8	26.7	32.7	109.7		
Do.		505a1-51-3	5	21.5	8	38.8	8	27.5	8	51.5	8	28.5	33.6	112.7		
Do.		505a1-58-2	5	20.1	8	38.3	8	29.8	8	51.5	8	24.7	32.9	110.4		
Do.		505a1-58-6	5	19.0	8	41.3	8	27.7	8	48.2	8	25.4	32.3	108.5		
Goldfoil	928		10	18.5	10	26.7	8	30.0	8	42.9	8	25.3	38.7	96.3		
(Manchuria X Leiorrhyn- chum) X Al- pha		204a1-27-243	10	24.5	10	29.5	8	29.6	8	42.6	8	27.9	30.8	103.5		
Do.		228a1-29-176	10	22.8	10	26.7	8	23.5	8	37.9	8	25.0	27.6	92.6		
Do.		220a1-29-187	10	25.7	10	25.1	8	27.8	8	40.2	8	28.5	29.5	98.9		
Do.		220a1-29-184	10	23.8	10	24.7	8	29.4	8	39.4	8	27.8	29.0	97.4		
Do.		220a1-30-161	10	21.1	10	27.7	8	20.5	8	40.2	8	26.9	29.1	97.6		
(Manchuria X Leiorrhyn- chum) X (Arl- ington Awn- less X Wild)		211a1-31-837	10	22.8	10	27.7	8	28.4	8	38.6	8	27.8	29.1	97.6		
Alpha X Gold- foil		504a1-7-5-2	5	22.5	8	35.0	8	25.2	8	44.4	8	24.4	30.3	101.7		
Do.		504a1-11-3-1	5	25.2	8	35.2	8	25.5	8	45.4	8	27.0	31.7	106.5		
Do.		504a1-11-3-2	5	22.7	8	40.8	8	32.6	8	46.3	8	28.5	34.1	114.6		
Do.		504a1-11-3-3	5	28.6	8	35.4	8	29.3	8	42.8	8	28.3	32.9	110.4		
Do.		504a11-3-4-10	10	27.2	10	16.0	8	39.1	8	46.6	8	26.9	33.2	111.3		
Do.		504a11-3-7-5	26.9	8	37.8	8	29.4	8	42.6	8	23.3	32.8	107.5			
Do.		504a11-5-1-1	5	27.1	8	39.5	8	29.2	8	43.6	8	22.2	32.8	110.3		
Do.		504a11-5-12-10	28.1	10	31.2	8	26.2	8	45.0	8	29.3	32.0	107.3			
Do.		504a11-20-18-1	5	24.4	8	38.5	8	28.7	8	38.8	8	23.5	31.2	104.7		
Do.		504a11-20-18-3	5	24.1	8	38.3	8	29.2	8	43.1	8	25.2	32.6	109.5		
Do.		504a11-20-18-5	24.5	8	43.3	8	28.6	8	39.6	8	21.3	31.5	105.6			
Do.		504a12-19-18-5	23.1	8	37.4	8	26.1	8	45.0	8	26.7	32.1	107.7			
Do.		504a12-19-18-7	23.1	8	37.4	8	26.1	8	45.0	8	26.7	32.1	107.7			
Do.		504a12-19-18-9	26.6	8	34.0	8	25.8	8	43.3	8	25.9	31.0	104.8			
Do.		504a12-19-18-11	20.3	8	34.8	8	26.4	8	46.1	8	25.3	30.6	102.7			
Do.		504a12-19-18-13	23.4	8	36.0	8	27.3	8	42.2	8	28.3	31.4	105.6			
Do.		504a12-19-18-14	25.1	8	36.8	8	30.7	8	42.0	8	28.4	32.7	109.7			
Do.		504a12-19-18-15	21.1	8	39.7	8	29.8	8	43.9	8	28.3	32.6	109.3			
Do.		504a12-19-18-16	22.2	8	41.9	8	31.2	8	39.8	8	25.1	32.0	107.6			
Do.		504a12-19-18-17	28.2	8	38.1	8	34.8	8	46.1	8	27.3	32.2	110.5			
Do.		504a12-19-18-18	23.9	8	35.6	8	30.9	8	47.3	8	26.5	33.2	111.6			
Do.		504a12-19-18-19	24.8	8	38.0	8	27.1	8	43.2	8	26.0	31.8	106.9			
Do.		504a12-19-18-20	27.8	8	41.7	8	25.2	8	43.9	8	28.7	33.5	112.4			

¹ Standard with which other varieties are compared for comparable years.

YIELDS OF BARLEY, 1937-41

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NORTH CAROLINA

Piedmont Branch Station, Statesville, G. J. Middleton and R. W. McMillen.

TABLE 24.—*Acre yields of varieties of barley grown at the Piedmont Branch Station, Statesville, N. C., in 1 or more of the years 1937-41*

[Data obtained through the courtesy of the North Carolina Agricultural Experiment Station]

Variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield compared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Tennessee Beard														
less 6	2746		20	26.7	36	21.4	51	60.2	41	33.2	5	39.8	36.7	100.0
Iredell	6571	1-23	10	23.1	5	48.5	5	53.8	5	38.1	5	57.8	44.3	120.7
Hooded selection	7026	1-26	10	20.9	5	37.4	5	55.4	5	44.9	5	50.3	41.8	114.0
Tennessee Winter	257		10	20.7	5	41.0	5	53.5	5	39.7	5	48.1	40.6	110.7
Randolph	6572	1-68	10	24.5	5	44.9	5	57.7	5	43.6	5	56.1	45.4	123.7
Composite Cross se- lection	7027	11-3	5	30.0	5	44.4	5	62.0	5	30.8	5	58.6	49.2	134.1
Do	6564	11-11	10	21.6	5	51.3	5	54.8	5	46.6	5	54.9	45.8	125.0
Davidson	6373	11-15	10	22.3	5	52.8	5	55.7	5	47.5	5	59.8	47.6	129.9
Hooded 16	6574				5	36.3	5	55.5	5	36.3	5	42.9		111.1
Nakano Wase 33	6269				5	49.5	5	63.9	5	53.9	5	61.7		148.8
Sunrise	6272				5	43.1	5	58.8	5	51.3	5	68.5		157.5
Smooth Awn 203	6267				5	40.5	5	55.1	5	43.3	5	45.1		117.5
Smooth Awn 88	7028				5	44.0	5	54.3	5	48.2	5	62.6		134.0
Smooth Awn 90	7029				5	38.7	5	58.8	5	39.4	5	47.7		117.9
Wisconsin Winter	2159				5	41.7	5	51.6	5	42.5	5	46.4		116.5
Tennessee Winter	6034				5	40.1	5	57.5	5	44.1	5	51.6		123.4
Orel	351				5	43.6	5	50.9	5	39.7	5	46.4		115.3
Unnamed	3836		5	22.7	5	46.4	5	50.4	5	44.8				114.5
Do	4298		5	22.8	5	42.8	5	53.6	5	38.7				110.0
Hooded 11	6575				5	36.3	5	53.9	5	41.3				112.6
Hooded 21					5	56.6	5	59.4	5	50.9				108.6
Nakano Wase 31	7057				5	38.8	5	74.3	5	48.4				138.3
Nakano Wase 45					5	41.7	5	66.6	5	48.3				134.1
Nakano Wase 59	6567				5	41.2	5	58.9	5	53.4				131.4
Smooth Awn 86	6268				5	34.5	5	50.1	5	40.1				106.8
Smooth Awn 55					5	37.8	5	54.2	5	42.7				115.3
Smooth Awn selec- tion	6495	Md. 15-8			5	25.0	5	38.3	5	39.7				88.2
Composite Cross se- lection		11-52-1			5	39.3	5	38.2	5	33.5				94.9
Do	11-52-3				5	50.9	5	39.9	5	33.5				106.4
Do	11-52-4				5	41.2	5	36.1	5	34.4				96.5
Do	11-53-4				5	38.1	5	44.2	5	30.2				96.2
Do	11-53-7				5	39.8	5	40.9	5	28.3				93.5
Do	11-53-12				5	41.3	5	40.7	5	29.7				95.6
Bearded selection		1-70	5	21.9	5	40.2	5	45.6						97.6
Do	1-83	5	26.6	5	41.0	5	53.0							109.3
Composite Cross se- lection		11-8	5	29.5	5	49.0	5	63.0						128.6
Do	11-24	5	30.8	5	45.8	5	42.0							112.1
Do	11-30	5	32.4	5	37.2	5	52.0							119.3
Do	11-120				5	43.0	5	61.8						125.4
Do	11-127				5	30.4	5	55.1						126.2

¹ Standard with which other varieties are compared for comparable years.

NORTH DAKOTA

North Dakota Agricultural Experiment Station, Fargo T. E. Stoa.
 Dickinson Substation, Dickinson R. W. Smith.
 Northern Great Plains Field Station, Mandan J. C. Brinsmade, Jr.

TABLE 25.—*Acre yields of varieties of barley grown at agricultural experiment stations in North Dakota in 1 or more of the years 1937–41*

[Data for Fargo obtained through the courtesy of the North Dakota Agricultural Experiment Station; for Dickinson, in cooperation with the station; for Mandan, in cooperation with the Division of Dry Land Agriculture]

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield com- pared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
			Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.		
Fargo:														
Trebi ¹	936	30013	3	47.2	3	53.5	3	50.7	3	52.1	3	43.1	41.3	100.0
Spartan	5027	32005	3	49.3	3	44.0	3	46.0	3	16.2	3	39.8	39.2	94.8
Odessa	182	30014	3	45.8	3	51.1	3	45.2	3	14.2	3	45.3	40.3	97.6
Manchuria	2947	2121	3	34.9	3	46.4	3	40.9	3	9.5	3	31.5	32.6	79.0
Wisconsin Barless	5105	30019	3	48.3	3	46.5	3	48.2	3	14.8	3	35.4	38.6	93.4
Peatland	5267	30033	3	43.7	3	41.6	3	37.9	3	9.5	3	32.5	33.0	79.9
Tregal	6359	30036	2	49.1	3	60.9	3	51.2	3	18.1	3	39.7	43.8	106.0
Ezond	6265	30034	3	52.8	3	61.5	3	52.6	3	16.6	3	32.4	—	94.1
Lico	6279	30039	—	—	—	—	—	—	—	—	—	—	—	78.1
Beecher	6566	30040	—	—	—	—	—	—	—	—	—	—	—	97.9
Velvon	6109	30038	—	—	—	—	—	—	—	—	—	—	—	94.9
Regal X Trebi	7031	30042	—	—	—	—	—	—	—	—	—	—	—	47.0
Grandin	6968	30041	—	—	—	—	—	—	—	—	—	—	—	88.2
Olli	6251	30044	—	—	—	—	—	—	—	—	—	—	—	75.9
Plusch	6093	30043	—	—	—	—	—	—	—	—	—	—	—	82.8
Velvet	4252	30015	3	42.4	3	38.9	3	45.0	3	9.1	—	—	—	76.2
Steigum	907	32006	3	39.3	3	35.9	3	40.2	—	—	—	—	—	92.3
Joglos	6239	30037	3	42.5	3	48.7	3	48.4	—	—	—	—	—	58.2
Oderbrucker	1174	30021	3	28.3	3	30.5	—	—	—	—	—	—	—	88.4
Svansota	1907	32004	3	42.6	3	46.4	—	—	—	—	—	—	—	74.7
Hannchen	531	32003	3	37.6	3	37.6	—	—	—	—	—	—	—	108.8
Regal X Trebi	6338	30035	3	53.2	3	56.4	—	—	—	—	—	—	—	83.4
Mensury (Ott. 60)	4696	30045	—	—	—	—	—	—	—	—	—	—	—	53.0
Winter Club	592	—	1	55.0	—	—	—	—	—	—	—	—	—	—
Dickinson:	3													
Trebi ¹	936	—	4	4.7	4	15.1	4	48.2	4	18.3	4	4.2	18.1	100.0
Hannchen	531	—	4	5.0	4	2.9	4	41.6	4	18.4	4	4.6	14.5	80.1
Steigum	907	—	4	7.5	4	6.1	4	42.5	4	17.6	4	4.4	15.6	86.3
Horn	926	—	4	3.1	4	4.2	4	40.4	4	16.1	4	3.5	13.5	74.4
Manchuria	244	—	4	8.1	4	9.2	4	37.7	4	13.5	4	4.0	14.4	79.8
Odessa	182	—	4	3.8	4	6.8	4	38.6	4	11.5	3	2.3	13.0	71.8
Ezond	6265	—	4	6.6	4	20.6	4	40.6	4	17.8	4	5.0	18.0	99.2
Composite Cross	5461	—	2	42.3	2	40.0	2	32.6	2	7.9	2	4.2	11.4	63.0
Regal X Trebi	6338	—	—	—	—	11.6	4	46.4	4	21.5	4	3.5	—	96.7
Tregal	6359	—	—	—	—	10.4	4	47.4	4	14.3	4	3.7	—	88.3
Spartan	5027	—	—	—	—	—	4	43.6	4	18.6	4	3.7	—	93.2
Velvon	6109	—	—	—	—	—	—	—	—	15.2	4	5.9	—	96.9
Rex	6618	—	—	—	—	—	—	—	—	15.8	4	1.9	—	78.7
Lico	6279	—	—	—	—	—	—	—	—	5.8	3	13.8	—	76.9
Colseess	2792	—	2	22.7	4	14.6	1	137.9	2	511.2	—	—	—	38.7
Wisconsin Barless	5105	—	4	3.3	4	7.7	1	36.0	4	9.8	—	—	—	50.6
Velvet	4252	—	4	1.8	4	1.8	4	22.7	—	—	—	—	—	98.0
Glabron	4577	—	4	3.8	4	2.0	4	28.6	—	—	—	—	—	95.7
Lion	923	—	4	8.8	4	10.6	—	—	—	—	—	—	—	—
Svansota	1907	—	4	4.5	—	—	—	—	—	—	—	—	—	—
Mandan:	6													
Trebi ¹	936	—	3	14.3	3	10.1	3	23.3	3	15.0	—	—	—	100.0
Ezond	6265	—	3	19.8	3	10.1	3	25.6	3	15.0	—	—	—	112.1
Odessa	182	—	3	15.8	3	9.3	3	25.1	3	14.3	—	—	—	99.8
Steigum	907	—	3	13.6	3	7.7	3	22.7	3	18.4	—	—	—	99.2
Wisconsin Barless	5105	—	3	9.2	3	11.0	3	20.3	3	13.3	—	—	—	85.5
Horn	926	—	3	7.0	3	8.5	3	23.1	3	13.2	—	—	—	82.4
Regal X Trebi	6338	—	—	—	—	11.7	3	19.3	3	14.2	—	—	—	93.4
Tregal	6359	—	—	—	—	10.7	3	24.9	3	13.4	—	—	—	100.8
Spartan	5027	—	—	—	—	3	16.3	3	15.0	—	—	—	—	81.3
Velvon	6109	—	—	—	—	—	—	—	17.8	—	—	—	—	118.7
Rex	6618	—	—	—	—	—	—	—	10.2	—	—	—	—	68.0
Glabron	4577	—	3	15.8	3	4.5	3	19.3	—	—	—	—	—	82.7
Velvet	4252	—	3	8.6	3	5.3	3	22.1	—	—	—	—	—	75.2
Featherston	1120	—	3	12.0	—	—	—	—	—	—	—	—	—	83.9
Hannchen	531	—	3	10.1	—	—	—	—	—	—	—	—	—	70.6

¹ Standard with which other varieties are compared for comparable years.

² Average of three replications, using estimated yields for one replication.

³ Two plots of each variety grown on cornland and 2 plots on fallow, yield averaged. Yields greatly reduced by hail in 1941.

⁴ Yields from fallow land only and not entirely comparable.

⁵ Yields from cornland only and not entirely comparable.

⁶ No variety test at Mandan in 1941.

⁷ Some rabbit damage.

OKLAHOMA

Oklahoma Agricultural Experiment Station, Stillwater..... C. B. Cross.
 United States Dry Land Field Station, Lawton..... W. M. Osborn.
 United States Southern Great Plains Field Station, Woodward. V. C. Hubbard.

TABLE 26.—*Acre yields of varieties of barley grown at agricultural experiment stations in Oklahoma in 1 or more of the years 1937-41*

[Data for Stillwater obtained through the courtesy of the Oklahoma Agricultural Experiment Station; for Lawton, through the courtesy of the Division of Dry Land Agriculture; and for Woodward, 1937-40, in cooperation with the Division of Dry Land Agriculture, and for 1941, through the courtesy of the Division of Dry Land Agriculture]

Station and variety	C. I. No.	Station No.	Number of plots and acre yield						Average yield, 1937-41	Relative yield compared with standard	
			1937		1938		1939				
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	
Stillwater:											
<i>Fall-sown</i>			Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Percent
Tenkow 1	646		4 44.2	4 61.2	4 65.7	4 19.1	4 33.9	4 44.8	4 100.0	100.0	
Manchuria	245		4 48.1	4 59.5	4 63.9	4 25.0	4 18.5	4 43.0	4 95.9	95.9	
Cape			4 41.7	4 57.1	4 61.9	4 27.9	4 22.0	4 42.1	4 94.0	94.0	
Wisconsin Winter	519		4 48.6	4 52.7	4 59.3	4 29.8	4 24.3	4 41.0	4 91.6	91.6	
Michigan Winter			4 37.7	4 53.6	4 48.3	4 34.0	4 20.2	4 38.7	4 86.4	86.4	
Tennessee Winter			4 39.2	4 54.8	4 61.2	4 28.5	4 11.3	4 39.1	4 87.2	87.2	
Black Egyptian	1246		4 42.6	4 46.0	4 36.7	4 13.8	4 26.9	4 37.2	4 83.0	83.0	
Brown Winter			4 35.3	4 53.7	4 30.9	4 28.9	4 16.0	4 33.0	4 75.6	75.6	
Missouri Early	6051		4 51.7	4 38.4	4 33.3	4 23.2	4 16.7	4 28.7	4 64.0	64.0	
Tennessee Beardless	6	2746			4 33.6	4 19.4	4 11.3	4 26.5	4 54.2	54.2	
Finley		5901			4 49.2	4 19.8	4 13.4	4 21.5	4 80.5	80.5	
Reno		6561					4 35.0	4 30.8	4 103.6	103.6	
Ward		6007							4 124.3	124.3	
<i>Spring-sown</i>			Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Percent
Tenkow 1	646		4 29.4	4 25.7	4 34.6	4 30.6	4 5.6	4 21.2	4 100.0	100.0	
Limerick	1302		4 35.5	4 28.9	4 19.9	4 31.6	4 9.1	4 23.0	4 118.0	118.0	
Hero	1286		4 27.1	4 27.6	4 20.1	4 24.4	4 14.7	4 22.8	4 107.6	107.6	
Manchuria	245		4 24.8	4 22.6	4 18.5	4 32.3	4 2.8	4 26.2	4 95.6	95.6	
Heron	1299		4 23.3	4 26.1	4 18.0	4 26.9	4 15.6	4 22.0	4 103.8	103.8	
Phoebe	1305		4 31.1	4 32.0	4 18.0	4 22.8	4 7.3	4 22.4	4 105.6	105.6	
Cape			4 36.6	4 16.9	4 19.2	4 31.3	4 3.2	4 21.2	4 100.3	100.3	
Spartan	5027		4 24.6	4 35.5	4 15.8	4 26.1	4 13.0	4 23.0	4 108.6	108.6	
Italiapi			4 19.2	4 28.2	4 17.9	4 31.8	4 9.5	4 21.3	4 100.7	100.7	
Stavropol	2103		4 19.6	4 36.5	4 22.7	4 20.5	4 10.0	4 19.9	4 95.8	95.8	
Black Algerian	708		4 34.1	4 37.1	4 12.4	4 27.6	4 13.1	4 22.9	4 108.2	108.2	
Club Marjorie	261		4 25.7	4 26.5	4 15.8	4 30.7	4 19.7	4 23.2	4 109.9	109.9	
White Smyrna	910		4 35.7	4 11.4	4 19.4	4 36.0	4 11.8	4 20.9	4 98.5	98.5	
Calot	1102		4 15.5	4 24.4	4 15.2	4 31.7	4 19.8	4 21.5	4 101.3	101.3	
Black Smyrna	191		4 37.3	4 12.3	4 12.5	4 25.8	4 10.5	4 19.7	4 92.9	92.9	
Vaughn	1367		4 21.4	4 23.3	4 11.1	4 22.1	4 12.7	4 20.0	4 94.3	94.3	
Black Egyptian	1246		4 27.8	4 11.1	4 9.5	4 22.1	4 12.7	4 16.6	4 78.6	78.6	
Gibraltar	1577		4 15.1	4 15.2	4 20.4	4 22.4	4 17.3	4 18.1	4 85.4	85.4	
Trebi	936		4 16.6	4 16.7	4 11.8	4 23.6	4 2.2	4 14.2	4 66.9	66.9	
Comfort	14578		4 13.0	4 34.5	4 17.0	4 18.0	4 7.7	4 14.0	4 66.3	66.3	
Velvet	1452		4 11.5	4 17.2	4 16.8	4 15.3	4 1.0	4 12.3	4 58.2	58.2	
Blackhull	878		4 20.5	4 25.3	4 17.2	4 26.9	4 18.8	4 21.7	4 102.6	102.6	
Flynn	1311		4 36.0	4 33.4	4 11.9	4 19.3	4 9.2	4 106.9	106.9		
Finley	5901				4 7.8	4 19.3	4 7.4	4 67.9	67.9		
Lawton:											
<i>Fall-sown</i>			Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Percent
Tennessee Winter			3 49.7	3 0	3 17.0	3 16.9	3 32.1	3 23.1	3 100.0	100.0	
66 1	3546		3 34.6	3 0	3 13.8	3 16.7	3 143.7	3 25.8	3 111.3	111.3	
Wisconsin Winter	519		3 49.6	3 0	3 15.1	3 16.2	3 37.0	3 23.6	3 101.9	101.9	
Han River	206		3 51.1	3 0	3 15.0	3 20.8	3 34.3	3 24.2	3 104.8	104.8	
Michigan	7032										
Missouri Early	Beardless	6051	3 30.5	3 0	3 16.1	3 10.1	3 37.9	3 18.9	3 81.8	81.8	
Ezaw	4690		3 36.3	3 0	3 18.3	3 16.6	3 34.7	3 23.2	3 108.8	108.8	
Winter	6127						3 19.0	3 10.3	3 141.4	141.4	
Texan	6499						3 14.1	3 57.6	3 146.3	146.3	

See footnotes at end of table.

TABLE 26.—*Acre yields of varieties of barley grown at agricultural experiment stations in Oklahoma in 1 or more of the years 1937-41—Continued*

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Average yield, 1937-41	Relative yield compared with stand- ard		
			1937		1938		1939		1940		1941					
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield				
Lawton—Continued.																
<i>Fall-sown</i>																
--Continued.																
Composite Cross selection.....	6300	Tex. 1-33- 179							3	19.5	3	52.4		146.7		
Tenkow.....	646										3	50.4		157.0		
Reno.....	6561										3	46.0		143.3		
Davidson.....	6373										3	50.4		157.0		
Woodward— ³																
<i>Spring-sown</i>																
Atlas.....	4118		3	15.9	3	59.4	3	35.4	27	15.8	6	42.7	33.4	100.0		
Danne 113.....	6140		3	12.7	3	59.1	3	27.0	9	19.3	3	45.3	32.3	96.3		
White Smyrna.....	910		3	18.3	3	44.9	3	26.2	27	18.3	3	41.6	29.9	89.5		
Blackhull 1180.....	6009		2	24.5	3	55.2	3	33.9	9	19.2	3	46.3	33.9	107.3		
Vaughn.....	1367		3	14.2	3	52.7	3	33.8	27	13.0	6	50.2	32.8	98.0		
Flynn 1.....	5911		3	17.8	3	48.2	3	30.4	9	16.8	3	41.0	30.8	92.2		
Vance.....	4585							3	35.3	9	18.4	3	41.4		99.1	
Tenkow.....	646							3	23.3	9	13.0	3	43.7		85.3	
Ward.....	6007							3	17.6	9	11.9	3	39.3		73.3	
Michigan Winter.....	2036							3	17.8	9	12.0	3	39.3		73.3	
Woodwin.....	7033	2159						3	23.5	9	15.8	3	43.5		88.2	
Lico.....	6279							3	21.9	9	16.7	3	44.6		88.6	
Beecher.....	6566							3	35.6	9	15.1	3	62.3		118.2	
Perth.....	6023								2	12.7	3	32.5			111.3	
Compania.....	5438								1	27.5	3	47.4			128.0	
Manchuria.....	245								9	14.8	3	52.1			114.4	
Arivat.....	6373											49.9			116.9	
Winter.....	6127											48.0			142.4	
Ezond.....	6265										3	23.8			53.7	
Blackhull 1178.....	3679		2	17.6	3	51.6	3	33.2	9	19.0					97.3	
Deputy.....	6012		2	6.1	3	50.2	3	33.4	9	18.9					87.2	
Trebi.....	936		3	10.6	3	40.9	3	24.0	9	15.3					72.9	
Stavropol.....	3913		3	12.5	3	57.6	3	30.7	9	14.9					92.9	
California Mariott 1435.....			3	13.9	3	42.3	3	25.6	9	14.4					77.3	
Sandrel.....	937		3	10.5	3	54.2	3	32.6	9	13.2					80.6	
<i>Fall-sown</i>																
Ward.....	6007		3	18.3	3	47.3	3	28.6	36	14.8	0	21.8	100.0			
Michigan Winter.....	2036		3	13.7	3	62.3	3	24.1	9	14.0	0	22.9	104.9			
Missouri Early Beardless.....	6051		3	19.0	3	28.4	3	21.8	9	16.0	0	17.0	78.2			
Woodwin.....	7033	2159	3	14.1	3	50.9	3	30.4	9	20.1	0	27.1	124.5			
Kansas South-central strain.....	6376		3	15.4	3	52.3	3	34.9	9	11.8	0	28.9	132.5			
Hooded 10.....	6563		3	13.2	1	36.0	1	38.2	9	11.7	0	19.8	90.9			
Alaska.....	4106		1	22.9	3	57.2	3	36.1	9	10.3	0	31.3	143.6			
Tennessee Winter 66.....	3546		3	15.6	3	76.7	3	18.6	9	9.8	0	28.2	129.3			
Tennessee Winter 6034.....	9	15.6	3	76.7	3	27.3	9	8.4	0	25.6	117.1					
Ward selection.....	7034	35h10-3	3	19.7	3	81.7	9	34.3	9	11.2	0	29.8	136.6			
Composite Cross selection.....			35h9-5	3	14.5	3	93.6	9	31.8	9	19.1	0	31.8	145.9		
Do.....			35h10-3	3	16.0	3	93.4	9	30.9	9	18.0	0	31.7	143.2		
Do.....			35h9-9	3	24.9	3	72.6	9	33.7	9	17.9	0	30.4	139.5		
Do.....			35h10-17	3	20.9	3	78.2	9	31.4	9	17.8	0	29.7	136.1		
Do.....			35h9-23	3	16.3	3	76.8	9	32.3	9	18.0	0	28.7	131.6		
Do.....			35h10-12	3	20.1	3	74.9	9	29.2	9	18.4	0	25.3	130.8		
Do.....			35h10-30	3	24.8	3	71.5	9	31.0	9	13.1	0	28.0	128.6		
Do.....			35h10-23	3	17.8	3	72.6	9	33.2	9	16.7	0	28.1	128.7		
Winter.....	6127						3	81.8	3	33.5	9	11.8	0		140.1	
Reno.....	6561						1	54.5	3	41.7	9	9.2	0		116.2	
Randolph.....	6372						1	38.7	1	44.1	9	7.5	0		99.6	
Composite Cross selection.....			6564	N.C.II-11		1	60.8	3	34.0	9	7.1	0			112.3	
Wisconsin Winter 2159						3	33.0	9	19.2	0					120.3	

¹ Standard with which other varieties are compared for comparable years.² Crop destroyed by hail in 1938.³ No yields from fall-sown tests at Woodward in 1941, due to winter-killing.

