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Yields of Barley Varieties in the United States and Canada 1937–41

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UNITED STATES
DEPARTMENT OF AGRICULTURE
WASHINGTON, D. C.

Yields of Barley Varieties in the United States and Canada, 1937-41[1]

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CONTENTS

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

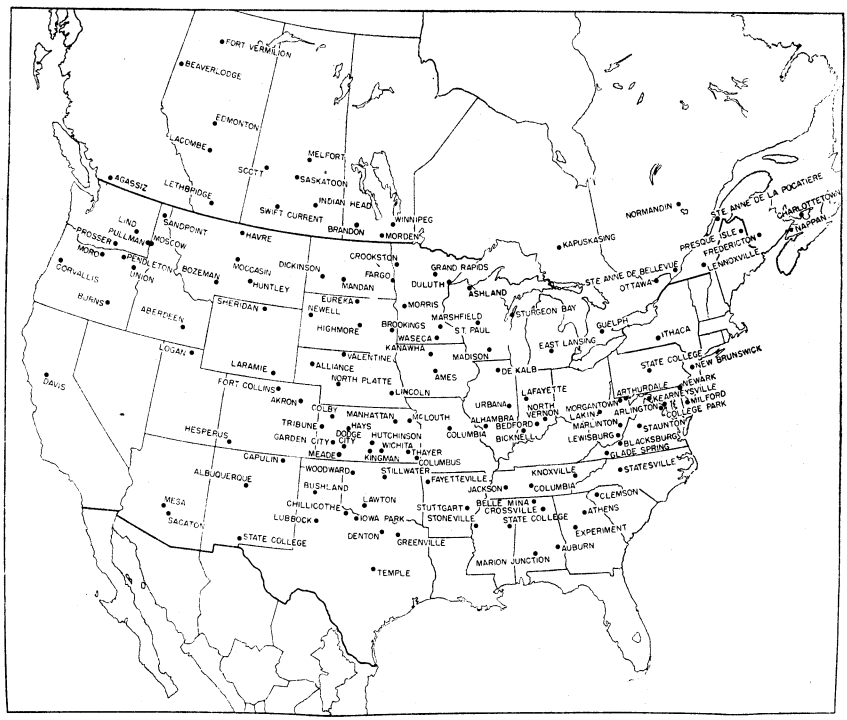

FIGURE 1.—Location of stations in the United States and Canada from which barley yields are reported in this bulletin.

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 WIEBE, G. A. GROWING BARLEY FOR MALT AND FEED. U. S. Dept. Agr. Farmers' Bul. 1732, 19 pp., illus. 1943. (Revised.)

[3] ——— MARTINI, M. L., and POPE, M. N. TESTS OF BARLEY VARIETIES IN AMERICA. U. S. Dept. Agr. Dept. Bul. 1334, 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] WIEBE, G. A., COWAN, P. R., and REINBACH-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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Auburn:													
Tennessee Beardless 5 [2]	3384	---	------	---	------	---	------	---	------	2	35.0	------	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	27.3	22.5	100.0
Marnobarb	6120	---	------	---	------	---	------	2	24.2	2	37.5	------	111.8
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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Mesa:														
Vaughn [1]	1367	19	3	57.2	3	78.8	3	99.2	3	81.5	2	94.2	82.2	100.0
Arivat	6573	269	3	72.9	3	93.8	3	96.3	3	87.8	2	95.6	89.3	108.6
California Mariout	1455	341	---	------	---	------	---	------	3	86.4	2	97.0	------	104.4
Atlas × 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	84.6	---	------	---	------	------	90.5
Common Six-Row	4625	39	3	58.0	3	61.5	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	------	91.7
Vaughn	1367	----------	1	53.6	---	------	---	------	3	59.3	3	63.4	------	114.9
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 × 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.

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										Average yield, 1937–41	Relative yield compared with standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Fayetteville:				Bu.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Fall-sown														
Kentucky 6 [1]	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	25.4	1	41.4	2	40.5	1	23.7	32.5	101.3
Tennessee Beardless 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
Orel	351		1	35.5	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	25.1		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	40.5				107.7
Spring-sown														
Stavropol [1]	5913				1	22.7	3	26.8	2	25.2	2	9.4		100.0
Flynn	1311				1	13.7	3	19.7	2	24.1	2	6.3		75.9
Vaughn	1367				1	16.9	3	20.4	2	23.6	2	3.1		76.1
Stuttgart:														
Fall-sown														
Tennessee Winter 52 [1]	3543										3	45.7		100.0
Jackson	6569	Tenn. B5–9 (S)									3	57.5		125.8
Davidson	6373	N. C. 15									3	55.9		122.3
Composite Cross selection	6564	N. C. 11									3	53.9		117.9
Kentucky 11	6021										3	53.1		116.2
Smooth Awn 86	6268										3	46.6		102.0
Marnobarb	6120										3	43.3		94.7
Tennessee Smooth Awn	6570	Tenn. B5–14									3	39.4		86.2
Missouri Early Beardless	6051										3	38.5		84.2
Wisconsin Winter	2159										3	37.7		82.5
Nakano Wase 59	6567										3	37.2		81.4
Tennessee Beardless 5	3384										3	36.8		80.5
Tennessee Winter 66	3546										3	35.8		78.3
Tennessee Winter × Smooth Awn	6565										3	35.5		77.7
Randolph	6372	N. C. I–68									3	31.6		69.1
Wintex	6127										3	30.6		67.0
Purdue 28156A3–2–2–2	6562										3	28.3		61.9
Union Winter	583										3	27.2		59.5
Tennessee Winter	6034										6	25.8		56.5
Purdue 1101	4582										3	25.4		55.6
Reno	6561										3	22.9		50.1
Esaw	4690										3	22.6		49.5
Kentucky 1	6050										3	20.8		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 compared with standard
		1937		1938		1939		1940		1941			
		Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
			Bu.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Percent*
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	6115	5	56.5	5	58.5	5	33.1	5	50.6	7	62.9	52.3	86.5
Coast	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	32.0	---	---	---	---	------	77.7
Stewart	6112	5	67.6	5	51.4	---	---	---	---	---	---	------	87.3
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 compared with standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
				Bu.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Percent*
Fort Collins: [1]														
Trebi [2]	936	----------	10	58.4	10	58.4	---	------	7	59.9	7	85.3	------	100.0
Lico	6279	[3]F. C. 1110	10	75.8	10	63.1	---	------	7	51.4	7	72.6	------	100.3
Ezond	5064	----------	10	64.5	10	55.6	---	------	7	67.2	7	82.1	------	102.8
Wisconsin Barbless	5105	----------	10	64.4	10	51.6	---	------	7	48.9	7	73.5	------	91.0
Coast × Lion	6368	F. C. 1109	10	63.4	10	55.9	---	------	7	55.6	7	78.8	------	96.8
Velvon	6109	----------	10	63.4	10	57.7	---	------	7	63.3	7	87.7	------	103.9
Trebi × Colsess	6369	F. C. 1124	10	59.1	10	56.8	---	------	7	62.4	7	96.6	------	104.9
Do	6370	F. C. 1125	10	56.4	10	64.5	---	------	7	54.7	7	88.8	------	100.9
Coast 23	2791	----------	10	52.2	10	42.3	---	------	7	36.6	7	65.1	------	74.9
Colsess	2792	----------	10	51.5	10	46.1	---	------	7	45.0	7	65.4	------	79.4
Velvet	4252	----------	10	41.9	10	49.5	---	------	7	43.8	7	74.3	------	80.0
Nepal	595	----------	10	37.2	10	31.1	---	------	7	34.7	7	55.9	------	60.6
Hannchen	531	----------	10	26.2	10	64.9	---	------	7	51.0	7	80.2	------	84.8
Composite Cross	5461	----------	10	42.1	10	51.5	---	------	7	51.0	7	73.8	------	83.4
Regal	5030	----------	---	------	10	43.1	---	------	7	45.7	7	78.1	------	82.0
Beecher	6566	----------	---	------	---	------	---	------	7	45.3	7	70.0	------	79.4
Arivat	6573	----------	---	------	---	------	---	------	7	53.7	7	77.5	------	90.4
Warrior	6991	----------	---	------	---	------	---	------	---	------	7	72.6	------	85.1
Colsess × Trebi	6986	F. C. 1139	10	62.2	10	53.8	---	------	7	54.6	---	------	------	96.5

See footnotes at end of table.

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										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.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Percent*
Fort Collins—Con.														
Union Beardless	5976	----------	10	57.8	10	36.0	---	------	7	33.0	---	------	------	71.8
(Canadian Thorpe × Coast) × (Black Six-Row × Coast)	6985	F. C. 1140	10	62.8	10	55.8	---	------	7	53.0	---	------	------	97.1
Peatland	5267	----------	10	21.8	10	48.5	---	------	---	------	---	------	------	60.2
Akron: [4]														
Club Mariout [2]	261	----------	4	18.2	4	25.9	4	5.4	4	1.0	4	28.9	15.9	100.0
Trebi	936	----------	4	14.2	4	16.8	4	.9	4	1.2	4	37.5	14.1	88.9
Coast	690	----------	4	17.0	4	26.1	4	4.1	4	1.4	4	34.7	16.7	104.9
Himalaya	620	----------	4	11.2	4	14.6	4	2.5	4	1.0	4	23.9	10.6	67.0
Spartan	5027	----------	4	17.5	4	24.0	4	5.6	4	1.2	4	35.3	16.7	105.3
Vance	4585	----------	4	16.4	4	31.7	4	3.8	4	1.9	4	37.8	18.3	115.4
Blackhull 1180	6009	----------	4	18.7	4	33.7	4	4.0	4	1.2	4	36.9	18.9	119.0
Flynn	1311	----------	4	12.8	4	23.9	4	4.4	4	1.0	4	32.1	14.8	93.5
Vaughn	1367	----------	4	18.6	4	28.6	4	5.1	4	1.1	4	28.2	16.3	102.8
Blackhull	878	----------	4	13.8	4	27.4	4	3.4	4	1.2	4	25.1	14.2	89.3
Beecher	6566	Moscow 9	---	------	4	34.3	4	6.7	4	1.2	4	29.9	------	117.8
North Platte 1	5266	----------	---	------	---	------	4	5.0	4	1.4	4	34.1	------	114.7
Atlas × Vaughn	6973	Moscow 13	---	------	---	------	---	------	---	------	4	28.4	------	98.3
Lico	6279	----------	4	14.8	4	21.3	4	3.8	4	1.2	---	------	------	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:														
Trebi [2]	936	----------	10	74.7	10	90.5	10	57.1	10	31.0	10	58.0	62.3	100.0
Lico	6279	F. C. 1110	10	73.6	10	79.4	10	52.6	10	54.0	10	62.4	64.4	103.4
Trebi × Colsess	6369	F. C. 1124	10	78.0	10	80.9	10	50.8	10	46.1	10	63.4	63.8	102.5
(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	101.6
Coast × Lion	6368	F. C. 1109	10	66.6	10	85.5	10	54.8	10	47.8	10	59.5	62.8	100.9
Velvon	6109	F. C. 1138	10	67.8	10	69.3	10	57.5	10	55.7	10	55.0	61.1	98.1
Colsess × Trebi	6986	F. C. 1139	10	68.0	10	70.5	10	51.3	10	42.1	10	55.6	57.5	92.4
Trebi × Colsess	6370	F. C. 1125	10	66.2	10	77.5	10	43.3	10	39.8	10	59.4	57.2	91.9
Wisconsin Barbless	5105	----------	10	63.4	10	79.0	10	49.0	10	38.1	10	54.6	56.8	91.3
Coast 23	2791	----------	10	54.9	10	75.0	10	52.9	10	39.8	10	51.2	54.8	88.0
Ezond	5064	----------	10	69.1	10	65.3	10	48.1	10	39.2	10	51.6	54.7	87.8
Hannchen	531	----------	10	58.0	10	70.1	10	48.0	10	42.8	10	52.0	54.2	87.0
Velvet	4252	----------	10	56.4	10	68.1	10	35.1	10	38.0	10	48.2	49.2	79.0
Colsess	2792	----------	10	42.4	10	58.7	10	43.4	10	35.0	10	47.2	45.3	72.8
Regal	5030	----------	---	------	10	63.5	10	31.1	10	43.9	10	53.0	------	80.9
Flynn 134	6987	----------	---	------	---	------	10	65.1	10	47.6	10	47.8	------	109.9
Arivat	6573	----------	---	------	---	------	---	------	10	68.5	10	53.2	------	136.7
Beecher	6566	----------	---	------	---	------	---	------	10	66.6	10	52.5	------	133.8
Lico 393	6988	----------	---	------	---	------	---	------	---	------	10	68.0	------	117.2
Lico 351	6989	----------	---	------	---	------	---	------	---	------	10	66.9	------	115.3
Lico 448	6990	----------	---	------	---	------	---	------	---	------	10	64.7	------	111.6
Warrior	6991	----------	---	------	---	------	---	------	---	------	10	61.4	------	105.9
Union Beardless	5976	----------	10	57.5	10	72.5	10	46.1	10	52.0	---	------	------	90.1
Coast × Lion	------	F. C. 1119	10	72.0	10	79.4	---	------	---	------	---	------	------	91.6
Do	------	F. C. 1123	10	66.0	10	76.0	---	------	---	------	---	------	------	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.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Percent*
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	33.9	28.8	91.5
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	35.6	5	28.2	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	22.7	5	45.9	5	35.2	5	20.5	5	42.1	33.3	105.8
Smooth Awn 86	6268	---	------	---	------	---	------	5	17.2	5	49.8	------	106.3
Smooth Awn 102	6995	---	------	---	------	---	------	5	17.2	5	48.1	------	102.2
Sunrise	6272	---	------	---	------	---	------	5	16.4	5	40.8	------	89.5
Wisconsin Winter	2159	---	------	---	------	---	------	5	18.6	5	36.6	------	86.4
Marnobarb	6120	---	------	---	------	---	------	---	------	5	40.8	------	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	34.4	5	24.3	5	19.3	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	24.9	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	5	37.9	------	134.7
Smooth Awn 102	6995	---	------	---	------	---	------	5	44.6	5	32.0	------	102.1
Sunrise	6272	---	------	---	------	---	------	5	50.6	5	29.9	------	107.3
Wisconsin Winter	2159	---	------	---	------	---	------	5	41.8	5	20.8	------	83.5
Marnobarb	6120	---	------	---	------	---	------	---	------	5	32.5	------	115.2

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

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		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
				Bu.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Per-cent*
Experiment: [1]														
Tennessee Beardless 5 [2]	3384	184	6	0	6	17.6	6	57.6	6	34.4	10	26.6	27.2	100.0
Greece	221	168	6	0	6	18.9	6	57.8	6	32.9	10	37.1	29.3	107.7
Tennessee Winter	257	169	6	0	6	18.4	6	58.5	6	38.2	10	37.0	30.4	111.7
Texas Winter	554	171	6	0	6	19.7	6	57.5	6	38.6	10	36.8	30.5	112.0
Wisconsin Winter	519	172	6	0	6	18.4	6	59.7	6	37.5	10	36.2	30.4	111.5
Greece × Tennessee Beardless 5	6996	H398–1–2–2–5	6	0	6	17.5	6	58.4	6	37.3	10	33.8	29.4	107.9
Do	6997	H398–1–2–2–6	6	0	6	16.6	6	56.5	6	35.4	10	34.2	28.5	104.8
Do	6998	H398–1–2–11–4	6	0	6	23.5	6	65.2	6	39.4	10	36.0	32.8	120.5
Tennessee Beardless 5 selection	7001	P 900	6	0	6	14.6	6	43.9	6	31.1	10	33.6	24.6	90.5
Esaw	4690	970	6	0	6	20.7	6	57.8	6	37.6	10	27.9	28.8	105.7
Greece × Tennessee Beardless 5	6999	H398–1–2–2–5–4	6	0	6	17.3	6	57.5	---	-----	10	36.3	-----	109.1
North Carolina Hooded	5951	975	6	0	6	15.0	6	51.3	---	-----	10	23.6	-----	88.3
Nakano Wase 33	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 Beardless 5 selection	7002	P 901	---	-----	---	-----	---	-----	---	-----	10	39.0	-----	146.6
Do	7003	P 906	---	-----	---	-----	---	-----	---	-----	10	37.3	-----	140.2
Smooth Awn 203	6267	968	---	-----	---	-----	---	-----	---	-----	10	35.0	-----	131.6
Smooth Awn 205	7004	969	---	-----	---	-----	---	-----	---	-----	10	34.4	-----	129.3
Blackhull 1178	5679	979	---	-----	---	-----	---	-----	---	-----	10	34.7	-----	130.5
Athens:														
Nakano Wase [2]	2164	----------	4	56.0	4	50.1	4	33.3	4	32.3	4	24.7	39.3	100.0
Tennessee Beardless 5	3384	----------	4	41.5	4	32.8	4	16.6	4	38.8	4	34.1	32.8	83.4
Tennessee Winter 66	3546	----------	4	37.1	4	56.9	4	23.0	4	42.7	4	33.0	38.5	98.1
Tennessee Winter	257	----------	4	32.6	4	52.5	4	22.8	4	34.4	4	36.7	35.8	91.1
Awnless	5922	----------	4	31.5	4	50.0	4	43.8	4	39.6	4	40.1	41.0	104.4
Argentine	4594	----------	4	19.2	4	59.2	4	33.3	4	55.8	4	55.4	44.6	113.5
Greece	4593	----------	4	19.6	4	60.8	4	31.2	4	54.2	4	63.6	45.9	116.8
Mammoth	4683	----------	4	17.1	4	63.5	4	22.8	4	44.3	4	60.5	41.6	106.0
Orel	4592	----------	4	13.5	4	30.2	4	22.8	4	40.1	4	38.7	29.1	74.0

[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. Klages and H. K. Schultz.
Aberdeen Substation, Aberdeen----------Harland Stevens and J. L. Toevs.
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										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.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Percent*
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	31.6	5	46.7	49.7	77.2
Spartan	5027	2106	3	68.3	3	43.2	3	35.2	3	47.6	5	52.5	49.4	76.7
Ezond	5064	2112	3	63.4	3	73.1	3	62.0	3	47.6	5	62.8	61.8	96.0
Hannchen	4841	2113	3	73.9	3	76.2	3	49.8	3	45.4	5	65.5	62.2	96.6
Victory	5077	2116	3	79.0	3	74.4	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	63.2	3	71.0	3	54.9	3	49.1	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	44.5	3	66.8	3	56.7	3	47.9	5	63.8	55.9	86.9
Meloy	1176	2122	3	64.6	3	48.4	3	45.7	3	38.1	5	50.9	49.5	77.0
Black	-----	2123	3	65.9	3	70.6	3	46.9	3	58.6	5	55.3	59.5	92.4
Atlas × Vaughn	-----	12	3	78.1	3	72.8	3	42.3	3	71.9	5	62.1	65.4	101.7
Do	-----	14	3	79.8	3	86.4	3	46.2	3	47.4	5	57.3	63.4	98.5
Do	-----	15	3	75.9	3	82.8	3	45.0	3	58.4	5	57.0	63.8	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	84.3	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
Arivat	6573	19	3	81.9	3	80.0	3	49.9	3	46.1	5	77.7	67.1	104.3
Atlas × Vaughn	-----	21	3	91.5	3	85.1	3	48.0	3	48.3	5	81.9	71.0	110.3
Do	-----	22	3	75.0	3	87.6	3	38.2	3	65.9	5	73.5	68.0	105.7
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	75.4	70.5	109.5
Do	-----	25	3	83.6	3	88.9	3	48.8	3	47.3	5	76.0	68.9	107.1
Do	-----	26	3	92.1	3	89.4	3	50.6	3	50.3	5	79.0	72.3	112.3
Do	-----	27	3	106.5	3	81.4	3	50.4	3	42.8	5	71.5	70.5	109.6
Do	-----	28	3	65.9	3	91.5	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	96.3	3	61.6	3	58.9	5	72.4	72.8	113.1
Glacier	6976	33	3	94.5	3	95.3	3	63.8	3	44.6	5	62.2	72.1	112.0
Atlas × Vaughn	-----	34	3	69.9	3	88.4	3	75.7	3	40.2	5	62.9	67.4	104.8
Do	-----	35	3	84.1	3	102.3	3	90.1	3	52.5	5	86.4	83.1	129.1
Do	-----	36	3	79.8	3	88.3	3	53.5	3	55.5	5	64.6	68.3	106.2
Do	-----	37	3	94.0	3	93.5	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	79.5	73.6	114.4
Do	6977	39	3	70.7	3	70.5	3	44.4	3	58.8	5	80.6	65.0	101.0
Do	-----	41	3	85.3	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	79.6	71.3	110.8
Do	6978	43	3	82.9	3	88.3	3	32.1	3	68.5	5	78.0	70.0	108.7
Do	-----	45	3	87.9	3	78.5	3	35.5	3	54.4	5	67.4	64.7	100.6
Do	-----	46	3	65.8	3	88.7	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	73.6	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	8	115.3	3	112.8	2	[2]106.7	2	[3]121.8	112.1	100.0
Velvon	6109	-----	3	107.5	3	113.1	2	103.2	2	103.8	3	124.2	110.4	98.4
Ezond	6265	-----	3	91.4	3	105.5	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	93.5
Hannchen	531	-----	3	85.7	3	103.5	3	97.0	2	92.8	2	[3]107.0	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	1	75.1	1	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	89.5	79.8
Do	5461	-----	3	102.7	2	100.2	1	75.5	2	66.5	2	95.6	88.1	78.6

See footnotes at end of table.

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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Aberdeen—Con.														
Lico	6279						3	90.3	2	93.2	3	117.1		88.1
Hannchen × Minia	7005	36Ab.5117			[2]		1	109.7	2	111.0	2	[3]119.1		99.6
Murasaki Mochi	5899						1	52.3	1	67.9	2	71.0		56.0
Meloy	1176		2	74.8	1	95.8					3	90.4		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 × Horn	7006	36Ab.4631									1	112.1		92.0
Composite Cross selection	5280		3	96.0	3	98.5	3	91.7	2	89.0				85.5
Afghan I	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 × Trebi		36Ab.4331					1	102.1	2	108.4				95.9
Minia	3556						1	93.7	1	75.1				76.9
Composite Cross selection		36Ab.3452					1	83.5						74.0
Do	5323		1	94.1	3	111.5								93.8
Sandpoint:														
Trebi [1]	936	2073	2	33.9	2	19.7	2	58.8	2	36.2	2	57.4	41.2	100.0
Beldi Giant	2777		2	32.8	2	22.8	2	54.2	2	35.2	2	61.8	41.4	100.4
Charlottetown 80	2732	2118	2	32.7	2	20.7	2	51.2	2	30.3	2	38.7	34.7	84.3
Hannchen	531		2	39.5	2	26.2	2	55.7	2	34.5	2	52.5	41.7	101.2
Union Beardless	5976	2108	2	37.5	2	22.8	2	49.0	2	34.6	2	55.5	39.9	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										Average yield, 1937–41	Relative yield compared with standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Urbana:														
Spring-sown				Bu.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Wisconsin Barbless [1]	5105		2	52.1	2	27.4	2	26.5	6	50.1	6	47.3	40.7	100.0
Trebi	936		2	54.3	2	33.0	2	33.2	6	46.8	6	41.7	41.8	102.8
Ioglos	6239		2	47.7	2	31.9	2	28.4	6	37.2	6	45.5	38.1	93.8
Velvet	4252		2	45.6	2	27.0	2	31.2	6	36.0	6	42.6	36.5	89.7
Orderbrucker	4666		2	43.7	2	33.7	2	31.4	6	41.5	6	39.9	38.0	93.5
Manchuria	2947	N. Dak. 2121	2	41.6	2	25.0	2	28.0			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		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
				Bu.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Urbana—Continued:														
Spartan	5027		2	48.2	2	32.7	2	33.6						108.0
Glabron	4577		2	38.1	2	26.0	2	32.3						90.9
Regal	5030								6	44.0				87.8
New Era	5108		2	35.2										67.6
Fall-sown														
Purdue 21 [1]	4581		2	28.9	2	44.2	4	61.4	6	34.3	6	33.2	40.4	100.0
Purdue 1101	4582		2	37.2	2	51.6	4	63.7	6	38.5	6	30.1	44.2	109.5
Kentucky 1	6050		2	28.0	2	45.1	4	63.8	6	41.9	6	21.8	40.1	99.3
Tennessee Winter	6034		2	11.0	2	20.4	4	45.5	6	41.1	6	8.9	25.4	62.8
Missouri Early Beardless	6051		2	20.4	2	22.9	4	38.1	6	21.7	6	4.5	21.5	53.3
Smooth Awn 203	6267		2	30.0	2	12.1	4	56.2	6	25.2	6	.1	24.7	61.2
Orel	351						4	53.6	6	19.7	6	.3		57.1
Purdue 28156A3–2–2–2	6562								6	38.0	6	30.3		101.2
Reno	6561								6	43.6	6	14.1		85.5
Santiam	6367								6	40.4	6	3.0		64.3
Marnobarb	6120								6	27.1	6	.8		41.3
Tennessee Winter 52	3543								6	30.9	6	4.0		51.7
Wisconsin Winter	2159								6	25.0	6	3.8		42.7
Jackson	6569	Tenn. B5–9 (S)							6	26.8	6	.7		40.7
Esaw	4690		2	3.0	2	13.1	4	57.8	6	23.5				57.7
Alhambra:														
Spring-sown														
Wisconsin Barbless [1]	5105						2	11.4			6	8.7		100.0
Spartan	5027								6	31.2	6	19.6		225.3
Fall-sown														
Purdue 21 [1]	4581		5	61.6	5	24.6	5	44.0	5	52.7	2	27.1	42.0	100.0
Missouri Early Beardless	6051		5	38.9	5	9.2	5	34.5	5	46.8	2	20.6	30.0	71.4
Kentucky 1	6050		5	65.0	5	29.9	5	62.5	5	58.0	2	23.3	47.7	113.7
Purdue 1101	4582		5	42.3	5	60.6	5	37.6			2	32.1		109.7
Tennessee Winter	6034		5	42.4	5	25.2	5	18.2			2	20.4		67.5
Smooth Awn 203	6267		5	44.1	5	.1	5	30.9			2	20.4		60.7
Marnobarb	6120								5	51.0	2	23.3		93.1
Orel	351						5	15.6			2	18.2		47.5
Reno	6561										2	31.4		115.9
Tennessee Winter 52	3543										2	30.3		111.8
Wisconsin Winter	2159										2	26.0		95.9
Tennessee Smooth Awn	6570	Tenn. B5–14									2	25.8		95.2
Santiam	6367										2	21.9		80.8
Tennessee Smooth Awn		Tenn. B3–56									2	20.4		75.3
Jackson	6569	Tenn. B5–9 (S)									2	18.5		68.3
Esaw	4690		5	39.1			5	13.6						49.9
De Kalb: [2]														
Spring-sown														
Wisconsin Barbless [1]	5105		2	23.4	2	34.8	2	35.2	6	55.2	6	41.6	38.0	100.0
Trebi	936		2	32.1	2	40.4	2	42.5	6	59.9	6	33.5	41.7	109.6
Velvet	4252		2	17.0	2	31.3	2	33.1	6	52.0	6	34.3	33.5	88.2
Ioglos	6239		2	17.6	2	31.4	2	34.1	6	56.7	6	32.7	34.5	90.7
Oderbrucker	4666		2	16.3	2	30.5	2	36.3	6	48.3	6	31.9	32.7	85.9
Manchuria	2947	N. Dak. 2121	2	16.3	2	29.9	2	34.9			6	29.5		81.9
Spartan	5027		2	31.7	2	27.1	2	35.0	6	48.7				95.9
Glabron	4577		2	14.5	2	29.2	2	36.4						85.8
Regal	5030								6	58.0				105.1
New Era	5108		2	17.9										76.5

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

INDIANA

Purdue University Agricultural Experiment Station, La Fayette
-----R. R. Mulvey.
Jennings County Experiment Field, North Vernon
-----In care of R. R. Mulvey, La Fayette.
Moses Fell Annex Farm, Bedford----------H. G. Hall.
Knox County Experiment Field, Bicknell
-----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 compared with standard
		1937		1938		1939		1940		1941			
		Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
La Fayette:													
Fall-sown			*Bu.*		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Percent*
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	99.0
Kentucky 1	6050	2	48.8	2	44.1	2	42.5	2	45.3	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 Beardless	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	6562	---	------	2	27.0	2	34.3	2	36.9	2	36.2	------	84.2
Purdue 28154A3-1-1-6	7067	---	------	---	------	2	31.5	2	41.9	2	42.9	------	95.1
Purdue 28156A3-2-1-3	------	---	------	---	------	2	31.7	2	34.9	2	34.3	------	82.5
Purdue 28156A3-2-1-2	------	---	------	---	------	2	31.5	2	39.7	2	36.1	------	87.7
Purdue 28156A4-1-1-6	------	---	------	---	------	2	29.0	2	40.0	2	41.3	------	90.2
Marnobarb	6120	2	38.4	2	11.1	---	------	---	------	---	------	------	59.5
Spring-sown													
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	6.0	---	------	---	------	---	------	------	94.4
Glabron	4577	2	23.8	2	3.3	---	------	---	------	---	------	------	66.3
Velvet	4252	2	37.6	2	7.8	---	------	---	------	---	------	------	111.0
Wisconsin Barbless	5105	2	27.5	2	2.8	---	------	---	------	---	------	------	74.1
Oderbrucker × Lion (Sta. No. Wis. Ped. 37)	5028	2	34.1	2	6.0	---	------	---	------	---	------	------	98.0
North Vernon:													
Fall-sown													
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 Beardless	6051	1	14.9	1	9.3	1	16.5	1	14.5	1	30.3	17.1	90.5
Kentucky 1	6050	---	------	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:													
Fall-sown													
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 Beardless	6051	1	41.0	1	24.3	1	40.3	1	50.3	1	31.7	37.5	96.4
Kentucky 1	6050	---	------	1	42.4	1	43.8	1	56.9	1	36.1	------	119.7
Marnobarb	6120	1	41.0	1	34.4	---	------	---	------	---	------	------	95.7
Bicknell:													
Fall-sown													
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 Beardless	6051	1	24.0	1	20.0	1	27.0	1	30.9	1	24.4	25.3	84.9
Kentucky 1	6050	---	------	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 compared with standard
		1937		1938		1939		1940		1941			
		Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
			Bu.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Percent*
Ames: [1]													
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 Barbless	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	25.5	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	24.2	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 Barbless	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	35.0	10	38.2	4	10.0	30.6	90.6
Manchuria	2947	10	25.7	10	23.3	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	35.2	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.