ORECON

Oregon Agricultural Experiment Station, Corvallis..... D. D. Hill.
 Sherman County Branch Experiment Station, Moro..... M. M. Oveson.
 Pendleton Field Station, Pendleton..... J. Foster Martin.
 Eastern Oregon Branch Livestock Experiment Station, Union..... D. E. Richards.
 Harney Branch Experiment Station, Burns..... Obil Shattuck.

TABLE 27.—Acre yields of varieties of barley grown at agricultural experiment stations in Oregon in 1 or more of the years 1937-41

[Data for Corvallis, Union, and Burns furnished through the courtesy of the Oregon Agricultural Experiment Station; for Moro and Pendleton, in cooperation with the station]

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield con- pared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Corvallis:														
Fall-sown 1														
O. A. C. 1 2	5953	1	12	0	12	36.9	12	69.4	12	53.1	12	59.4	143.8	
Santiam	6367	36	3	0	3	41.3	3	84.3	3	154.6	3	53.8	16.8	
Winter Club	592	15	3	0	3	42.9	3	80.9	3	158.4	3	36.7	43.8	
O. A. C. 6	5954		3	0	3	33.4	3	71.6	3	150.5	3	47.1	40.5	
Composite Cross selection			38	3	0	3	41.0	3	88.4	3	61.7	3	65.8	51.4
Do.														
Do.			54											
Do.			55											
Do.			36											
Do.			69											
Do.			64											
Do.			65											
Do.			66											
Do.			67											
Do.			68											
Do.			60											
Do.			61											
Do.			62											
Do.			63											
Spring-sown														
Hanuchen 2	531	17	10	43.1	10	9.5	10	30.5	7	22.3	7	33.8	27.8	
Trebi 2	936	19	3	38.6	3	10.3	3	23.3	3	21.3	3	29.8	24.7	
Union Beardless	5976	20	3	43.4	3	5.5	3	29.9	3	16.9	3	36.6	24.5	
Victory	5077	27	3	42.1	3	9.0	3	29.7	3	20.1	3	25.2	25.3	
Wisconsin Barbless	5105	37	3	42.7	3	5.1	3	24.8	3	16.8	3	25.6	23.0	
Composite Cross selection			45	3	48.7	3	7.5	3	27.8	3	20.7	3	29.6	26.9
Do.			47											
Do.			49											
Do.			50											
O. A. C. 7	2814	7	3	35.5	3	10.4	3	27.4	3	20.7	3	29.3		
Composite Cross selection			44	3	47.7	3	5.4	3	25.5	3	13.6			
Moro:														
Peruvian 19 2	6568		1	64.2	3	46.0	4	41.2	4	26.5	3	64.0	48.4	
Flynn 37	5918	2	55.3	3	42.7	4	45.0	4	28.1	3	63.6	46.3		
Composite Cross selection			5449	1	47.0	3	41.7	4	33.5	4	22.6	3	43.4	37.6
Meloy 3	4656	2	46.7	3	40.8	4	33.7	4	22.1	3	48.2	38.3		
Atlas	4118													
Afghanistan	4173		1	35.5										
Awnless	5631		1	35.5										
Pendleton:														
Trebi 2	936		4	48.8	4	48.0	4	46.2	4	38.2	4	68.8	50.0	
Flynn 1	5911		4	47.0	4	47.2	4	42.8	4	39.3	4	66.4	48.5	
Flynn 37	5918		4	47.0	4	46.2	4	42.8	4	44.8	4	71.2	50.4	
Meloy 3	4656		4	44.8	4	46.3	4	30.8	4	31.5	4	45.8	41.8	
Composite Cross selection			5449	4	43.3	4	45.0	4	37.2	4	26.8	4	51.2	40.7
Atlas	4118													
Arivat	6573													

See footnotes at end of table.

TABLE 27.—*Acre yields of varieties of barley grown at agricultural experiment stations in Oregon in 1 or more of the years 1937-41—Continued*

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield compared with standard	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Union:														
Trebi 2	936		3	62.8	3	76.4	3	85.7	3	61.8	3	70.5	71.4	
Odessa	182		3	60.8	3	80.2	3	80.5	3	56.6	3	69.1	69.4	
Hannchen	531		3	56.5	3	66.6	3	71.7	3	58.6	3	61.1	61.2	
Exond	5064		3	51.9	3	83.3	3	77.7	3	56.2	3	67.0	67.8	
Union Beardless	5976		3	63.2	3	77.1	3	49.6	3	47.6	3	65.3	60.6	
Union Beardless G.	7015		3	63.5	3	77.8	3	51.0	3	41.7	3	67.7	60.3	
Faust	4579		3	35.3	3	57.2	3	33.6	3	23.6	3	51.7	40.3	
Velvon	6109		3	48.1	3	82.1	3	45.1	3	53.9	3	63.2	53.7	
Composite Cross selection	7036	32855							3	61.5	3	65.3		
Rex	6618								3	52.8	3	55.2	81.6	
O. A. C. 7	2814		3	61.1	3	80.5	3	72.5	3				95.2	
Vaughn	1367		3	48.3	3	72.9	3	64.9	3				82.7	
Flynn	1311		3	51.8	3	79.2	3	65.6	3				87.4	
Composite Cross selection	3449		3	55.6									88.5	
Burns:														
Trebi 2	936		2	127.1	2	90.6	2	89.8	2	105.8			100.0	
Union Beardless	5976		2	120.8	2	85.3	2	86.1	2	90.0			90.5	
Hannchen	531		2	105.1	2	86.4	2	88.2	2	80.2			85.2	

1. No yields from fall-sown varieties, due to unprecedeted dry weather in fall of 1936.

2. Standard with which other varieties are compared for comparable years.

PENNSYLVANIA

Pennsylvania Agricultural Experiment Station, State College.....C. F. Noll.

TABLE 28.—*Acre yields of varieties of barley grown at the Pennsylvania Agricultural Experiment Station, State College, in 1 or more of the years 1937-41*

[Data obtained through the courtesy of the Pennsylvania Agricultural Experiment Station]

Variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield compared with standard	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Fall-sown 1														
Kentucky 1 2	6050		5	39.6	5	36.0			4	38.7	5	31.0		
Poland	6280		5	37.7	5	31.2			4	33.9	5	29.7	91.2	
Olympia	6107		5	35.6	5	34.1			4	33.1	5	34.4	94.4	
York Hooded	7038		5	39.4	5	19.1			4	28.9	5	25.0	77.4	
Old Maryland 3	7057		5	34.9	5	30.2			4	31.3	5	25.6	84.0	
Marnobard	6120		5	30.3								6.1	51.6	
Tennessee Winter												23.2		
Smooth Awn 86	6268											19.4	43.2	
Hooded 16	6574											18.9	61.0	
Sunrise	6272											12.6	40.6	
Brug 76	6477											21.4	69.0	
Purdue 28156A3-2												13.4		
2-2	6562												75.5	
West Virginia 1-35	274	7039	5	39.0	5	30.7			4	28.3	5	24.8	80.0	
Winter Club	592		5	32.5	5	31.9			4	28.6			85.7	
Santiam	6367		5	34.7									81.4	
Kentucky 2	6148												37.6	

See footnotes at end of table.

YIELDS OF BARLEY, 1937-41

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TABLE 28.—*Acre yields of varieties of barley grown at the Pennsylvania Agricultural Experiment Station, State College, in 1 or more of the years 1937-41—Continued*

Variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield com- pared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Spring-sown ¹				Bu.		Bu.		Bu.		Bu.		Bu.	Percent	
Wisconsin Barbless ²	5105		5	10.5			5	24.6	5	16.0	5	22.7	100.0	
Oderbrucker	1272		5	13.6			5	21.9	5	16.4	5	20.2	97.7	
Alpha	959		5	14.0			5	26.5	5	19.0	5	22.2	110.7*	
Comfort	4578		5	12.9			5	22.6	5	15.1	5	20.9	96.9	
Wisconsin Barbless selection	7000	104A-35	5	13.5			5	27.3	5	17.8	5	22.4	109.8	
(Manchuria X Leisor rhynchum) X Alpha			N. Y. 220a ¹ -29-50				5	23.5	5	17.3	5	22.0	99.2	
Do			N. Y. 220a ¹ -31-358				5	20.7	5	16.1	5	20.6	90.7	
Alpha X Goldfoil			N. Y. 504all-5-4				5	23.0	5	21.4	5	23.4	110.3	
Ezond	6265						5	27.1	5	21.2	5	21.4	110.1	
ZZ Second	6299						5	36.2	5	25.5	5	26.3	139.0	
Peatland	5267						5	20.6	5	12.6	5	22.1	87.4	
Hannchen	531						5	24.4	5	19.2	5	19.2	92.9	
Chevron	911						5	20.8	5	14.7	5	24.8	95.3	
Trebi	936						5	24.0	5	20.6	5	20.6	101.0	
Velvon	6109						5	20.0	5	17.9	5	13.7	81.5	
Velvet	4252		5	12.1									115.2	

¹ No yields secured in 1939, fall-sown, and 1938, spring-sown, tests due to poor stand resulting from injury to seed in treatment for smut control.

² Standard with which other varieties are compared for comparable years.

* A strain of Tennessee Winter.

SOUTH CAROLINA

South Carolina Agricultural Experiment Station, Clemson, W. R. Paden.

TABLE 29.—*Acre yields of varieties of barley grown at the South Carolina Agricultural Experiment Station, Clemson, in 1 or more of the years 1937-41*

(Data obtained through the courtesy of the South Carolina Agricultural Experiment Station)

Variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield com- pared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Clemson Awnless ¹	7040		11	51.0	11	32.5	10	53.0	10	64.8	10	45.2	48.9	
Marets Beardless	7041		11	50.0	11	29.5	10	67.3	10	57.4	10	53.8	51.6	
Woods Hooded	6235		11	42.4	11	29.6	10	61.5	10	57.3	10	44.9	47.1	
Woods Bearded	7024		11	35.1	11	44.1	10	61.1	10	46.3	10	45.2	46.0	
Clemson Hooded	7042						11	42.4	10	64.4	10	68.2	57.1	
Marets Awnless	7043						10	62.4	10	65.4	10	44.6	120.1	
Marnobarb	6120						10	62.4	10	65.3	10	41.7	107.1	
Jackson	6369						10	53.3	10	41.7	10	34.9	88.0	
Marets Pedigree ²													80.8	
Awnless 58	7044												156.7	
Tennessee Beardless	53384		11	52.6	11	28.8	10	44.2	10	41.9	10	67.7	83.2	
Missouri Early Beardless	6051	38133					10	58.3					110.0	
Tennessee Smooth Awn		Tenn. B3-56					10	39.5					74.2	
Hastings Bearded			11	30.3									59.4	

¹ Standard with which other varieties are compared for comparable years.

SOUTH DAKOTA

South Dakota Agricultural Experiment Station, Brookings.....J. E. Graefius.
 Highmore Substation, Highmore.....In care of J. E. Graefius, Brookings.
 Eureka Substation, Eureka.....In care of J. E. Graefius, Brookings.
 United States Belle Fourche Field Station, Newell
Beyer Aune ^s and A. Osenbrug.

TABLE 30.—*Acre yields of varieties of barley grown at agricultural experiment stations in South Dakota in 1 or more of the years 1937-41*

[Data for Brookings, Highmore, and Eureka obtained through the courtesy of the South Dakota Agricultural Experiment Station; for Newell, through the courtesy of the Divisions of Irrigation Agriculture and Dry Land Agriculture]

Station and variety	C. I. No.	Station No.	Number of plots and acre yield								Relative yield compared with standard			
			1937		1938		1939		1940					
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield				
			Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Percent			
Brookings:														
Odessa	182	182	3	13.8	3	44.9	3	53.4	3	51.9	3	52.4	43.3	100.0
Spartan	5027	1352	3	24.5	3	51.8	3	46.3	3	60.6	3	45.9	43.8	105.9
Minsturdi	1556	1245	3	16.1	3	37.0	3	46.3	3	51.7	3	37.1	37.6	87.0
Lion X Manchuria	6001	1340	3	12.3	3	34.0	3	46.3	3	50.3	3	39.0	36.4	84.1
Glabron	4577	1290	3	12.0	3	38.1	3	47.3	3	49.2	3	40.2	37.4	86.4
Velvet	1252	1286	3	10.4	3	34.9	3	46.3	3	47.9	3	35.5	33.0	80.9
Trebi	936	1298	3	17.0	3	41.2	3	61.6	3	55.3	3	47.8	45.0	103.9
Manchuria	2947	N. Dak. 2121	3	3.7	3	28.1	3	38.6	3	39.9	3	37.8	29.6	68.5
Oederbrucker	1529	1180	3	2.3	3	30.4	3	42.8	3	34.7	3	34.4	28.9	66.8
Wisconsin Barless	5105		3	11.2	3	49.5	3	59.2	3	56.5	3	41.3	43.5	100.6
Ezond	6265		3	18.1	3	54.9	3	60.2	3	62.6	3	44.9	48.1	111.2
Foglos	6239				3	47.4	3	43.7	3	45.3	3	44.9		89.5
Composite Cross					3	47.3	3	57.3	3	50.6	3	49.0		
III	6144				3	57.3	3	50.6	3	49.0			100.8	
Dryland	5673						3	49.2	3	52.3			82.9	
Han River		1348					2	77.0	3	56.2			127.7	
Atlas	4118								3	42.2			80.5	
Compana	5438								3	38.1			72.7	
Horn	926	1299	3	7.6									55.1	
Highmore:														
Odessa	182	182			3	21.3	3	36.0	3	20.3	3	18.2		100.0
Ace	1853	1173			3	35.8	3	43.4	3	16.1	3	18.0		118.3
White Smyrna X Svanhals	6371	1344			3	23.4	3	36.0	3	18.0	3	13.7		95.1
Spartan	5027	1352			3	28.9	3	46.2	3	19.9	3	15.6		115.4
Coast X Lion	6092	1343			3	8.6	3	36.0	3	19.0	3	9.8		77.6
Lion X Manchuria	6001	1340			3	5.8	3	37.1	3	12.9	3	11.9		70.7
Glabron	4577	1290			3	8.9	3	39.7	3	20.3	3	16.4		89.0
Velvet	1252	1286			3	12.4	3	33.7	3	14.4	3	13.1		78.9
Trebi	936	1298			3	38.2	3	46.6	3	16.7	3	22.2		129.1
Horn	926	1299			3	13.8	3	33.2	3	18.0	3	15.8		86.4
Ezond	6265				3	4.8	3	21.4	3	22.7				124.7
Dryland	5673								3	17.5				77.1
Han River	2163	1348									3	20.0		109.9
Compana	5438										3	19.0		104.4
Atlas	4118										3	16.6		91.2
Minsturdi	1556	1245			3	19.5								90.6
Eureka:														
Odessa	182	182					2	14.6	3	25.1	3	58.6		100.0
White Smyrna X Svanhals	6371	1344					2	10.9	3	24.0	3	75.8		112.6
Spartan	5027	1352					2	7.3	3	24.1	3	20.3		103.8
Lion X Manchuria	6001	1340					2	9.9	3	24.9	3	64.7		101.2
Trebi	936	1298					2	13.3	3	23.5	3	68.6		107.4
Glabron	4577	1290					2	7.8	3	22.3	3	53.2		84.7
Dryland	5673								3	25.1	3	65.4		108.1
Ezond	6265								3	28.6	3	81.5		131.5
Velvet	1252	1286					3	20.5	3	54.1			89.1	
Han River		1348							3	72.0				122.9

See footnotes at end of table.

^s Deceased.

YIELDS OF BARLEY, 1937-41

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TABLE 30.—*Acre yields of varieties of barley grown at agricultural experiment stations in South Dakota in 1 or more of the years 1937-41—Continued*

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield compared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Newell:														
<i>Irrigated</i> ²														
Trebi	936		3	20.7	3	32.9	3	41.7	3	0	3	52.1	29.5	
Comfort	4578		3	13.2	3	20.4	3	41.0	3	0	3	41.3	21.2	
Glafron	4577		3	0.0	3	14.2	3	41.3	3	0	3	39.9	20.9	
Odessa	182		3	23.6	3	37.4	3	36.4	3	0	3	39.6	27.4	
Vaughn	1367		3	24.7	3	34.7	3	35.4	3	0	3	36.8	26.3	
Horn	926		3	16.3	3	21.8	3	40.3	3	0	3	52.8	26.2	
Chevalier	200		3	6.6	3	25.7	3	25.4	3	0	3	35.5	16.2	
White Smyrna	195		3	22.2	3	31.5	3	43.3	3	0	3	50.7	29.6	
Haunchen	531		3	9.0	3	8.3	3	33.4	3	0	3	43.8	100.3	
Spartan	5027										3	41.4	84.1	
Compania	5438										3	38.1	100.6	
Beecher	6366										3	51.7	99.2	
<i>Dry-farmed</i>														
Beecher	6366										3	48.9	100.0	
Spartan	5027										3	41.4	84.7	
Compania	5438										3	38.1	77.9	
White Smyrna	195										3	37.8	77.3	

¹ Standard with which other varieties are compared for comparable years.

² Crop destroyed by hail in 1940.

TENNESSEE

Tennessee Agricultural Experiment Station, Knoxville..... N. L. Hancock.
 Middle Tennessee Experiment Station, Columbia..... L. R. Neel.
 West Tennessee Experiment Station, Jackson..... B. P. Hazlewood.

TABLE 31.—*Acre yields of varieties of barley grown at agricultural experiment stations in Tennessee in 1 or more of the years 1937-41*

[Data obtained through the courtesy of the Tennessee Agricultural Experiment Station]

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield com- pared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Knoxville:														
Tennessee Winter														
52	3543		3	42.2	6	39.9	6	45.3	5	57.3	7	64.5	49.8	
Polders	3213		1	42.4	6	43.2	6	37.2	5	59.3	7	52.2	100.0	
Missouri Early														
Beardless	6051		2	42.6	6	20.9	6	36.5	5	51.9	7	70.1	14.4	
Jackson	6569	B5-9 (S)							5	61.7	7	59.5	89.1	
Kentucky	6050								5	52.9	7	59.0	99.5	
Jackson	7045	7B2-42							7	67.9			91.9	
Tennessee Beard- less 5	3384		3	37.4	6	24.5	6	33.0	5	39.0			103.3	
Tennessee Smoothi- awn	6570	B5-14							5	53.8			72.5	
Do		B3-56							6	35.3			93.9	
Do		B5-33							6	34.1			84.2	
Union Winter	583		3	40.9					6	39.4			86.3	
Marnobarb	6120		4	36.7									96.9	
													87.0	

See footnote at end of table.

TABLE 31.—*Acre yields of varieties of barley grown at agricultural experiment stations in Tennessee in 1 or more of the years 1937-41—Continued*

Station and variety	C. I. No.	Station No.	Number of plots and acre yield						Average yield 1937-41	Relative yield compared with stand- ard	
			1937		1938		1939				
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	
Columbia:			Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Per- cent
Tennessee Winter											100.0
52	3543						5 39.4	5 56.3	5 44.1		111.4
Polders	3213						5 43.8	5 64.0	5 48.0		
Missouri Early											
Beardless	6051						5 35.0	5 45.5	5 43.0		88.3
Tennessee Beard- less 5	3384						5 31.1	5 45.5	5 39.7		83.2
Jackson	6569	B5-9 (S)									98.2
Kentucky 1	6050										110.5
Tennessee Smooth											
Awn	6570	B5-14									94.7
Jackson	7043	7B2-42									145.1
Tennessee Smooth											
Awn		B5-56					5 28.0				71.1
Do.		B5-33					5 30.4				51.8
Union Winter	583						5 42.2				107.1
Jackson:											
Tennessee Winter											
52	3543						5 68.5	5 64.2	5 64.5		100.0
Polders	3213						5 49.0	5 60.6	5 60.0		86.0
Missouri Early											
Beardless	6051						5 40.8	5 40.8	5 35.8		69.7
Jackson	6569	B5-9 (S)									107.0
Kentucky 1	6050										93.6
Jackson	7043	7B2-42									123.7
Tennessee Smooth											
Awn	6570	B5-14									108.0
Tennessee Beard- less 5	3384										57.9
Tennessee Smooth											
Awn		B5-56					5 37.5				54.7
Do.		B5-33					5 44.0				64.2

¹ Standard with which other varieties are compared for comparable years.

TEXAS

Substation No. 6, Denton	I. M. Atkins and P. B. Dunkle
Substation No. 5, Temple	H. O. Hill
Substation No. 16, Iowa Park	L. E. Brooks
Substation No. 12, Chillicothe	J. R. Quinby
United States Cotton Field Station, Greenville	D. R. Hooton
Conservation Experimental Station, Bushland	D. A. Reid
Texas Technological College, Lubbock	A. W. Young

YIELDS OF BARLEY, 1937-41

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TABLE 32.—*Acre yields of varieties of barley grown at agricultural experiment stations in Texas in 1 or more of the years 1937-41*

[Data for Denton, Temple, Iowa Park, and Chillicothe obtained through the courtesy of the Texas Agricultural Experiment Station; for Greenville, through the courtesy of the Division of Cotton and Other Fiber Crops and Diseases; for Bushland, through the courtesy of the Texas Agricultural Experiment Station in cooperation with the Soil Conservation Service, United States Department of Agriculture; and for Lubbock, through the courtesy of the Texas Technological College.]

Station and variety	C. I. No.	Station No.	Number of plots and acre yield						Relative yield compared with standard, 1937-41		
			1937		1938		1939				
			Plots	Yield	Plots	Yield	Plots	Yield			
			Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Percent	
Denton:											
Wintex 1	6127	23258	4	63.6	4	58.5	4	48.0	4	34.5	
Tennessee Winter	6125	15825	4	49.8	4	41.2	4	34.9	4	32.4	
Do	6128	23259	4	49.0	4	33.4	4	43.4	4	32.4	
Finley	5901	12576	4	45.5	4	41.9	4	43.8	4	44.6	
Bailey	5902	23241	4	55.1	4	46.8	4	40.7	4	44.7	
Tennessee Winter	61	3545	15826	4	44.7	4	40.8	4	32.4	4	33.9
Texas Winter	6498	24933	—	—	4	38.4	4	30.9	4	36.4	
Texan	6499	28348	—	—	4	49.7	4	40.9	4	42.6	
Composite Cross selection	6502	1-32-103	—	—	4	45.4	4	47.4	4	46.8	
Do	6500	1-33-179	—	—	4	41.1	4	32.8	4	43.0	
Tenkow	646	20716	—	—	—	—	—	—	4	48.9	
Composite Cross selection	6501	1-33-249	—	—	4	48.9	4	42.1	—	—	
Tennessee Winter	6126	15861	4	44.0	—	—	—	—	—	—	
Smith selection	6143	23257	4	54.8	—	—	—	—	—	—	
Composite Cross selection	6351	1-31-79	4	47.7	—	—	—	—	—	75.0	
Greenville:											
Wintex 1	6127	23258	—	—	4	24.7	4	36.7	4	33.6	
Tennessee Winter	6125	15825	—	—	4	25.0	4	30.8	4	22.1	
Finley	5901	12576	—	—	—	—	4	35.9	4	28.4	
Composite Cross selection	6500	1-33-179	—	—	—	—	4	36.8	4	24.8	
Texan	6499	28348	—	—	—	—	4	30.8	4	26.8	
Missouri Early Beardless	6051	24941	—	—	4	23.7	—	—	4	20.0	
Tennessee Winter	61	3545	15826	—	—	—	—	—	4	24.5	
Reno	6361	—	—	—	—	—	—	—	4	26.9	
Texas Winter	6498	24933	—	—	—	—	—	—	4	32.0	
Tenkow	646	20716	—	—	—	—	—	—	4	30.8	
Composite Cross selection	6502	1-32-103	—	—	—	—	—	—	4	42.2	
Do	7046	1-33-4-16	—	—	—	—	—	—	4	30.3	
Temple:											
Wintex 1	6127	21258	—	—	4	13.0	4	37.3	4	19.4	
Texan	6499	28348	—	—	4	22.8	4	41.0	4	20.4	
Tennessee Winter	6125	15825	—	—	4	22.2	4	20.0	4	20.6	
Tennessee Winter	61	3545	15826	—	—	4	24.0	4	28.6	4	25.2
Finley	5901	12576	—	—	4	7.2	4	32.0	4	19.2	
Bailey	5902	23241	—	—	4	12.6	4	35.8	4	17.6	
Smith selection	6143	23257	—	—	4	10.8	4	35.0	4	19.0	
Missouri Early Beardless	6051	24941	—	—	4	15.9	4	18.3	4	15.0	
Tennessee Beardless	61	3384	15831	—	—	4	11.4	4	19.2	4	15.0
Composite Cross selection	6500	1-33-179	—	—	4	29.0	4	32.6	4	18.4	
Do	6502	1-32-103	—	—	4	31.5	4	41.3	4	18.8	
Iowa Park:											
Tennessee Winter	61	3345	15826	4	27.8	4	12.8	4	44.1	4	24.7
Finley	5901	12576	4	29.4	4	15.1	4	43.2	4	29.0	
Wintex	6127	23258	—	—	4	15.2	4	48.2	4	28.6	
Texan	6499	28348	—	—	—	—	4	38.6	4	24.7	
Composite Cross selection	6500	1-33-179	—	—	—	—	4	34.8	4	25.4	
			—	—	—	—	—	—	4	21.5	

See footnote at end of table.

TABLE 32.—*Acre yields of varieties of barley grown at agricultural experiment stations in Texas in 1 or more of the years 1937-41—Continued*

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield compared with standard, 1937-41	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Iowa Park—Con.														
Tenkow	616	20716											101.0	
Texas Winter	6498	24933											89.0	
Tennessee Winter	6123	15825											84.5	
Reno	6561												100.0	
Missouri Early														
Beardless	6051	24941											63.3	
Composite Cross selection	6502	1-32-103											106.0	
Do.	7046	1-35-416											126.0	
Tennessee Winter	6126	18561	4	25.3	4	13.7							96.1	
Bailey	5902	23241	4	38.6	4	16.8							136.5	
Chillicothe:														
Wintex 1	6127	23258			4	32.6	4	40.0	4	5.0	4	32.3	100.0	
Finley	5901	12376			4	28.3	4	32.0	4	2.8	4	27.0	82.1	
Tennessee Winter 61	3545	15826			4	21.3	4	27.8	4	3.4	4	24.2	69.9	
Ward	6007	24932			4	26.8	4	34.8	4	4.7	4	33.4	90.8	
Missouri Early														
Beardless	6051	24941			4	10.3	4	18.8	4	6.2	4	22.0	52.2	
Texan	6499	28348			4	27.9	4	40.5	4	5.6	4	41.1	104.8	
Composite Cross selection	6500	1-33-179			4	30.3	4	38.2	4	5.2	4	37.4	101.2	
Tennessee Winter	6126	18581			4	15.8							48.5	
Do.	6125	15825			4	23.8							73.0	
Tennessee Beard less 5	3384	15831			2	11.4							35.0	
Purdue 21	4581	23252			4	19.9							61.0	
Tennessee Winter	6142	23255			4	28.1							86.2	
Bushland:														
<i>Spring-rown</i>														
Wintex 1	6127	23258					6	10.5	6	7.4	6	54.9	100.0	
Vaughn	1367	15830					6	12.4	6	17.5	6	44.0	101.5	
Stavropol	2103	15828					6	9.4	6	13.2	6	49.6	99.2	
Coast	690	15829					6	10.9	6	11.4	6	62.1	115.9	
Finley	5901	12576					6	4.8	6	5.3	6	54.0	88.0	
Bailey	5902	23231					6	7.5	6	3.7	6	48.7	82.3	
Black	16129	23254					6	14.1	6	12.6	6	57.2	115.2	
Amarillo	7047	S-31-68					6	22.0	6	11.4	6	67.8	139.0	
Composite Cross selection	7048	1-31-45					6	22.9	6	12.2	6	57.1	126.6	
Do.	7049	1-31-83					6	14.1	6	5.2	6	54.0	100.7	
Do.	7050	1-33-332					6	15.1	6	2.2	6	54.2	105.1	
Club Marquis	261													
Atlas	4118													
Composite Cross selection	6500	1-33-179					6	5.2	6	60.6		105.6		
Do.	7051	1-33-71					6	4.6	6	55.0		95.7		
Do.	7052	1-33-326					6	5.6	6	58.2		102.4		
Do.	7053	1-33-413					6	6.7	6	55.4		99.7		
Flynn 1	5915													
Atlas X Vaughn	6970	Moscow 1					6	13.2	6	31.3		105.3		
Do.	6971	Moscow 8					6	17.4	6	57.7		120.5		
Beecher	6566	Moscow 9					6	7.7	6	54.3		115.4		
Atlas X Vaughn	6972	Moscow 11					6	18.0	6	63.6		131.0		
Do.	6973	Moscow 13					6	5.4	6	57.4		116.9		
Do.	6974	Moscow 29					6	7.0	6	57.0		118.8		
Do.	6975	Moscow 31					6	14.7	6	64.1		126.5		
Glacier	6976	Moscow 33					6	16.9	6	58.4		120.9		
Atlas X Vaughn	6977	Moscow 39					6	10.0	6	58.4		109.8		
Do.	6978	Moscow 43					6	16.5	6	62.6		127.0		
Do.	6979	Moscow 44					6	13.6	6	69.0		132.6		
Lion X Minia	6980	36AB, 5269					6	12.7	6	66.6		127.3		
Lico	6279						6	12.8	6	65.6		125.8		

See footnote at end of table.

YIELDS OF BARLEY, 1937-41

41

TABLE 32.—*Acre yields of varieties of barley grown at agricultural experiment stations in Texas in 1 or more of the years 1937-41—Continued*

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Average yield, 1937-41	Relative yield com- pared with stand- ard		
			1937		1938		1939		1940		1941					
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield				
Bushland—Con.																
Spring-sown—Con.				Bu.		Bu.		Bu.		Bu.		Bu.		Percent		
Compana.....	538													115.6		
Spartan.....	5027													91.7		
Blackhull 1180.....	6009													152.0		
Trebi X Dryland.....	6981	S. Dak. 69												88.9		
Odessa X Dryland.....	6982	S. Dak. 21												85.6		
New Era X Odessa.....		C-1												87.0		
Do.....		C-2												93.3		
Do.....		C-16												101.8		
Do.....		C-18												91.7		
Ezond.....	5064													113.3		
Arivat.....	6573													139.6		
Texan.....	6499	28348												85.6		
Colby 28445 X Flynn.....	6983	36 Hays 2034												99.6		
Composite Cross selection.....	6984	36Ab. 2457												143.5		
Chevron.....	1111													18.9		
Fall-sown																
Wintex 1.....	6127	23258												100.0		
Texan.....	6499	28348												74.9		
Missouri Early Beardless.....	6051	24941												37.6		
Tennessee Winter.....	6125	15825												61.6		
Tennessee Winter.....	3545	15826												59.8		
61.....																
Composite Cross selection.....	6500	1-33-179												71.5		
Ward.....	6007	24932												85.7		
Tennessee Winter.....	6034	24930												93.9		
Reno.....	6561													99.0		
Woodwin.....	7033													82.8		
Kansas South-central strain.....	6376													97.6		
Michigan Winter.....	2036													87.8		
Lubbock:																
Fall-sown (irrigated)																
Wintex 1.....	6127															
Kentucky 1.....	6050	III-37-31	3	34.2	3	27.8	36	82.4	46	97.3				100.0		
Kentucky 2.....	6148	III-37-8	3	34.0	3	21.5	4	49.1	4	58.6				63.4		
Kentucky 11.....	6021	III-37-20	3	27.5	3	15.0	4	56.8	4	56.1				64.7		
Velvyn.....	6109	III-37-23	3	25.3	3	19.5	4	57.5	4	65.6				69.5		
Orel.....	351	III-37-26	3	31.0	3	11.9	4	78.8	4	78.5				82.8		
(Lion X Coast) X Trebi.....		Utah R2	3	23.3	3	17.1	4	50.2	4	57.0				61.1		
		5-2	3	18.7	3	9.3	4	63.8	4	81.2				72.4		
Composite Cross selection.....	5329	III-37-33	3	30.5	3	10.9	4	64.6	3	74.4				74.6		
Olympia.....	6107	III-37-38	3	32.0	3	21.5	4	54.6	4	71.7				74.4		
Scottish Pearl.....	277	III-37-41	3	22.2	3	14.5	4	58.5	4	74.9				70.4		
Poland.....	6280	III-37-14	3	27.0	3	16.5	4	57.7	4	64.1				68.4		
Tenkow.....	646	III-37-50	3	16.7	3	10.7	4	65.3	4	58.8				62.7		
Kentucky 6.....	4678	III-37-53	3	27.0	3	22.7	4	68.7	4	66.7				76.6		
57.....	3544	III-37-56	3	17.3	3	15.0	4	54.6	4	59.1				60.4		
Tennessee Winter.....	61	III-37-59	3	18.8	3	16.4	4	52.5	4	58.9				60.7		
Tennessee Winter.....	257	III-37-89	3	26.2	3	14.8	4	51.0	4	68.9				66.6		
Texas Winter.....	554	III-37-95	3	21.7	3	18.1	4	55.4	4	61.6				64.9		

See footnote at end of table.

TABLE 32.—*Acre yields of varieties of barley grown at agricultural experiment stations in Texas in 1 or more of the years 1937-41—Continued*

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield com- pared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Lubbock—Con.														
Fall-sown (irrigated) —Continued.														
Coast	4633	III-37-98		Bu.		Bu.		Bu.		Bu.		Bu.	Percent	
Walden Winter		III-37-101	3	31.3	3	14.8	4	57.3	4	83.3		78.1		
Wisconsin Winter	1894	III-37-104	3	38.0	3	20.7	4	49.4	4	63.3		70.6		
Union Winter	583	III-37-110	3	37.7	3	23.6	4	59.2	4	77.9		82.1		
Winter Club	592	III-37-113	3	23.5	3	12.1	4	60.8	4	69.7		68.6		
Composite Cross selection			3	56.2	3	23.7	4	47.5	4	83.2		78.9		
Do.	539	Oreg. 38	3	34.8	3	31.1	4	56.5	4	83.3		85.1		
Do.	539	Oreg. 32	3	35.0	3	27.8	4	59.5	4	69.4		79.3		
Do.	549	Oreg. 32	3	28.3	3	28.9	4	59.6	4	78.9		81.2		
Do.	549	Oreg. 541	3	34.7	3	33.8	4	76.8	4	81.9		94.0		
Santiam	6367	II-37-140	3	31.5	3	25.7	4	58.8	4	64.4		74.8		
O. A. C. 1	5953	II-37-142	3	28.9	3	19.7	4	56.5	4	67.7		62.9		
O. A. C. 6	5954	II-37-146	3	20.3	3	16.3	4	70.3	4	79.0		76.9		
Bailey	5902	II-37-149	3	38.7	3	28.3	4	61.9	4	80.1		86.5		
Tennessee Winter	6125	II-37-153	3	18.8	3	11.3	4	56.5	4	60.9		62.3		
Purdue 1101	4582	II-37-158	3	26.7	3	21.4	4	54.4	4	65.7		65.3		
Purdue 21	4581	II-37-161	3	23.7	3	19.9	4	55.7	4	71.6		63.3		
Finley	5901	II-37-170	3	36.0	3	21.8	4	52.8	4	83.8		76.3		
Smith selection	6143	II-37-173	3	32.6	3	28.8	4	56.0	4	69.4		77.3		
New Mexico														
Winter 1	7065	III-37-179	3	25.7	3	15.0	4	49.9	4	77.7		69.6		
Sunrise	6272	III-37-188	3	31.3	3	8.1	4	39.4	4	51.2		53.8		
Tennessee Winter 52	3543	III-37-194	3	23.5	3	14.7	4	49.7	4	60.1		61.2		
Spring-sown (irrigated)														
Flynn 1	5911		45	37.4	6	41.8	41	39.9	68	42.6		100.0		
Club Mariout	261	III-37-2	3	35.9	4	46.8	4	35.0	4	47.6		101.0		
Stavropol	5913	II-37-3	3	30.9	4	48.0	4	36.0	4	41.3		96.7		
Minsturdi	1556	II-37-4	3	31.0	4	33.4	4	19.4	4	39.5		70.1		
Beldi Giant	2777	II-37-6	3	35.7	4	47.6	4	23.5	4	39.7		90.6		
Trebi	936	II-37-7	40.5	4	63.2	3	23.0	4	44.9		91.2			
North Platte 1	5266	II-37-9	3	37.0	4	48.1	3	41.1	4	49.0		108.3		
Mensury	4696	II-37-10	22.4	4	42.2	3	22.9	4	37.2		77.7			
Coast	699	II-37-13	40.3	4	37.1	3	44.8	4	36.7		98.3			
Do.	699	II-37-15	26.5	4	43.3	4	41.5	4	41.7		94.6			
Atlas X Vaughn	6970	Moscow 1	33.3	4	35.7	4	28.7	4	50.3		91.5			
Beecher	6566	Moscow 9	19.5	4	40.3	3	33.7	4	47.7		87.3			
Vaughn	1367	II-37-18	31.8	4	38.6	4	39.1	4	35.4		89.6			
Ezond	6265	II-37-19	44.0	4	44.4	4	35.5	4	35.8		97.5			
Smooth Awn 203	6267	II-37-21	43.3	4	55.2	4	51.4	4	34.0		101.4			
Hero	4602	II-37-22	36.1	4	48.5	4	35.4	4	52.1		106.3			
Nobarb	6335	II-37-24	28.1	4	35.9	3	15.7	4	33.3		71.1			
Comfort	4578	II-37-25	28.4	4	37.8	4	20.0	4	38.1		76.9			
Lito	6279	II-37-28	30.1	4	47.1	4	37.0	4	37.8		94.0			
Regal	5030	II-38-1	25.7	4	34.3	4	26.0	4	30.5		72.0			
Glabron	4577	II-37-31	22.6	4	41.0	4	18.4	4	39.2		73.0			
Velvet	4525	II-37-52	18.2	4	51.1	4	16.4	4	53.8		73.9			
Oderbrucker XII	5028	Wig. Ped. 37	23.3	4	27.5	3	27.9	4	30.3		67.4			
Wisconsin Barbless	5105	III-37-34	19.4	4	23.4	3	21.2	4	36.0		61.8			
Oderbrucker	4666	III-37-37	8.9	4	24.9	4	7.0	4	27.6		42.3			
Atlas	4118	III-37-59	30.5	4	38.9	3	38.4	4	49.1		97.0			
O. A. C. 21	1170	III-37-42	16.8	4	33.8	3	8.7	4	28.5		54.3			
Manchuria	2330	III-37-36	20.2	4	33.7	4	10.7	4	32.9		60.3			
Odessa	182	III-37-47	21.2	4	35.9	4	18.2	4	41.8		72.4			
Lion	923	III-37-49	55.3	4	37.7	4	51.2	4	40.5		101.9			
Colress	2792	III-37-60	26.9	4	37.7	3	15.0	4	31.7		68.8			
Scarab	995	III-37-62	39.9	4	45.1	4	40.6	4	23.6		92.3			
Velvone	6109	III-37-23	34.1	4	43.4	3	53.1	4	52.5		113.2			
Composite Cross selection	5329	III-37-35	36.6	4	45.1	3	33.4	4	37.9		94.6			

* Standard with which other varieties are compared for comparable years.

UTAH

Utah Agricultural Experiment Station, Logan..... R. W. Woodward.

TABLE 33.—*Acre yields of varieties of barley grown at the Utah Agricultural Experiment Station, Logan, in 1 or more of the years 1937-41*

(Data obtained in cooperation with the Utah Agricultural Experiment Station)

Variety	C. I. No.	Number of plots and acre yield										Average yield, 1937-41	Relative yield com- pared with stand- ard
		1937		1938		1939		1940		1941			
		Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Bu.	Percent
Trebi ¹	936	3	69.4	3	94.9	3	94.8	3	66.7	3	80.6	81.2	100.0
Winter Club	592	3	85.4	3	117.2	3	99.2	3	66.5	3	97.7	93.2	114.8
Velvon	6109	3	78.2	3	95.6	3	86.5	3	72.6	3	76.4	81.9	100.8
Atlas	4118	3	101.0	3	91.8	3	56.4	3	82.1	3	87.6	98.3	108.7
Velvon 5	7054	3	—	3	—	3	—	3	—	3	—	—	—
Titan	7055	3	59.4	3	65.1	3	92.9	3	54.9	3	67.7	—	84.0
Union Beardless	5976	3	74.3	3	91.7	3	94.3	—	—	—	—	—	83.7
Algerian	1179	3	—	3	—	3	—	—	—	—	—	—	100.7
Composite Cross selection	5289	3	53.2	3	104.1	3	110.0	—	—	—	—	—	103.3

¹ Standard with which other varieties are compared for comparable years.

VIRGINIA

United States Arlington Experiment Farm, Arlington..... J. W. Taylor.
Virginia Agricultural Experiment Station, Blacksburg..... T. B. Hutcheson.
Augusta County Station, Staunton..... P. T. Gish.
Washington County Station, Glade Spring..... C. W. Ryburn.TABLE 34.—*Acre yields of varieties of barley grown at agricultural experiment stations in Virginia in 1 or more of the years 1937-41*

(Data for Blacksburg, Staunton, and Glad Spring obtained through the courtesy of the Virginia Agricultural Experiment Station)

Station and variety	C. I. No.	Number of plots and acre yield										Average yield, 1937-41	Relative yield com- pared with stand- ard
		1937		1938		1939		1940		1941			
		Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Bu.	Percent
Arlington:													
Wisconsin Winter ¹	2159	2	38.3	13	41.1	21	39.4	21	30.3	2	45.9	39.0	100.0
Tennessee Winter 12	3534	2	46.1	2	39.9	3	34.4	2	28.3	2	27.9	35.3	90.6
Eswa	4690	2	40.7	2	44.1	3	43.6	2	30.8	2	44.5	40.7	104.5
Composite Cross	5530	2	43.6	2	43.2	3	34.4	2	28.9	2	38.2	37.7	96.6
Smooth Awn 86	6268	2	37.8	2	56.4	3	48.3	2	29.2	2	62.5	46.8	120.1
Sunrise	6272	2	29.5	2	44.3	3	53.8	2	24.0	2	35.9	37.5	96.2
Kentucky 11	6021	2	28.0	2	29.1	3	38.1	2	20.0	2	59.0	34.8	89.3
Marnobarb	6120	2	19.8	2	23.4	3	30.5	2	19.0	2	36.7	31.2	81.7
Poland	6280	2	27.5	2	26.4	3	35.0	2	17.9	2	52.4	32.0	82.2
Hooded 16	6374	1	43.5	2	32.9	2	43.0	3	30.3	2	37.1	37.4	95.8
Nakao Wase 59	6567	1	—	1	45.8	1	39.3	3	28.2	2	39.1	—	96.0
West Virginia 1-35-153	7063	—	—	—	—	—	—	—	—	—	—	—	—
Tennessee Winter	257	2	47.1	2	41.2	3	37.4	3	22.4	—	—	—	77.2
Alaska	4106	2	30.4	2	41.5	3	34.2	3	22.8	—	—	—	99.3
Orel	351	2	49.0	2	38.3	3	33.4	2	20.5	—	—	—	99.9
Mechanical Mixture	4115	2	52.5	2	44.1	3	33.0	3	27.4	—	—	—	103.3
Composite Cross	4116	2	46.7	2	42.1	3	32.6	3	31.2	—	—	—	102.3
Tennessee Winter 66	3546	2	42.9	2	44.8	3	34.9	3	30.3	—	—	—	102.5
Tennessee Beardless 6	2746	2	35.7	2	38.6	3	30.1	2	27.8	—	—	—	95.4
Ran River	2163	2	44.2	2	40.2	3	36.9	3	32.3	—	—	—	103.0
Tennessee Winter	6034	2	34.8	2	49.9	3	40.6	3	30.3	—	—	—	104.4

See footnote at end of table.

TABLE 34.—*Acre yields of varieties of barley grown at agricultural experiment stations in Virginia in 1 or more of the years 1937–41—Continued*

Station and variety	C. I. No.	Number of plots and acre yield										Relative yield 1937–41 compared with stand- ard	
		1937		1938		1939		1940		1941			
		Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Arlington—Continued.													
Smooth Awn 203	6267	2	36.8	2	40.1	3	26.6	3	25.1	—	—	86.3	
Woods Hooded	6255	2	31.9	2	31.4	3	49.6	3	26.3	—	—	93.4	
Hooded 11	6373	1	38.8	2	31.0	3	29.2	1	18.0	—	—	78.3	
Nakano Wase 45	—	—	—	1	49.2	3	53.1	3	26.5	—	—	116.2	
Nakano Wase 51	7057	—	—	1	40.5	1	41.7	1	35.8	—	—	106.3	
Tennessee Winter X													
Smooth Awn	6565	—	—	2	34.3	3	34.4	3	32.5	—	—	91.3	
Virginia Hooded	—	—	—	1	56.0	1	35.8	1	15.5	—	—	78.8	
Brugh 23	6491	—	—	1	38.0	1	51.3	1	18.0	—	—	78.8	
Brugh 76	6477	—	—	1	38.0	1	55.2	1	22.8	—	—	86.6	
Nakano Wase 58	7056	2	42.0	1	42.0	1	40.6	1	28.3	—	—	99.3	
Nakano Wase 53	6269	2	30.2	2	42.5	1	37.5	—	—	—	—	92.6	
Composite Cross 111	6144	—	—	—	—	1	25.2	1	22.5	—	—	68.4	
Gaddis	6003	2	31.7	2	34.1	—	—	—	—	—	—	82.9	
Hooded 6	6270	2	36.7	2	33.6	—	—	—	—	—	—	88.5	
Missouri Early Beard- less	6051	—	—	—	—	—	—	1	30.8	—	—	101.7	
Blacksburg:													
Sunrise 1	6272	10	51.8	10	29.1	3	13.7	3	26.4	3	19.6	28.1	
Tennessee Winter	6034	10	51.7	10	37.7	3	16.3	3	33.4	3	23.2	32.5	
Nakano Wase 53	6269	10	51.0	10	22.5	3	14.3	3	30.6	3	19.3	27.3	
Nakano Wase 58	7056	10	47.6	10	23.6	3	14.5	3	28.3	3	27.1	28.2	
Smooth Awn 85	—	10	43.9	10	31.4	3	17.2	3	40.1	3	29.2	32.4	
Orel	351	10	69.7	10	27.4	3	16.9	3	33.1	3	22.1	32.2	
Smooth Awn 90	7029	10	55.3	10	31.7	3	16.2	3	28.5	3	24.7	31.3	
Hooded 11	6373	10	42.0	10	24.8	3	8.6	3	15.9	3	28.4	23.9	
Kentucky 11	6021	10	53.9	10	23.8	3	14.8	3	33.8	3	27.8	30.8	
Tennessee Beardless 6	2746	10	41.4	10	26.3	3	11.2	3	31.2	3	20.8	26.3	
Smooth Awn 86	6268	10	44.3	10	33.2	3	10.8	3	38.0	3	31.3	31.6	
Tennessee Winter 66	3546	10	59.4	10	40.6	3	19.2	3	40.5	3	20.9	36.1	
Uswa	4690	10	49.2	10	30.1	3	16.2	3	21.1	3	25.2	28.4	
Nakano Wase 45	—	10	60.7	10	34.7	3	18.1	3	27.4	3	19.8	32.1	
Rowan	3672	10	35.4	10	23.3	3	11.3	3	26.5	3	25.2	24.3	
Hooded 32	—	10	39.9	10	23.2	3	14.1	3	13.8	3	36.6	30.9	
Smooth Awn 203	6267	10	53.9	10	29.5	3	11.0	3	30.4	3	21.1	39.6	
Nakano Wase 59	6367	10	61.8	10	36.5	3	12.3	3	34.5	3	20.0	31.6	
Hooded 16	6373	10	37.7	10	26.3	3	15.0	3	20.6	3	21.8	39.2	
Tennessee Winter 2	—	10	37.2	10	33.0	3	17.8	3	33.4	3	18.9	28.5	
Tennessee Winter 9	—	10	40.1	10	30.6	3	15.5	3	44.4	3	21.2	30.8	
Tennessee Winter 11	—	10	42.1	10	35.0	3	12.9	3	41.5	3	21.2	30.5	
Tennessee Winter 17	—	10	41.2	10	36.5	3	14.6	3	28.9	3	23.8	29.0	
Tennessee Winter 18	—	10	37.7	10	32.0	3	9.7	3	36.1	3	27.2	28.5	
Tennessee Winter 19	—	10	41.7	10	39.5	3	14.2	3	39.1	3	23.2	31.5	
Tennessee Winter 20	—	10	46.1	10	33.6	3	9.6	3	40.3	3	27.5	31.4	
Mechanical Mixture	4115	—	—	10	52.2	3	16.3	3	35.3	3	20.9	95.4	
Poland 18	—	—	—	10	33.9	3	18.6	3	41.8	3	28.4	138.2	
Composite Cross	5461	—	—	10	38.5	3	18.4	3	42.7	3	24.1	139.1	
Do	4116	—	—	10	36.2	3	17.8	3	42.8	3	23.8	135.8	
Alaska	534	—	—	10	36.7	3	14.1	3	34.2	3	22.9	121.3	
Tennessee Winter X													
Smooth Awn	6565	—	—	10	26.5	3	12.5	3	34.5	3	28.1	114.4	
Tennessee Winter	257	—	—	10	34.4	3	14.3	3	33.0	3	17.5	111.7	
Wisconsin Winter	2159	—	—	10	35.7	3	7.9	3	24.8	3	21.6	101.4	
Tennessee Winter X													
Abyssinian (37)	6236	—	—	10	21.3	3	4.0	3	15.2	3	18.6	66.6	
Hooded 6	6270	—	—	10	30.7	3	10.0	3	16.6	3	15.7	82.2	
Smooth Awn 88	7028	10	36.1	—	—	3	6.7	3	31.0	3	18.9	85.1	
Smooth Awn Selection (Sta. No. Md. 15-8)	6495	10	54.1	—	—	3	5.9	3	19.9	3	16.5	86.3	
Nakano Wase 51	7057	10	59.8	—	—	3	11.8	3	18.4	3	18.6	97.4	
Nakano Wase	754-3	10	29.6	—	—	3	6.5	3	23.8	3	19.5	71.2	
Nakano Wase 63	—	10	63.6	—	—	3	7.5	3	19.5	3	23.5	102.3	
Hooded 15	—	10	44.7	—	—	3	9.0	3	27.7	3	20.0	90.9	
Hooded 21	—	10	40.7	—	—	3	12.0	3	15.6	3	14.0	73.8	
Woods Hooded	6235	10	45.9	—	—	3	9.3	3	21.1	3	23.8	91.6	
Hooded 10	6563	10	43.7	—	—	3	7.9	3	17.5	3	28.4	87.4	
Omugi	5144	—	—	—	—	3	7.3	3	33.0	3	26.9	112.6	
Borun	5249	—	—	—	—	3	6.7	3	34.2	3	22.3	105.9	
Shonan	5355	—	—	—	—	3	8.5	3	30.7	3	23.9	104.0	

See footnote at end of table.

YIELDS OF BARLEY, 1937-41

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TABLE 34.—*Acre yields of varieties of barley grown at agricultural experiment stations in Virginia in 1 or more of the years 1937-41—Continued*

Station and variety	C. I. No.	Number of plots and acre yield										Relative yield com- pared with stand- ard	
		1937		1938		1939		1940		1941			
		Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Blacksburg—Continued.													
Marnobarb	6120												
Brugh 23	6491												
Brugh 76	6477												
Kentucky 1	6050												
Staunton:													
Marnobarb 1	6120												
Hooded 16	6574												
Smooth Awn 203	6267												
Smooth Awn 86	6268												
Poland	6280												
Sunrise	6272												
Tennessee Winter	6034												
Wisconsin Winter	2159												
Glade Spring:													
Nakano Wase 58	7056												
Nakano Wase 51	7057												
Nakano Wase	734-5												
Nakano Wase 59	6567												
Marnobarb	6120												
Virginia Hooded	2	21.9	2	30.3	2	41.1							
Tennessee Winter	2	44.8	2	44.4	2	65.4							
Smooth	2	45.1	2	34.8									
Slightly Awned	2	45.8	2	32.0									
Smooth Awned	2	35.6											

¹ Standard with which other varieties are compared for comparable years.

WASHINGTON

Washington Agricultural Experiment Station, Pullman..... O. E. Barbee.
 Adams Branch Experiment Station, Lind..... H. D. Jacquot.
 Irrigation Branch Experiment Station, Prosser..... H. P. Singleton.

TABLE 35.—*Acre yields of varieties of barley grown at agricultural experiment stations in the State of Washington in 1 or more of the years 1937-41*

[Data obtained through the courtesy of the Washington Agricultural Experiment Station]

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield com- pared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Pullman:														
Spring-town														
Rutlyn 1	6374	2356	4	77.8	4	153.6	4	54.7	4	45.0	4	52.0	36.6	
Boldi Giant	2777	967	4	67.1	4	49.8	4	58.0	4	43.4	4	47.9	100.0	
Blue	1247	973	4	74.6	4	50.6	4	62.4	4	43.6	4	54.1	94.0	
Horsford	1775	873	4	65.7	4	40.4	4	46.5	4	38.1	4	38.0	100.8	
Trebi	936	1176	4	67.0	4	48.0	4	55.2	4	44.4	4	39.4	52.8	
Hannchen	4841	2911	4	67.7	4	52.6	4	55.6	4	42.2	4	33.2	93.3	
Composite Cross	4116	3212	4	69.3	4	57.0	4	49.8	4	33.4	4	44.2	88.8	
Flynn 37	5918	3230	4	85.6	4	64.5	4	60.4	4	43.5	4	30.4	50.7	
Winter Club	592	957	4	64.6	4	53.7	4	39.7	4	42.1	4	30.2	107.5	
Atlas	4118	2687	4	58.1	4	34.8	4	41.0	4	43.5	4	36.6	91.9	
Belford	7060	3399							2	33.0	4		96.2	
													71	

See footnotes at end of table.