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 compared with standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
				Bu.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Percent*
Manhattan:														
Spring-sown														
Stavropol	5913	7136	3	35.9	3	46.6	---	---	---	---	---	---	---	---
Flynn	1311	7143	---	---	---	---	3	2.1	3	21.8	3	29.3	---	---
Fall-sown [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	6561	7178	---	---	---	---	---	---	1	29.3	1	24.3	---	135.7
Ward	6007	7179	---	---	---	---	---	---	1	26.4	1	33.3	---	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	---	---	---	---	---	---	1	31.0	---	---	---	154.2
Manchuria	245	7181	---	---	---	---	---	---	1	35.4	---	---	---	176.1
McLouth: [3]														
Fall-sown														
Kansas Southeast strain [2]	7070	7176	3	32.1	2	31.1	3	37.4	3	62.4	3	0	32.6	100.0
Missouri Early Beardless	6051	7182	3	0	3	0	2	29.2	3	42.5	3	0	14.3	71.8
Reno	6561	7178	---	---	3	0	3	38.6	3	55.1	3	0	---	93.9
Ward	6007	7179	---	---	---	---	---	---	---	---	3	0	---	---
Columbus:														
Fall-sown														
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	6561	7178	---	---	2	64.4	2	34.8	2	37.2	3	38.5	---	205.3
Ward	6007	7179	---	---	---	---	---	---	2	32.9	3	33.7	---	187.1
Kansas South-central strain	6376	7177	2	38.1	2	58.8	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	245	7181	---	---	---	---	---	---	2	6.1	---	---	---	42.7
Thayer:														
Fall-sown														
Reno [2]	6561	7178	---	---	---	---	3	21.6	3	22.2	3	44.1	---	100.0
Missouri Early Beardless	6051	7182	---	---	---	---	3	20.7	3	14.1	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	245	7181	---	---	---	---	---	---	2	15.6	---	---	---	70.3
Kentucky 2	6148	8081	---	---	---	---	3	20.6	---	---	---	---	---	95.4
Wichita:														
Spring-sown														
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
Trebi	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										Average yield, 1937–41	Relative yield compared with standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Wichita—Continued.														
Fall-sown				Bu.		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	46.8		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				100.3
Bluebaugh [5]					2	49.8								128.0
Kingman:														
Spring-sown														
Flynn [2]	1311	7143	4	22.3	4	28.4	6	13.2	2	26.0	2	28.9	23.8	100.0
Stavropol	5913	7136	4	22.2	4	39.1	6	12.1	2	22.1	2	33.8	25.9	108.8
Malt [4]		7183	4	23.6	4	40.8	6	9.8	2	27.7				113.3
Trebi	936	7137			4	32.3								113.7
Fall-sown [6]														
Kansas South-central strain [2]	6376	7177	2	19.1	2	41.6	2	0	1	27.3	2	42.4	26.1	100.0
Missouri Early Beardless	6051	7182	2	12.1	2	33.5	2	0	1	16.5	2	30.2	18.5	70.8
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:														
Spring-sown														
Flynn [2]	1311	7143					4	14.7	2	57.8	2	30.5		100.0
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
Fall-sown														
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	41.3				99.0
Ward	6007	7179							2	31.4				75.3
Hays:														
Spring-sown														
Flynn 1 [2]	5911		2	23.4	2	50.3	2	15.9	4	28.5	4	57.4	35.1	100.0
Vaughn	1367		2	20.3	2	49.5	2	15.1	4	24.7	4	51.3	32.2	91.7
Club Mariout	261		2	19.3	2	24.0	2	9.4	4	25.0	4	42.3	24.0	68.4
Stavropol	5913		2	18.7	2	35.9	2	7.3	4	29.8	4	48.5	28.0	79.9
Franklin Malt	5915		2	24.7	2	29.9	2	2.6	4	27.1	4	45.0	25.9	73.7
Spartan	5027		2	21.1	2	33.0	2	5.0	4	25.0	4	45.8	26.0	74.0
White Smyrna	195		2	30.2	2	32.6	2	11.2	4	23.2	4	44.3	28.3	80.6
Flynn	7009	H. C. 388			2	33.9	2	8.6	2	32.3	4	46.5		79.8
Beecher	6566				2	45.3	2	20.3	4	21.1	4	47.8		88.4
Glacier	6976	Moscow 33									4	57.8		100.7
Hannchen	531										4	38.8		67.6
Wisconsin Barbless	5105										1	55.2		96.2
Atlas × 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:														
Spring-sown														
Flynn 1 [2]	5911		3	10.5	3	13.2	3	18.4	3	26.5	3	51.5	24.0	100.0
Vaughn	1367		3	8.6	3	10.9	3	16.4	3	19.4	3	51.2	21.3	88.7
Stavropol	5913		3	8.5	3	18.0	3	11.5	3	13.0	3	50.7	20.3	84.7
Spartan	5027		3	6.9	3	8.0	3	15.4	3	13.7	3	50.3	18.9	78.5
Club Mariout	261		3	6.7	3	9.7	3	12.8	3	19.9	3	56.1	21.0	87.6
Franklin Malt	5915		3	.7	3	11.8	3	7.9	3	7.3	3	42.9	14.1	58.8
Beecher	6566								3	23.6	3	66.6		115.6
Hannchen	531										3	25.7		49.9
Wisconsin Barbless	5105										3	27.6		53.6

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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Tribune: [7]														
Spring-sown														
Flynn [2]	1311	7143	2	0	2	17.1	2	4.3	2	3.8	2	58.9	16.8	100.0
Vaughn	1367	8073	2	0	2	16.3	2	4.9	2	3.6	2	50.2	15.0	89.2
Stavropol	5913	7136	2	0	2	23.0	2	4.1	2	2.5	2	49.8	15.9	94.4
Beecher	6566	8086	---	---	---	---	---	---	---	---	2	67.1	-----	113.9
Spartan	5027	8075	---	---	---	---	---	---	---	---	2	38.6	-----	65.5
Malt [4]	-----	7183	2	0	2	18.6	2	2.2	---	---	---	---	-----	97.2
Club Mariout	261	7131	2	0	2	12.6	2	5.4	---	---	---	---	-----	84.1
Trebi	936	7137	2	0	2	18.2	---	---	---	---	---	---	-----	106.4
Garden City:														
Spring-sown														
Flynn 1 [2]	5911	----------	1	13.5	3	5.5	3	1.7	3	41.3	3	49.4	22.3	100.0
Vaughn	1367	----------	1	14.9	3	5.9	3	1.8	3	37.9	3	48.1	21.7	97.5
Stavropol	5913	----------	1	14.2	3	1.0	3	1.2	3	38.0	3	57.5	22.4	100.4
Club Mariout	261	----------	1	12.8	3	6.0	3	.9	3	29.9	3	37.8	17.5	78.5
Franklin Malt	5915	----------	1	11.3	3	2.1	3	.8	3	26.3	---	---	-----	65.3
Hannchen	531	----------	---	---	---	---	---	---	---	---	3	34.0	-----	68.8
Dodge City: [8]														
Spring-sown														
Flynn [2]	1311	7143	---	---	2	9.5	2	13.7	2	45.9	2	47.4	-----	100.0
Stavropol	5913	7136	---	---	2	10.3	2	11.2	2	40.2	2	47.9	-----	94.1
Vaughn	1367	8073	---	---	2	7.3	2	12.7	2	49.2	2	45.7	-----	98.6
Meade: [8]														
Spring-sown														
Flynn [2]	1311	7143	---	---	2	18.8	2	7.9	2	24.8	2	56.4	-----	100.0
Stavropol	5913	7136	---	---	2	16.7	2	4.6	2	22.1	2	43.0	-----	80.1
Vaughn	1367	8073	---	---	2	17.6	2	7.6	2	26.5	2	58.7	-----	102.3

[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										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.		Bu.		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	100.0
Byng	6089	4	57.4	5	26.2	5	47.6	6	69.2	10	50.1	50.1	107.3
Velvet	4252	4	48.1	5	17.8	5	37.5	6	53.9	10	25.7	36.6	78.4
Wisconsin Barbless	5105	4	37.7	5	18.6	5	35.5	6	54.8	10	41.8	37.7	80.7
Hannchen	531	---	------	5	20.6	5	41.7	6	65.7	10	47.1	------	93.7
Oderbrucker	4666	---	------	5	20.2	5	35.2	6	51.2	10	25.9	------	70.9
Spartan	5027	4	39.7	5	15.9	---	------	---	------	---	------	------	73.0
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										Average yield, 1937–41	Relative yield compared with standard
			1937		1938 [1]		1939 [1]		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
				Bu.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Tennessee Winter [2]	257		2	45.1	2	0	2	25.0	2	18.9	3	24.6	22.7	100.0
Marnobarb	6120	13–6	2	43.3	2	0	2	19.2	2	17.0	3	20.2	19.9	87.8
Smooth Awn selection	6495	15–8	2	47.9	2	0	2	18.8	2	16.5	3	23.4	21.3	93.8
Smooth Awn 86	6268		2	47.0	2	0	2	16.8	2	16.1	3	30.2	22.0	96.9
Missouri Early Beardless	6051		2	37.9	2	0	2	26.4	2	14.5	3	24.1	20.6	90.6
Tennessee Winter	6034						2	23.8	2	20.4	3	27.3	-----	104.4
Kentucky 1	6050										3	19.9	-----	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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
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	44.8	38.6	108.7
Alpha	959	121	6	24.4	6	49.3	6	35.3	6	45.2	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	42.5	119.7
Manchuria	1275	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
Trebi	936	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	6088	205			6	50.6	6	34.3	6	23.7	6	33.8	-----	93.3
Nobarb	6335	227							4	44.6	6	42.7	-----	115.8
Glabron	4577	99	6	27.5	6	48.6	6	36.1					-----	109.7
Minnesota 450	4646	100	6	34.8	6	54.2	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										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.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Per-cent*
St. Paul:														
Manchuria [1]	2330	184	3	27.9	3	41.4	3	33.5	3	55.5	3	46.5	41.0	100.0
Peatland	5267	452	3	33.0	3	50.6	3	51.6	3	73.3	3	54.9	52.7	128.6
Velvet	4252	447	3	34.2	3	42.2	3	44.4	3	73.3	3	54.7	49.8	121.5
Minsturdi	1556	439	3	42.0	3	58.3	3	42.0	3	68.9	3	61.0	54.4	132.9
Wisconsin Barbless	5105	529	3	30.5	3	54.8	3	49.6	3	77.8	3	64.7	55.5	135.4
O. A. C. 21	1470	587	---	-----	---	-----	3	56.7	3	71.8	3	65.5	-----	143.2
Gartons	7016	588	---	-----	---	-----	3	52.0	3	71.2	3	42.4	-----	122.2
Spartan	5027	536	---	-----	---	-----	---	-----	3	77.0	3	58.4	-----	132.7
Minnesota 462 × Peatland	7010	II–31–15	---	-----	---	-----	---	-----	---	-----	3	52.8	-----	113.5
Do	7011	II–31–19	---	-----	---	-----	---	-----	---	-----	3	55.4	-----	119.1
Do	7012	II–31–25	---	-----	---	-----	---	-----	---	-----	3	52.1	-----	112.0
Do	7013	II–31–37	---	-----	---	-----	---	-----	---	-----	3	52.2	-----	112.3
Do	7014	II–31–39	---	-----	---	-----	---	-----	---	-----	3	53.3	-----	114.6
Mars	7015	II–31–45	---	-----	---	-----	---	-----	---	-----	3	62.4	-----	134.2
Glabron	4577	445	3	37.9	3	45.9	3	45.7	3	69.7	---	-----	-----	125.8
Trebi	936	448	3	46.0	3	58.4	3	48.7	3	71.5	---	-----	-----	141.9
Ioglos	6239	586	---	-----	3	56.8	3	37.2	3	65.7	---	-----	-----	122.5
Oderbrucker	4666	528	3	18.8	3	42.4	---	-----	---	-----	---	-----	-----	88.3
Odessa	182	564	3	34.6	3	42.4	---	-----	---	-----	---	-----	-----	111.1
Lion × 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	35.9	45.5	100.0
Peatland	5267	452	3	48.3	3	44.0	3	58.2	3	83.7	3	34.5	53.7	118.2
Velvet	4252	447	3	44.6	3	47.7	3	61.7	3	61.3	3	35.1	50.1	110.2
Minsturdi	1556	439	3	54.1	3	47.4	3	52.7	3	66.2	3	36.5	51.4	113.0
Wisconsin Barbless	5105	529	3	57.1	3	56.8	---	-----	3	103.4	3	43.3	-----	146.0
Spartan	5027	536	---	-----	---	-----	---	-----	3	62.9	3	46.9	-----	123.0
Minnesota 462 × Peatland	7010	II–31–15	---	-----	---	-----	---	-----	---	-----	3	41.5	-----	115.6
Do	7011	II–31–19	---	-----	---	-----	---	-----	---	-----	3	42.4	-----	118.1
Do	7012	II–31–25	---	-----	---	-----	---	-----	---	-----	3	32.5	-----	90.5
Do	7013	II–31–37	---	-----	---	-----	---	-----	---	-----	3	37.9	-----	105.6
Do	7014	II–31–39	---	-----	---	-----	---	-----	---	-----	3	28.9	-----	80.5
Mars	7015	II–31–45	---	-----	---	-----	---	-----	---	-----	3	43.6	-----	121.4
Glabron	4577	445	3	39.0	3	44.4	3	53.7	3	61.6	---	-----	-----	103.8
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
Ioglos	6239	586	---	-----	3	45.1	3	59.5	3	66.9	---	-----	-----	119.3
Odessa	182	564	3	52.4	---	-----	---	-----	---	-----	---	-----	-----	109.9
Lion × Manchuria	6001	565	3	46.4	---	-----	---	-----	---	-----	---	-----	-----	97.3
Morris:														
Manchuria [1]	2330	184	3	31.5	3	49.0	3	31.1	3	51.2	3	39.3	40.4	100.0
Peatland	5267	452	3	31.8	3	48.8	3	41.7	3	59.6	3	47.0	45.8	113.3
Velvet	4252	447	3	34.3	3	50.9	3	48.6	3	52.7	3	41.4	45.6	112.8
Wisconsin Barbless	5105	529	3	43.4	3	64.6	3	55.1	3	72.4	3	53.3	57.8	142.9
Gartons	7016	588	---	-----	---	-----	3	44.0	3	61.2	3	43.6	-----	122.4
Spartan	5027	536	---	-----	---	-----	---	-----	---	-----	3	54.1	-----	137.7
Minnesota 462 × Peatland	7010	II–31–15	---	-----	---	-----	---	-----	---	-----	3	46.1	-----	117.3
Do	7011	II–31–19	---	-----	---	-----	---	-----	---	-----	3	51.5	-----	131.0
Do	7012	II–31–25	---	-----	---	-----	---	-----	---	-----	3	45.0	-----	114.5
Do	7013	II–31–37	---	-----	---	-----	---	-----	---	-----	3	47.6	-----	121.1
Do	7014	II–31–39	---	-----	---	-----	---	-----	---	-----	3	41.5	-----	105.6