^a Deceased.

TABLE 35.—*Acre yields of varieties of barley grown at agricultural experiment stations in the State of Washington in 1 or more of the years 1937-41—Continued.*

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield 1937-41 compared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Pullman—Con.				Bu.		Bu.		Bu.		Bu.		Bu.		
Spring-town —Continued.													Percent	
Wisconsin Barbless	5105	2875	4	47.9	4	36.7	4	44.8					69.5	
O. A. C. 21	1470	3137	4	57.6	4	49.2	4	43.0					80.5	
Mechanical Mix- ture	4115	2486	4	60.7	4	55.3	4	43.5					85.7	
Oil	6251												44.1	
Velvet	4252	2134	4	41.3	4	31.9							55.7	
Fall-sown														
Winter Club	592	957	4	71.5	4	82.0	4	69.9	4	54.8	4	64.2	68.5	
Wisconsin Winter	1894	971	4	53.3	4	63.8	4	51.9	4	50.7	4	47.4	53.4	
Olympia	6107	2799	4	57.5	4	62.3	4	51.1	4	45.6	4	35.6	50.4	
Lind:														
Meloy	1176	1343	3	13.8	3	21.4	3	11.3	6	6.8	3	25.3	15.7	
Hanchen	531	1175	3	18.9	3	20.0	3	10.4	6	11.2	3	22.0	16.5	
Rufflyn	6374	2356											81.8	
Flynn	5918	3230											101.6	
Composite Cross selection	7058	3400											102.8	
(Do.)	7059	3401											104.7	
California Mariout	1453	3213											50.2	
Belford	7060	3399											121.1	
Prosser:	1247	973	3	61.2	2	49.5	3	32.9	3	49.2			100.0	
Blue	6374	2356											93.3	
Rufflyn														

¹ Standard with which other varieties are compared for comparable years.² No data in 1941, due to error in harvesting.

WEST VIRGINIA

West Virginia Agricultural Experiment Station, Morgantown—R. O. Weibel,
University Experiment Farms, Kearneysville

In care of R. O. Weibel, Morgantown.

Lakin Experiment Farm, Lakin—In care of R. O. Weibel, Morgantown.

Cooperative Trials, Arthurdale—In care of R. O. Weibel, Morgantown.

Cooperative Trials, Marlinton—In care of R. O. Weibel, Morgantown.

Cooperative Trials, Lewisburg—In care of R. O. Weibel, Morgantown.

TABLE 36.—*Acre yields of varieties of barley grown at agricultural experiment stations in West Virginia in 1 or more of the years 1937-41*

(Data obtained through the courtesy of the West Virginia Agricultural Experiment Station)

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield 1937-41 compared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Morgantown:				Bu.		Bu.		Bu.		Bu.		Bu.	Percent	
Union Winter	583	2	4	27.7	4	49.8	4	36.0	5	70.2	4	25.9	41.9	
Tennessee Winter	52	3543	21	4	27.6	4	45.0	4	33.3	5	71.6	4	20.4	
Tennessee Winter	22	357	4	30.4	4	43.8	4	31.4	5	58.9	4	26.2	38.1	
Kentucky 1	6050	16	4	47.8	4	61.8	4	29.0	5	64.2	4	24.3	34.4	

See footnotes at end of table.

TABLE 36.—*Acre yields of varieties of barley grown at agricultural experiment stations in West Virginia in 1 or more of the years 1937-41—Continued*

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield compared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Morgantown—Con.														
Kentucky 2	6148	17	4	36.2	4	49.4	4	32.3	5	73.2	4	25.7	103.4	
Han River	2163	18	4	30.1	4	45.2	4	35.9	5	65.4	4	23.6	90.0	
Wisconsin Winter	2159	26	4	32.7	4	50.0	4	33.4	5	72.1	4	21.0	41.3	
Pidor	901	27	4	31.4	4	45.4	4	33.3	5	72.0	4	32.6	102.4	
Scottish Pearl	277	28	4	40.4	4	46.1	4	39.1	5	67.2	4	25.6	103.7	
Tuckwiller	7061	31	4	32.2	4	52.6	4	35.0	5	68.8	4	30.8	104.7	
Folk	7062	32	4	38.3	4	49.2	4	29.8	5	69.9	4	27.9	102.6	
Poland	6280	36	4	49.9	4	50.9	4	35.0	5	66.4	4	29.6	110.6	
Orel	351	23	4	28.1	4	45.2	4	36.1	5	50.1	4	12.3	32.4	
Kentucky 11	6021	15	4	31.9	4	48.7	4	29.8	5	65.0	4	28.3	40.7	
Tennessee Beard- less 6	2746	25	4	26.9	4	30.3	4	27.2	5	53.8	4	24.0	32.4	
North Carolina Hooded	5951	20	4	25.8	4	34.4	4	41.5	5	59.2	4	32.1	38.6	
West Virginia 1-35-274	7039	43	4	65.7	4	40.2	4	45.4	5	60.8	4	32.1	48.8	
Tennessee Beard- less 5	3384	13	4	32.5	4	26.3	4	25.7			4	26.3	79.5	
Alaska	4106	19	4	28.7	4	45.1	4	28.4			4	21.5	88.7	
Eswa	4690	24	4	29.6	4	49.5	4	30.5			4	25.7	97.1	
Marnobarb	6120	38							4	25.1	5	63.2	21.1	
Missouri Early Beardless	6051	37							4	45.6	5	50.4	36.9	
Smooth Awn 86	6268	41								4	30.1		16.2	
Sunrise	6272	42									4	15.2	58.7	
Hooded 16	6374										4	10.8	41.7	
Kearneysville:														
Union Winter ¹	583	2	4	32.4	4	23.1	4	20.2	5	31.5	4	24.7	22.4	
Tennessee Winter	52	21	4	18.2	4	25.8	4	20.2	5	15.1	4	22.8	24.5	
Kentucky 1	6050	16	4	29.8	4	33.0	4	17.8	5	11.0	4	26.3	23.6	
Kentucky 2	6148	17	4	31.7	4	27.4	4	18.8	5	10.1	4	25.1	24.6	
Pidor	901	27	4	29.7	4	26.3	4	31.2	5	12.7	4	21.6	108.8	
Scottish Pearl ¹	277	28	4	33.3	4	26.2	4	25.1	5	12.8	4	25.8	24.6	
Tuckwiller	7061	31	4	31.0	4	23.7	4	19.4	5	15.3	4	21.0	22.3	
Tennessee Beard- less 6	2746	25	4	23.1	4	22.2	4	18.8	5	10.6	4	19.7	18.9	
North Carolina Hooded	5951	20	4	27.1	4	25.8	4	25.2	5	12.4	4	22.6	22.6	
Poland	6280	36	4	32.6	4	29.0	5	17.6	4	33.7			142.0	
Missouri Early: Beardless	6051	37							5	9.3	4	21.7		
West Virginia 1-35-274	7039	43								5	12.6	4	21.9	
Kentucky 11	6021	15	4	30.3	4	29.4	4	19.0	5	10.0			103.0	
Lakin ² :														
Union Winter ¹	583	2	5	0	5	53.2	5	37.5	5	59.5	5	46.8	39.4	
Tennessee Winter	52	21	5	0	5	59.6	5	31.1	5	54.3	5	44.3	37.9	
Kentucky 1	6050	16	5	0	5	46.3	5	31.9	5	55.9	5	54.5	37.7	
Kentucky 2	6148	17	5	0	5	53.1	5	34.9	5	58.5	5	50.0	39.5	
Pidor	901	27	5	0	5	56.7	5	36.2	5	54.9	5	56.6	40.9	
Scottish Pearl	277	28	5	0	5	49.9	5	37.3	5	61.1	5	49.1	39.5	
Tuckwiller	7061	31	5	0	5	49.9	5	31.3	5	55.0	5	45.7	36.4	
Poland	6280	36	5	0	5	44.4	5	34.1	5	53.6	5	47.3	35.9	
Tennessee Beard- less 6	2746	25	5	0	5	28.1	5	32.9	5	49.8	5	43.4	30.8	
North Carolina Hooded	5951	20	5	0	5	50.4	5	40.1	5	50.8	5	52.2	38.7	
Missouri Early: Beardless	6051	37							5	51.7	5	53.7		
West Virginia 1-35-274	7039	43								5	63.1	5	49.3	
Han River	2163	18	5	0	5	50.7	5	34.9	5	51.9			91.5	
Folk	7062	32	5	0	5	47.6	5	32.6	5	50.4			87.0	
Kentucky 11	6021	15	5	0	5	41.2	5	36.4	5	47.7			83.4	

See footnotes at end of table.

TABLE 36.—*Acre yields of varieties of barley grown at agricultural experiment stations in West Virginia in 1 or more of the years 1937-41—Continued*

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Average yield, 1937-41	Relative yield com- pared with stand- ard
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Percent
Arthurdale:														
Union Winter 1	583	2	4	21.6	4	6.3	4	0	5	31.2	4	0	11.8	100.0
Kentucky 1	6050	16	4	10.1	4	16.8	4	0	5	36.4	4	0	12.7	107.1
Kentucky 2	6148	17	4	13.5	4	9.0	4	0	5	31.3	4	0	10.8	91.0
Han River	2163	18	4	22.0	4	6.1	4	0	5	30.8	4	0	11.8	99.7
Pidor	901	27	4	26.8	4	6.7	4	0	5	37.2	4	0	14.1	119.6
Scottish Pearl	277	28	4	30.3	4	7.4	4	0	5	28.0	4	0	13.1	111.2
Tuckwiller	7061	31	4	12.8	4	7.8	4	0	5	34.4	4	0	11.0	93.1
Folk	7062	32	4	14.2	4	8.4	4	0	5	22.2	4	0	9.0	75.8
Kentucky 11	6021	15	4	5.1	4	12.4	4	0	5	19.8	4	0	7.5	63.1
Tennessee Beard- less 6	2746	25	4	20.3	4	6.5	4	0	5	26.5	4	0	10.7	90.2
North Carolina Hooded	5951	20	4	20.2	4	5.9	4	0	5	34.6	4	0	12.1	102.7
Poland	6280	36	4	9.5	4	0	5	27.2	4	0	0	0	97.9	
Missouri Early														
Beardless	6051	37							5	29.4	4	0		94.2
West Virginia I-35-274	7039	43							5	39.0	4	0		125.0
Marlinton:														
Union Winter 1	583	2			4	28.3	4	66.2						100.0
Kentucky 1	6050	16			4	25.0	4	49.4						92.1
Kentucky 2	6148	17			4	28.1	4	58.9						90.8
Tennessee Winter 52	3543	21			4	39.6	4	52.9						90.2
Pidor	901	27			4	39.8	4	60.5						98.9
Scottish Pearl	277	28			4	37.4	4	52.3						90.5
Tuckwiller	7061	31			4	27.9	4	68.4						89.8
Poland	6280	36			4	31.0	4	57.8						90.6
North Carolina Hooded	5951	20			4	39.6	4	36.0						92.0
Tennessee Beard- less 6	2746	25			4	33.9	4	39.5						92.2
Lewisburg:														
Union Winter 4	583	2							4	27.0				100.0
Kentucky 1	6050	16							4	31.0				14.8
Kentucky 2	6148	17							4	33.1				30.0
Tennessee Winter 52	3543	21							4	30.6				13.3
Pidor	901	27							4	29.1				107.8
Scottish Pearl	277	28							4	33.0				122.2
Tuckwiller	7061	31							4	30.4				112.6
Poland	6280	36							4	30.0				111.1
North Carolina Hooded	5951	20							4	25.1				93.0
Tennessee Beard- less 6	2746	25							4	25.4				94.1
Missouri Early														
Beardless	6051	37							4	26.2				97.0
West Virginia I-35-274	7039	43							4	26.7				98.9

¹ Standard with which other varieties are compared for comparable years.² Tests destroyed by flood at Lakin in 1937.³ Tests winter-killed at Arthurdale in 1939 and were killed by May freeze in 1941.

WISCONSIN

Wisconsin Agricultural Experiment Station, Madison B. D. Leith.
 Marshfield Branch Station, Marshfield. In care of E. J. Delwiche, Green Bay.
 Ashland Branch Station, Ashland In care of E. J. Delwiche, Green Bay.
 Sturgeon Bay Branch Station, Sturgeon Bay In care of E. J. Delwiche, Green Bay.

TABLE 37.—*Acre yields of varieties of barley grown at agricultural experiment stations in Wisconsin in 1 or more of the years 1937-41*

[Data obtained through the courtesy of the Wisconsin Agricultural Experiment Station. Superscripts (in italics) indicate number of times recurrent variety was used as a parent]

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield compared with standard	
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Madison:														
Wisconsin Barleyless ¹	5105	Ped.38	4	26.6	4	32.9	4	23.6	4	49.0	4	49.0	36.2	100.0
Oderbrucker	4666	Ped.5-1	4	17.5	4	17.7	4	25.0	4	39.6	4	34.9	26.9	74.4
Peatland	5267		4	37.2	4	31.6	4	25.8	4	48.5	4	41.6	36.9	102.0
Wisconsin Barleyless X Newal	7069	X193-2-1-2										4	47.1	96.1
Ioplus	6239	131	4	20.8	4	27.1	4	23.6	4	39.4				84.0
Chevron	1111		4	35.4	4	27.4	4	23.2	4	42.1				95.5
Manchurian	6492	122-3	4	21.3	4	24.1								76.3
Manchurian	2947		4	14.8	4	19.0								56.8
Velvet	4252		4	19.5	4	23.8								72.8
Newal	6088		4	21.7	4	28.9								85.0
Trebi	936		4	26.7	4	27.9								91.8
Regal	5030	132	4	22.0	4	28.5								84.9
Lion X Oderbrucker ²		X128-5-5-3	4	20.8	4	24.3								75.8
Lion X Oderbrucker ²		X163-1-S	4	21.7	4	25.5								79.3
Lion X Oderbrucker ²		X120-5-26-12-3-1	4	20.1	4	25.2								76.1
(Lion X Oderbrucker ²) X July		X156-8-4-4-3	4	15.7										39.0
Marshfield:														
Wisconsin Barleyless ¹	5105	Ped.38	3	15.0	3	43.0	3	25.4	4	54.2	4	29.9	35.5	100.0
Oderbrucker	4666	Ped.5-1	3	14.0	3	41.2	3	29.8	4	52.6	4	35.0	34.1	101.9
Velvet	4232		3	15.6	3	39.9	3	26.9	4	46.5	4	32.0	32.2	96.1
Newal	6088		3	14.3	3	44.9	3	22.0	4	38.8	4	30.4	30.1	89.8
Peatland	5267													
Ashland:														
Wisconsin Barleyless ¹	5105	Ped.38	4	7.0	3	19.4	3	21.9	3	45.5	2	20.9	22.9	100.0
Oderbrucker	4666	Ped.5-1	4	3.9	3	13.5	3	16.7	3	36.1	2	18.8	17.8	77.6
Peatland	5267		4	11.7	3	17.0	3	21.0	3	46.7	2	29.0	25.1	109.3
Newal	6088		4	10.6	3	14.3	3	13.2	3	41.2	2	18.5	19.6	85.3
Velvet	4252													
Sturgeon Bay:														
Wisconsin Barleyless ¹	5105	Ped.38	3	26.3	4	19.9	3	47.0	4	41.4	4	36.9	34.3	100.0
Oderbrucker	4666	Ped.5-1	3	23.1	4	11.9	3	38.0	4	30.9	4	32.2	27.2	79.4
Velvet	4252		3	27.8	4	14.7	3	37.3	4	36.5	4	35.0	30.3	88.2
Newal	6088		3	34.2	4	20.6	3	39.3	4	38.2	4	35.8	33.6	98.0
Peatland	5267													
Trebi	936													

¹ Standard with which other varieties are compared for comparable years.

WYOMING

Wyoming Agricultural Experiment Station, Laramie ----- R. F. Eslick.
 United States Dry Land Field Station, Sheridan ----- R. S. Towle.

TABLE 38.—*Acre yields of varieties of barley grown at agricultural experiment stations in Wyoming in 1 or more of the years 1937-41*

[Data for Laramie obtained through the courtesy of the Wyoming Agricultural Experiment Station; for Sheridan, through the courtesy of the Division of Dry Land Agriculture in cooperation with the station]

Station and variety	C. I. No.	Station No.	Number of plots and acre yield										Relative yield compared with standard, 1937-41	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Laramie:														
Trebi ¹	936	I-1	5	86.1	5	70.5	9	17.1	4	51.0	4	97.7	64.7	100.0
Odessa	182	I-7	1	108.4	1	76.2	1	54.7	4	73.8	4	100.1	182.6	127.8
Glabron	4577	I-5	1	63.6	1	61.7	1	20.7	4	57.9	4	85.8	37.9	89.6
Horn	926	I-2	1	73.5	1	87.7	2	22.5				4	89.5	100.6
Wisconsin Barbless	5105	I-3										4	62.5	102.8
Beecher	6566	I-6										4	91.3	93.2
Ilico	6279	I-4										4	66.3	112.2
Charlottetown	80	I-12	1	97.9	1	86.3	1	24.3	4	65.2				121.3
Spartan	5027	I-17		73.0		58.2		28.7		58.1				96.6
Vaughn	1367	I-16		70.2		58.7		25.6		42.3				87.2
Comfort	4578	I-15		63.5		56.0		17.1		61.9				88.0
O. A. C. 21	4707	I-10		91.4		64.0		22.4						102.4
Coast	690	I-9		95.7		81.6		27.2						119.5
Belci Giant	2777	I-8	1	104.6	1	79.0	1	42.0						139.9
White Smyrna	658	I-14		97.2		84.7		35.4						125.1
Hannchen	331	I-13	1	92.6	1	71.3	1	31.5						112.5
Nepal	593	I-17				1	67.0	1	10.7					88.7
Sheridan:														
Trebi	936	3	37.1	3	63.4	3	62.6	3	41.6	3	54.6	51.9	100.0	
Vaughn	1367	3	35.2	3	68.0	3	37.0	3	33.6	3	56.6	46.1	88.9	
Velvyn	6109	3	40.9	3	67.6	3	63.4	3	35.9	3	61.5	53.9	103.9	
Spartan	5027	3	41.6	3	60.0	3	40.5	3	36.3	3	52.7	46.2	89.1	
Horn	926	3	26.0	3	53.3	3	57.7	3	33.6	3	58.1	45.8	88.5	
Coast	690	3	37.1	3	60.0	3	54.8	3	33.2	3	58.8	45.2	87.1	
Meloy	1176	3	35.9	3	56.5	3	45.6	3	32.1	3	50.1	43.6	84.1	
Ezond	6263	3	42.8	3	60.0	3	50.4	3	39.7	3	62.3	51.0	95.4	
Wisconsin Barbless	5105	3		61.9	3	42.0	3	35.9	3	53.3				87.0
Atlas	4118						3	55.4	3	38.9	3	64.2		99.8
Beecher	6566	Moscow 9				3	38.2	3	37.5	3	63.4			87.6
Compano	5438										3	59.6		109.2
Nepal	593	3	34.4	3	42.0	3	29.8	3	28.3					65.7
Glabron	4577	3	238.2	3	56.9	3	41.6							83.8
Velvet	4252	3	435.5	3	52.7	3	36.7							76.6

¹ Standard with which other varieties are compared for comparable years.

² Damaged by Mormon crickets.

ALBERTA

Experimental Station, Lacombe..... F. H. Reed, superintendent.
 Experimental Station, Lethbridge..... W. H. Fairfield, superintendent.
 University of Alberta, Edmonton..... A. G. McCalla, professor of field crops.
 Experimental Station, Beaverlodge..... W. D. Albright, superintendent.
 Experimental Station, Fort Vermilion..... A. Lawrence, officer in charge.

TABLE 39.—*Acre yields of varieties of barley grown at agricultural experimental stations in Alberta in 1 or more of the years 1937-41*

[Data for Lacombe, Lethbridge, Beaverlodge, and Fort Vermilion were obtained through the courtesy of the Dominion Experimental Farms; and for Edmonton, through the courtesy of the University of Alberta]

Station and variety	C. I. No.	C. A. ¹ No.	Number of plots and acre yield											
			1937		1938		1939		1940		1941		Average yield, 1937-41	Relative yield compared with stand-ard
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Lacombe:				Bu.		Bu.		Bu.		Bu.		Bu.		Percent
O. A. C. 21 ²	1470	1086	4	65.5	4	72.3	4	57.6	4	64.4	4	70.3	66.0	100.0
Newal	6088	1089	4	71.2	4	82.5	4	71.5	4	86.4	4	80.4	78.4	118.8
Olli	6231	739	4	55.9	4	69.9	4	42.6	4	62.0	4	58.9	57.9	87.6
Plush	6093	1106	4	65.0	4	78.8	4	57.4	4	75.1	4	86.1	72.5	109.8
Rex	6618	1113	4	58.1	4	71.9	4	50.4	4	52.9	4	68.7	60.4	91.8
Sanalta	6087	1088	4	83.1	4	84.5	4	66.0	4	63.0	4	77.0	74.8	113.3
Trebi	936	1115	4	68.2	4	78.6	4	62.2	4	39.4	4	85.1	66.7	101.0
Titan	7055	1118	4	29.5	4	63.3	4	56.0	4	76.1	4	91.4	63.3	95.8
Regal	5030	742	4	62.0	4	81.2	4	58.1	4	66.7				103.2
Lethbridge:														
<i>Irrigated</i>														
O. A. C. 21 ²	1470	1086	4	63.1	4	70.5	4	87.6	4	95.7	4	65.0	76.4	100.0
Byng	6089	1096	4	103.4	4	62.3	4	101.2	4	109.0	4	69.3	89.0	116.6
Newal	6088	1089	4	25.2	4	82.3	4	110.2	4	96.9	4	80.1	92.9	121.7
Olli	6231	739	4	67.2	4	75.6	4	88.7	4	109.5	4	74.8	83.2	108.9
Plush	6093	1106	4	76.2	4	80.5	4	97.3	4	97.9	4	73.5	85.1	111.4
Rex	6618	1113	4	77.2	4	63.0	4	79.6	4	77.6	4	55.5	70.6	92.4
Sanalta	6087	1088	4	71.8	4	75.3	4	98.3	4	113.3	4	76.2	87.0	113.8
Trebi	936	1115	4	103.8	4	86.0	4	121.2	4	102.2	4	69.8	96.0	126.5
Titan	7055	1118	4	80.3	4	66.8	4	71.3	4	111.0	4	60.9	78.0	102.2
Regal	5030	742	4	78.4	4	67.9		115.9	4	71.9				113.5
<i>Dry land</i>														
O. A. C. 21 ³	1470	1086	4	61.8	4	39.0	4	33.6	4	49.9				100.0
Newal	6088	1089	4	76.1	4	46.3	4	38.1	4	54.5				116.7
Olli	6231	739	4	56.0	4	38.3	4	33.6	4	34.2				88.0
Sanalta	6087	1088	4	59.7	4	46.6	4	39.3	4	53.3				107.9
Trebi	936	1115	4	68.0	4	66.5	4	39.3	4	64.2				129.1
Plush	6093	1096	4	4		55.5	4	39.8	4	43.6				113.4
Rex	6618	1106	4	4		48.5	4	44.3	4	50.0				116.6
Titan	7055	1113	4	4		50.7	4	33.6	4	50.4				110.0
Regal	5030	742	4	57.5		4		36.5	4	41.2				107.9
Edmonton:														
O. A. C. 21 ²	1470	1086	4	0	4	28.2	4	0	4	64.6	4	35.1	25.6	100.0
Newal	6088	1089	4	0	4	29.7	4	0	4	64.7	4	48.3	28.5	111.6
Olli	6231	739	4	0	4	32.5	4	0	4	58.9	4	37.3	25.7	100.6
Plush	6093	1106	4	0	4	43.3	4	0	4	74.3	4	35.9	30.7	120.0
Regal	5030	742	4	0	4	33.2	4	0	4	56.4	4	42.2	26.4	103.0
Rex	6618	1113	4	0	4	31.9	4	0	4	62.4	4	51.1	29.1	113.7
Sanalta	6087	1088	4	0	4	41.3	4	0	4	61.3	4	42.7	27.9	113.8
Trebi	936	1115	4	0	4	30.6	4	0	4	70.8	4	35.7	27.4	107.2
Titan	7055	1118	4	0	4	23.7	4	0	4	55.8	4	33.7	26.6	104.1
Beaverlodge:														
O. A. C. 21 ²	1470	1086	4	46.6	4	14.0	4	25.0	4	41.5	4	54.0	36.2	100.0
Byng	6089	1096	4	50.5	4	19.2	4	31.3	4	48.7	4	61.5	42.3	116.7
Newal	6088	1089	4	50.3	4	22.7	4	31.3	4	47.1	4	55.5	41.4	114.2
Olli	6231	739	4	42.6	4	15.2	4	29.3	4	49.7	4	54.2	38.2	105.6
Plush	6093	1106	4	59.9	4	20.7	4	32.3	4	62.8	4	62.9	47.7	131.8
Regal	5030	742	4	42.8	4	23.8	4	31.2	4	39.7	4	59.3	39.4	108.7
Rex	6618	1113	4	40.3	4	18.7	4	31.8	4	51.3	4	55.0	39.4	108.8
Titan	7055	1118	4	41.4	4	20.1	4	30.7	4	44.7	4	44.7	36.3	100.3
Fort Vermilion:														
O. A. C. 21 ²	1470	1086	4	34.8	4	28.2	4	24.5	4	16.7	4	63.8	33.4	100.0
Olli	6231	739	4	32.4	4	26.4	4	31.7	4	21.7	4	61.4	34.7	104.0
Regal	5030	742	4	28.4	4	27.8	4	29.1	4	21.5	4	70.3	35.4	106.0
Newal	6088	1089	4	—	4	22.1	4	34.5	4	19.0	4	68.5	—	109.0

¹ C. A. = Canadian Accession number, used in this and subsequent tables.² Standard with which other varieties are compared for comparable years.³ Crop failure in 1937 due to drought and in 1939 due to hail.

BRITISH COLUMBIA

Experimental Farm, Agassiz..... W. H. Hicks, superintendent.

TABLE 40.—Acre yields of varieties of barley grown at the experimental farm at Agassiz, British Columbia, for 1 or more of the years 1937-41

(Data obtained through the courtesy of the Dominion Experimental Farms)

Variety	C. I. No.	C. A. No.	Number of plots and acre yield										Relative yield, com- pared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Yield Bu.	Plots	Yield Bu.	Plots	Yield Bu.	Plots	Yield Bu.	Plots	Yield Bu.		
Trebi ¹	939	1115	4	44.7	4	52.5	4	50.7	4	45.7	4	100.0		
Olli.....	6251	739	4	48.1	4	38.6	4	50.3	4	49.5	4	96.4		
Byng.....	6059	1096	4	48.1	4	61.5	4	55.4	4	46.4	4	103.1		
Nobbarb.....	5356	1022	4	48.1	4	50.6	5	51.7	4	50.3	4	102.6		
Plush.....	6093	1106	4	47.1	4	52.0	4	55.1	4	55.1	4	103.7		
Wisconsin Barbless.....	5105	1101	4	36.5	4	53.3	4	53.3	4	57.7	4	99.1		
Regal.....	5070	742	4	37.9	4	53.3	4	44.2	4	44.2	4	97.4		
Titan.....	7055	1118	4	49.1	4	48.0	4	48.0	4	100.7				

¹ Standard with which other varieties are compared for comparable years.

MANITOBA

Experimental Farm, Brandon..... M. J. Tinline, superintendent.

Experimental Station, Morden..... W. R. Leslie, superintendent.

University of Manitoba, Winnipeg..... P. J. Olson, professor of plant science.

TABLE 41.—Acre yields of varieties of barley grown at agricultural experimental stations in Manitoba in 1 or more of the years 1937-41

(Data for Brandon and Morden were obtained through the courtesy of the Dominion Experimental Farms; for Winnipeg, through the courtesy of the University of Manitoba)

Station and variety	C. I. No.	C. A. No.	Number of plots and acre yield										Relative yield, com- pared with stand- ard	
			1937		1938		1939		1940		1941			
			Plots	Yield Bu.	Plots	Yield Bu.	Plots	Yield Bu.	Plots	Yield Bu.	Plots	Yield Bu.		
Brandon:														
O. A. C. 21 ¹	1470	1086	4	54.1	4	50.5	4	51.9	4	57.6	4	68.1	56.4	
Newal.....	6088	1089	4	58.2	4	69.6	4	43.9	4	62.3	4	71.8	61.4	
Peatland.....	5267	1112	4	53.6	4	57.6	4	50.0	4	49.7	4	58.4	49.9	
Plush.....	6093	1106	4	68.2	4	69.4	4	160.7	4	66.7	4	75.6	68.1	
Trebi.....	936	1115	4	63.4	4	69.9	4	45.4	4	66.1	4	53.3	59.6	
Wisconsin Barbless.....	5105	1101	4	62.2	4	60.2	4	46.7	4	52.1	4	74.3	59.1	
Gartons.....	7016	1134	4	31.9	4	32.4	4	40.4	4	40.4	4	73.6		
Morden:														
O. A. C. 21 ¹	1470	1086	4	68.9	4	61.2	4	40.1	4	67.4	4	54.5	58.4	
Newal.....	6088	1089	4	76.5	4	72.3	4	49.1	4	78.6	4	47.7	64.8	
Peatland.....	5267	1112	4	57.2	4	63.2	4	26.1	4	53.3	4	39.5	51.6	
Plush.....	6093	1106	4	79.5	4	69.8	4	158.1	4	73.8	4	56.0	67.4	
Trebi.....	936	1115	4	47.4	4	46.2	4	44.1	4	60.8	4	72.4	46.3	
Wisconsin Barbless.....	5105	1101	4	63.4	4	64.9	4	39.5	4	63.6	4	45.3	53.3	
Gartons.....	7016	1134	4	29.5	4	36.8	4	27.6	4	27.6	4	70.3		
Winnipeg:														
O. A. C. 21 ¹	1470	1086	4	50.8	4	45.9	4	59.6	4	49.9	4	39.4	49.1	
Newal.....	6088	1089	4	45.1	4	54.4	4	62.3	4	58.4	4	49.9	54.0	
Peatland.....	5267	1112	4	52.3	4	51.6	4	55.8	4	53.5	4	45.3	52.3	
Plush.....	6093	1106	4	69.3	4	50.5	4	171.4	4	166.1	4	156.8	127.9	
Trebi.....	936	1115	4	60.1	4	52.3	4	167.2	4	162.4	4	155.0	120.9	
Wisconsin Barbless.....	5105	1101	4	60.0	4	49.4	4	165.2	4	175.1	4	155.4	124.2	
Gartons.....	7016	1134	4	32.1	4	40.3	4	28.7	4	28.7	4	81.3		

¹ Standard with which other varieties are compared for comparable years.

NEW BRUNSWICK

Experimental Station, Fredericton..... C. F. Bailey, superintendent.

TABLE 42.—*Acre yields of varieties of barley grown at the experimental station at Fredericton, New Brunswick, in 1 or more of the years 1937-41*

{Data obtained through the courtesy of the Dominion Experimental Farms}

Variety	C. I. No.	C. A. No.	Number of plots and acre yield										Relative yield com- pared with stand- ard, 1937-41	
			1937		1938		1939		1940		1941			
			Plots	Yield Bu.	Plots	Yield Bu.	Plots	Yield Bu.	Plots	Yield Bu.	Plots	Yield Bu.		
O. A. C. 21 ¹	1470	1086	4	40.9	4	35.4	4	41.9	4	55.7	4	45.3	43.4	100.0
Byng	6089	1096	4	44.2	4	41.5	4	42.7	4	72.8	4	52.5	50.7	116.8
Charlottetown 80	2732	817	4	45.0	4	36.5	4	42.3	4	61.2	4	42.7	45.5	104.8
Noharb	6335	1022	4	42.7	4	36.8	4	40.9	4	55.1	4	46.7	44.6	102.8
Olli	6251	739	4	43.9	4	36.3	4	51.4	4	67.2	4	45.5	48.9	112.5
Velvet	4252	755	4	37.5	4	34.9	4	36.0	4	61.7	4	43.1	42.6	98.2

¹ Standard with which other varieties are compared for comparable years.

NOVA SCOTIA

Experimental Farm, Nappan..... W. W. Baird, superintendent.

TABLE 43.—*Acre yields of varieties of barley grown at the experimental farm at Nappan, Nova Scotia, in 1 or more of the years 1937-41*

{Data obtained through the courtesy of the Dominion Experimental Farms}

Variety	C. I. No.	C. A. No.	Number of plots and acre yield										Relative yield com- pared with stand- ard, 1937-41	
			1937		1938		1939		1940		1941			
			Plots	Yield Bu.	Plots	Yield Bu.	Plots	Yield Bu.	Plots	Yield Bu.	Plots	Yield Bu.		
O. A. C. 21 ¹	1470	1086	4	48.2	4	47.1	4	47.3	4	46.3	4	38.1	45.4	100.0
Byng	6089	1096	4	56.1	4	52.0	4	59.1	4	53.7	4	39.9	52.2	114.9
Charlottetown 80	2732	817	4	47.0	4	42.3	4	50.3	4	57.1	4	35.5	46.4	102.3
Noharb	6335	1022	4	51.1	4	43.0	4	48.2	4	54.0	4	33.7	46.4	102.2
Olli	6251	739	4	51.3	4	52.6	4	58.7	4	63.5	4	38.9	53.4	117.6
Velvet	4252	755	4	41.7	4	45.9	4	46.2	4	57.3	4	33.1	40.8	90.0

¹ Standard with which other varieties are compared for comparable years.

ONTARIO

Central Experimental Farm, Ottawa—P. R. Cowan, senior assistant cerealist.
 Experimental Station, Kapuskasing—J. P. S. Ballantyne, superintendent.
 Ontario Agricultural College, Guelph
 —G. P. McRostie, professor of agronomy.

TABLE 44.—*Acre yields of varieties of barley grown at agricultural experimental stations in Ontario in 1 or more of the years 1937-41*

[Data for Ottawa and Kapuskasing obtained through the courtesy of the Dominion Experimental Farms; for Guelph, through the courtesy of the Ontario Agricultural College]

Station and variety	C. I. No.	C. A. No.	Number of plots and acre yield										Relative yield compared with standard, 1937-41	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Ottawa:														
O. A. C. 21 ²	1470	1086	4	44.0	4	36.6	4	35.9	4	57.0	4	0	34.7	
Byng	6089	1096	4	52.3	4	43.8	4	54.4	4	58.7	4	0	41.8	
Nobarb	6335	1022	4	36.5	4	48.0	4	45.2	4	52.2	4	0	40.8	
Pinsh	6093	1106	4	36.9	4	38.4	4	45.6	4	62.0	4	0	36.6	
Velvet	4252	739	4	52.4	4	35.9	4	42.4	4	55.1	4	0	36.8	
Kapuskasing:														
O. A. C. 21 ²	1470	1086	4	51.4	4	45.9	4	42.2	4	53.5	4	74.1	33.4	
Byng	6089	1096	4	47.0	4	63.3	4	54.2	4	72.4	4	87.5	64.9	
Nobarb	6335	1022	4	45.3	4	35.7	4	50.0	4	60.9	4	76.0	57.7	
Velvet	4252	739	4	49.9	4	49.8	4	40.6	4	58.3	4	72.9	54.3	
Olli	6251	739	4	48.9	4	47.3	4	49.4	4	51.1	4	73.2	54.4	
Guelph:														
O. A. C. 21 ²	1470	1086	4	24.3	4	28.7	4	23.0	4	31.2	4	34.2	28.3	
Byng	6089	1096	4	32.9	4	42.7	4	47.0	4	46.1	4	42.8	42.2	
Nobarb	6335	1022	4	45.8	4	46.2	4	42.3	4	53.6	4	41.1	46.2	
Velvet	4252	739	4	38.7	4	45.9	4	38.9	4	45.7	4	37.5	41.3	

¹ Crop failure in 1941 due to drought.

² Standard with which other varieties are compared for comparable years.

PRINCE EDWARD ISLAND

Experimental Station, Charlottetown—J. A. Clark, superintendent.

TABLE 45.—*Acre yields of varieties of barley grown at the experimental station, Charlottetown, Prince Edward Island, in 1 or more of the years 1937-41*

[Data obtained through the courtesy of the Dominion Experimental Farms]

Variety	C. I. No.	C. A. No.	Number of plots and acre yield										Relative yield compared with standard, 1937-41	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
O. A. C. 21 ²	1470	1086	4	21.3	2	—	2	45.0	4	45.8	4	23.9	100.0	
Byng	6089	1096	4	32.7	2	—	2	47.1	4	53.0	4	34.8	123.2	
Charlottetown 80	2732	817	4	41.9	2	—	2	52.3	4	50.1	4	33.5	130.7	
Nobarb	6335	1022	4	31.0	2	—	2	49.9	4	57.1	4	26.9	121.3	
Olli	6251	739	4	45.8	2	—	2	51.3	4	55.2	4	35.6	138.3	
Velvet	4252	739	4	27.2	2	—	2	46.0	4	55.3	4	26.1	113.7	

¹ Crop failure in 1938 due to poor location of plots and to weeds.

² Standard with which other varieties are compared for comparable years.

QUEBEC

Experimental Station, Ste. Anne de la Pocatiere
-----J. R. Pelletier, superintendent.
 Experimental Station, Lennoxville-----J. A. Ste. Marie, superintendent.
 Macdonald College, Ste. Anne de Bellevue
-----Emile A. Lods, assistant professor of agronomy.
 Experimental Station, Normandin-----A. Belzile, superintendent.

TABLE 46.—*Acre yields of varieties of barley grown at agricultural experimental stations in Quebec in 1 or more of the years 1937-41*

[Data from Ste. Anne de la Pocatiere, Lennoxville, and Normandie obtained through the courtesy of the Dominion Experimental Farms and for Macdonald College, at Ste. Anne de Bellevue, through the courtesy of Macdonald College]

Station and variety	C. I. No.	C. A. No.	Number of plots and acre yield										Relative yield compared with standard, 1937-41	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.		
Ste. Anne de la Pocatiere:														
O. A. C. 21 ¹	1470	1086	4	69.8	4	57.4	4	70.5	4	28.5	4	67.7	59.8	100.0
Byng	6089	1096	4	67.5	4	51.4	4	78.2	4	32.2	4	67.8	59.4	101.1
Nobarb	6335	1022	4	67.9	4	51.6	4	68.2	4	37.5	4	67.7	58.0	98.6
Velvet	4252	755	4	66.8	4	47.5	4	65.4	4	27.4	4	57.8	52.6	89.5
Lennoxville:														
O. A. C. 21 ¹	1470	1086	4	79.7	4	38.5	4	38.4	4	62.1	4	50.5	53.8	100.0
Byng	6089	1096	4	98.2	4	42.5	4	125.5	4	59.4	4	47.5	54.6	101.4
Nobarb	6335	1022	4	75.2	4	27.1	4	25.3	4	54.0	4	38.5	44.0	81.8
Velvet	4252	755	4	82.9	4	36.3	4	37.5	4	61.1	4	48.7	53.3	99.0
Ste. Anne de Bellevue:														
O. A. C. 21 ¹	1470	1086	4	49.7	4	58.7	4	57.8	4	46.7	4	40.3	50.6	100.0
Byng	6089	1096	4	56.2	4	63.2	4	73.4	4	55.9	4	51.1	60.0	118.4
Velvet	4252	755	4	47.9	4	53.4	4	61.8	4	48.9	4	44.9	51.4	101.5
Nobarb	6335	1022	4	48.5	4	62.9	4	69.6	4	50.9				108.9
Plush	7030	1117	4	42.9	4	63.9	4	72.4	4	51.8				108.5
Olli	6251	739	4	49.9	4	58.9	4	59.9	4	59.7				107.3
Newal	6088	1089	4	49.1	4	52.3	4	62.8						94.5
Haanchen	4841	837	4	42.2	4	56.9	4	74.6						104.3
Pontiac	4849	741	4	42.7	4	57.2	4	65.9						99.8
Charlottetown 60	2732	817	4	45.3	4	53.6	4	63.2						97.5
Pentland	5267	722	4	39.2	4	49.6	4	62.8						90.7
Mensury O. C. 60	4696	730	4	42.8	4	54.6	4	58.9						94.0
Wisconsin Barbless	5105	1101	4	40.9	4	61.6								94.6
Regal	5030	742	4	50.9	4	56.1								98.7
Normandin:														
O. A. C. 21 ¹	1470	1086				1	59.2	3	25.4	4	53.5	4	54.7	100.0
Byng	6089	1096				1	77.6	3	41.4	4	76.8	4	61.2	133.3
Nobarb	6335	1022				1	66.2	3	27.7	4	64.7	4	57.9	112.3
Velvet	4252	755				1	50.9	3	23.7	4	50.5	4	58.5	100.0

¹ Standard with which other varieties are compared for comparable years.

SASKATCHEWAN

Experimental Farm, Indian Head W. H. Gibson, superintendent.
 Experimental Station, Melfort M. J. McPhail, superintendent.
 University of Saskatchewan, Saskatoon J. B. Harrington, professor of agronomy.
 Experimental Station, Scott G. D. Matthews, superintendent.
 Experimental Station, Swift Current L. B. Thomson, superintendent.

TABLE 47.—*Acre yields of varieties of barley grown at agricultural experimental stations in Saskatchewan in 1 or more of the years 1937-41*

[Data for Indian Head, Melfort, Swift Current, and Scott obtained through the courtesy of the Dominion Experimental Farms; and for Saskatoon, through the courtesy of the University of Saskatchewan.]

Station and variety	C. I. No.	C. A. No.	Number of plots and acre yield										Relative yield compared with standard	
			1937		1938		1939		1940		1941			
			Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Plots	Bu.	Per cent	
Indian Head:														
O. A. C. 21 ¹	1470	1086	4	19.6	4	15.1	4	35.6	4	46.5	4	28.5	29.1	100.0
Hannchen	531	1109	4	35.0	4	20.0	4	43.2	4	68.9	4	49.1	42.8	147.4
Newal	6088	1089	4	32.8	4	15.9	4	46.0	4	52.0	4	46.6	38.7	133.2
Plush	6093	1106	4	35.2	4	35.7	4	50.8	4	62.5	4	58.5	48.5	167.0
Prospect	6339	1074	4	32.3	4	17.8	4	46.6	4	58.2	4	41.3	39.2	135.0
Regal	5030	742	4	32.8	4	10.8	4	44.6	4	52.5	4	44.2	36.9	136.8
Rex	6618	1113	4	30.4	4	22.9	4	50.7	4	59.6	4	59.2	42.6	146.5
Titan	7055	1118							4	71.5	4	51.0		163.3
Melfort:														
O. A. C. 21 ¹	1470	1086	4	5.9	4	52.0	4	63.7	4	47.5	4	24.7	34.8	100.0
Newal	6088	1089	4	13.8	4	29.2	4	63.3	4	53.5	4	29.7	38.2	109.8
Plush	6093	1106	4	5.9	4	30.3	4	66.8	4	56.7	4	35.1	37.0	106.3
Wisconsin Barbless	5105	1101	4	4.5	4	38.4	4	46.6	4	57.6	4	33.8	36.1	103.7
Regal	5030	742	4	9.2	4	26.1	4	62.6	4	57.8	4	27.6	36.7	105.5
Petland	5267	1112	4	2.5	4	41.2	4	54.3			4	25.1		97.5
Trebi	936	1115	4	17.8	4	23.7	4	69.3			4	24.2		108.5
Olli	6231	739	4	12.7	4	25.1			4	59.1	4	27.7		113.2
Gartons	7016	1134							4	63.9	4	51.9	4	106.7
Rex	6618	1113			4	27.5			4	29.5				100.5
Saskatoon:														
O. A. C. 21 ¹	1470	1086	4	1.9	4	15.0	6	59.5	6	33.0	6	11.2	24.1	100.0
Hannchen	531	1109	4	8.9	4	24.5	6	58.7	6	45.5	6	16.6	30.8	127.7
Regal	5030	742	4	3.1	4	20.5	6	63.5	6	38.9	6	8.1	26.8	111.2
Rex	6618	1113	4	2.6	4	29.1	6	65.9	6	36.3	6	10.4	28.9	119.7
Trebi	936	1115	4	3.4	4	17.5	6	67.5	6	34.5	6	18.2	28.6	118.7
Newal	6088	1089	4	1.9	4	26.9			6	43.4	6	11.2		139.1
Plush	6093	1106	4	3.8	4	23.0			6	41.9	6	13.4		134.4
Prospect	6339	1074	4	4.1	4	19.5			6	32.6	6	16.2		118.5
Scott: ²														
O. A. C. 21 ¹	1470	1086	4	0	4	18.1	4	15.9	4	21.5	4	9.8	13.1	100.0
Hannchen	531	1109	4	0	4	25.8	4	23.9	4	33.2	4	13.1	19.6	150.1
Newal	6088	1089	4	0	4	26.6	4	21.0	4	39.6	4	16.4	20.7	158.7
Plush	6093	1106	4	0	4	24.1	4	21.9	4	31.3	4	9.5	17.4	132.9
Prospect	6339	1074	4	0	4	23.1	4	33.7	4	32.4	4	13.8	20.6	157.7
Regal	5030	742	4	0	4	23.7	4	22.3	4	27.2	4	10.2	16.7	127.7
Rex	6618	1113	4	0	4	24.4	4	31.3	4	26.8	4	12.9	19.1	146.1
Titan	7055	1118							4	28.3	4	11.0		125.6
Swift Current: ²														
Regal ¹	5030	742	4	0	4	32.8	4	48.3	4	48.2	4	4.8	26.8	100.0
Newal	6088	1089	4	0	4	29.0	4	32.1	4	51.8	4	5.2	34.3	90.3
Plush	6093	1106	4	0	4	28.4	4	30.9	4	41.6	4	5.6	21.3	79.4
Prospect	6339	1074	4	0	4	32.3	4	49.3	4	53.7	4	9.3	38.9	107.8
Rex	6618	1113	4	0	4	32.2	4	46.0	4	50.7	4	7.3	27.2	101.6
Titan	7055	1118	4	0	4	33.1			4	50.3	4	9.2		107.9

¹ Standard with which other varieties are compared for comparable years.² Crop failure in 1937 due to drought.

HIGH-YIELDING VARIETIES (TABLE 48)

TABLE 48.—*High-yielding varieties grown at experiment stations in the United States and Canada in the years 1937-41*

Station	When sown	5-year period 1937-41				Showing promise in less than 5 years		
		Highest yielding variety	C. I. or State No.	Second highest yielding variety	C. I. or State No.	Number of years	Variety	C. I. or State No.
<i>United States</i>								
Alabama:								
Auburn	Fall					1	Marnobarb	6120
Belle Mina	do					2	Tennessee Beardless 5	3384
Crossville	do					2	Marnobarb	6120
Marion Junction	do					3	do	6120
Arizona:								
Mesa	do	Arivat	6573	Vaughn	1367	2	California Mariout	1455
Sacaton ¹	do	Common Six-Row	4625	Trebi	936	3	Vaughn	1367
Arkansas:								
Fayetteville	do	Orel	351	Tenkow	646			
Do. 1	Spring	Stavropol	5913	Vaughn	1367	1	Jackson	6569
Stuttgart	Fall							
California:								
Davis	do	Vaughn	1367	Coast	4633	1	Rojo	5401
Colorado:								
Fort Collins ¹	Spring	Trebi × Colsess	6369	Velvon	6109			
Akron	do	Blackhull 1180	6009	Vance	4585	4	Beecher	6566
Hesperus	do	Lico	6279	Trebi × Colsess	6369	2	Arivat	6573
Delaware:								
Newark	Fall	Kentucky 20	6994	Manchuria	2947	2	Smooth Awn 86	6268
Milford	do	do	6994	Michigan Winter	2036	2	do	6268
Georgia:								
Experiment ¹	do	Greece × Tenn. Beardless 5	6998	Texas Winter	554	2	Sunrise	6272
Athens	do	Greece	4593	Argentine	4594			
Idaho:								
Moscow	Spring	Atlas × Vaughn	Moscow 35	Atlas × Vaughn	Moscow 38			
Aberdeen	do	Trebi	936	Composite Cross selection	5302	3	Hannchen × Minia	7005
Sandpoint	do	Hannchen	531	Beldi Giant	2777			

See footnote at end of table.

TABLE 48.—High-yielding varieties grown at experiment stations in the United States and Canada in the years 1937-41—Continued

Station	When sown	5-year period 1937-41				Showing promise in less than 5 years		
		Highest yielding variety	C. I. or State No.	Second highest yielding variety	C. I. or State No.	Number of years	Variety	C. I. or State No.
<i>United States—Continued.</i>								
Illinois:								
Urbana	Spring	Trebi	930	Wisconsin Barbless	5105			
Do	Fall	Purdue 1101	4582	Purdue 21	4581	2	Purdue 28156A3-2-2-2	6562
Alhambra	Spring	Kentucky 1	6050	Purdue 21	4581	2	Spartan	5027
Do	Fall	Trebi	930	Wisconsin Barbless	5105	4	Purdue 1101	4582
De Kalb	Spring							
Indiana:								
La Fayette	Fall	Kentucky 1	6050	Purdue 1101	4582			
Do	Spring	Alpha	959	Spartan	5027			
North Vernon	Fall	Purdue 21	4581	Missouri Early Beardless	6051	4	Kentucky 1	6050
Bedford	do	do	4581	do	6051	4	do	6050
Bicknell	do	do	4581	do	6051	4	do	6050
Iowa:								
Ames ¹	Spring	Wisconsin Barbless	5105	Spartan	5027			
Kanawha	do	do	5105	Velvet	4252			
Kansas:								
Manhattan	Fall							
McLouth	do	Kansas Southeast strain	7070	Missouri Early Beardless	6051	2	Ward	6007
Columbus ¹	do	Reno	6561	Kansas Southeast strain	7070	4	Reno	6361
Thayer	do					2	Ward	6007
Wichita	Spring	Flynn	1311	Stavropol	5913	3	Reno	6361
Do	Fall					4	Stavropol	6376
Kingman	Spring	Stavropol	5913	Flynn	1311		Kansas South-central strain	
Do	Fall	Kansas South-central strain	6370	Missouri Early Beardless	6051	2	Ward	6007
Hutchinson	Spring					3	Flynn	1311
Do	Fall					1	Kansas South-central strain	6376
Hays	Spring	Flynn 1	5911	Vaughn	1367	1	Glacier	6976
Colby	do	do	5911	do	1367	2	Beecher	6566
Tribune	do	Flynn	1311	Stavropol	5913	1	do	6566
Garden City	do	Stavropol	5913	Flynn 1	5911			
Dodge City ¹	do	Flynn	1311	Vaughn	1367			
Meade ¹	do	Vaughn	1367	Flynn	1311			
Maine:								
Presque Isle	do	Byng	6089	Alpha	959			
Maryland:								
College Park	Fall	Tennessee Winter	257	Smooth Awn 86	6268	3	Tennessee Winter	6034

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Michigan:								
East Lansing	Spring	Wisconsin Barbless	5105	Trebi	936	2	Nobarb	6335
Minnesota:								
St. Paul	do	do	5105	Minsturdi	1550	1	Mars	7015
Waseca	do	Peatland	5267	do	1556	4	Wisconsin Barbless	5105
Morris	do	Wisconsin Barbless	5105	Peatland	5267	1	Mars	7015
Crookston	do	do	5105	do	5267	1	Minnesota 462 X Peatland	7011
Grand Rapids	do	Velvet	4252	do	5267	4	Wisconsin Barbless	5105
Duluth	do	Wisconsin Barbless	5105	do	5267	1	Mars	7015
Mississippi:								
State College ¹	Fall	Texas Winter	6498	Tennessee Winter 52	3543	2	Wintex	6127
Sioneville	do					3	Texan	6499
Missouri:								
Columbia (nursery plots)	do	Pidor	901	Kentucky 5	7018	3	Randolph	6372
Columbia (field plots)	do					2	Reno	6561
Montana:								
Bozeman	Spring	Trebi	936	Smooth Awn X Manchuria	5998	1	Glacier	6976
Moccasin	do	Compana	5438	Trebi	936	1	do	6976
Havre	do	Ezond	5064	do	936	1	do	6976
Huntley	do					2	Atlas X Vaughn	6973
Nebraska:								
Lincoln	do	Flynn 1	5911	Club Mariout	261	3	Lico	6279
North Platte ¹	do	North Platte 1	5266	Sandrel	937	3	Velvon	6109
Alliance	do	Ezond	6265	Trebi	936			
Valentine	do					1	Trebi	936
New Jersey:								
New Brunswick	do	Trebi	936	Alpha	959	1	Queens	7021
Do	Fall	Kentucky 1	6050	Michigan Winter	2036	1	Nassau	7022
New Mexico:								
State College ¹	do	New Mexico Winter 2	7066	New Mexico Winter 1	7065	3	Texas Winter	6498
Do ¹	Spring	Trebi	936	Conway	6095	3	Atlas X Vaughn	7064
Albuquerque ¹	do	Flynn	1311	Atlas X Vaughn	7064	1	Velvon	6109
Capulin ¹	do	Odessa	182	Wisconsin Barbless	5105			
New York:								
Ithaca	do	Swiss Spring 87	7025	Alpha X Goldfoil	N. Y. 504a11-5-2			
North Carolina:								
Statesville	Fall	Composite Cross selection	7027	Davidson	6373	4	Sunrise	6272
North Dakota:								
Fargo	Spring	Tregal	6359	Ezond	6265	3	Velvon	6109
Dickinson	do	Trebi	936	do	6265	4	Regal X Trebi	6358
Mandan ¹	do	Ezond	6265	Trebi	936	3	Tregal	6359

See footnote at end of table.