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 compared with standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
				Bu.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Morris—Continued.														
Mars	7015	II–31–45	---	-----	---	-----	---	-----	---	-----	3	56.0	-----	142.5
Glabron	4577	445	3	30.5	3	55.3	3	46.8	3	58.9	---	-----	-----	117.6
Trebi	936	448	3	42.9	3	63.7	3	44.6	3	70.4	---	-----	-----	136.1
Ioglos	6239	586	---	-----	3	54.7	3	46.7	3	65.1	---	-----	-----	126.8
Oderbrucker	4666	528	3	24.1	3	50.6	---	-----	---	-----	---	-----	-----	92.8
Odessa	182	564	3	34.8	---	-----	---	-----	---	-----	---	-----	-----	110.5
Lion × Manchuria	6001	565	3	37.5	---	-----	---	-----	---	-----	---	-----	-----	119.0
Crookston:														
Manchuria[1]	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	4252	447	3	38.6	3	33.7	3	41.2	3	40.0	3	43.8	39.5	126.6
Wisconsin Barbless	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
Gartons	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 × Peatland	7010	II–31–15	---	-----	---	-----	---	-----	---	-----	3	37.1	-----	156.5
Do	7011	II–31–19	---	-----	---	-----	---	-----	---	-----	3	42.8	-----	180.6
Do	7012	II–31–25	---	-----	---	-----	---	-----	---	-----	3	31.6	-----	133.3
Do	7013	II–31–37	---	-----	---	-----	---	-----	---	-----	3	37.6	-----	158.6
Do	7014	II–31–39	---	-----	---	-----	---	-----	---	-----	3	37.3	-----	157.4
Mars	7015	II–31–45	---	-----	---	-----	---	-----	---	-----	3	41.9	-----	176.8
Glabron	4577	445	3	33.4	3	39.8	3	41.4	3	42.2	---	-----	-----	118.7
Trebi	936	448	3	39.0	3	37.5	3	56.3	3	43.9	---	-----	-----	133.8
Ioglos	6239	586	---	-----	3	34.1	3	43.8	3	45.9	---	-----	-----	115.8
Oderbrucker	4666	528	3	28.4	3	25.7	---	-----	---	-----	---	-----	-----	98.5
Odessa	182	564	3	35.5	3	35.1	---	-----	---	-----	---	-----	-----	128.6
Lion × Manchuria	6001	565	3	29.6	---	-----	---	-----	---	-----	---	-----	-----	117.5
Grand Rapids:														
Manchuria [1]	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	4252	447	3	25.5	3	16.6	3	38.4	3	44.5	3	48.2	34.6	122.6
Wisconsin Barbless	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 × Peatland	7010	II–31–15	---	-----	---	-----	---	-----	---	-----	3	42.0	-----	134.6
Do	7011	II–31–19	---	-----	---	-----	---	-----	---	-----	3	26.1	-----	83.7
Do	7012	II–31–25	---	-----	---	-----	---	-----	---	-----	3	37.7	-----	120.8
Do	7013	II–31–37	---	-----	---	-----	---	-----	---	-----	3	33.6	-----	107.7
Do	7014	II–31–39	---	-----	---	-----	---	-----	---	-----	3	26.3	-----	84.3
Mars	7015	II–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
Ioglos	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 × Manchuria	6001	565	3	27.1	---	-----	---	-----	---	-----	---	-----	-----	112.4
Duluth:														
Manchuria [1]	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	4252	447	3	14.0	3	27.7	3	39.0	3	29.0	3	27.8	27.5	107.8
Wisconsin Barbless	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	-----	96.0
Minnesota 462 × Peatland	7010	II–31–15	---	-----	---	-----	---	-----	---	-----	3	30.6	-----	149.3
Do	7011	II–31–19	---	-----	---	-----	---	-----	---	-----	3	32.9	-----	160.5
Do	7012	II–31–25	---	-----	---	-----	---	-----	---	-----	3	32.4	-----	158.0
Do	7013	II–31–37	---	-----	---	-----	---	-----	---	-----	3	35.5	-----	173.2
Do	7014	II–31–39	---	-----	---	-----	---	-----	---	-----	3	30.6	-----	149.3
Mars	7015	II–31–45	---	-----	---	-----	---	-----	---	-----	3	36.0	-----	175.6
Glabron	4577	445	3	19.8	3	24.2	3	30.5	3	29.9	---	-----	-----	97.5
Trebi	936	448	3	20.5	3	27.6	3	49.4	3	39.8	---	-----	-----	128.2
Ioglos	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	---	-----	---	-----	---	-----	---	-----	-----	165.0
Lion × Manchuria	6001	565	3	12.4	---	-----	---	-----	---	-----	---	-----	-----	100.8

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

MISSISSIPPI

Mississippi Agricultural Experiment Station, State College____J. F. 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 compared with standard
		1937		1938		1939		1940		1941			
		Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
			Bu.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
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 Beardless	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	57.5	6	60.9	------	114.6
Wintex	6127	---	------	---	------	4	48.8	6	58.1	6	54.9	------	113.7
Missouri Early Beardless	6051	---	------	---	------	4	23.4	6	47.5	6	33.9	------	73.6
Finley	5901	---	------	4	32.7	---	------	6	51.9	6	51.8	------	97.3
Reno	6561	---	------	---	------	---	------	6	55.9	6	50.3	------	106.1
Hooded 16	6574	---	------	---	------	---	------	---	------	6	43.5	------	89.7
Tennessee Winter 52	3543	---	------	---	------	---	------	6	51.4	---	------	------	99.6
Tennessee Winter 61	3545	---	------	4	32.5	4	34.2	---	------	---	------	------	81.0

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

MISSOURI

Missouri Agricultural Experiment Station, Columbia_____J. M. Poehlman.

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 compared with standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Fall-sown nursery plots [1]				Bu.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Michigan Winter [2]	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	7017	B 217	10	33.3	10	39.6	10	33.6	10	53.6	10	0	32.0	92.5
Kentucky 5	7018	B 269	10	59.1	10	38.0	10	37.5	10	52.7	10	0	37.5	108.3
Wisconsin Winter	2159	B 236	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	43.7	10	41.4	10	34.8	10	59.8	10	0	35.9	103.9
Han River	2163	B 238	10	47.8	10	23.9	10	30.2	10	68.2	10	0	34.0	98.3
Cusado	895	B 252	10	40.3	10	32.9	10	30.5	10	45.4	10	0	29.8	86.2
Arabel	896	B 253	10	50.3	10	27.7	10	32.0	10	55.8	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	------	104.6
Poland	6280	B 388	---	------	10	31.0	10	32.5	10	53.9	10	0	------	92.7
Ward	6007	B 392	---	------	10	43.3	10	41.8	10	53.4	10	0	------	109.4
Randolph	6372	B 417	---	------	---	------	10	42.2	10	60.0	10	0	------	117.1
Reno	6561	B 420	---	------	---	------	---	------	10	48.4	10	0	------	91.8
Manchuria	245	B 418	---	------	---	------	---	------	10	56.2	10	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										Average yield, 1937–41	Relative yield compared with standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Fall-sown nursery plots—Continued.				Bu.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Tenkow	646	B 419	---	---	---	---	---	---	10	52.6	10	0	-----	99.8
Purdue 21	4581	B 393	---	---	10	42.1	10	33.7	---	---	---	---	-----	102.6
Tennessee Beardless 5	3384	B 219	10	26.5	---	---	---	---	---	---	---	---	-----	57.1
Tennessee Beardless 6	2746	B 287	10	24.3	---	---	---	---	---	---	---	---	-----	52.4
Hansee Hull-less	703	B 265	10	31.5	---	---	---	---	---	---	---	---	-----	67.9
Clancy	1002	B 268	10	26.7	---	---	---	---	---	---	---	---	-----	57.5
Fall-sown field plots														
Michigan Winter [2]	2036	B 270	---	---	---	---	---	---	4	36.5	4	[3]42.7	-----	100.0
Missouri Early Beardless	6051	B 288	---	---	---	---	---	---	4	34.7	4	[4]19.5	-----	68.4
Reno	6561	B 420	---	---	---	---	---	---	4	38.5	4	[5]49.8	-----	111.5
Manchuria	245	B 418	---	---	---	---	---	---	4	44.0	4	[6]0	-----	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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Bozeman:														
Trebi [1]	936	1500	3	91.4	3	100.8	3	102.4	3	80.5	3	95.7	94.2	100.0
Manchuria	2947	1617	3	69.6	3	66.1	3	60.2	3	71.9	3	77.0	69.0	73.2
Wisconsin Barbless	5105	1614	3	70.4	3	70.0	3	90.6	3	87.9	3	84.0	80.6	85.6
Smooth Awn × Manchuria	5998	1618	3	87.9	3	87.5	3	79.7	3	99.9	3	98.8	90.8	96.4
Atlas × Vaughn	6973	Moscow 13	---	---	3	107.0	3	107.3	3	93.3	3	108.2	-----	109.6
Velvon	6109	1623	---	---	3	96.5	3	96.7	3	104.2	3	102.3	-----	105.4
Composite Cross selection	5436	1625	---	---	---	---	3	91.8	3	92.2	3	100.7	-----	102.2
Compana	5438	1626	---	---	---	---	3	86.1	3	96.4	3	100.7	-----	101.7
Glacier	6976	Moscow 33	---	---	---	---	---	---	---	---	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 1	5462	1613	3	84.0	3	89.1	3	77.6	---	---	---	---	-----	85.1
Oderbrucker	1272	1620	3	55.6	3	58.8	3	61.0	---	---	---	---	-----	59.5
Rhodesia	3339	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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Bozeman—Con.														
Atlas	4118	1585	3	82.9	3	68.1	---	---	---	---	---	---	---	78.6
Trebi × Velvet 4	6353	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	4.7	4	54.8	4	27.8	4	16.2	4	34.5	27.6	100.0
Horn	926	1559	2	2.3	4	42.8	4	40.0	4	7.2	4	24.1	23.3	84.3
Compana	5438	1626	2	7.7	4	55.0	4	35.8	4	20.4	4	39.3	31.6	114.6
Atlas × Vaughn	6973	Moscow 13	---	---	---	---	---	---	4	24.9	4	39.3	---	126.6
Composite Cross selection	5297	---	---	---	---	---	---	---	4	24.4	4	43.4	---	133.7
Do	5436	1625	---	---	---	---	---	---	4	19.7	4	36.0	---	109.9
Glacier	6976	Moscow 33	---	---	---	---	---	---	---	---	4	44.8	---	129.9
Velvon	6109	1623	---	---	---	---	---	---	---	---	4	44.5	---	129.9
Atlas	4118	1585	2	5.3	4	49.4	4	29.9	---	---	---	---	---	96.9
Composite Cross selection	5414	---	2	5.7	4	51.3	4	35.5	---	---	---	---	---	106.0
Do	5429	---	2	5.3	4	53.4	4	35.3	---	---	---	---	---	107.7
Coast	690	---	2	5.1	4	45.7	---	---	---	---	---	---	---	85.4
Unnamed	4197–1	---	2	4.1	4	46.4	---	---	---	---	---	---	---	84.9
Composite Cross selection	5431	---	2	6.5	4	47.6	---	---	---	---	---	---	---	90.9
Mechanical Mixture	4115	---	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	100.0
Ezond	5064	---	3	9.4	3	44.8	3	38.9	3	16.3	3	32.3	28.3	111.1
Horn	926	---	3	7.8	3	36.6	3	27.4	3	9.7	3	21.5	20.6	80.7
Velvet 4	7020	---	---	---	---	---	3	20.5	3	13.2	3	13.9	---	60.8
Composite Cross selection	5407	---	---	---	---	---	3	27.8	3	21.9	3	27.8	---	99.0
Regal	5030	---	---	---	---	---	3	13.9	3	10.8	3	25.0	---	63.5
Morsett	4800	---	---	---	---	---	3	22.6	3	7.6	3	21.9	---	66.5
Composite Cross selection	5436	---	---	---	---	---	3	31.2	3	17.7	3	41.3	---	115.2
Wisconsin Barbless	5105	---	---	---	---	---	3	11.5	3	11.5	3	22.6	---	58.2
Compana	5438	---	---	---	---	---	---	---	3	18.8	3	37.5	---	117.0
Atlas × Vaughn	6973	Moscow 13	---	---	---	---	---	---	3	23.6	3	43.1	---	138.7
Composite Cross selection	5297	---	---	---	---	---	---	---	---	---	3	34.7	---	107.4
Glacier	6976	Moscow 33	---	---	---	---	---	---	---	---	3	49.7	---	153.9
Velvon	6109	---	---	---	---	---	---	---	---	---	3	35.8	---	110.8
Flynn	1311	---	3	11.5	3	37.5	3	29.9	3	8.3	---	---	---	91.5
Meloy	1176	---	3	11.8	3	33.7	3	31.9	3	4.2	---	---	---	85.6
Spartan	5027	---	3	10.1	3	38.2	3	26.4	3	17.4	---	---	---	96.6
White Smyrna	195	---	3	8.3	3	42.7	3	33.3	3	17.4	---	---	---	106.7
Faust	4579	---	3	6.9	3	26.7	3	22.2	3	5.2	---	---	---	64.0
Hannchen	531	---	3	4.5	3	27.6	3	10.1	---	---	---	---	---	53.1
Newal	6088	---	3	4.2	3	40.6	3	18.7	---	---	---	---	---	79.9
Oderbrucker	4666	---	3	2.1	3	21.5	3	6.2	---	---	---	---	---	37.5
Beldi Giant	2777	---	3	9.0	3	45.8	---	---	---	---	---	---	---	111.2
Nepal	595	---	3	7.6	3	26.4	---	---	---	---	---	---	---	69.0
Velvet	4252	---	3	6.6	3	29.5	---	---	---	---	---	---	---	73.2
Composite Cross selection	5429	---	---	---	---	---	3	19.8	---	---	---	---	---	65.6
Huntley:														
Horn [1]	926	---	---	---	---	---	2	49.1	2	39.6	2	37.2	---	100.0
Compana	5438	---	---	---	---	---	2	71.4	2	49.0	2	43.4	---	130.1
Composite Cross selection	5436	---	---	---	---	---	---	---	2	47.3	2	44.2	---	119.1
Atlas × Vaughn	6973	Moscow 13	---	---	---	---	---	---	2	50.1	2	52.3	---	133.3
Composite Cross selection	5414	---	---	---	---	---	2	57.3	---	---	---	---	---	116.7
Do	5429	---	---	---	---	---	2	61.6	---	---	---	---	---	125.5

[1] 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										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.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Percent*
Lincoln:														
Trebi [1]	936	105	5	23.2	5	41.6	5	8.9	4	18.9	4	20.5	22.6	100.0
Flynn 1	5911	107	5	19.8	5	55.7	5	14.2	4	23.4	4	21.4	26.9	118.9
Spartan	5027	111	5	19.5	5	42.9	5	15.5	4	20.7	4	24.4	24.6	108.8
North Platte 1	5266	116	5	20.5	5	50.0	5	10.9	4	22.8	4	22.2	25.3	111.8
Manchuria	2330	102	5	14.1	5	33.7	5	5.5	4	12.2	4	12.5	15.6	69.0
Ezond	6265	115	5	22.8	5	44.6	5	12.4	4	17.6	4	29.2	25.3	111.9
Short Comfort	5907	104	5	24.1	5	44.3	5	10.0	4	19.1	4	25.3	24.6	108.6
Wisconsin Barbless	5105	119	5	23.1	5	38.8	5	8.4	4	11.9	4	16.9	19.8	87.6
Club Mariout	261	121	5	20.3	5	48.7	5	13.9	4	23.3	4	22.9	25.8	114.1
Manchuria	2947	123	5	13.2	5	24.0	5	3.7	4	11.3	4	14.4	13.3	58.9
Trebi × Velvet 4	6353	125	---	-----	5	41.8	5	12.4	4	15.5	4	25.2	-----	105.6
Velvon	6109	127	---	-----	5	45.7	5	11.4	4	21.2	4	24.0	-----	113.8
Lico	6279	128	---	-----	---	-----	5	16.2	4	20.6	4	24.1	-----	126.1
Atlas × Vaughn	6970	Moscow 1	---	-----	---	-----	5	9.2	4	23.5	4	15.4	-----	99.6
Beecher	6566	130	---	-----	---	-----	5	12.4	4	22.9	4	16.8	-----	107.9
Velvet	4252	120	5	17.7	5	24.8	5	6.2	4	9.7	---	-----	-----	63.1
Comfort	4578	108	5	18.0	5	31.7	5	7.6	4	10.4	---	-----	-----	73.1
Oderbrucker × Lion	5028	Wis. Ped. 37	5	26.7	5	39.8	5	8.8	4	13.3	---	-----	-----	95.7
Glabron	4577	109	5	15.2	5	24.6	5	8.7	---	-----	---	-----	-----	65.8
Oderbrucker	4666	122	5	10.3	5	21.5	5	4.2	---	-----	---	-----	-----	48.8
Ioglos	6239	124	5	18.2	5	28.7	5	6.9	---	-----	---	-----	-----	73.0
Odessa	182	103	5	18.9	5	42.0	---	-----	---	-----	---	-----	-----	94.0
Colsess	2792	110	5	19.0	5	40.9	---	-----	---	-----	---	-----	-----	92.4
Peatland	5267	----------	5	8.9	---	-----	---	-----	---	-----	---	-----	-----	38.4
Smooth Awn × Manchuria	5998	126	---	-----	5	30.7	5	6.2	4	13.3	---	-----	-----	72.3
Composite Cross III	6144	----------	---	-----	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	100.0
North Platte 1	5266	----------	4	11.0	4	31.3	4	22.8	4	0	4	56.9	24.4	102.8
Sandrel	937	----------	4	11.1	4	31.5	4	21.3	4	0	4	56.8	24.1	101.7
Common Six-Row	4640	----------	4	9.7	4	26.3	4	20.0	4	0	4	57.4	22.7	95.5
McClymont	2126	----------	4	8.5	4	25.0	4	18.4	4	0	4	54.0	21.2	89.2
Club Mariout	261	----------	4	7.9	4	27.9	4	23.3	4	0	4	53.5	22.5	94.9
Spartan	5027	----------	4	7.6	4	34.7	4	22.6	4	0	4	53.0	23.6	99.3
Short Comfort	5907	----------	4	9.2	4	31.7	4	19.6	4	0	4	51.8	22.5	94.6
Comfort	4578	----------	4	8.8	4	28.6	4	14.5	4	0	4	38.5	18.1	76.2
Blackhull 1180	6009	----------	---	-----	4	33.3	4	24.1	4	0	4	61.7	-----	109.0
Velvon	6109	----------	---	-----	4	37.9	4	21.8	4	0	4	60.9	-----	110.3
Ezond	6265	----------	---	-----	4	37.5	4	19.5	4	0	4	59.2	-----	106.3
Atlas	4118	----------	---	-----	4	31.3	4	25.5	4	0	4	58.5	-----	105.5
Lico	6279	----------	---	-----	4	34.9	4	24.0	4	0	4	56.9	-----	105.9
Flynn 1	5911	----------	---	-----	4	32.4	4	23.0	4	0	4	53.4	-----	99.5
Beecher	6566	----------	---	-----	---	-----	4	26.1	4	0	4	53.4	-----	104.6
North Platte 4	5488	----------	4	11.3	4	25.7	4	20.4	---	-----	---	-----	-----	90.5
Ezond	5064	----------	4	10.2	4	37.5	4	20.5	---	-----	---	-----	-----	107.6
Coast	690	----------	4	9.1	4	30.0	4	19.6	---	-----	---	-----	-----	92.6
Glabron	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	100.0
Spartan	5027	111	3	4.9	3	37.3	3	20.4	3	11.5	3	35.9	22.0	91.1
Flynn 1	5911	107	3	8.1	3	38.3	3	18.8	3	12.7	3	40.6	23.7	98.2
Ezond	6265	115	3	4.5	3	41.3	3	23.8	3	5.0	3	53.9	25.7	106.5

See footnotes at end of table.