TABLE 48.—High-yielding varieties grown at experiment stations in the United States and Canada in the years 1937–41—Continued

Station	When sown	5-year period 1937–41				Showing promise in less than 5 years		
		Highest yielding variety	C. I. or State No.	Second highest yielding variety	C. I. or State No.	Number of years	Variety	C. I. or State No.
<i>United States—Continued.</i>								
Oklahoma:								
Stillwater	Fall	Tenkow	646	Manchuria	245	2	Ward	6007
Do	Spring	Limerick	1302	Club Maricout	261			
Lawton ¹	Fall	Wisconsin Winter	519	Eswa	4690	2	Texan	6499
Woodward	Spring	Blackhull 1180	6009	Atlas	4118	3	Beecher	6566
Do	Fall	Composite Cross selection	Okla. 35h9-5	Composite Cross selection	Oklahoma, 35h10-3	4	Wintex	6127
Oregon:								
Corvallis ¹	do	do	Oreg. 38	Santiam	6367	2	Composite Cross selection	Oreg. 63
Do	Spring	Hannchen	531	Composite Cross selection	Oreg. 45	4	do	Oreg. 47
Moro	do	Peruvian 19	6568	Flynn 37	5918	1	Atlas	4118
Pendleton	do	Flynn 37	5918	Trebi	936	1	Arivat	6573
Union	do	Trebi	936	Odessa	182	2	Composite Cross selection	Oreg. 32855
Burns ¹	do	do	936	Union Beardless	5976			
Pennsylvania:								
State College ¹	Fall	Kentucky 1	6050	Olympia	6107			
Do ¹	Spring	Alpha	959	Wisconsin Barbless sel.	7000	3	ZZ Second	6299
South Carolina:								
Clemson	Fall	Marett's Beardless	7041	Clemson Awnless	7040	4	Clemson Hooded	7042
South Dakota:								
Brookings	Spring	Ezond	6265	Spartan	5027	2	Han River	S. Dak. 1348
Highmore ¹	do	Trebi	936	Ace	1853	3	Ezond	6265
Eureka	do					2	do	6265
Newell (irrigated) ¹	do	White Smyrna	195	Trebi	936	1	Compana	5438
Newell (dry-farmed)	do					1	Beecher	6566
Tennessee:								
Knoxville	Fall	Tennessee Winter 52	3543	Polders	3213	1	Jackson 1	7045
Columbia	do					1	do	7045
Jackson	do					1	do	7045

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Texas:									
Denton	Fall	Wintex	6127	Bailey	5902	2	Tenkow		646
Greenville	do	do	6127	Tennessee Winter	6125	1	do		646
Temple	do	Composite Cross selection	6502	Texan	6499	4	Wintex		6127
Iowa Park	do	Finley	5901	Tennessee Winter 61	3545				
Chillicothe	do	Texan	6499	Composite Cross selection	6500				
Bushland	Spring								
Do.	Fall								
Lubbock	do	Wintex	6127				Amarillo		7047
Do.	Spring	Ve.von	6109	Composite Cross selection	Oreg. 54	3	Wintex		6127
				North Platte I	5266	3			
Utah: Logan	do	Winter Club	592	Velvon	6109	1	Velvon 5		7054
Virginia:									
Arlington	Fall	Smooth Awn 86	6268	Esaw	4690	3	Nakano Wase 45		
Blacksburg	do	Tennessee Winter 66	3546	Orel	351	2	Kentucky 1		6050
Staunton	do					3	Poland		6280
Glade Spring	do					3	Tennessee Winter		
Washington:									
Pullman	Spring	Flynn 37	5918	Blue	1247				
Do	Fall	Winter Club	592	Wisconsin Winter	1894				
Lind	Spring	Hannchen	531	Meloy	1176	1	Belford		7060
Prosser	do					4	Blue		1247
West Virginia:									
Morgantown	Fall	West Virginia 1-35-274	7039	Poland	6280	1	Smooth Awn 86		6268
Kearneysville	do	Scottish Pearl	277	Kentucky 2	6148	4	Poland		6280
Lakin	do	Pidor	901	Scottish Pearl	277	2	West Virginia 1-35-274		7039
Arthurdale	do	do	901	do	277	2	do		7039
Marlinton	do					2	Union Winter		583
Lewisburg	do					1	Kentucky 2		6148
Wisconsin:									
Madison	Spring	Peatland	5267	Wisconsin Barbless	5105				
Marshfield	do	Oderbrucker	4666	do	5105	3	Peatland		5267
Ashland	do	Peatland	5267	do	5105				
Sturgeon Bay	do	Wisconsin Barbless	5105	Newal	6088	2	Trebi		936
Wyoming:									
Laramie	do	Odessa	182	Trebi	936	2	Lico		6279
Sheridan	do	Velvon	6109	do	936	3	Atlas		4118

See footnote at end of table.

TABLE 48.—High-yielding varieties grown at experiment stations in the United States and Canada in the years 1937-41—Continued

Station	When sown	5-year period 1937-41			Showing promise in less than 5 years			
		Highest yielding variety	C. I. or State No.	Second highest yielding variety	C. I. or State No.	Number of years	Variety	C. I. or State No.
<i>Canada</i>								
Alberta:								
Lacombe	Spring	Newal	6088	Sanalta	6087			
Lethbridge (irrigated)	do	Trebi	936	Newal	6088			
Lethbridge (dry land)	do	do	936	do	6088	3	Plush	6093
Edmonton	do	Plush	6093	Sanalta	6087			
Beaverlodge	do	do	6093	Byng	6089			
Fort Vermilion	do	Regal	5030	Olli	6251	4	Newal	6088
British Columbia:	Agassiz	Trebi	936	do	6251	3	Plush	6093
Manitoba:								
Brandon	do	Plush	6093	Newal	6088			
Morden	do	do	6093	do	6088			
Winnipeg	do	do	6093	Wisconsin Barbless	5103			
New Brunswick:	Frederickton	do	Byng	6089	Olli	6251		
Nova Scotia:	Nappau	do	Olli	6251	Byng	6089		
Ontario:								
Ottawa	do	Byng	6089	Velvet	4252			
Kapuskasing	do	do	6089	Nobarb	6335			
Guelph	do	Nobarb	6335	Byng	6089			
Prince Edward Island:	Charlottetown	do	Olli	6251	Charlottetown 80	2732		
Quebec:								
Ste. Anne de la Pocatiere	do	Byng	6089	O. A. C. 21	1470			
Lennoxville	do	do	6089	do	1470			
Ste. Anne de Bellevue	do	do	6089	Velvet	4252	4	Nobarb	6335
Normandin	do	do	6089	Nobarb	6335			
Saskatchewan:								
Indian Head	do	Plush	6093	Hannchen	531	2	Titan	7055
Melfort	do	Newal	6088	Plush	6093	4	Olli	6251
Saskatoon	do	Hannchen	531	Rex	6618	4	Newal	6088
Scott	do	Newal	6088	Prospect	6339			
Swift Current	do	Prospect	6339	Rex	6618	4	Titan	7055

¹ Yields for 4 years only.

SEASON SOWN, REPLICATIONS, AND SIZE OF PLOTS USED (TABLE 49)

TABLE 49.—*Season when sown, number of replications, and type and size of plot used for yield tests at experiment stations in the United States and Canada in the years 1937-41*

Station	When sown	Number of replications, ¹ type and size of plot															
		1937				1938				1939				1940			
		Replications	Type of plot		Replications	Type of plot		Replications	Type of plot		Replications	Type of plot		Replications	Type of plot		
			Field	Nursery		Field	Nursery		Field	Nursery		Field	Nursery		Field	Nursery	
<i>United States</i>		Number	Acres	Square feet	Number	Acres	Square feet	Number	Acres	Square feet	Number	Acres	Square feet	Number	Acres	Square feet	
Alabama:																	
Auburn	Fall	2	1/60		2	1/60									2	1/60	
Belle Mina	do	2	1/60		2	1/60									2	1/60	
Crossville	do														2	1/60	
Marion Junction	do														2	1/60	
Arizona:																	
Mesa	do	3	1/35		3	1/35									2	1/35	
Sacaton	do	1	1/33		2	1/75									3		285
Arkansas:																	
Fayetteville	Spring																
Do.	Fall	1	1/47		1	1/47									2	1/47	
Stuttgart	do														1	1/47	
California:	Davis	do	5	1/50		5	1/50								3		16
Colorado:																	
Akron	Spring	4	1/45		4	1/45									4	1/45	
Fort Collins	do	10			10										7		16
Hesperus	do	10			16										16		16
Delaware:																	
Milford	Fall	5			20	5									5		60
Newark	do	5			20	5									5		60
Georgia:																	
Athens	do	4	1/60		6	4	1/60								4	1/60	
Experiment	do	6			66	6									10	1/60	22

See footnotes at end of table.

TABLE 49.—Season when sown, number of replications, and type and size of plot used for yield tests at experiment stations in the United States and Canada in the years 1937-41—Continued

Station	When sown	Number of replications, ¹ type and size of plot															
		1937				1938				1939				1940			
		Replications	Type of plot		Replications	Type of plot		Replications	Type of plot		Replications	Type of plot		Replications	Type of plot		
			Field	Nursery		Field	Nursery		Field	Nursery		Field	Nursery		Field	Nursery	
<i>United States—Continued.</i>			Number	Acres	Number	Acres	Square feet	Number									
<i>Idaho:</i>																	
Aberdeen	Spring	3	1/40		3	1/40		3	1/40		2	1/40		3	1/40		16
Moscow	do.	3		16	3		16	3		16	3		16	5			
Sandpoint	do.	2	1/40		2	1/40		2	1/40		2	1/40		2	1/40		
<i>Illinois:</i>																	
Alhambra	do.																
Do.	Fall	5		16	5		16	2	1/10		6	1/35		6	1/35		
De Kalb	Spring	2	1/10		2	1/10		2	1/10		5	1/35		2	1/40		
Urbana	do.	2	1/10		2	1/10		2	1/10		6	1/35		6	1/35		
Do.	Fall	2	1/35		2	1/35		4		66	6		66	6		66	
<i>Indiana:</i>																	
La Fayette	do.	2	1/48		2	1/48		2	1/48		2	1/48		2	1/48		
Do.	Spring	2	1/48		2	1/48		2	1/48		2	1/48		2	1/48		
North Vernon	Fall	1	1/48		1	1/48		1	1/48		1	1/48		1	1/48		
Bedford	do.	1	1/48		1	1/48		1	1/48		1	1/48		1	1/48		
Bicknell	do.	1	1/48		1	1/48		1	1/48		1	1/48		1	1/48		
<i>Iowa:</i>																	
Ames	Spring	2	1/20		2	1/20		2	1/20		2	1/20		2	1/20		
Kanawha	do.	10		20	10		20	10		20	10		20	4		20	
<i>Kansas:</i>																	
Manhattan	do.	3	1/40		3	1/40		3	1/40		3	1/40		3	1/40		
Do.	Fall	1	1/40		1	1/40		1	1/40		1	1/40		1	1/40		
McLouth	do.	3	296		3	296		3	296		3	296		3	296		
Columbus	do.	2	1/83		2	1/83		2	1/83		2	1/83		3	1/83		
Thayer	do.																
Wichita	Spring	4		3110	4		3110	6		3110	3		3110	3		3110	
Do.	Fall	3		3110	2		3110			3110	1		3110	2		3110	
Kingman	Spring	4		3110	4		3110	6		3110	2		3110	2		3110	
Do.	Fall	2		3110	2		3110	2		3110	1		3110	2		3110	

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		Spring					4		4110	2		3110	2		3110	
		Fall														
Hutchinson	do															
Hays	Spring	2	1/50		2	1/50		2	1/50		4	1/50		4	1/50	
Colby	do	3	1/50		3	1/50		3	1/50		3	1/50		3	1/50	
Tribune	do	2	1/30		2	1/30		2	1/30		2	1/30		2	1/30	
Garden City	do	1	1/45		3	1/45		3	1/45		3	1/45		3	1/45	
Dodge City	do				2	1/45		2	1/45		2	1/45		2	1/45	
Meade	do				2	1/60		2	1/60		2	1/60		2	1/60	
Maine: Presque Isle	do	4		32	5		32	5		32	6		32	10		32
Maryland: College Park	Fall	2	1/56		2	1/56		2	1/53		2	1/43		3	1/49	
Michigan: East Lansing	Spring	6		48	6		48	6		48	6		48	6		48
Minnesota:																
Crookston	do	3	1/40		3	1/40		3	1/40		3	1/40		3	1/40	
Duluth	do	3	1/40		3	1/40		3	1/40		3	1/40		3	1/40	
Grand Rapids	do	3	1/40		3	1/40		3	1/40		3	1/40		3	1/40	
Morris	do	3	1/40		3	1/40		3	1/40		3	1/40		3	1/40	
St. Paul	do	3	1/40		3	1/40		3	1/40		3	1/40		3	1/40	
Waseca	do	3	1/40		3	1/40		3	1/40		3	1/40		3	1/40	
Mississippi:																
State College	Fall				6		30	6		30	6		30	6		30
Stoneville	do	4	1/18		4	1/18		4	1/18		6		16	6		32
Missouri:																
Columbia	Nursery plots	do	10		16	10		16	10		16	10		16	10	
	Field plots	do														
Montana:																
Bozeman	Spring	3	1/56		3	1/56		3	1/56		3	1/56		3	1/56	
Havre	do	3	1/50		3	1/50		3	1/50		3	1/50		3	1/50	
Huntley	do							2	1/10		2	1/10		2	1/10	
Moccasin	do	2	1/50		4	1/50		4	1/50		4	1/50		4	1/50	
Nebraska:																
Alliance	do	3	1/19		3	1/19		3	1/19		3	1/19		3	1/21	
Lincoln	do	5	1/40		5	1/40		5	1/40		4	1/40		4	1/40	
North Platte	do	4	1/40		4	1/40		4	1/40		4	1/40		4	1/40	
Valentine	do				2	1/60		2	1/60							

See footnotes at end of table.

TABLE 49.—Season when sown, number of replications, and type and size of plot used for yield tests at experiment stations in the United States and Canada in the years 1937-41—Continued

Station	When sown	Number of replications, ¹ type and size of plot														
		1937			1938			1939			1940			1941		
		Replications	Type of plot	Replications	Type of plot	Replications	Type of plot	Replications	Type of plot	Replications	Type of plot	Replications	Type of plot	Replications	Type of plot	
		Field	Nursery	Field	Nursery	Field	Nursery	Field	Nursery	Field	Nursery	Field	Nursery	Field	Nursery	
<i>United States—Continued.</i>																
New Jersey:		Number	Acres	Square feet	Number	Acres	Square feet	Number	Acres	Square feet	Number	Acres	Square feet	Number	Acres	Square feet
New Brunswick—																
Breeding plots.	Fall	3		12	3		12	3		12	3		12			
Variety plots.	do	10		36	10		36	10		36	10		36	10		36
New Brunswick	Spring	10		36	10		36	10		36	10		36	10		36
New Mexico:																
State College.	Fall	7		23												23
Do.	Spring	7		23												23
Albuquerque.	do															
Capulin.	do	3	1/12		2	1/12		10		6	1/15		5	1/48		3
New York: Ithaca	do	5			15	8		15	8		15	8		15	8	15
North Carolina: Statesville	Fall	10			16	3		16	5		16	5		16	5	16
North Dakota:																
Dickinson.	Spring	4	1/58		4	1/58		4	1/58		4	1/58		4	1/58	
Fargo.	do	3	1/44		3	1/44		3	1/44		3	1/44		3	1/44	
Mandan.	do	3	1/66		3	1/66		3	1/66		3	1/66		3	1/66	
Oklahoma:																
Stillwater.	Fall	4	1/96		4	1/96		4	1/96		4	1/96		4	1/96	
Do.	Spring	4	1/96		4	1/96		4	1/96		4	1/96		4	1/96	
Lawton.	Fall	3	1/50		3	1/50		3	1/50		3	1/50		3	1/75	
Woodward.	Spring	3		20	3		20	3		20	9		20	3		16
Do.	Fall	3		20	3		20	3		20	9		20			
Oregon:																
Corvallis.	do	3	1/40		3	1/40		3	1/40		3	1/40		3	1/40	
Do.	Spring	3	1/40		3	1/40		3	1/40		3	1/40		3	1/40	
Moro.	do	1	1/55		3	1/20		4	1/20		4	1/20		3	1/20	
Pendleton.	do	4	1/53		4	1/53		4	1/53		4	1/53		4	1/53	
Union.	do	3	1/50		3	1/50		3	1/50		3	1/50		3	1/50	
Burns.	do				2	1/20		2	1/20		2	1/20		2	1/20	

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Pennsylvania:																	
State College	Fall	5		16	5		16	5		16	4		16	5		16	
Do	Spring	5		16	5		16	5		16	5		16	5		16	
South Carolina:	Clemson	Fall	11		20	11		20	10		20	10		20	10		20
South Dakota:		Spring	3	1/66		3	1/66		3	1/66		3	1/66		3	1/66	
Brookings	do				1	1/66		3	1/66		3	1/66		3	1/66		
Highmore	do							2	1/50		3	1/50		3	1/66		
Eureka	do																
Newell—	Irrigated	do	3	1/50		3	1/50		3	1/50		3	1/50		3	1/50	
Dry-farmed	do																1/40
Tennessee:																	
Columbia	Fall							5	1/120		5	1/120		5	1/120		
Jackson	do							5	1/144		5	1/144		5	1/144		
Knoxville	do	3	1/14		6	1/112		6	1/72		5	1/65		7	1/110		
Texas:																	
Bushland	Fall							8		10	8		10	8		10	
Do	Spring							6		10	6		10	6		10	
Denton	Fall	4	1/44		4	1/44		4	1/44		4	1/44		4	1/44		
Chillicothe	do				4	1/44		4	1/44		4	1/44		4	1/44		
Iowa Park	do	4	1/100		4		1/100	4		4	1/100		4	1/100		20	
Greenville	do							1/100		4	1/100		4	1/100		20	
Temple	do							20		4	1/100		20	4		20	
Lubbock	do							10		4	1/100		10	4		10	
Do	Spring							3		10	4		10	4		10	
Utah: Logan	do	3	1/59		3	1/75		3	1/40		3	1/63		3	1/60		
Virginia:																	
Arlington	Fall	2	1/80		2	1/80		3	1/80		3	1/80		2	1/80		
Staunton	do							1/50		3	1/50		1	1/50			
Blacksburg	do	10		16	10		16	3		16	3		16	3		16	
Glade Spring	do	2	1/40		2	1/40		2	1/40		2	1/40		2	1/40		
Washington:																	
Lind	Spring	3	1/40		3	1/40		3	1/40		6	1/40		76	3		76
Prosser	do	3	1/40		2	1/40		3	1/40		3	1/40					
Pullman	do	4	1/40		4	1/40		4	1/40		4	1/40		4	1/40		
Do	Fall	4	1/40		4	1/40		4	1/40		4	1/40		4	1/40		
West Virginia:																	
Arthurdale	do	4		16	4		16	4		16	5		16	4		16	
Kearneysville	do	4		16	4		16	4		16	5		16	4		16	
Lakin	do	5		16	5		16	5		16	5		16	4		16	

See footnotes at end of table.

TABLE 49.—Season when sown, number of replications, and type and size of plot used for yield tests at experiment stations in the United States and Canada in the years 1937-41—Continued

Station	When sown	Number of replications, ¹ type and size of plot															
		1937				1938				1939				1940			
		Replications	Type of plot		Replications	Type of plot		Replications	Type of plot		Replications	Type of plot		Replications	Type of plot		
			Field	Nursery		Field	Nursery		Field	Nursery		Field	Nursery		Field	Nursery	
<i>United States—Continued.</i>																	
West Virginia—Continued.	Fall																
Marlinton	do	4		16	4		16	4		16	4		5		16	4	
Morgantown	do															16	
Lewisburg	do															16	
Wisconsin:	Spring	4	1/80		3	1/38		3	1/42		3	1/34		2	1/40		
Ashland	do	4	1/80		4	1/80		4	1/60		4	1/60		4	1/60		
Madison	do	3	1/41		3	1/70		3	1/133		4	1/45		4	1/40		
Marshfield	do	3	1/57		4	1/112		3	1/32		4	1/44		4	1/40		
Sturgeon Bay	do		1/68						1/40								
Wyoming:																	
Laramie	do	1	1/20		1	1/40		1	1/40		4	1/80		4	1/80		
Sheridan	do	3	1/55		3	1/55		3	1/55		3	1/55		3	1/55		
<i>Canada</i>																	
Alberta:																	
Beaverlodge	do	4		16	4		16	4		16	4		16	4		16	
Edmonton	do	4		16	4		16	4		16	4		16	4		16	
Fort Vermilion	do	4		16	4		16	4		16	4		16	4		16	
Lacombe	do	4		16	4		16	4		16	4		16	4		16	
Lethbridge																	
Irrigated	do	4		16	4		16	4		16	4		16	4		16	
Dry land	do															16	
British Columbia: Agassiz	do				4		16	4		16	4		16	4		16	
Manitoba:																	
Brandon	do	4		16	4		16	4		16	4		16	4		16	
Morden	do	4		16	4		16	4		16	4		16	4		16	
Winnipeg	do	4		16	4		16	4		16	4		16	4		16	

New Brunswick: Fredericton	Spring	4		16	4		16	4		16	4		16	4		16
Nova Scotia: Nappan	do	4		16	4		16	4		16	4		16	4		16
Ontario:																
Guelph	do	4		16	4		16	4		16	4		16	4		16
Kapuskasing	do	4		16	4		16	4		16	4		16	4		16
Ottawa	do	4		16	4		16	4		16	4		16	4		16
Prince Edward Island: Charlottetown	do	4		16			2			16	4		16	4		16
Quebec:																
Lennoxville	do	4		16	4		16	4		16	4		16	4		16
Normandin	do	4		1			16	3		16	4		16	4		16
Ste. Anne de Bellevue	do	4		44	4		44	4		44	4		44	4		44
Ste. Anne de la Pocatiere	do	4		16	4		16	4		16	4		16	4		16
Saskatchewan:																
Indian Head	do	4		16	4		16	4		16	4		16	4		16
Melfort	do	4		48	4		48	4		48	4		48	4		48
Saskatoon	do	4		16.5	4		16.5	5		16.5	6		16.5	6		16.5
Scott	do	4		16	4		16	4		16	4		16	4		16
Swift Current	do	4		16	4		16	4		16	4		16	4		16

¹ At some stations the number of replications was not the same for all varieties, and in these cases the modal number of replications is shown.

² Ten samples each 1 rod in length and 7 inches in width taken from each field plot.

² Ten samples each 1 rod in length and 8 inches in width taken from each field plot.

⁴ Five samples of 20 square feet each taken from each field plot.

DESCRIPTION AND ORIGIN OF VARIETIES AND INDEX TO TABLES IN WHICH MENTIONED (TABLE 50)

TABLE 50.—*Description and origin or source of barley varieties tested, arranged alphabetically, with index to tables in which mentioned*

[Explanation of descriptive terms: Rows: 6=6-rowed, 2=2-rowed, D=Deficiens. Kernel cover, H=Hulled, N=Naked. Lemma appendage: R=Rough-awned, S=Smooth-awned, SS=Semi-smooth-awned, H=Hooded, A=Awnless. RS=Mixed, rough, and smooth-awned. Kernel color: B=Blue, W=White, Bk=Black, P=Purple, BW or WB=Mixed predominating color stated first. Rachilla hairs: L=Long, S=Short, LS or SL=Mixed, predominating type stated first. Growth habit: S=Spring type, W=Winter type, SW=Semi-winter type. Superscripts (in italics) indicate number of times recurrent variety was used as a parent]

Variety	C. I. No.	Station No.	Description								Origin or source	Index to tables in which variety appears
			Rows	Kernel cover	Lemma appendage	Color	Rachilla hairs	Growth habit	Avg. per ear	Mm.		
Ace	1853		2	H	R	W	L	S	3.5	3.5	Selection from White Smyrna	30, 48
Admire	6377		6	H	R	B	S	W	3.9	3.9	Local farmer's strain in Kansas	18
Afghan 1	4166		2	H	R	W	L	S	2.2	3.2	Introduced from Afghanistan	8
Afghanistan	4173		2	H	R	W	L	S	3.8	3.8	do	27
Alaska	534		2	H	R	W	L	S	3.3	3.3	Introduced from Alaska	18, 34
Do.	4106		6	H	R	--	--	--	--	--	do	3, 18, 26, 34, 36
Algerian	1179		6	H	R	B	S	S	3.7	3.7	Introduced from Algeria	33
Alpha	939		2	H	R	W	L	S	3.5	3.5	Champion of Vermont X Manchuria	10, 13, 15, 21, 23, 28, 48
Alpha X Goldfoil		N. Y. 504a11-7-5-2	2	H	S	W	L	S	3.6	3.6	Alpha X Goldfoil	23
Do.		N. Y. 504a11-5-1	2	H	S	W	L	S	3.7	3.7	do	23
Do.		N. Y. 504a11-5-2	2	H	S	W	L	S	3.7	3.7	do	23, 48
Do.		N. Y. 504a11-5-3	2	H	S	W	L	S	3.7	3.7	do	23
Do.		N. Y. 504a11-5-4	2	H	S	W	L	S	3.8	3.8	do	23, 28
Do.		N. Y. 504a11-5-7	2	H	S	W	L	S	3.9	3.9	do	23
Do.		N. Y. 504a11-5-11	2	H	S	W	L	S	3.8	3.8	do	23
Do.		N. Y. 504a11-5-12	2	H	S	W	L	S	3.8	3.8	do	23
Do.		N. Y. 504a11-20-18	2	H	S	W	L	S	3.7	3.7	do	23
Do.		1--	2	H	S	W	L	S	3.7	3.7	do	23
Do.		N. Y. 504a11-20-18	3	H	S	W	L	S	3.8	3.8	do	23
Do.		N. Y. 504a12-15-3	2	H	S	W	L	S	3.9	3.9	do	23
Do.		N. Y. 504a12-19-18	5	H	S	W	L	S	3.7	3.7	do	23
Do.		N. Y. 504a23-9-8	2	H	S	W	L	S	3.3	3.3	do	23
Do.		N. Y. 504a23-4-4	2	H	S	W	L	S	3.9	3.9	do	23
Do.		N. Y. 504a23-4-3	2	H	S	W	L	S	3.8	3.8	do	23
Do.		N. Y. 504a25-14-7	2	H	S	W	L	S	4.0	4.0	do	23
Do.		N. Y. 504a25-19-4	2	H	S	W	L	S	3.9	3.9	do	23
Do.		N. Y. 504a26-6-3	2	H	S	W	L	S	3.9	3.9	do	23
Do.		N. Y. 504a27-2-8	2	H	S	W	L	S	3.9	3.9	do	23
Do.		N. Y. 504a28-1-2	2	H	S	W	L	S	3.8	3.8	do	23

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Alpha X Goldfoil	N. Y. 504ar28-17-1	2	H	S	W	LS	S	3.5	Alpha X Goldfoil	23
Do	N. Y. 504ar28-17-3	2	H	S	W	LS	S	3.8	do	23
Amarillo	7047	6	H	R	W	S	S	3.7	Selection from farmer's field in Texas	32, 48
Arabel	896	6	H	R	B	S	W	3.5	Tennessee Winter X Black Arabian	18
Archer	1031	2	H	R	W	S	S	2.4	Introduced from Australia	8
Argentine	4594	6	H	R	B	S	W	2.4	Introduced from Argentine	7, 48
Arivat	6573	Moscow 19	6	H	SS	W	LS	3.4	Atlas X Vaughn	2, 5, 8, 26, 27, 32, 48
Atlas	4118		6	H	R	B	S	3.3	Selection from Coast	4, 8, 19, 20, 22, 26, 27, 30, 32, 33, 35, 38, 48
Atlas X Vaughn	6970	Moscow 1	6	H	S	WB	S	3.4	Atlas X Vaughn	5, 20, 32
Do	7064	Moscow 6	6	H	S	W	S	3.5	do	2, 22, 48
Do	6971	Moscow 8	6	H	SS	B	L	3.4	do	32
Do	6972	Moscow 11	6	H	S	WB	L	3.4	do	32
Do		Moscow 12	6	H	SS	B	L	3.7	do	8
Do	6973	Moscow 13	6	H	SS	WB	LS	3.0	do	5, 19, 32, 48
Do		Moscow 14	6	H	SS	B	LS	3.3	do	8
Do		Moscow 15	6	H	S	W	LS	3.2	do	8
Do		Moscow 16	6	H	SS	B	L	3.5	do	8
Do		Moscow 17	6	H	SS	B	L	3.5	do	8
Do		Moscow 18	6	H	SS	W	LS	3.0	do	8
Do		Moscow 21	6	H	RS	B	SL	3.7	do	8
Do		Moscow 22	6	H	S	WB	SL	3.2	do	12
Do		Moscow 23	6	H	S	WB	L	3.4	do	8
Do		Moscow 24	6	H	R	BW	LS	3.5	do	8
Do		Moscow 25	6	H	S	WB	SL	3.4	do	8
Do		Moscow 26	6	H	SS	W	S	3.3	do	8
Do		Moscow 27	6	H	SS	W	S	3.7	do	8
Do		Moscow 28	6	H	SS	WB	SL	3.5	do	8
Do	6974	Moscow 29	6	H	SS	BW	LS	3.6	do	8, 32
Do	6975	Moscow 31	6	H	S	W	SL	3.8	do	8, 32
Do		Moscow 34	6	H	SS	BW	L	3.8	do	8, 48
Do		Moscow 35	6	H	SS	W	L	3.3	do	8
Do		Moscow 36	6	H	SS	BW	LS	3.3	do	8
Do		Moscow 37	6	H	SS	B	L	3.1	do	8, 48
Do		Moscow 38	6	H	SS	BW	SL	3.4	do	8, 32
Do		Moscow 39	6	H	R	WB	LS	3.7	do	8
Do		Moscow 41	6	H	R	B	L	3.6	do	8
Do		Moscow 42	6	H	R	BW	LS	3.4	do	8
Do	6978	Moscow 43	6	H	R	W	L	3.7	do	8, 32
Do	6979	Moscow 44	6	H	R	W	LS	3.3	do	8
Do		Moscow 45	6	H	R	WB	LS	3.3	do	8
Do		Moscow 46	6	H	R	BW	L	3.0	do	8
Do		Moscow 47	6	H	R	B	S	3.6	do	8
Do		Moscow 48	6	H	S	W	LS	3.6	do	8
Do		Moscow 49	6	H	R	B	SL	3.2	do	8
Awfulness	5631		6	H	A	B	L	2.2	Introduced from Russia	27
Do	5922		6	H	A	B	L	2.2	Selection from Nakano Ware	22, 48
Bailey	5902	Tex. 23241	6	H	R	B	S	3.8	Selection from farmer's field in Texas	24
Bearded selection		N. C. I-70	6	H	R	W	SW	do	24	
Do		N. C. I-83	6	H	R	W	W	do	24	
Beardless Winter 1								Indiana Agricultural Experiment Station	10	

See footnotes at end of table.