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										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.		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	92.0
Club Mariout	261	121	3	4.1	3	39.1	3	19.2	3	7.3	3	36.9	21.3	88.3
Velvon	6109	127	---	---	3	37.5	3	20.1	3	5.9	3	45.4	---	92.1
Oderbrucker × Lion	5028	Wis. Ped. 37	---	---	3	28.3	3	15.5	3	3.2	3	47.8	---	80.2
Lico	6279	128	---	---	---	---	---	---	3	5.6	3	39.2	---	82.5
Beecher	6566	130	---	---	---	---	---	---	3	7.4	3	23.6	---	57.1
Atlas × Vaughn	6970	Moscow 1	---	---	---	---	---	---	---	---	3	29.1	---	57.9
Glabron	4577	109	3	.9	3	22.2	3	13.2	---	---	---	---	---	54.7
Wisconsin Barbless	5105	119	3	4.6	3	36.1	---	---	---	---	---	---	---	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	2792	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
Glabron	4577	109	---	---	2	7.5	2	13.0	---	---	---	---	---	72.7
Flynn 1	5911	107	---	---	2	14.2	2	9.7	---	---	---	---	---	84.8
Club Mariout	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	9.8	---	---	---	---	---	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										Average yield, 1937–41	Relative yield compared with standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Spring-sown				Bu.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Wisconsin Barbless [1]	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	959	----------	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	27.9	10	35.2	28.9	95.5
Trebi	936	----------	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	BS112	---	---	---	---	---	---	---	---	9	45.6	---	140.7
Comfort	4578	----------	10	43.2	9	33.6	10	15.6	10	34.8	---	---	---	107.2
Ioglos	6239	----------	---	---	10	28.7	---	---	---	---	---	---	---	80.4
Bonami	4664	----------	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										Average yield, 1937–41	Relative yield compared with standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Fall-sown (variety plots)				*Bu.*		*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	100.0
Missouri Early Beardless	6051		8	33.9	9	33.8	10	42.6	10	29.0	10	26.9	33.2	86.0
Tennessee Winter 52	3543		9	41.6	9	40.2	10	40.7	10	30.4	10	30.8	36.7	95.0
Michigan Winter	2036		10	45.4	10	40.3	10	48.4	10	32.7	10	36.0	40.6	104.9
Wisconsin Winter	2159		10	42.0	10	38.8	10	50.4	10	34.8	10	36.3	40.5	104.7
Kentucky 1	6050		10	42.7	9	44.7	10	39.9	10	38.5	10	40.5	41.3	106.7
Woods Hooded	6235		7	38.8	9	35.3	10	47.4	10	32.1	10	33.8	37.5	96.9
Hartungs	7023		---	-----	10	38.7	10	50.0	10	35.1	10	35.8	-----	107.8
Tennessee Winter	257		---	-----	10	42.3	9	44.2	10	30.3	10	38.3	-----	104.7
Poland	6280		---	-----	---	-----	10	51.4	10	34.7	10	42.8	-----	111.2
Nassau	7022	WB6–68	---	-----	---	-----	---	-----	---	-----	10	45.2	-----	134.9
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 5	3384		7	34.9	10	29.5	---	-----	---	-----	---	-----	-----	83.2
Fall-sown (breeding plots)														
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	6372		3	59.7	3	41.2	3	32.6	3	17.4	---	-----	-----	94.4
Hooded selection	7026	N. C. I–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										Average yield, 1937–41	Relative yield compared with standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
State College:														
Fall-sown (irrigated) [1]				*Bu.*		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Percent*
Trebi [2]	936		7	96.5	---	-----	6	55.1	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	5954		7	99.9	---	-----	6	43.3	12	58.6	8	47.7	-----	104.0
Finley	5901		---	-----	---	-----	6	48.7	12	52.5	8	50.6	-----	105.8

See footnotes at end of table.

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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
State College—Con.														
Fall-sown (irrigated)—Continued														
Texas Winter	6498		---	---	---	---	6	48.2	12	63.3	8	59.0	-----	118.8
Tenkow	646		---	---	---	---	---	---	---	---	8	55.7	-----	132.6
Kentucky 1	6050		7	69.7	---	---	---	---	---	---	---	---	-----	72.2
Kentucky 2	6148		7	76.0	---	---	---	---	---	---	---	---	-----	78.8
Club Mariout	261		7	83.7	---	---	---	---	---	---	---	---	-----	86.7
Missouri Early Beardless	6051		7	[3]0	---	---	---	---	---	---	---	---	-----	0
Spring-sown (irrigated) [4]														
Trebi [2]	936		7	70.4	---	---	7	87.0	7	78.0	8	65.6	-----	100.0
Club Mariout	261		7	65.8	---	---	7	70.7	7	71.7	8	54.6	-----	87.3
Vaughn	1367		7	53.3	---	---	7	72.2	7	78.4	8	62.6	-----	88.5
Conway	6095		7	77.0	---	---	7	86.6	7	65.2	8	52.9	-----	93.6
Atlas	4118		---	---	---	---	7	62.6	7	69.2	8	51.9	-----	79.7
Atlas × Vaughn	7064	Moscow 6	---	---	---	---	7	76.7	7	74.4	8	66.1	-----	[illegible].2
Flynn	1311		---	---	---	---	7	72.1	7	77.3	8	63.4	-----	92.3
Lico	6279		---	---	---	---	---	---	7	69.5	8	41.8	-----	77.5
Velvon	6109		---	---	---	---	---	---	---	---	8	60.1	-----	91.6
Wisconsin Barbless	5105		7	62.9	---	---	7	58.9	---	---	---	---	-----	77.4
Union Beardless	5976		7	68.2	---	---	---	---	---	---	---	---	-----	96.9
Hannchen	531		7	46.0	---	---	---	---	---	---	---	---	-----	65.3
Oderbrucker	4666		7	48.7	---	---	---	---	---	---	---	---	-----	69.2
Albuquerque:														
Spring-sown (irrigated)														
Trebi [2]	936		---	---	12	37.0	6	27.6	5	58.3	6	53.5	-----	100.0
Club Mariout	261		---	---	12	38.3	6	23.9	5	59.5	6	51.8	-----	98.4
Conway	6095		---	---	12	37.3	6	25.0	5	57.1	6	58.0	-----	100.6
Atlas × Vaughn	7064	Moscow 6	---	---	12	34.4	6	24.6	5	68.4	6	60.5	-----	106.5
Vaughn	1367		---	---	12	32.8	6	25.8	5	69.0	6	55.3	-----	103.7
Atlas	4118		---	---	12	36.0	6	26.1	5	65.1	6	57.0	-----	104.4
Flynn	1311		---	---	12	33.1	6	27.2	5	71.0	6	67.1	-----	112.5
Velvon	6109		---	---	---	---	---	---	---	---	6	66.7	-----	124.7
Union Beardless	5976		---	---	12	33.6	6	22.7	5	46.2	---	---	-----	83.4
Hannchen	531		---	---	12	36.2	6	24.7	---	---	---	---	-----	94.3
Colsess	2792		---	---	12	26.8	6	20.5	---	---	---	---	-----	73.2
Wisconsin Barbless	5105		---	---	12	30.2	6	20.6	---	---	---	---	-----	78.6
Oderbrucker	4666		---	---	---	---	6	23.3	---	---	---	---	-----	84.4
Capulin: [5]														
Spring-sown (dry-farmed)														
White Smyrna [2]	195		3	3.9	2	10.9	2	0	---	---	3	19.4	-----	100.0
Stavropol	5913		3	3.4	2	12.8	2	0	---	---	3	21.6	-----	110.5
Odessa	182		3	3.8	2	17.2	2	0	---	---	3	32.5	-----	156.4
Club Mariout	261		3	3.3	2	10.1	2	0	---	---	3	20.2	-----	98.2
Colsess	2792		3	2.6	2	11.2	2	0	---	---	3	27.4	-----	120.5
Wisconsin Barbless	5105		3	3.8	2	10.5	2	0	---	---	3	30.4	-----	130.7
Conway	6095		3	4.6	2	13.4	2	0	---	---	3	22.9	-----	119.6

[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 compared with standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
				Bu.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Alpha [1]	959		10	19.7	10	25.4	8	26.8	8	47.7	8	29.3	29.8	100.0
Swiss Spring 87	7025		10	29.7	10	38.1	8	30.7	8	47.0	8	31.9	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	29.1	28.9	97.0
(Manchuria × Leiorrhynchum) × Alpha		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 × Leiorrhynchum) × Russian 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	25.2	32.6	109.6
Nanking 150 × 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	25.3	32.7	109.7
Do		505a1–51–1	5	20.3	8	39.4	8	26.6	8	50.9	8	26.1	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	28.7	96.3
(Manchuria × Leiorrhynchum) × Alpha		204a1–27–243	10	24.5	10	29.5	8	29.6	8	42.6	8	27.9	30.8	103.5
Do		220a1–29–176	10	22.8	10	26.7	8	25.5	8	37.9	8	25.0	27.6	92.6
Do		220a1–29–181	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		220a1–30–461	10	21.1	10	27.7	8	29.5	8	40.2	8	26.9	29.1	97.6
(Manchuria × Leiorrhynchum) × (Arlington Awnless × Wild)		221a1–31–837	10	22.8	10	27.7	8	28.4	8	38.6	8	27.8	29.1	97.6
Alpha × Goldfoil		504a7–5–2	5	22.5	8	35.0	8	25.2	8	44.4	8	24.4	30.3	101.7
Do		504a11–5–1	5	25.2	8	35.2	8	25.5	8	45.4	8	27.0	31.7	106.3
Do		504a11–5–2	5	22.7	8	40.8	8	32.6	8	46.3	8	28.3	34.1	114.6
Do		504a11–5–3	5	28.6	8	35.4	8	29.3	8	42.8	8	28.3	32.9	110.4
Do		504a11–5–4	10	27.2	10	36.0	8	29.1	8	46.6	8	26.9	33.2	111.3
Do		504a11–5–7	5	26.9	8	37.8	8	29.4	8	42.6	8	23.3	32.0	107.5
Do		504a11–5–11	5	27.1	8	39.5	8	29.2	8	45.6	8	22.8	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	25.5	31.2	104.7
Do		504a11–20–18–3	5	24.1	8	40.9	8	29.8	8	43.1	8	25.2	32.6	109.5
Do		504a12–15–3	5	24.5	8	43.3	8	28.6	8	39.6	8	21.3	31.5	105.6
Do		504ar12–19–18–5	5	25.1	8	37.4	8	26.1	8	45.0	8	26.7	32.1	107.7
Do		504ar23–9–8	5	26.6	8	34.0	8	25.0	8	43.3	8	25.9	31.0	104.0
Do		504ar25–4–4	5	20.3	8	34.8	8	26.4	8	46.1	8	25.3	30.6	102.7
Do		504ar25–4–5	5	23.4	8	36.0	8	27.3	8	42.2	8	28.3	31.4	105.6
Do		504ar25–14–7	5	25.4	8	36.8	8	30.7	8	42.0	8	28.4	32.7	109.7
Do		504ar25–19–4	5	21.1	8	39.7	8	29.8	8	43.9	8	28.3	32.6	109.3
Do		504ar26–6–3	5	22.2	8	41.9	8	31.2	8	39.8	8	25.1	32.0	107.6
Do		504ar27–2–8	5	28.2	8	38.1	8	24.8	8	46.1	8	27.3	32.9	110.5
Do		504ar28–1–2	5	23.9	8	37.6	8	30.9	8	47.3	8	26.5	33.2	111.6
Do		504ar28–17–1	5	24.8	8	38.0	8	27.1	8	43.2	8	26.0	31.8	106.9
Do		504ar28–17–3	5	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.

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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Tennessee Beardless 6 [1]	2746		20	26.7	36	23.4	51	60.2	41	33.2	5	39.8	36.7	100.0
Iredell	6571	I–23	10	23.1	3	48.5	5	53.8	5	38.1	5	57.8	44.3	120.7
Hooded selection	7026	I–26	10	20.9	3	37.4	5	55.4	5	44.9	5	50.3	41.8	114.0
Tennessee Winter	257		10	20.7	3	41.0	5	53.5	5	39.7	5	48.1	40.6	110.7
Randolph	6372	I–68	10	24.5	3	44.9	5	57.7	5	43.6	5	56.1	45.4	123.7
Composite Cross selection	7027	II–3	5	30.0	3	44.4	5	62.0	5	50.8	5	58.6	49.2	134.1
Do	6564	II–11	10	21.6	3	51.3	5	54.8	5	46.6	5	54.9	45.8	125.0
Davidson	6373	II–15	10	22.3	3	52.8	5	55.7	5	47.5	5	59.8	47.6	129.9
Hooded 16	6574				3	36.3	5	58.5	5	36.3	5	42.9		111.1
Nakano Wase 33	6269				3	49.5	5	65.9	5	55.9	5	61.7		148.8
Sunrise	6272				3	43.1	5	83.8	5	51.3	5	68.5		157.5
Smooth Awn 203	6267				3	40.5	5	55.1	5	43.3	5	45.1		117.5
Smooth Awn 88	7028				3	44.0	5	54.5	5	48.7	5	62.6		134.0
Smooth Awn 90	7029				3	38.7	5	58.8	5	39.4	5	47.7		117.9
Wisconsin Winter	2159				3	41.7	5	51.6	5	42.5	5	46.4		116.3
Tennessee Winter	6034				3	40.1	5	57.5	5	44.1	5	51.6		123.4
Orel	351				3	43.6	5	50.9	5	39.7	5	46.4		115.3
Unnamed	3836		5	22.7	3	46.4	5	50.4	5	44.8				114.5
Do	4298–1		5	22.8	3	42.8	5	53.6	5	38.7				110.0
Hooded 11	6575				3	36.3	5	53.9	5	41.3				112.6
Hooded 21					3	36.6	5	59.4	5	30.9				108.6
Nakano Wase 51	7057				3	38.8	5	74.3	5	48.4				138.3
Nakano Wase 45					3	41.7	5	66.6	5	48.3				134.1
Nakano Wase 59	6567				3	41.2	5	58.9	5	53.4				131.4
Smooth Awn 86	6268				3	34.5	5	50.1	5	40.1				106.8
Smooth Awn 85					3	37.8	5	54.2	5	42.7				115.3
Smooth Awn selection	6495	Md. 15–8			3	25.0	5	38.3	5	39.7				88.2
Composite Cross selection		II–52–1			3	39.3	5	38.2	5	33.3				94.9
Do		II–52–3			3	50.9	5	39.9	5	33.5				106.4
Do		II–52–4			3	42.2	5	36.1	5	34.4				96.5
Do		II–53–4			3	38.1	5	44.2	5	30.2				96.3
Do		II–53–7			3	39.8	5	40.9	5	28.5				93.5
Do		II–53–12			3	41.3	5	40.7	5	29.7				95.6
Bearded selection		I–70	5	21.9	3	40.2	5	45.6						97.6
Do		I–83	5	26.6	3	41.0	5	53.0						109.3
Composite Cross selection		II–8	5	29.8	3	49.0	5	63.0						128.6
Do		II–24	5	30.8	3	45.8	5	47.0						112.1
Do		II–30	5	32.4	3	37.2	5	62.0						119.3
Do		II–120			3	43.0	5	61.8						125.4
Do		II–127			3	50.4	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										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.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Percent*
Fargo:														
Trebi [1]	936	30013	3	47.2	3	53.5	3	50.7	3	12.1	3	43.1	41.3	100.0
Spartan	5027	32005	3	49.8	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 Barbless	5105	30019	3	48.1	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	9.3	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	61.3	3	52.6	3	14.9	3	26.8	41.7	100.9
Lico	6279	30039	---	---	---	---	3	50.7	3	16.6	3	32.4	-----	94.1
Beecher	6566	30040	---	---	---	---	3	43.3	3	17.4	3	22.0	-----	78.1
Velvon	6109	30038	---	---	---	---	3	55.1	3	15.8	3	32.8	-----	97.9
Regal × Trebi	7031	30042	---	---	---	---	3	48.6	3	15.0	3	36.9	-----	94.9
Grandin	6968	30041	---	---	---	---	1	20.2	3	[2] 9.4	3	[2] 20.2	-----	47.0
Olli	6251	30044	---	---	---	---	---	---	---	---	3	38.0	-----	88.2
Plush	6093	30043	---	---	---	---	---	---	---	---	3	32.7	-----	75.9
Velvet	4252	30015	3	42.4	3	38.9	3	45.0	3	9.1	---	---	-----	82.8
Steigum	907	32006	3	39.3	3	35.9	3	40.2	---	---	---	---	-----	76.2
Ioglos	6239	30037	3	42.5	3	48.7	3	48.4	---	---	---	---	-----	92.2
Oderbrucker	1174	30021	3	28.3	3	30.3	---	---	---	---	---	---	-----	58.2
Svansota	1907	32004	3	42.6	3	46.4	---	---	---	---	---	---	-----	88.4
Hannchen	531	32003	3	37.6	3	37.6	---	---	---	---	---	---	-----	74.7
Regal × Trebi	6358	30035	3	53.2	3	56.4	---	---	---	---	---	---	-----	108.8
Mensury (Ott. 60)	4696	30045	---	---	---	---	1	42.3	---	---	---	---	-----	83.4
Winter Club	592	---	1	25.0	---	---	---	---	---	---	---	---	-----	53.0
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	1	[4]37.4	4	13.5	4	4.0	14.4	79.8
Odessa	182	---	4	5.8	4	6.8	1	[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	17.0	4	5.0	18.0	99.2
Composite Cross	5461	---	2	[5]2.3	2	[5]10.0	2	[4]32.6	2	[5]7.9	2	4.2	11.4	63.0
Regal × Trebi	6358	---	---	---	4	11.6	4	46.4	4	21.5	4	3.5	-----	96.7
Tregal	6359	---	---	---	4	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	---	---	---	---	---	---	---	4	15.9	4	5.9	-----	96.9
Rex	6618	---	---	---	---	---	---	---	4	15.8	4	1.9	-----	78.7
Lico	6279	---	---	---	---	---	---	---	---	---	3	5.8	-----	138.1
Colsess	2792	---	2	[5]2.7	4	14.6	1	[4]37.9	2	[5]11.2	---	---	-----	76.9
Wisconsin Barbless	5105	---	4	3.3	4	7.7	1	[4]36.0	4	9.8	---	---	-----	65.8
Velvet	4252	---	4	1.8	4	1.8	4	22.7	---	---	---	---	-----	38.7
Glabron	4577	---	4	3.8	4	2.0	4	28.6	---	---	---	---	-----	50.6
Lion	923	---	4	8.8	4	10.6	---	---	---	---	---	---	-----	98.0
Svansota	1907	---	4	4.5	---	---	---	---	---	---	---	---	-----	95.7
Mandan: [6]														
Trebi [1]	936	---	3	14.3	3	10.1	3	23.5	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	23.4	3	14.3	---	---	-----	99.8
Steigum	907	---	3	13.6	3	7.7	3	22.7	3	18.4	---	---	-----	99.2
Wisconsin Barbless	5105	---	3	9.2	3	11.0	3	20.3	3	[7]13.3	---	---	-----	85.5
Horn	926	---	3	7.0	3	8.5	3	23.1	3	13.2	---	---	-----	82.4
Regal × Trebi	6358	---	---	---	3	11.7	3	19.5	3	14.2	---	---	-----	93.4
Tregal	6359	---	---	---	3	10.7	3	24.9	3	13.4	---	---	-----	100.8
Spartan	5027	---	---	---	---	---	3	16.3	3	15.0	---	---	-----	81.3
Velvon	6109	---	---	---	---	---	---	---	3	17.8	---	---	-----	118.7
Rex	6618	---	---	---	---	---	---	---	3	[7]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		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Stillwater:				Bu.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Fall-sown														
Tenkow [1]	646		4	44.2	4	61.2	4	65.7	4	19.1	4	33.9	44.8	100.0
Manchuria	245		4	48.1	4	59.5	4	63.9	4	25.0	4	18.3	43.0	95.9
Cape			4	41.7	4	57.1	4	61.9	4	27.9	4	22.0	42.1	94.0
Wisconsin Winter	519		4	48.6	4	52.7	4	49.8	4	29.8	4	24.3	41.0	91.6
Michigan Winter			4	37.7	4	53.6	4	48.2	4	34.0	4	20.2	38.7	86.4
Tennessee Winter			4	39.2	4	54.8	4	61.7	4	28.5	4	11.3	39.1	87.2
Black Egyptian	1246		4	42.6	4	46.0	4	56.7	4	13.8	4	26.9	37.2	83.0
Brown Winter			4	35.5	4	53.7	4	30.9	4	28.9	4	16.0	33.0	73.6
Missouri Early Beardless	6051		4	31.7	4	38.4	4	33.5	4	23.2	4	16.7	28.7	64.0
Tennessee Beardless 6	2746						4	33.6	4	19.4	4	11.3		54.2
Finley	5901						4	49.2	4	19.8	4	26.5		80.5
Reno	6561								4	33.4	4	21.5		103.6
Ward	6007								4	35.0	4	30.8		124.2
Spring-sown														
Tenkow [1]	646		4	29.4	4	25.7	4	14.6	4	30.6	4	5.6	21.2	100.0
Limerick	1302		4	35.5	4	28.9	4	19.9	4	31.6	4	9.1	25.0	118.0
Hero	1286		4	27.1	4	27.6	4	20.1	4	24.4	4	14.7	22.8	107.6
Manchuria	245		4	24.8	4	22.6	4	18.5	4	32.5	4	2.8	20.2	95.6
Heron	1299		4	23.3	4	26.1	4	18.0	4	26.9	4	15.6	22.0	103.8
Phoebe	1305		4	31.1	4	32.0	4	18.6	4	22.8	4	7.3	22.4	105.6
Cape			4	36.6	4	16.9	4	19.2	4	31.3	4	2.2	21.2	100.3
Spartan	5027		4	24.6	4	35.5	4	15.8	4	26.1	4	13.0	23.0	108.6
Italiani			4	19.2	4	28.2	4	17.9	4	31.8	4	9.5	21.3	100.7
Stavropol	2103		4	19.6	4	26.5	4	22.7	4	20.5	4	10.0	19.9	93.8
Black Algerian	708		4	34.1	4	27.4	4	12.4	4	27.6	4	13.1	22.9	108.2
Club Mariout	261		4	25.7	4	26.5	4	13.8	4	30.7	4	19.7	23.2	109.9
White Smyrna	910		4	25.7	4	11.4	4	19.4	4	36.0	4	11.8	20.9	98.5
Calotte	1102		4	15.5	4	24.4	4	15.9	4	31.7	4	19.8	21.5	101.3
Black Smyrna	191		4	37.3	4	12.3	4	12.5	4	25.8	4	10.5	19.7	92.9
Vaughn	1367		4	21.4	4	23.8	4	11.4	4	29.5	4	13.8	20.0	94.3
Black Egyptian	1246		4	27.8	4	11.1	4	9.5	4	22.1	4	12.7	16.6	78.6
Glabron	4577		4	15.1	4	15.2	4	20.4	4	22.4	4	17.3	18.1	85.4
Trebi	936		4	16.6	4	16.7	4	11.8	4	23.6	4	2.2	14.2	66.9
Comfort	4578		4	13.0	4	14.5	4	17.0	4	18.0	4	7.7	14.0	66.3
Velvet	4252		4	11.3	4	17.2	4	16.8	4	15.3	4	1.0	12.3	58.2
Blackhull	878		4	20.5	4	25.3	4	17.2	4	26.9	4	18.8	21.7	102.6
Flynn	1311		4	36.0	4	23.4	4	11.9			4	9.2		106.9
Finley	5901						4	7.8	4	19.3	4	7.4		67.9
Lawton: [2]														
Fall-sown														
Tennessee Winter 66 [1]	3546		3	49.7	3	0	3	17.0	3	16.9	3	32.1	23.1	100.0
Wisconsin Winter	519		3	54.6	3	0	3	13.8	3	16.7	3	43.7	25.8	111.3
Han River	206		3	49.6	3	0	3	15.1	3	16.2	3	37.0	23.6	101.9
Michigan	7032		3	51.1	3	0	3	15.0	3	20.8	3	34.3	24.2	104.8
Missouri Early Beardless	6051		3	30.5	3	0	3	16.1	3	10.1	3	37.9	18.9	81.8
Esaw	4690		3	56.3	3	0	3	18.3	3	16.6	3	34.7	25.2	108.8
Wintex	6127								3	19.0	3	50.3		141.4
Texan	6499								3	14.1	3	57.6		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 standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
				Bu.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Percent*
Lawton—Continued.														
Fall-sown—Continued.														
Composite Cross selection	6500	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]														
Spring-sown														
Atlas [1]	4118	----------	3	13.9	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	43.3	32.3	96.5
White Smyrna	910	----------	3	18.3	3	44.9	3	26.2	27	18.3	3	41.6	29.9	89.3
Blackhull 1180	6009	----------	2	24.8	3	55.2	3	33.9	9	19.2	3	46.3	35.9	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	33.3	9	18.4	3	41.4	-----	99.1
Tenkow	646	----------	---	-----	---	-----	3	23.3	9	13.0	3	43.7	-----	85.2
Ward	6007	----------	---	-----	---	-----	3	17.6	9	11.9	3	39.3	-----	73.3
Michigan Winter	2036	----------	---	-----	---	-----	3	17.7	9	12.0	3	39.3	-----	73.5
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	33.6	9	15.1	3	62.3	-----	118.2
Perth	6025	----------	---	-----	---	-----	---	-----	2	12.7	3	52.5	-----	111.5
Compana	5438	----------	---	-----	---	-----	---	-----	1	27.5	3	47.4	-----	128.0
Manchuria	245	----------	---	-----	---	-----	---	-----	9	14.8	3	52.1	-----	114.4
Arivat	6573	----------	---	-----	---	-----	---	-----	---	-----	3	49.9	-----	116.9
Wintex	6127	----------	---	-----	---	-----	---	-----	---	-----	2	48.0	-----	112.4
Ezond	6265	----------	---	-----	---	-----	---	-----	---	-----	3	23.8	-----	55.7
Blackhull 1178	5679	----------	2	17.6	3	51.6	3	33.2	9	19.0	---	-----	-----	97.5
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	5913	----------	3	12.5	3	57.6	3	30.7	9	14.9	---	-----	-----	92.9
California Mariout	1455	----------	3	13.9	3	42.3	3	25.6	9	14.4	---	-----	-----	77.3
Sandrel	937	----------	3	10.3	3	54.2	3	22.6	9	13.2	---	-----	-----	80.6
Fall-sown														
Ward [1]	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	62.5	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	70.9	3	30.4	9	20.1	---	0	27.1	124.3
Kansas South-central strain	6376	----------	3	15.4	3	82.3	3	34.9	9	11.8	---	0	28.9	132.5
Hooded 10	6563	----------	1	13.2	1	36.0	1	38.2	9	11.7	---	0	19.8	90.9
Alaska	4106	----------	1	22.9	3	87.2	3	36.1	9	10.3	---	0	31.3	143.6
Tennessee Winter 66	3546	----------	3	15.6	3	76.7	3	38.8	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	117.4
Ward selection	7034	35h11–3	3	19.7	3	83.7	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	145.2
Do	-----	35h9–9	3	24.9	3	75.6	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	28.5	130.8
Do	-----	35h10–30	3	24.8	3	71.3	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
Wintex	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.

OREGON

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										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.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Per cent*
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	43.8	100.0
Santiam	6367	36	3	0	3	41.3	3	84.3	3	54.6	3	53.8	46.8	106.9
Winter Club	592	15	3	0	3	42.9	3	80.9	3	58.4	3	36.7	43.8	100.0
O. A. C. 6	5954		3	0	3	33.4	3	71.6	3	50.5	3	47.1	40.5	92.6
Composite Cross selection		38	3	0	3	41.0	3	88.4	3	61.7	3	65.8	51.4	117.4
Do		54					3	90.0	3	62.7	3	71.9		123.5
Do		55					3	80.5	3	50.9	3	65.7		108.4
Do		56					3	77.3	3	53.9	3	59.5		104.8
Do		69							3	58.4	3	53.3		99.3
Do		64							3	70.4	3	59.3		115.3
Do		65							3	71.6	3	66.2		122.5
Do		66							3	73.6	3	72.3		129.7
Do		67							3	69.2	3	71.0		124.6
Do		68							3	70.4	3	74.3		128.6
Do		60							3	80.0	3	82.7		144.6
Do		61							3	76.0	3	55.1		116.5
Do		62							3	79.6	3	89.2		150.0
Do		63							3	87.5	3	85.3		153.6
Spring-sown														
Hannchen [2]	531	17	10	43.1	10	9.5	10	30.5	7	22.3	7	33.8	27.8	100.0
Trebi	936	19	3	38.6	3	10.3	3	23.3	3	21.3	3	29.8	24.7	88.6
Union Beardless	5976	20	3	43.4	3	5.5	3	29.9	3	16.9	3	26.6	24.5	87.9
Victory	5077	27	3	42.1	3	9.0	3	29.7	3	20.4	3	25.2	25.3	90.8
Wisconsin Barbless	5105	37	3	42.7	3	5.1	3	24.8	3	16.8	3	25.6	23.0	82.6
Composite Cross selection		45	3	48.7	3	7.5	3	27.8	3	20.7	3	29.6	26.9	96.5
Do		47			3	5.4	3	30.3	3	19.8	3	39.1		98.4
Do		49			3	7.2	3	30.9	3	21.3	3	28.4		91.4
Do		50			3	10.4	3	27.4	3	20.7	3	29.3		91.4
O. A. C. 7	2814	7	3	35.3	3	7.6	3	23.1	3	11.9				73.9
Composite Cross selection		44	3	41.7	3	5.4	3	25.5	3	13.6				81.8
Moro:														
Peruvian 19 [2]	6568		1	64.2	3	46.0	4	41.2	4	26.5	3	64.0	48.4	100.0
Flynn 37	5918		2	53.3	3	42.7	4	45.0	4	28.1	3	63.6	46.5	96.2
Composite Cross selection	5449		1	47.0	3	41.7	4	33.5	4	22.6	3	43.4	37.6	77.8
Meloy 3	4656		2	46.7	3	40.8	4	33.7	4	22.1	3	48.2	38.3	79.2
Atlas	4118										3	60.0		93.8
Afghanistan	4173		1	35.5										55.3
Awnless	5631		1	35.5										55.3
Pendleton:														
Trebi [2]	936		4	48.8	4	48.0	4	46.2	4	38.2	4	68.8	50.0	100.0
Flynn 1	5911		4	47.0	4	47.2	4	42.8	4	39.3	4	66.4	48.5	97.1
Flynn 37	5918		4	47.0	4	46.2	4	42.8	4	44.8	4	71.2	50.4	100.8
Meloy 3	4656		4	44.8	4	46.3	4	40.8	4	31.5	4	45.8	41.8	83.7
Composite Cross selection	5449		4	43.3	4	45.0	4	37.2	4	26.8	4	51.2	40.7	81.4
Atlas	4118								4	35.0	4	64.0		92.5
Arivat	6573										4	69.7		101.3