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TABLE 50.—Description and origin or source of barley varieties tested, arranged alphabetically, with index to tables in which mentioned—Continued

Variety	C. I. No.	Station No.	Description								Origin or source	Index to tables in which variety appears
			Rows	Kernel cover	Lemna appendage	Kernel color	Rachilla hairs	Growth habit	Head density	Mm. 3.5		
Beecher	6566	Moscow 9	6	H	SS	W	L	S			Atlas X Vaughn	5, 12, 20, 25, 26, 30, 32, 38, 48
Beldi Giant	2777		6	H	R	B	S	S	3.5		Uncertain; see 1936 Yearbook, p. 331	8, 19, 32, 33, 38, 48
Belford	7060	Wash. 3399	6	H	H	B	S	S	3.9		Beldi Giant X Horsford	35, 48
Black	6129		6	H	R	Bk	S	S	4.0		Introduced from Russia	32
Do.			6	H	S	Bk	L	S	3.8		Probably Lion, which see	8
Black Algerian	708		6	H	S	Bk	L	S	4.1		Introduced from Caucasus, Russia	26
Black Egyptian	1246		2	H	R	Bk	L	S	3.4		Introduced from Egypt	26
Black Smyrna	191		2	H	R	Bk	L	S	3.6		Introduced from Asia Minor	26
Blackhull	878		1	H	H	Bk	S	S	3.9		Introduced from Abyssinia	5, 26
Blackhull 1178	5679		2	H	S	W	L	S	3.5		Selection from Blackhull, C. I. 878	5, 7, 26
Blackhull 1180	6009		2	H	SS	W	L	S	3.8		do	5, 20, 26, 32, 48
Blanco	5045		6	H	R	W	L	S	3.0		Coast (C. I. 4633) X Hero	4
Blue	1247		6	H	R	B	S	S	3.5		Introduced from North Africa	35, 48
Bluebaugh			6	H	R	W		W			Local variety in Kansas	12
Bonami	4664		6	H	S	B	L	S	3.6		Lion X Manchuria	21
Borun	5249		6	H	R	B	L	S	3.6		Introduced from Chosen	34
Brown Winter			6	H	R	B	L	S			Oklahoma Agricultural Experiment Station	26
Brugh 23	6491		6	H	H	B	S	S	3.6		Selection from farmer's field in Virginia	34
Brugh 76	6477		6	H	H	W	S	S	3.8		do	28, 34
Burlington			6	H	R	W		W			Local variety in New Jersey	21
Byng	6089	C. A. 1096	6	H	S	W	L	S	4.4		(Michigan 31604 X Com. Six-Rowed 4307 M. C.) X Mensury 32 M. C.	13, 39, 40, 42, 43, 44, 45, 46, 48
California Coast	6115		6	H	R	BW	S	S	3.9		Introduced from North Africa	4
California Mariout	1455		6	H	R	B	L	S			Introduced from Egypt	2, 4, 26, 35, 48
Calotte	1102		2	H	R	W	S	S	3.6		Introduced from Russia	26
(Canadian Thorpe X Coast) X (Black Six-Row X Coast)	6985	F. C. 1140	6	H	R	B	S	S	3.5		(Canadian Thorpe X Coast) X (Black Six-Row X Coast)	5
Cape			6	H	R	B	S	S	3.9		Oklahoma Agricultural Experiment Station	26
Cebada 97A	6352	Mont. 1601	6	H	R	B	S	S	3.7		Introduced from Argentina	19
Charlottetown 80	2732	C. A. 817	2	H	R	W	S	S	3.5		Selection from Old Island Two-Rowed	8, 38, 42, 43, 45, 46, 48
Chevalier II	200		2	H	R	W	S	S	3.5		Introduced from Sweden	30
Chevron	1111		6	H	R	W	S	S	3.9		Introduced from Switzerland	28, 32, 37
Clancy	1002		6	H	R	W	L	SW			Introduced from Russia	18
Clemson Awlless	7040		6	H	A	B	L	SW	3.2		Clemson Agricultural College	29, 48
Clemson Hooded	7042		6	H	H	BW	S	SW	3.7		do	29, 48
Club Mariout	261		6	H	R	W	S	S	2.7		Introduced from Egypt	4, 5, 12, 20, 22, 26, 32, 48

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Coast 1		Tex. III-37-13							Texas Technological College	32
Do	690		6	H	R	B	S	S	Introduced from North Africa	5, 19, 20, 32, 38
Do	4613		6	H	R	B	S	S	Uncertain, probably Coast selection	4, 32, 48
Coast 23	2791		6	H	R	B	S	S	Selection from California Feed	5
Coast X Lion	6368	F. C. 1109	6	H	S	B	S	S	Coast X Lion	5
Do		F. C. 1119	6	H	S	W	S	S	do	5
Do		F. C. 1123	6	H	S	W	S	S	do	5
Do	6002	S. Dak. 1343	6	H	S	B	S	S	do	5
Colby 28445 X Flynn	6983	36 Hays 2034	6	H	S	B	L	S	Colby 28445 X Flynn	30
Colsess	2792		6	H	H	B	S	S	Coast X Success	32
Colsess X Trebi	6986		6	H	R	B	S	S	Colsess X Trebi	5, 8, 20, 22, 25, 32
Comfort	4578	F. C. 1139	6	H	S	BW	L	S	Smooth Awn X Luth	5
Common Six-Row	4625		6	H	R	B	S	S	Arizona Agricultural Experiment Station	20, 21, 26, 28, 30, 32, 38
Do	4640		6	H	R	B	S	S	Nebraska Agricultural Experiment Station	2, 48
Compana	5438		6	H	R	B	S	S	Selection from Composite Cross, C. I. 4116	20
Composite Cross 2	4116		2	H	SS	W	L	S	Parents used: Trebi, Coast, Manchuria, Smooth	19, 26, 30, 32, 38, 48
								Awn, Gatami, Meloy, Hannchen, Smyrna, Svanhals, Lion, and Deficiens.	8, 19, 34, 35	
Do. 2	5461							Parents used: Horn, Hannchen, Wisconsin Winter, Orel, Arequipa, Algerian, Lion, Atlas, Saundrel, Maison-Carre, Club Mariout, California Mariout, Good Delta, Minia, White Smyrna, Palmella Blue, Trebi, Multan, Lyallpur, Everest, Manchuria, Oderbrucker, Han River Flynn, Glabron, Alpha, Golden Pheasant, and Meloy.	5, 8, 19, 25, 34	
Do. 2	5530							Parents used: Winter Club, Everest, Golden Pheasant, Orel, Eswa, Nakano Wase, Row 3, Trebi, Tennessee Winter 66, Tennessee Winter 52, Tennessee Beardless 6, Smooth Awn, and Wisconsin Winter.	34	
Composite Cross III 2	6144							A composite of 2,235 elite strains selected from Composite Cross, C. I. 5461.	20, 30, 34	
Composite Cross selection	5280		2	H	R	W	L	S	Selection from Composite Cross, C. I. 4116	8
Do	5289		6	H	R	W	L	S	do	33
Do	5297		6	H	S	W	L	S	do	19
Do	5302		6	H	R	B	S	S	do	8, 48
Do	5323		6	H	R	B	S	S	do	8
Do	5329		6	H	R	W	S	S	do	32
Do	5363		6	H	R	W	S	S	do	8
Do	5407		2	H	R	B	L	S	do	19
Do	5414		2	H	R	W	L	S	do	5, 19
Do	5429		2	H	R	W	L	S	do	19
Do	5431		2	H	R	W	L	S	do	19
Do	5436		2	H	R	W	L	S	do	19
Do	5449		2	H	SS	W	L	S	do	27
Do	6351	Tex. I-31-79	6	H	R	B	L	W	Selection from Composite Cross, C. I. 5530	32
Do	6500	Tex. I-33-179	6	H	S	W	L	S	do	26, 32, 48
Do	6501	Tex. I-33-249	6	H	R	B	S	S	do	32
Do	6502	Tex. I-32-103	6	H	R	B	S	S	do	32, 48

See footnotes at end of table.

TABLE 50.—Description and origin or source of barley varieties tested, arranged alphabetically, with index to tables in which mentioned—Continued

Variety	C. I. No.	Station No.	Rows	Description					Origin or source	Index to tables in which variety appears	
				Kernel cover	Lemma appendage	Kernel color	Rachilla hairs	Growth habit	Head density		
Composite Cross selection	6564	N. C. 11-11	6	H	R	B	S	W	3.1	Selection from Composite Cross, C. I. 5461	3, 24, 26
Do	6984	36Ab. 2457	6	H	RR	W	SS	SS	3.2	do	32
Do	7007	36Ab. 1794	6	H	RR	B	SS	SS	3.8	do	8
Do	7008	36Ab. 6127	6	H	RR	W	SS	SS	3.2	do	8
Do	7027	N. C. 11-3	6	H	RR	W	SS	SW	4.9	do	24, 48
Do	7036	Oreg. 32, 855	6	H	R	W	L	SS	4.0	Selection from Composite Cross, C. I. 5530	27, 38
Do	7046	Tex. 1-35-416	6	H	SS	B	L	SS	3.8	do	32
Do	7048	Tex. 1-31-15	6	H	SS	W	L	SS	3.4	do	32
Do	7049	Tex. 1-31-83	6	II	RR	W	SS	SS	3.4	do	32
Do	7050	Tex. 1-33-332	6	H	RR	W	SS	SS	3.9	do	32
Do	7051	Tex. 1-33-71	6	H	RS	W	SS	SS	3.8	do	32
Do	7052	Tex. 1-33-326	6	H	RR	W	SS	SS	3.7	do	32
Do	7053	Tex. 1-33-113	6	H	RR	W	SS	SS	3.6	do	32
Do	7058	Wash. 3400	6	H	RS	B	SS	SS	3.9	Selection from Composite Cross, C. I. 5461	35
Do	7059	Wash. 3401	6	H	RS	W	SL	SS	4.3	do	35
Do		36Ab. 3452	6	H	RR	W	SS	SS	4.3	do	8
Do		N. C. 11-8	6	H	RR	W	SW	—	—	do	24
Do		N. C. 11-24	6	H	RR	W	SW	—	—	do	24
Do		N. C. 11-30	6	II	RR	W	SW	—	—	do	24
Do		N. C. 11-52-1	6	H	SS	Bk	L	S	3.9	do	24
Do		N. C. 11-52-3	6	H	SS	W	SS	SS	3.7	do	24
Do		N. C. 11-52-4	6	H	SS	W	SS	SS	3.7	do	24
Do		N. C. 11-53-4	6	H	SS	W	SS	SS	3.7	do	24
Do		N. C. 11-53-7	6	H	SS	W	SS	SS	3.7	do	24
Do		N. C. 11-53-12	6	H	RR	Bk	SS	SS	3.7	do	24
Do		N. C. 11-120	6	H	RR	W	W	W	—	do	24
Do		N. C. 11-127	6	H	RR	W	W	W	—	do	24
Do		Okl. 35h9-5	6	H	RR	B	S	S	3.7	do	26, 48
Do		Okl. 35h9-9	6	H	RR	B	SS	SS	3.8	do	26
Do		Okl. 35h9-23	6	H	RR	W	SS	W	—	do	26
Do		Okl. 35h10-3	6	H	RR	B	SS	W	—	do	26, 48
Do		Okl. 35h10-12	6	H	RR	BW	SS	SW	3.8	do	26
Do		Okl. 35h10-17	6	II	RR	R	SS	S	3.9	do	26
Do		Okl. 35h10-23	6	H	RR	R	SS	W	—	do	26
Do		Okl. 35h10-30	6	H	RR	B	SS	SW	3.8	do	26
Do		Oreg. 38	6	H	R	W	S	S	3.7	Selection from Composite Cross, C. I. 5530	27, 32, 48
Do	1	Oreg. 44	6	H	R	W	S	S	3.8	do	27
Do		Oreg. 45	6	H	R	W	S	S	3.7	do	27, 48
Do		Oreg. 47	6	H	R	W	S	S	3.7	do	27, 48

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Composite Cross selection	Oreg. 49	6	H	R	W	S	SW	3.6	Selection from Composite Cross, C. I. 5530	27	
Do	Oreg. 50	6	H	R	W	S	S	3.6	do	27	
Do	Oreg. 54	6	H	R	W	S	S	3.4	do	27	
Do	Oreg. 55	6	H	R	W	L	S	3.7	do	27	
Do	Oreg. 56	6	H	R	W	L	S	3.9	do	27	
Do	Oreg. 60	6	H	R	W	L	S	3.6	do	27	
Do	Oreg. 61	6	H	R	W	S	S	3.7	do	27	
Do	Oreg. 62	6	H	R	W	S	S	3.8	do	27	
Do	Oreg. 63	6	H	R	B	S	SW	3.7	do	27	
Do	Oreg. 64	6	H	R	B	S	S	3.7	do	27	
Do	Oreg. 65	6	H	R	BW	S	SW	3.6	do	27	
Do	Oreg. 66	6	H	R	BW	S	SW	3.7	do	27	
Do	Oreg. 67	6	H	R	W	S	S	3.6	do	27	
Do	Oreg. 68	6	H	R	B	S	S	3.6	do	27	
Do	Oreg. 69	6	H	R	B	S	S	3.9	do	27	
Do	Oreg. 32,539	6	H	R	B	S	S	3.9	do	32	
Do	Oreg. 32,549	6	H	R	B	S	S	3.9	do	32	
Conway	6095	6	H	S	W	L	S	3.3	Selection from Club Mariout	22,48	
Cusado	893	6	H	R	W	S	W	3.4	Tennessee Winter X Black Arabian	18	
C-308	6114	6	H	R	B	S	S	4.1	Selection from California Coast	4	
C-422	6113	6	H	R	B	S	S	3.4	do	4	
Danne 113	6140	6	H	SS	Bk	L	S	4.1	Selection from farmer's field in Oklahoma	26	
Davidson	6373	N. C. II-15.	6	H	S	B	L	S	3.4	Selection from Composite Cross, C. I. 5461	3,24,26,48
Deputy	6012		6	H	S	W	L	S	3.5	Introduced from Australia	26
Dryland	5673		6	H	S	W	L	S	4.0	(Odessa X Club Mariout) X (Lion X Manchuria)	30
Easaw	4690		6	H	R	W	S	W	2.2	Selection from Nakano Wase	3,7,9,26,34,36,48
Ezond	5064		6	H	R	B	LS	S	4.0	(Bay Brewing X Lion) X Trebitz	5,8,19,20,26,27,32,48
Do	6265		6	H	S	W	S	S	4.2	Selection from Ezond, C. I. 5064	8,25,28,30,32,38,48
Faust	4579		6	N	H	B	L	S	3.6	Selection from Himalaya	8,19,27
Featherston	1120		6	H	R	B	L	S	3.6	Selection from farmer's field in Minnesota	23
Finley	5901		6	H	R	B	SW	S	3.6	Selection from farmer's field in Texas	17,22,26,32,48
Flynn	1311		6	H	SS	W	L	S	3.9	Club Mariout X Lion	3,5,8,12,19,22,26,27,48
Do	7009	Kans. H. C. 388	6	H	SS	W	S	S	3.0	Selection from Flynn, C. I. 1311	12
Flynn 1	5911		6	H	SS	W	L	S	4.0	do	3,12,20,21,26,27,32,48
Flynn 37	5918		6	H	SS	W	L	S	3.7	do	27,35,48
Flynn 134	6987		6	H	S	B	LS	S	3.1	do	5
Folk	7062	W. Va. 32	6	H	R	W	S	W	3.9	Local variety in West Virginia	36
Franklin Malt	5915		6	H	R	BW	S	S	3.9	Local variety in Kansas, Oderbrucker-Odessa type	12
Gaddis	6003		6	H	H	W	WB	W	3.5	Selection from Arlington Awnless	34
Gartons	7016	Minn. 588, C. A. 1154	6	H	R	WB	SL	W	3.5	Introduced from England	16,41,47
Glabron	4577	Minn. 445	6	H	S	WB	L	S	4.3	Lion X Manchuria	9,10,11,15,16,20,25,26,30,32,38
Glacier	6976	Moscow 33	6	H	SS	W	L	S	3.4	Atlas X Vaughn	8,12,19,32,48
Goldfoil	928		6	H	SS	W	L	S	3.8	Introduced from Bohemia	23
Grandin	6968		6	H	R	B	L	S	3.6	Introduced from Norway	25
Greece	221		6	H	R	B	S	W	3.2	Introduced from Greece	7
Do	4593		6	H	R	B	S	W	3.2	Selection from Greece, C. I. 221	7,48

See footnotes at end of table.

TABLE 50.—Description and origin or source of barley varieties tested, arranged alphabetically, with index to tables in which mentioned—Continued

Variety	C. I. No.	Station No.	Description							Origin or source	Index to tables in which variety appears
			Rows	Kernel cover	Lemna appendages	Kernel color	Rachilla hairs	Growth habit	Head density		
Greece X Tenn. Beardless 5.	6996	Ga. H398-1-2-2-5-	6	H	H	W	S	W	Mm.	Greece X Tennessee Beardless 5.	7
Do.	6999	Ga. H398-1-2-2-5-4	6	H	H	W	S	W	-	do.	7
Do.	6997	Ga. H398-1-2-2-6-	6	H	H	B	S	W	-	do.	7
Do.	6998	Ga. H398-1-2-11-4-	6	H	H	W	S	W	3.7	do.	7, 48
Hannchen	531		2	H	R	W	L	S	3.4	Introduced from Sweden.	4, 5, 8, 12, 13, 19, 22, 25, 27, 28, 30, 35, 38, 47, 48, 8, 35, 46
Do.	4841	Sask. 229	2	H	R	W	L	S	3.1	Selection from Hannchen.	19
Hannchen 1	5462		2	H	R	W	L	S	3.3	do.	8, 48
Hannchen X Minia	7005	36Ab. 5117	6	H	R	W	S	W	2.7	Hannchen X Minia.	26
Han River	206		6	H	R	B	S	W	3.2	Introduced from China.	30, 48
Do.	2163	S. Dak. 1348	6	H	R	B	S	W	3.8	Not typical for Han River, similar to Trebi.	18, 34, 36
Hansee Hull-less	703		6	H	R	B	S	W	3.9	Selection from Han River, C. I. 206.	18
Hartungs	7023		6	N	R	W	L	W	-	Unnamed Flooded X Huakow.	21
Hastings Bearded			6	H	R	B	S	W	-	New Jersey Agricultural Experiment Station.	29
Hero	1286		6	H	S	W	L	S	2.9	Hastings Seed Co., Atlanta, Ga.	26
Do.	4602		6	H	S	W	L	S	2.9	Lion X Club Mariout.	4, 32
Heron	1299		6	H	S	W	L	S	4.0	Selection from Hero, C. I. 1286.	26
High Altitude Composite Cross. ²	6006									Lion X Manchuria.	8
Himalaya	620		6	N	R	B	L	S	3.9	Parents used: Mongolia, Pannier, Nepal, C. I. 3963-1, C. I. 3963-2, C. I. 3963-3, Everest, Horn, White Smyrna, Glabron, Wisconsin Win- ter, Hannchen, Arequipa, Lion, Flynn, Oder- brucker, Golden Pheasant, Club Mariout.	5
Hooded 6	6270		6	H	H	W	S	SW	-	Selection from Tennessee Beardless 6.	34
Hooded 10	6563		6	H	H	W	S	SW	4.0	do.	26, 34
Hooded 11	6575		6	H	H	B	S	SW	3.9	do.	24, 34
Hooded 15			6	H	H	W	S	SW	-	do.	34
Hooded 16	6574		6	H	H	W	S	SW	3.6	do.	17, 24, 28, 34, 36
Hooded 21			6	H	H	W	S	SW	-	Selection from Tennessee Beardless 5.	24, 34
Hooded 32			6	H	H	W	S	SW	-	do.	34
Hooded selection	7026	N. C. 1-26	6	H	H	WB	S	SW	4.3	Selection from farmer's field of Tennessee Beard- less 6 in North Carolina.	21, 24
Horn	926		2	H	R	W	S	S	3.4	Selection from Horn, C. I. 31.	19, 25, 30, 38
Horsford	1775		6	H	H	B	S	S	3.9	Nepal X Unknown.	35

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Ilogos	6239		6	H	S	B	L	S	4.3	Selection from Glabron.	9, 11, 15, 16, 20, 21, 25, 30, 37
Iredell	6571	N. C. 1-23	6	H	H	W	S	SW	3.7	Selection from farmer's field of Tennessee Beardless 6 in North Carolina.	24
Italiani			6	H	R	B	S	SW	3.6	Oklahoma Agricultural Experiment Station.	26
Jackson	6569	Tenn. B5-9 (S)	6	H	S	W	S	SW	4.0	Tennessee Winter 52 X Lion.	3, 9, 29, 31, 48
Jackson 1	7045	Tenn. 7B 2-42	6	H	S	BW	S	SW	4.0	--do--	31, 48
Kansas South-central strain	6376	Kans. 7177	6	H	R	BW	SL	W	3.8	Local farmer's strain in Kansas.	12, 26, 32, 48
Kansas Southeast strain	7070	Kans. 7176	6	H	R	BW	SI.	W	3.8	--do--	12, 48
Kentucky Winter	4641		6	H	R	W	--	SW	3.5	Kentucky Agricultural Experiment Station.	3
Kentucky 1	6050		6	H	R	B	S	W	3.5	Selection from a local barley in Kentucky.	3, 6, 9, 10, 14, 18, 21, 22, 28, 31, 32, 34, 36, 48
Kentucky 2	6148		6	H	R	B	S	W	3.7	--do--	12, 18, 22, 28, 32, 36, 48
Do	6993		6	H	R	B	S	W	3.7	--do--	6
Kentucky 4	7017		6	H	R	B	SL	W	3.7	--do--	18
Kentucky 5	7018		6	H	R	B	S	W	3.7	--do--	3, 32
Kentucky 6	4678		6	H	R	B	SL	W	3.8	--do--	3, 12, 32, 34, 36
Kentucky 11	6021		6	H	R	S	B	L	3.9	Smooth-awned Spring X Local Winter.	6, 48
Kentucky 20	6994		6	H	S	W	--	S	3.9	Kentucky Agricultural Experiment Station.	3
Kentucky 36	4677		6	H	R	S	W	S	3.9	Selection from a local barley in Kentucky.	5, 8, 12, 20, 22, 25, 26, 32, 38, 48
Lico	6279	F. C. 1110	6	H	S	W	S	S	3.9	Coast X Lion.	5
Lico 351	6989		6	H	S	W	S	S	3.9	Selection from Lico, C. I. 6279.	5
Lico 393	6988		6	H	SS	W	S	S	3.8	--do--	5
Lico 448	6990		6	H	S	W	S	S	3.8	--do--	5
Limerick	1302		6	H	S	W	LS	S	4.0	Manchuria X Lion.	26, 48
Lion	923		6	H	S	BK	L	S	4.0	Introduced from Russia.	25, 32
(Lion X Coast) X Trebi ¹		Utah B2-5-2	6	H	S	B	L	S	4.5	(Lion X Coast) X Trebi ¹ .	32
Lion X Manchuria	6001	S. Dak. 1340	6	H	S	B	L	S	4.5	Lion X Manchuria.	16, 30
Lion X Minia	6980	36Ab. 5269	6	H	S	W	S	S	4.1	Lion X Minia.	32
Lion X Oderbrucker ¹		Wis. XI20-5-26-12	6	H	S	W	S	S	4.5	Lion X Oderbrucker ¹ .	37
Do		1-1.									37
Lion X Oderbrucker ²		Wis. XI28-5-5-3-	6	H	S	W	L	S	4.6	--do--	37
(Lion X Oderbrucker ²) X July		Wis. XI63-1-8-	6	H	S	W	L	S	4.7	Lion X Oderbrucker ² .	37
Malt		Wis. XI56-8-4-4-1-	6	H	SS	W	L	S	4.3	(Lion X Oderbrucker ²) X July.	37
Mammoth	4683	Kans. 7183	6	H	R	B	SS	W	3.8	Local farmer's strain in Kansas.	12
Manchuria	244	Minn. 105	6	H	R	BW	LS	W	3.8	Selection from Mammoth, C. I. 220.	7
Do	245		6	H	R	W	SS	W	4.0	Introduced from Russia.	25
Do	1275	Wis. Ped. 9	6	H	R	W	SS	S	3.7	Oklahoma Agricultural Experiment Station.	12, 18, 26, 48
Do	2330	Minn. 184	6	H	R	BW	S	S	3.6	Selection from Manchuria.	15
Do	2947	N. Dak. 2121	6	H	R	B	S	S	3.6	--do--	10, 16, 20, 32
(Manchuria X Leiorrhynchum) X Alpha.		N. Y. 204A1-27-243	2	H	S	W	L	S	4.0	(Manchuria X Leiorrhynchum) X Alpha.	6, 9, 11, 13, 19, 20, 25, 30, 37, 48
Do		N. Y. 220A1-29-50	6	H	S	W	L	S	4.3	--do--	23
Do		N. Y. 220A1-29-176	2	H	SS	W	L	S	3.7	--do--	23
Do		N. Y. 220A1-29-181	2	H	S	W	L	S	4.0	--do--	23
Do		N. Y. 220A1-29-184	2	H	S	W	L	S	4.0	--do--	23
Do		N. Y. 220A1-30-461	2	H	S	W	LL	S	3.8	--do--	23
Do		N. Y. 220A1-31-358	6	H	S	W	L	S	4.3	--do--	23, 28

See footnotes at end of table.