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										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.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Percent*
Union:														
Trebi [2]	936		3	62.8	3	76.4	3	85.7	3	61.8	3	70.5	71.4	100.0
Odessa	182		3	60.8	3	80.2	3	80.5	3	56.6	3	69.1	69.4	97.2
Hannchen	531		3	58.3	3	66.6	3	71.2	3	48.6	3	61.1	61.2	85.6
Ezond	5064		3	54.9	3	83.3	3	77.7	3	56.2	3	67.0	67.8	94.9
Union Beardless	5976		3	63.2	3	77.1	3	49.6	3	47.6	3	65.3	60.6	84.8
Union Beardless 6	7035		3	63.5	3	77.8	3	51.0	3	41.7	3	67.7	60.3	84.5
Faust	4579		3	35.3	3	57.2	3	33.6	3	23.6	3	51.7	40.3	56.4
Velvon	6109				3	82.3	3	45.1	3	55.9	3	63.2		83.7
Composite Cross selection	7036	32855							3	61.5	3	65.3		95.8
Rex	6618								3	52.8	3	55.2		81.6
O. A. C. 7	2814		3	61.1	3	80.5	3	72.5						95.2
Vaughn	1367		3	48.3	3	72.9	3	64.9						82.7
Flynn	1311		3	51.8	3	79.2	3	65.6						87.4
Composite Cross selection	5449		3	55.6										88.5
Burns:														
Trebi [2]	936				2	127.1	2	99.6	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 unprecedented 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										Average yield, 1937–41	Relative yield compared with standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Fall-sown [1]				*Bu.*		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Percent*
Kentucky 1 [2]	6050		5	39.6	5	36.0			4	38.7	5	31.0		100.0
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]	7037		5	34.9	5	30.2			4	31.3	5	25.6		84.0
Marnobarb	6120		5	30.3							5	6.1		51.6
Tennessee Winter											5	23.2		74.8
Smooth Awn 86	6268										5	13.4		43.2
Hooded 16	6574										5	18.9		61.0
Sunrise	6272										5	12.6		40.6
Brugh 76	6477										5	21.4		69.0
Purdue 28156A3–2–2–2	6562										5	23.4		75.5
West Virginia I–35–274	7039										5	24.8		80.0
Winter Club	592		5	39.0	5	30.7			4	28.3				85.7
Santiam	6367		5	32.5	5	31.9			4	28.6				81.4
Kentucky 2	6148		5	34.7										87.6

See footnotes at end of table.

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										Average yield, 1937–41	Relative yield compared with standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Spring-sown [1]				*Bu.*		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Per-cent*
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 × Leiorrhynchum) × Alpha	-----	N. Y. 220a1–29–50	---	-----	---	-----	5	23.5	5	17.3	5	22.0	-----	99.2
Do	-----	N. Y. 220a1–31–358	---	-----	---	-----	5	20.7	5	16.1	5	20.6	-----	90.7
Alpha × Goldfoil	-----	N. Y. 504a11–5–4	---	-----	---	-----	5	23.0	5	23.4	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	15.2	-----	92.9
Chevron	1111	----------	---	-----	---	-----	5	20.8	5	14.7	5	24.8	-----	95.3
Trebi	936	----------	---	-----	---	-----	5	24.0	5	20.6	5	20.6	-----	103.0
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.
[3] 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										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.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Per-cent*
Clemson Awnless [1]	7040	----------	11	51.0	11	32.5	10	53.0	10	64.8	10	43.2	48.9	100.0
Maretts Beardless	7041	----------	11	50.0	11	29.5	10	67.3	10	57.4	10	53.8	51.6	105.5
Woods Hooded	6235	----------	11	42.4	11	29.6	10	61.5	10	57.3	10	44.9	47.1	96.4
Woods Bearded	7024	----------	11	33.1	11	44.1	10	61.1	10	46.3	10	45.2	46.0	94.0
Clemson Hooded	7042	----------	---	-----	11	42.4	10	64.4	10	68.2	10	57.4	-----	120.1
Maretts Awnless	7043	----------	---	-----	---	-----	10	62.4	10	65.4	10	44.6	-----	107.1
Marnobarb	6120	----------	---	-----	---	-----	---	-----	10	53.3	10	41.7	-----	88.0
Jackson	6569	----------	---	-----	---	-----	---	-----	---	-----	10	34.9	-----	80.8
Maretts Pedigree Awnless 58	7044	----------	---	-----	---	-----	---	-----	---	-----	10	67.7	-----	156.7
Tennessee Beardless [3]	3384	----------	11	52.6	11	28.8	10	44.2	10	41.9	---	-----	-----	83.2
Missouri Early Beardless	6051	38133	---	-----	---	-----	10	58.3	---	-----	---	-----	-----	110.0
Tennessee Smooth Awn	-----	Tenn. B3–56	---	-----	---	-----	10	39.3	---	-----	---	-----	-----	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. Grafius.
Highmore Substation, Highmore.....In care of J. E. Grafius, Brookings.
Eureka Substation, Eureka.....In care of J. E. Grafius, Brookings.
United States Belle Fourche Field Station, Newell
.....Beyer Aune [8] 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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Brookings:														
Odessa [1]	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	45.8	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 × 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	38.3	3	47.3	3	49.2	3	40.2	37.4	86.4
Velvet	4252	1286	3	10.4	3	34.9	3	46.3	3	47.9	3	35.5	35.0	80.9
Trebi	936	1298	3	17.0	3	41.2	3	63.6	3	55.3	3	47.8	45.0	103.9
Manchuria	2947	N. Dak. 2121	3	3.7	3	28.2	3	38.6	3	39.9	3	37.8	29.6	68.5
Oderbrucker	1529	1180	3	2.3	3	30.4	3	42.8	3	34.7	3	34.4	28.9	66.8
Wisconsin Barbless	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
Ioglos	6239				3	47.4	3	43.7	3	45.3	3	44.9		89.5
Composite Cross III	6144				3	47.3	3	57.3	3	50.6	3	49.0		100.8
Dryland	5673								3	49.2	3	37.3		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 [1]	182	182			1	21.3	3	36.0	3	20.3	3	18.2		100.0
Ace	1853	1173			1	35.8	3	43.4	3	16.1	3	18.0		118.3
White Smyrna × Svanhals	6371	1344			1	23.4	3	36.0	3	18.0	3	13.7		95.1
Spartan	5027	1352			1	28.9	3	46.2	3	19.9	3	15.6		115.4
Coast × Lion	6002	1343			1	8.6	3	36.9	3	19.0	3	9.8		77.6
Lion × Manchuria	6001	1340			1	5.8	3	37.1	3	12.9	3	11.9		70.7
Glabron	4577	1290			1	8.9	3	39.7	3	20.3	3	16.4		89.0
Velvet	4252	1286			1	12.4	3	33.7	3	14.4	3	15.1		78.9
Trebi	936	1298			1	38.2	3	46.6	3	16.7	3	22.2		129.1
Horn	926	1299			1	15.8	3	33.2	3	18.0	3	15.8		86.4
Ezond	6265						3	48.8	3	21.4	3	22.7		124.7
Dryland	5673								3	17.5	3	12.2		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			1	19.3								90.6
Eureka:														
Odessa [1]	182	182					2	14.6	3	25.1	3	58.6		100.0
White Smyrna × Svanhals	6371	1344					2	10.9	3	24.0	3	75.8		112.6
Spartan	5027	1352					2	7.3	3	24.4	3	70.3		103.8
Lion × Manchuria	6001	1340					2	9.9	3	24.9	3	64.7		101.2
Trebi	936	1298					2	13.5	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	4252	1286							3	20.5	3	54.1		89.1
Han River		1348									3	72.0		122.9

See footnotes at **end** of table.

[8] Deceased.

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										Average yield, 1937–41	Relative yield compared with standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Newell:														
Irrigated [2]				Bu.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Trebi [1]	936		3	20.7	3	32.9	3	41.7	3	0	3	52.1	29.5	100.0
Comfort	4578		3	13.2	3	20.4	3	41.0	3	0	3	41.3	23.2	78.6
Glabron	4577		3	9.0	3	14.2	3	41.3	3	0	3	39.9	20.9	70.8
Odessa	182		3	23.6	3	37.4	3	36.4	3	0	3	39.6	27.4	92.9
Vaughn	1367		3	24.7	3	34.7	3	35.4	3	0	3	36.8	26.3	89.3
Horn	926		3	16.3	3	21.8	3	40.3	3	0	3	52.8	26.2	89.0
Chevalier II	200		3	6.6	3	25.7	3	25.4	3	0	3	23.3	16.2	55.0
White Smyrna	195		3	22.2	3	31.5	3	43.4	3	0	3	50.7	29.6	100.3
Hannchen	531		3	9.0	3	8.3	3	35.4						55.3
Spartan	5027										3	43.8		84.1
Compana	5438										3	52.4		100.6
Beecher	6566										3	51.7		99.2
Dry-farmed														
Beecher [1]	6566										3	48.9		100.0
Spartan	5027										3	41.4		84.7
Compana	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. I. 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										Average yield, 1937–41	Relative yield compared with standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Knoxville:				Bu.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Tennessee Winter 52 [1]	3543		3	42.2	6	39.9	6	45.3	5	57.3	7	64.5	49.8	100.0
Polders	3213		1	42.4	6	43.2	6	37.2	5	59.3	7	52.2	46.9	94.0
Missouri Early Beardless	6051		2	42.6	6	20.9	6	36.5	5	51.9	7	70.1	44.4	89.1
Jackson	6569	B5–9 (S)							5	61.7	7	59.5		99.5
Kentucky 1	6050								5	52.9	7	59.0		91.9
Jackson 1	7045	7B2–42									7	67.9		105.3
Tennessee Beardless 5	3384		3	37.4	6	24.5	6	33.0	5	39.0				72.5
Tennessee Smooth Awn	6570	B5–14							5	53.8				93.9
Do		B3–56			6	35.3	6	36.4						84.2
Do		B5–33			6	34.1	6	39.4						86.3
Union Winter	583		5	40.9										96.9
Marnobarb	6120		4	36.7										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 standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
				Bu.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Per-cent*
Columbia:														
Tennessee Winter 52 [1]	3543		---	-----	---	-----	5	39.4	5	56.3	5	44.1	-----	100.0
Polders	3213		---	-----	---	-----	5	43.8	5	64.0	5	48.0	-----	111.4
Missouri Early Beardless	6051		---	-----	---	-----	5	35.0	5	45.5	5	43.0	-----	88.3
Tennessee Beardless 5	3384		---	-----	---	-----	5	31.1	5	45.5	5	39.7	-----	83.2
Jackson	6569	B5–9 (S)	---	-----	---	-----	---	-----	5	54.6	5	44.0	-----	98.2
Kentucky 1	6050		---	-----	---	-----	---	-----	5	63.2	5	47.7	-----	110.5
Tennessee Smooth Awn	6570	B5–14	---	-----	---	-----	---	-----	5	48.9	5	46.2	-----	94.7
Jackson 1	7045	7B2–42	---	-----	---	-----	---	-----	---	-----	5	64.0	-----	145.1
Tennessee Smooth Awn	-----	B3–56	---	-----	---	-----	5	28.0	---	-----	---	-----	-----	71.1
Do	-----	B5–33	---	-----	---	-----	5	20.4	---	-----	---	-----	-----	51.8
Union Winter	583		---	-----	---	-----	5	42.2	---	-----	---	-----	-----	107.1
Jackson:														
Tennessee Winter 52 [1]	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	55.8	-----	69.7
Jackson	6569	B5–9 (S)	---	-----	---	-----	---	-----	5	67.2	5	70.5	-----	107.0
Kentucky 1	6050		---	-----	---	-----	---	-----	5	64.0	5	56.4	-----	93.6
Jackson 1	7045	7B2–42	---	-----	---	-----	---	-----	---	-----	5	79.8	-----	123.7
Tennessee Smooth Awn	6570	B5–14	---	-----	---	-----	---	-----	5	64.2	---	-----	-----	100.0
Tennessee Beardless 5	3384		---	-----	---	-----	---	-----	5	37.2	---	-----	-----	57.9
Tennessee Smooth Awn	-----	B3–56	---	-----	---	-----	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.

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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Denton:														
Wintex [1]	6127	23258	4	63.6	4	58.5	4	48.0	4	44.3	4	12.1	45.3	100.0
Tennessee Winter	6125	15825	4	49.8	4	41.2	4	34.9	4	32.4	4	9.2	33.5	74.0
Do	6128	23259	4	49.0	4	43.4	4	45.4	4	44.5	4	9.6	38.4	84.7
Finley	5901	12576	4	45.5	4	41.9	4	43.8	4	44.6	4	8.9	36.9	81.5
Bailey	5902	23241	4	55.1	4	46.8	4	40.7	4	44.7	4	10.7	39.6	87.4
Tennessee Winter 61	3545	15826	4	44.7	4	40.8	4	32.4	4	33.9	4	10.2	32.4	71.5
Texas Winter	6498	24933	---	-----	4	48.4	4	40.9	4	46.4	4	11.4	-----	90.3
Texan	6499	28348	---	-----	4	49.7	4	40.9	4	42.6	4	15.5	-----	91.3
Composite Cross selection	6502	1–32–103	---	-----	4	45.4	4	47.4	4	46.8	4	10.8	-----	92.3
Do	6500	1–33–179	---	-----	4	43.1	4	42.8	4	43.0	4	10.6	-----	85.6
Tenkow	646	20716	---	-----	---	-----	---	-----	4	48.9	4	10.9	-----	106.0
Composite Cross selection	6501	1–33–249	---	-----	4	48.9	4	42.1	---	-----	---	-----	-----	85.4
Tennessee Winter	6126	18561	4	44.0	---	-----	---	-----	---	-----	---	-----	-----	69.2
Smith selection	6143	23257	4	54.8	---	-----	---	-----	---	-----	---	-----	-----	86.2
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	4	34.8	-----	100.0
Tennessee Winter	6125	15825	---	-----	4	25.0	4	30.8	4	22.1	4	27.0	-----	80.8
Finley	5901	12576	---	-----	---	-----	4	35.8	4	28.4	4	40.2	-----	99.3
Composite Cross selection	6500	1–33–179	---	-----	---	-----	4	36.8	4	24.8	4	29.5	-----	86.7
Texan	6499	28348	---	-----	---	-----	4	30.8	4	26.8	4	27.6	-----	81.1
Missouri Early Beardless	6051	24941	---	-----	4	23.7	---	-----	4	20.0	4	24.5	-----	73.3
Tennessee Winter 61	3545	15826	---	-----	---	-----	---	-----	---	-----	4	26.9	-----	77.3
Reno	6561	---------	---	-----	---	-----	---	-----	---	-----	4	32.0	-----	92.0
Texas Winter	6498	24933	---	-----	---	-----	---	-----	---	-----	4	30.8	-----	88.5
Tenkow	646	20716	---	-----	---	-----	---	-----	---	-----	4	42.2	-----	121.3
Composite Cross selection	6502	1–32–103	---	-----	---	-----	---	-----	---	-----	4	30.3	-----	87.1
Do	7046	1–35–4–16	---	-----	---	-----	---	-----	---	-----	4	31.6	-----	90.8
Temple:														
Wintex [1]	6127	23258	---	-----	4	13.0	4	37.3	4	19.4	4	22.0	-----	100.0
Texan	6499	28348	---	-----	4	22.8	4	41.0	4	20.4	4	22.8	-----	116.7
Tennessee Winter	6125	15825	---	-----	4	22.2	4	20.0	4	20.6	4	18.9	-----	89.1
Tennessee Winter 61	3545	15826	---	-----	4	24.0	4	28.6	4	23.2	4	18.5	-----	102.8
Finley	5901	12576	---	-----	4	7.2	4	32.0	4	19.2	4	22.1	-----	87.8
Bailey	5902	23241	---	-----	4	12.6	4	35.8	4	17.6	4	19.9	-----	93.7
Smith selection	6143	23257	---	-----	4	10.8	4	35.0	4	19.0	4	18.2	-----	90.5
Missouri Early Beardless	6051	24941	---	-----	4	15.9	4	18.3	4	15.0	4	14.6	-----	69.6
Tennessee Beardless 5	3384	15831	---	-----	4	11.4	4	19.2	4	15.0	4	14.5	-----	65.5
Composite Cross selection	6500	1–33–179	---	-----	4	29.0	4	32.6	4	18.4	4	17.0	-----	105.8
Do	6502	1–32–103	---	-----	4	31.5	4	41.3	4	18.8	4	25.2	-----	127.4
Iowa Park:														
Tennessee Winter 61 [1]	3545	15826	4	27.8	4	12.8	4	44.1	4	24.7	4	20.0	25.9	100.0
Finley	5901	12576	4	29.4	4	15.1	4	43.2	4	29.0	4	25.9	28.5	110.2
Wintex	6127	23258	---	-----	4	15.2	4	48.2	4	28.6	4	26.4	-----	116.5
Texan	6499	28348	---	-----	---	-----	4	38.6	4	24.7	4	19.0	-----	92.7
Composite Cross selection	6500	1–33–179	---	-----	---	-----	4	34.8	4	25.4	4	21.5	-----	92.0