TABLE 50.—Description and origin or source of barley varieties tested, arranged alphabetically, with index to tables in which mentioned—Continued

Variety	C. I. No.	Station No.	Description							Origin or source	Index to tables in which variety appears
			Rows	Kernel cover	Lemna appendage	Kernel color	Rachilla hairs	Growth habit	Head density		
(Manchuria X Leiorrhynchum) X (Arlington Awnless X Wild).		N. Y. 221A1-31-837.	2	H	S	W	L	S	M.m. 3,9	(Manchuria X Leiorrhynchum) X (Arlington Awnless X Wild).	23
(Manchuria X Leiorrhynchum) X Russian 02.		N. Y. 222A1-29-302.	6	H	S	W	S	S	4,1	(Manchuria X Leiorrhynchum) X Russian 02.	23
Do.		N. Y. 225A1-29-410.	6	H	S	W	L	S	4,1	do.	23
Manchurian	6492	Wis. 122-3.	6	H	R	W	S	S	3,5	Introduced from Manchuria.	37
Marett's Awnless.	7043		6	H	A	B	L	SW	3,2	From Marett Farm & Seed Co.	29
Marett's Beardless.	7041		6	H	H	W	S	W	4,0	do.	29,48
Marett's Pedigree Awnless 58.	7044		6	H	A	W	L	W	do.	29	
Marnobarb.	6120		6	H	S	W	SL	SW	3,4	Velvet X Tennessee Winter.	1, 3, 6, 7, 9, 10, 14, 21, 28, 29, 31, 34, 36, 48
Mars.	7015	Minn. 11-31-45.	6	H	S	W	L	S	3,8	(Lion X Manchuria ?) X Peatland.	16,48
McClymont.	2126		6	H	R	W	S	S	3,7	Nebraska Agricultural Experiment Station.	20
Mechanical Mixture ² .	4115									Mixture of Manchuria, Hanachen, Trebi, Svan-hals, Deficiens, Smooth Awn, Gatami, Lion, White Smyrna, Coast, Meloy, Nepal X Unknown.	8,19,34,35
Meloy.	1176									Selection from Meloy, C. I. 1176.	8,19,35,38,48
Meloy 3.	4636									Selection from barley of Manchuria type in Canada.	27
Mensury.	4696	Ott. 60, C. A. 730.								Oklahoma Agricultural Experiment Station.	25,32,46
Michigan.	7032									Indiana Agricultural Experiment Station.	26
Michigan Winter.	2036									Oklahoma Agricultural Experiment Station.	18,21,26,32,48
Do.										Introduced from Germany.	26
Michigan Two-Rowed.	2782									Introduced from Egypt.	15
Minia.	3556									Minia X Horn.	8
Minia X Horn.	7006	36Ab. 4631.								(Lion X Manchuria) X Sandrel.	8
Minnesota 450.	4646									(Lion X Manchuria) X Peatland.	15
Minnesota 462 X Peatland.	7010	Minn. 11-31-15.								do.	16,48
Do.	7011	Minn. 11-31-19.								do.	16
Do.	7012	Minn. 11-31-25.								do.	16
Do.	7013	Minn. 11-31-37.								do.	16
Do.	7014	Minn. 11-31-39.								do.	16
Minsturdy.	1556	Minn. 439.								South African X Manchuria.	11,16,30,32,48
Missouri Early Beardless.	6051									Mass selection from a farmer's field in Missouri.	3,9,10,12,14,17,18,21, 22,26,29,31,32,34,36,

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Morsett	4800		2	H	R	W	L	S	3.9	Introduced from Manchuria	19
Murasaki Mochi	5899		6	N	R	P	L	S	3.4	Introduced from Japan	8
Nakano Wase	754-5		6	H	A	W	W	W	2.6	Selection from Nakano Wase, C. I. 754	34
Do.	2164		6	H	A	W	L	W	2.2	do	7
Nakano Wase 33	6269		6	H	A	W	L	W	2.2	do	7, 24, 34
Nakano Wase 45			6	H	A	W	L	W	2.2	do	24, 34, 48
Nakano Wase 51	7057		6	H	A	W	L	W	2.2	do	24, 34
Nakano Wase 58	7056		6	H	A	W	S	W	2.3	do	34
Nakano Wase 59	6567		6	H	A	W	L	W	2.3	do	3, 24, 34
Nakano Wase 63			6	H	W	W	L	W	2.3	do	34
Nanking 150 X Comfort			6	H	S	W	L	S	3.7	Nanking 150 X Comfort	23
Do.	N. Y. 505A-1-15-4		6	H	S	W	L	S	4.0	do	23
Do.	N. Y. 505A-1-17-6		6	H	S	W	L	S	4.0	do	23
Do.	N. Y. 505A-1-51-1		6	H	S	W	L	S	4.0	do	23
Do.	N. Y. 505A-1-51-3		6	H	S	W	L	S	4.3	do	23
Do.	N. Y. 505A-1-58-2		6	H	S	W	L	S	3.8	do	23
Do.	N. Y. 505A-1-58-6		6	H	S	W	L	S	3.8	do	23
Nassau	7022		6	H	S	BW	L	W	3.6	Selection from Composite Cross, C. I. 5530	21, 48
Nepal	595		6	N	E	W	L	S	3.5	Introduced from North India	5, 19, 38
Newal	6088	C. A. 1089		H	R	W	L	S	4.1	(Manchuria X Lion) X O. A. C. 21	15, 19, 37, 39, 41, 46, 47, 48
New Era	5108		6	N	R	W	L	S	3.9	Nepal X Manchuria	9
New Era X Odessa			6	H	R	W	S	S	3.8	New Era X Odessa	32
Do.	Tex. C-1		6	H	R	W	S	S	3.8	do	32
Do.	Tex. C 2		6	H	R	W	LS	S	3.5	do	32
Do.	Tex. C 16		6	H	R	W	SL	S	3.6	do	32
Do.	Tex. C 18		6	H	R	W	S	S	3.5	do	32
New Mexico Winter 1	7065		6	H	R	B	S	SW	3.8	Selection from C. I. 4673	22, 32, 48
New Mexico Winter 2	7066		6	H	R	B	L	W	3.8	Selection from California Feed	22, 48
Nobarch	6335	C. A. 1022		H	S	W	S	S	3.9	O. A. C. 21 X Lion	15, 32, 40, 42, 43, 44, 45, 46, 48
North Carolina Hooded	5951		6	H	H	W	S	W	3.1	North Carolina Agricultural Experiment Station	7, 36
North Plate 1	5266		6	H	R	B	S	S	3.9	Selection from McClymont	5, 20, 32, 48
North Plate 4	5488		6	H	R	B	S	S	3.9	Selection from Coast, C. I. 690	20
O. A. C. 1	5953		6	H	R	W	S	SW	3.5	Selection from Tennessee Winter	27, 32
O. A. C. 6	5954		6	H	R	W	S	SW	3.5	do	22, 27, 32
O. A. C. 7	2814		6	H	R	W	S	S	3.9	Selection from Webb New Hardy White Winter	27
O. A. C. 21	1470	C. A. 1086		H	R	B	S	S	3.6	Selection from Manchuria, C. I. 244	8, 16, 32, 35, 38, 39, 41, 42, 43, 44, 45, 46, 47, 48
Oderbrucker	1174	Wis. Ped. 6		H	R	W	S	S	4.0	Selection from the original Oderbrucker introduced from Germany	25
Do.	1272	Wis. Ped. 5		H	R	W	S	S	3.9	do	19, 28
Do.	1529			H	R	W	S	S	3.9	do	30
Do.	4666	Wis. Ped. 5-1		H	R	W	S	S	3.9	Selection from Oderbrucker, Wisconsin Pedigree 5	9, 11, 13, 16, 19, 20, 22, 32, 37, 48
Oderbrucker X Lion	5028	Wis. Ped. 37		H	S	W	L	S	3.9	Oderbrucker X Lion	10, 20, 32
Odessa	182			H	R	WB	S	S	3.7	Introduced from South Russia	16, 20, 22, 25, 27, 30, 32, 38, 48
Odessa X Dryland	6982	S. Dak. 21		H	S	B	L	S	3.9	Odessa X Dryland	32
Ohio	5910	Ohio 3148		H	S	W	L	S	4.4	Selection from Minnesota 11-20-10	23
Old Maryland	7037			H	R	B	SL	W	3.4	Local variety in Pennsylvania	28
Olli	6251	C. A. 739		H	R	B	S	S	3.2	Introduced from Finland	25, 35, 39, 40, 42, 43, 44, 45, 46, 47, 48
Olympia	6107			H	R	B	L	W	3.9	Introduced from Germany	28, 32, 35, 48

See footnotes at end of table.

TABLE 50.—Description and origin or source of barley varieties tested, arranged alphabetically, with index to tables in which mentioned—Continued

Variety	C. I. No.	Station No.	Description							Origin or source	Index to tables in which variety appears
			Rows	Kernel cover	Lemna appendage	Kernel color	Rachilla hairs	Growth habit	Head density		
Omugi	5144		6	H	R	W	L	W	2.8	Introduced from Chosen	34
Orel	351		2	H	R	W	L	SW	4.1	Introduced from Russia	3, 9, 24, 32, 34, 36, 48
Do	4592		2	H	R	W	L	W		Selection from Orel, C. I. 351	7
Peatland	5267		6	H	R	W	S	S	3.8	Introduced from Switzerland	5, 11, 16, 20, 25, 28, 37, 41, 46, 47, 48
Perth	6025		6	H	R	W	L	S	3.3	Introduced from Australia	26
Peruvian 19	6568		6	H	R	B	S	S	3.1	Selection from Peruvian, C. I. 953	27, 48
Phoebe	1305	Minn. 493	6	H	S	W	L	S	3.9	Bay Brewing X Lion	26
Pidor	901		6	H	R	B	L	W	3.0	Tennessee Winter X Hankow	18, 36, 48
Plush	6093	C. A. 1106	6	H	S	W	L	S	4.0	Lion X Bearer	25, 39, 40, 41, 44, 47, 48
Do	7030	C. A. 1117	6	H	S	W	L	S	4.0	Selection from Plush, C. I. 6093	46
Poland	6280		6	H	R	B	S	W	3.7	Introduced from Poland	18, 21, 28, 32, 34, 36, 48
Poland 18 ¹										Selection from Poland, C. I. 6280	34
Polders	4213		6	H	R	W	L	W	4.0	Introduced from Belgium	31, 48
Pontiac	4849	C. A. 741	6	H	R	B	SL	S	3.9	Selection from Mandscheuri	46
Prospect	6339	C. A. 1074	6	H	S	W	L	S	4.3	Black Barbless X Unknown (probably Albert)	47, 48
Pryor	2359		2	H	R	W	S	S	3.4	Introduced from Australia	5
Purdue 21	4581		6	H	R	B	SL	W	3.5	Mass selection from Tennessee Winter	6, 9, 10, 18, 32, 48
Purdue 1101	4582		6	H	R	B	SL	W	3.8	Local farmer's strain in Indiana	3, 6, 9, 10, 32, 48
Purdue 28156A1-2-2-2	6562		6	H	S	B	L	W	3.7	Comfort X Purdue 21	3, 9, 10, 28, 48
Purdue 28154A3-1-1-0	7067		6	H	S	WB	SL	W	4.0	do	10
Purdue 28156A3-2-1-2			6	H	S	B	L	W		do	10
Purdue 28156A3-2-1-3			6	H	S	B	LS	W		do	10
Purdue 28156A4-1-1-6			6	H	S	BW	LS	W		do	10
Queens	7021	N. J. BS112	2	H	S	W	L	S	3.2	Selection from Composite Cross, C. I. 5461	21, 48
Randolph	6372	N. C. 1-68	6	H	S	W	W	SW	4.0	Selection from farmer's field in North Carolina	3, 18, 21, 24, 26, 48
Regal	5030	C. A. 742	6	H	S	W	L	S	3.9	Lion X Manchuria ²	5, 9, 19, 32, 37, 39, 40, 46, 47, 48
Regal X Trebi	6358	N. Dak. 30035	6	H	S	W	S	S	4.0	Regal X Trebi	25, 48
Do	7031	N. Dak. 30042	6	H	S	W	S	S	4.2	Selection from Regal X Trebi, C. I. 6358	25
Reno	6561		6	H	R	B	SL	W	3.8	Purified local farmer's barley in Kansas	3, 9, 12, 17, 18, 26, 32, 48
Rex	6618	C. A. 1113	2	H	S	W	LS	S	3.7	Velvet X Haunchen	25, 27, 39, 47, 48
Rhodesia	3339		6	H	S	W	L	S	3.4	Introduced from Rhodesia	19
Rojo	5401		6	H	S	W	L	S	3.0	Selection from Composite Cross, C. I. 4116	4, 48
Rowan	5672		6	H	R	B	S	W	3.0	Local farmer's strain in North Carolina	34
Rufflyn	6374		6	H	R	B	S	S	3.6	Selection from Flynn	35
Sacramento	4108		6	H	R	B	S	S	2.4	Cape X Coast	2
Sanalta	6087	C. A. 1088	2	H	S	W	L	S	2.7	Smooth Awn X Duckbill	39, 48
Sandrel	937		6	H	R	W	S	S	3.6	Selection from a barley introduced from Moravia	20, 26, 48

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Sandrel X Trebi.....	36Ab, 4331.....	6 H R W S S 3.4	Sandrel X Trebi.....	8
Santiam.....	6367.....	6 H R W S S 3.9	Selection from Composite Cross, C. I. 5530.....	9, 27, 28, 32, 48
Scarab.....	995.....	6 H R W L S 3.0	Introduced from Russia.....	2, 32
Scottish Pearl.....	277.....	6 H R B S W 3.7	Introduced from Europe.....	32, 36, 48
Shonan.....	5255.....	6 H R B L W 3.0	Introduced from Chosen.....	34
Short Comfort.....	5907.....	6 H S W L S 4.2	(Manchuria X Lion) X Luth.....	20
Slightly Awned.....			Washington County Station, Virginia.....	34
Smith Selection.....	6143.....	6 H R B S S 3.6	Selection from farmer's field in Texas.....	32
Smooth.....			Washington County Station, Virginia.....	34
Smooth Awned.....			do.....	34
Smooth Awn 85.....		6 H S W SW	(Tennessee Winter X Smooth Awn) X Esaw.....	24, 34
Smooth Awn 86.....	6268.....	6 H S W SL SW 3.9	do.....	3, 6, 14, 24, 28, 34, 36, 48
Smooth Awn 88.....	7028.....	6 H S W L SW 4.2	do.....	24, 34
Smooth Awn 90.....	7029.....	6 H S W W	do.....	24, 34
Smooth Awn 102.....	6995.....	6 H S W LS SW 4.1	Bulked smooth awn segregate from several crosses made at Arlington Farm.....	6
Smooth Awn 203.....	6267.....	6 H S W LS W 3.9	(Tennessee Winter X Smooth Awn) X Esaw'.....	7, 9, 14, 24, 32, 34
Smooth Awn 205.....	7004.....	6 H S W SL SW 4.0	(Tennessee Winter X Smooth Awn) X Esaw'.....	7
Smooth Awn selection.....	6494.....	Md. 19-8	Velvet X Tennessee Winter.....	14
Do.....	6495.....	Md. 15-8	do.....	14, 24, 34
Smooth Awn X Manchuria.....	5998.....	6 H S W L S 4.1	Lion X Manchuria'.....	19, 20, 48
Spartan.....	5027.....	2 H S W L S 3.7	Michigan Two Rowed X Black Barbless.....	5, 8, 9, 10, 11, 12, 13, 15, 16, 19, 20, 21, 25, 26, 30,
Stavropol.....	2103.....	6 H R B S S 3.5	32, 38, 48	
Do.....	5913.....	II. C. 249.....	Introduced from Russia.....	26, 32
Steigum.....	907.....	6 H R B S S 3.9	Selection from Ellis, C. I. 2107.....	3, 12, 22, 26, 32, 48
Stewart.....	6112.....	2 H R W L S 3.7	Selection from Steigum, C. I. 47.....	25
Sunrise.....	6272.....	6 H R B S W	Selection from a farmer's field in California.....	4
Svansota.....	1907.....	6 H A W L W 2.2	Selection from Nakano Wase, C. I. 754.....	6, 7, 14, 24, 28, 32, 34, 36, 48
Swiss Spring 87.....	7025.....	2 H R W L S 2.9	Svanhals X Minnesota Centener 456.....	25
Tall Comfort.....	5903.....	6 H R W S 4.2	Selection from Swiss Spring.....	23, 48
Tenkow.....	646.....	6 H S BW L S 4.0	(Manchuria X Lion) X Luth.....	21
Tennessee Beardless 5.....	5384.....	6 H R B S SW 3.7	Tennessee Winter X Hankow.....	3, 12, 18, 22, 26, 32, 48
Tennessee Beardless 5 selection.....	7001.....	6 H H W S W	Tennessee Winter X Hooded Spring type.....	1, 3, 7, 18, 21, 29, 31, 32, 36, 48
Do.....	7002.....	6 H H W S SW 3.7	Selection from Tennessee Beardless, Ga. 184.....	7
Do.....	7003.....	6 H H W S SW 3.8	do.....	7
Tennessee Beardless 6.....	2746.....	6 H H W S SW 3.0	Tennessee Winter X Hooded Spring type.....	3, 18, 24, 26, 34, 36
Tennessee Smooth Awn.....	6570.....	6 H S W S W	Tennessee Winter 52 X Lion.....	3, 9, 31
Do.....	Tenn. B5-14.....	6 H S W S W	do.....	9, 29, 31
Do.....	Tenn. B3-56.....	6 H S W S W	do.....	31
Tennessee Winter.....	257.....	6 H R S W S W	Oklahoma Agricultural Experiment Station.....	26, 28, 34, 48
Do.....	6034.....	6 H R BW S W	Introduced from Europe.....	6, 7, 14, 21, 22, 24, 32, 34, 36, 48
Do.....	6125.....	6 H R B S SW 3.9	Virginia Seed Service.....	3, 9, 14, 24, 26, 32, 34, 48
Do.....	6126.....	6 H R B L W 3.4	Texas Agricultural Experiment Station.....	32, 48
Do.....	6128.....	6 H R B S SW 3.7	Local farmer's strain in Texas.....	32
Do.....	6142.....	6 H R B S SW 3.7	do.....	32

See footnotes at end of table.

TABLE 50.—Description and origin or source of barley varieties tested, arranged alphabetically, with index to tables in which mentioned—Continued

Variety	C. I. No.	Station No.	Description						Origin or source	Index to tables in which variety appears	
			Rows	Kernel cover	Lemna appendage	Kernel color	Rachilla hairs	Growth habit	Head density		
Tennessee Winter 2										Virginia Agricultural Experiment Station	34
Tennessee Winter 9										do	34
Tennessee Winter 11										do	34
Tennessee Winter 12	3534		6	H	R	W	W			Selection from Tennessee Winter	34
Tennessee Winter 17										Virginia Agricultural Experiment Station	34
Tennessee Winter 18										do	34
Tennessee Winter 19										do	34
Tennessee Winter 20										do	34
Tennessee Winter 52	3543		6	II	R	B	S	W	3.7	Selection from Tennessee Winter	3, 6, 9, 17, 21, 31, 32, 36, 48
Tennessee Winter 57	3544		6	II	R	WB	SL	W		do	3, 32
Tennessee Winter 61	3545		6	H	R	W	S	W		do	3, 17, 32, 48
Tennessee Winter 66	3546		6	II	R	B	S	W		do	3, 7, 26, 34, 48
Tennessee Winter 76	6992		6	H	S	B	SL	W	3.9	J. W. Wood & Sons, Richmond, Va.	6
Tennessee Winter X Abyssinian 37	6250		6	H	S	B	L	SW	3.9	Tennessee Winter X Abyssinian 37	34
Tennessee Winter X Smooth Awn	6565		6	II	S	B	L	SW	3.9	Tennessee Winter X Smooth Awn	3, 34
Texan	6499		6	H	S	B	S	SW	3.8	Selection from Composite Cross, C. I. 5530	17, 26, 32, 48
Texas Winter	554		6	H	R	B	S	W	3.3	Introduced from Europe	7, 17, 32, 48
Do	6498		6	H	R	B	LS	SW	3.8	Ferguson Seed Farms, Howe, Texas	17, 22, 32, 48
Titan	7055	C. A. 1118.	6	H	S	B	S	SW	3.7	Trebi X Glabron	33, 39, 40, 47, 48
Trebi	936		6	II	R	B	S	S	3.6	Selection from a barley obtained from south shore of Black Sea	2, 5, 8, 9, 11, 12, 13, 15, 16, 19, 20, 21, 22, 25, 26, 27, 28, 30, 32, 33, 35, 37, 38, 39, 40, 41, 47, 48
Trebi X Colsess	6362	F. C. 1124	6	H	R	B	S	S	3.6	Trebi X Colsess	5, 48
Do	6370	F. C. 1123	6	II	R	B	S	S	3.4	do	5
Trebi X Dryland	6981	S. Dak. 69	6	H	S	W	SL	S	3.9	Trebi X Dryland	32
Trebi X Velvet 4	6353		6	H	S	W	L	S	3.9	Trebi X Velvet 4	19, 20
Tregal	6359	N. Dak. 30036	6	H	S	W	SL	S	3.7	Regal X Trebi	25, 48
Tuckwiller	7061	W. Va. 31	6	H	R	B	SL	W		Local farmer's variety from West Virginia	36
Union Beardless	5976		6	H	H	B	SS	S	3.5	A blue awned X a white hooded variety	2, 5, 8, 22, 27, 33, 48
Union Beardless 6	7055		6	H	H	B	SS	S	3.8	Selection from Union Beardless, C. I. 5976	27
Union Winter	553		6	H	R	W	L	W		Introduced from Europe	3, 31, 32, 36, 48
Unnamed	3836		6	H	R	W	L	W	3.4	Introduced from Kashmir	24
Do	4197	1	2	H	R	W	L	S	4.1	Introduced from Russia	19
Do	4298	1	6	H	R	W	L	SW	3.6	Introduced from Transcaucasia	24
Vance	4585		2	II	SS	W	L	S	4.0	Selection from Smyrna, C. I. 2642	5, 26, 48

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Vaughn	1367		6	H	SS	W	L	S	3.7	Club Marabout X Lion.....	2, 3, 4, 5, 8, 12, 20, 22, 26, 27, 30, 32, 38, 48
Velvet	4252		6	H	S	W	L	S	4.1	(Manchuria X Lion) X Luth.....	5, 9, 10, 11, 13, 15, 16, 19, 20, 21, 25, 26, 28, 30, 32, 35, 37, 38, 42, 43, 44, 45, 46, 48
Velvet 4	7020		6	H	S	W	L	S	4.5	Selection from Velvet, C. I. 4252	19
Velvon	6109		6	H	S	W	S	S	3.6	(Lion X Coast) X Trebi.....	5, 8, 19, 20, 21, 22, 25, 27, 28, 32, 33, 38, 48
Velvon 5	7054		6	H	S	W	S	S	3.7	Mass selection from Velvon, C. I. 6109	33, 48
Victory	5077		2	H	R	W	L	S	3.2	Gold X Hainchen.....	8, 27
Virginia Hooded			6	H	H	—	S	SW	3.7	Local barley in Virginia.....	34
Walden Winter			6	H	R	—	W	—	—	Local farmer's strain in Kansas.....	32
Ward	6007		6	H	R	—	S	W	—	Local farmer's strain in Oklahoma.....	12, 18, 26, 32, 48
Ward selection	7034	Oklahoma, 35h11-3	6	H	R	B	S	W	3.9	Selection from Ward, C. I. 6007	26
Warrior	6991	Sask. 1955	6	H	H	B	S	W	3.3	Trebi X Colsess.....	5
West Virginia I-35-153	7063		6	H	H	W	S	W	3.5	Selection from farmer's field in West Virginia.....	34
West Virginia I-35-274	7039	W. Va. 43	6	H	H	R	W	L	3.9	do.....	28, 36, 48
White Smyrna	125		2	H	R	W	L	S	3.8	introduced from Asia Minor.....	12, 19, 22, 30, 48
Do	658		2	H	R	W	L	S	3.9	do.....	38
Do	910		2	H	SS	W	L	S	2.7	do.....	8, 26
White Smyrna X Svanhals	6371	S. Dak. 1344	2	H	R	B	L	S	2.7	White Smyrna X Svanhals.....	30
Winter Club	488		6	H	R	W	L	SW	1.8	Introduced from Europe.....	8
Do	592		6	H	R	W	L	SW	1.8	do.....	25, 27, 28, 32, 33, 35, 48
Wintex	6127		6	H	R	S	B	SW	3.8	Selection from farmer's field in Texas.....	3, 17, 26, 32, 48
Wisconsin Barbless	5105	Wis., Pedigree 38	6	H	S	W	L	S	4.8	Oderbrucker X Lion.....	5, 9, 10, 11, 12, 13, 15, 16, 19, 20, 21, 22, 23, 25, 27, 28, 30, 32, 35, 37, 38, 40, 41, 46, 47, 48
Wisconsin Barbless selection	7000	Pn. 104A-35	6	H	S	W	L	S	4.9	Selection from Wisconsin Barbless, C. I. 5105	28, 48
Wisconsin Barbless X Newal	7069	Wis. X191-2-1-2	6	H	S	W	L	S	4.4	Wisconsin Barbless X Newal.....	37
Wisconsin Winter	519		6	H	R	B	S	W	3.9	Local variety in Wisconsin.....	7, 26, 48
Do	1894		6	H	R	B	S	W	3.7	Washington Agricultural Experiment Station.....	32, 35, 48
Do	2159		6	H	R	B	S	W	3.8	Selection from Wisconsin Winter, C. I. 519	3, 6, 9, 18, 21, 24, 26, 34, 36
Woods Bearded	7024		6	H	R	W	S	SW	3.9	New Jersey Agricultural Experiment Station.....	21, 29
Woods Hooded	6235		6	H	H	W	S	SW	4.0	T. W. Wood & Sons, Richmond, Va.....	21, 29, 34
Woodwin	7033	Oklahoma, 2159	6	H	R	B	S	W	3.9	United States Southern Great Plains Field Station.....	26, 32
York Hooded	7038		6	H	H	WB	S	SW	3.8	Local farmer's barley in Pennsylvania.....	28
ZZ Second	6299		6	H	S	B	S	S	5.4	Selection from Composite Cross, C. I. 5461	28, 48

¹ No data available on description.² Grown in bulk and made up of many types.

END