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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Iowa Park—Con.														
Tenkow	646	20716									4	20.6		103.0
Texas Winter	6498	24933									4	17.8		89.0
Tennessee Winter	6125	15825									4	16.9		84.5
Reno	6561										4	20.0		100.0
Missouri Early Beardless	6051	24941									4	12.7		63.5
Composite Cross selection	6502	1–32–103									4	21.2		106.0
Do	7046	1–35–416									4	25.2		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	32.2		100.0
Finley	5901	12576			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 Beardless 5	3384	15831			4	11.4								35.0
Purdue 21	4581	23252			4	19.9								61.0
Tennessee Winter	6142	23255			4	28.1								86.2
Bushland:														
Spring-sown														
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	23241					6	7.5	6	3.7	6	48.7		82.3
Black	6129	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	7.2	6	54.2		105.1
Club Mariout	261								6	15.8	6	69.4		136.8
Atlas	4118								6	19.5	6	55.4		120.2
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	5911								6	13.2	6	51.3		103.5
Atlas × Vaughn	6970	Moscow 1							6	17.4	6	57.7		120.5
Do	6971	Moscow 8							6	17.7	6	54.2		115.4
Beecher	6566	Moscow 9							6	18.0	6	63.6		131.0
Atlas × Vaughn	6972	Moscow 11							6	15.4	6	57.4		116.9
Do	6973	Moscow 13							6	17.0	6	57.0		118.8
Do	6974	Moscow 29							6	14.7	6	64.1		126.5
Do	6975	Moscow 31							6	14.1	6	55.8		112.2
Glacier	6976	Moscow 33							6	16.9	6	58.4		120.9
Atlas × 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 × 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.

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 compared with standard
			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.	Bu.	Percent
Compana	5438								6	13.8	6	58.2		115.6
Spartan	5027								6	11.8	5	45.3		91.7
Blackhull 1180	6009								6	18.8	5	75.9		152.0
Trebi × Dryland	6981	S. Dak. 69							6	5.6	6	49.8		88.9
Odessa × Dryland	6982	S. Dak. 21							6	8.5	6	44.8		85.6
New Era × Odessa		C–1							6	6.8	6	47.4		87.0
Do		C–2							6	7.9	6	50.2		93.3
Do		C–16							6	11.0	6	52.4		101.8
Do		C–18							6	5.9	6	51.2		91.7
Ezond	5064								6	12.0	6	58.6		113.3
Arivat	6573								6	19.6	6	67.4		139.6
Texan	6499	28348									6	47.0		85.6
Colby 28445 × Flynn	6983	36 Hays 2034									6	54.7		99.6
Composite Cross selection	6984	36Ab. 2457									6	78.8		143.5
Chevron	1111								6	1.4				18.9
Fall-sown														
Wintex [1]	6127	23258					8	37.5	8	24.0	8	73.7		100.0
Texan	6499	28348					8	13.2	8	20.8	8	67.3		74.9
Missouri Early Beardless	6051	24941					8	12.0	8	8.8	8	30.0		37.6
Tennessee Winter	6125	15825					8	22.3	8	13.4	8	47.6		61.6
Tennessee Winter 61	3545	15826					8	12.8	8	16.8	8	51.3		59.8
Composite Cross selection	6500	1–33–179					8	8.9	8	18.2	8	69.6		71.5
Ward	6007	24932					8	24.4	8	19.7	8	71.7		85.7
Tennessee Winter	6034	24930							8	18.4	8	73.3		93.9
Reno	6561								8	18.8	8	77.9		99.0
Woodwin	7033										8	61.0		82.8
Kansas South-central strain	6376										8	71.9		97.6
Michigan Winter	2036										8	64.7		87.8
Lubbock:														
Fall-sown (irrigated)														
Wintex [1]	6127				3	34.2	3	27.8	36	82.4	46	97.3		100.0
Kentucky 1	6050	III–37–5			3	24.0	3	21.5	4	49.1	4	58.6		63.4
Kentucky 2	6148	III–37–8			3	27.5	3	15.9	4	56.8	4	56.1		64.7
Kentucky 11	6021	III–37–20			3	25.3	3	19.5	4	57.5	4	65.6		69.5
Velvon	6109	III–37–23			3	31.0	3	11.9	4	78.8	4	78.5		82.8
Orel	351	III–37–26			3	23.3	3	17.1	4	50.2	4	57.0		61.1
(Lion × Coast) × Trebi		Utah B2–5–2			3	18.7	3	9.3	4	65.8	4	81.2		72.4
Composite Cross selection	5329	III–37–35			3	30.5	3	10.9	4	64.6	4	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–37–44			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
Tennessee Winter 57	3544	III–37–56			3	17.3	3	15.0	4	54.6	4	59.1		60.4
Tennessee Winter 61	3545	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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Lubbock—Con.														
Fall-sown (irrigated)—Continued.														
Coast	4633	III–37–98			3	31.3	3	14.8	4	57.3	4	85.3		78.1
Walden Winter		III–37–101			3	38.0	3	20.7	4	49.4	4	62.5		70.6
Wisconsin Winter	1894	III–37–104			3	37.7	3	23.6	4	59.2	4	77.9		82.1
Union Winter	583	III–37–110			3	23.3	3	12.1	4	60.8	4	69.7		68.6
Winter Club	592	III–37–113			3	36.2	3	23.7	4	47.5	4	83.2		78.9
Composite Cross selection		Oreg. 38			3	34.8	3	31.1	4	56.5	4	83.3		85.1
Do		Oreg. 32, 539			3	35.0	3	27.8	4	59.5	4	69.4		79.3
Do		Oreg. 32, 549			3	28.8	3	28.9	4	59.6	4	78.9		81.2
Do		Oreg. 54			3	34.7	3	33.8	4	76.8	4	81.9		94.0
Santiam	6367	III–37–140			3	31.8	3	25.7	4	58.8	4	64.4		74.8
O. A. C. 1	5953	III–37–143			3	28.9	3	19.7	4	56.5	4	46.7		62.8
O. A. C. 6	5954	III–37–146			3	20.3	3	16.3	4	70.3	4	79.0		76.9
Bailey	5902	III–37–149			3	38.7	3	28.3	4	61.9	4	80.1		86.5
Tennessee Winter	6125	III–37–155			3	18.8	3	14.3	4	56.5	4	60.9		62.3
Purdue 1101	4582	III–37–158			3	26.7	3	21.4	4	44.4	4	65.7		65.5
Purdue 21	4581	III–37–161			3	25.7	3	19.9	4	35.7	4	71.6		63.3
Finley	5901	III–37–170			3	36.0	3	21.8	4	42.8	4	83.8		76.3
Smith selection	6143	III–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 [1]	5911				45	37.4	64	41.8	41	39.9	68	42.6		100.0
Club Mariout	261	III–37–2			3	33.9	4	46.8	4	35.0	4	47.6		101.0
Stavropol	5913	III–37–3			3	30.9	4	48.0	4	36.0	4	41.5		96.7
Minsturdi	1556	III–37–4			3	21.0	4	33.4	4	19.4	4	39.5		70.1
Beldi Giant	2777	III–37–6			3	35.7	4	47.6	4	23.5	4	39.7		90.6
Trebi	936	III–37–7			3	40.5	4	39.2	3	23.0	4	44.9		91.2
North Platte 1	5266	III–37–9			3	37.0	4	48.1	3	41.1	4	49.0		108.3
Mensury	4696	III–37–10			3	22.4	4	43.2	3	22.9	4	37.2		77.7
Coast		III–37–13			3	40.3	4	37.1	3	44.8	4	36.7		98.3
Do	690	III–37–15			3	26.5	4	43.3	4	41.5	4	41.7		94.6
Atlas × Vaughn	6970	Moscow 1			3	33.3	4	35.7	4	28.7	4	50.3		91.5
Beecher	6566	Moscow 9			3	19.5	4	40.3	3	33.7	4	47.7		87.3
Vaughn	1367	III–37–18			3	31.8	4	38.6	4	39.1	4	35.4		89.6
Ezond	6265	III–37–19			3	44.0	4	44.4	4	35.5	4	33.8		97.5
Smooth Awn 203	6267	III–37–21			3	43.3	4	55.2	4	31.4	4	34.0		101.4
Hero	4602	III–37–22			3	36.1	4	48.3	4	35.4	4	52.1		106.3
Nobarb	6335	III–37–24			3	28.1	4	35.9	3	15.7	4	35.3		71.1
Comfort	4578	III–37–25			3	28.4	4	37.8	4	20.0	4	38.1		76.9
Lico	6279	III–37–28			3	30.1	4	47.1	4	37.0	4	37.8		94.0
Regal	5030	III–38–1			3	25.7	4	34.3	4	26.0	4	30.5		72.0
Glabron	4577	III–37–31			3	22.6	4	41.0	4	18.4	4	39.2		75.0
Velvet	4252	III–37–32			3	18.2	4	31.1	4	16.4	4	53.8		73.9
Oderbrucker × Lion	5028	Wis. Ped. 37			3	23.3	4	27.5	3	27.9	4	30.3		67.4
Wisconsin Barbless	5105	III–37–34			3	19.4	4	23.4	3	21.2	4	36.0		61.8
Oderbrucker	4666	III–37–37			3	8.9	4	24.9	4	7.0	4	27.6		42.3
Atlas	4118	III–37–39			3	30.5	4	38.9	3	38.4	4	49.1		97.0
O. A. C. 21	1470	III–37–42			3	16.8	4	33.8	3	8.7	4	28.5		54.3
Manchuria	2330	III–37–46			3	20.2	4	33.7	4	10.7	4	2.9		60.3
Odessa	182	III–37–47			3	21.2	4	35.9	4	18.2	4	1.8		72.4
Lion	923	III–37–49			3	35.3	4	37.7	4	51.2	4	0.5		101.9
Colsess	2792	III–37–66			3	26.9	4	37.7	3	15.0	4	31.7		68.8
Scarab	995	III–37–67			3	39.9	4	45.1	4	40.6	4	23.6		92.3
Velvon	6109	III–37–23			3	34.1	4	43.4	3	53.1	4	52.5		113.2
Composite Cross selection	5329	III–37–35			3	36.6	4	45.1	3	33.4	4	37.9		94.6

[1] 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 compared with standard
		1937		1938		1939		1940		1941			
		Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
			Bu.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Percent*
Trebi [1]	936	3	69.1	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	------	98.3
Velvon 5	7054	---	------	---	------	---	------	---	------	3	87.6	------	108.7
Titan	7055	---	------	---	------	---	------	---	------	3	67.7	------	84.0
Union Beardless	5976	3	59.4	3	65.1	3	92.9	3	54.9	---	------	------	83.7
Algerian	1179	3	74.3	3	91.7	3	94.5	---	------	---	------	------	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 Glade 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 compared with standard
		1937		1938		1939		1940		1941			
		Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
			Bu.		*Bu.*		*Bu.*		*Bu.*		*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	3	28.3	2	27.9	35.3	90.6
Esaw	4690	2	40.7	2	44.1	3	43.6	3	30.8	2	44.5	40.7	104.5
Composite Cross	5530	2	43.6	2	43.2	3	34.4	3	28.9	2	38.2	37.7	96.6
Smooth Awn 86	6268	2	37.8	2	56.4	3	48.3	3	29.2	1	62.5	46.8	120.1
Sunrise	6272	2	29.5	2	44.3	3	53.8	3	24.0	2	35.9	37.5	96.2
Kentucky 11	6021	2	28.0	2	29.1	3	38.1	3	20.0	2	59.0	34.8	89.3
Marnobarb	6120	2	19.8	2	23.4	3	40.5	3	19.0	2	56.7	31.9	81.7
Poland	6280	2	27.5	2	26.4	3	35.0	3	17.9	2	53.4	32.0	82.2
Hooded 16	6574	1	43.5	2	32.9	3	43.0	3	30.3	2	37.1	37.4	95.8
Nakano Wase 59	6567	---	------	1	43.8	1	39.3	3	28.2	2	39.1	------	96.0
West Virginia I-35-153	7063	---	------	---	------	---	------	1	30.3	2	28.5	------	77.2
Tennessee Winter	257	2	47.1	2	41.2	3	37.4	3	22.4	---	------	------	99.3
Alaska	4106	2	50.4	2	41.5	3	34.2	3	22.8	---	------	------	99.9
Orel	351	2	49.0	2	38.3	3	33.4	1	20.5	---	------	------	94.7
Mechanical Mixture	4115	2	52.5	2	44.1	3	33.0	3	27.4	---	------	------	105.3
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	40.1	3	27.8	---	------	------	95.4
Han 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										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.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Percent*
Arlington—Continued.													
Smooth Awn 203	6267	2	36.8	2	40.1	3	26.6	3	25.1	---	------	------	86.3
Woods Hooded	6235	2	31.9	2	31.4	3	49.6	3	26.3	---	------	------	93.4
Hooded 11	6575	1	38.8	2	31.0	3	29.2	1	18.0	---	------	------	78.5
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	---	------	------	106.5
Tennessee Winter × Smooth Awn	6565	---	------	2	34.3	3	34.4	3	32.5	---	------	------	91.3
Virginia Hooded	------	---	------	1	36.0	1	35.8	1	15.5	---	------	------	78.8
Brugh 23	6491	---	------	1	38.0	1	31.3	1	18.0	---	------	------	78.8
Brugh 76	6477	---	------	1	38.0	1	35.2	1	22.8	---	------	------	86.6
Nakano Wase 58	7056	---	------	1	42.0	1	40.0	1	28.3	---	------	------	99.5
Nakano Wase 33	6269	2	30.2	2	42.5	1	37.5	---	------	---	------	------	92.8
Composite Cross III	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 Beardless	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	100.0
Tennessee Winter	6034	10	51.7	10	37.7	3	16.5	3	33.4	3	23.2	32.5	115.6
Nakano Wase 33	6269	10	51.0	10	22.5	3	14.3	3	30.6	3	19.3	27.5	97.9
Nakano Wase 58	7056	10	47.6	10	23.6	3	14.5	3	28.3	3	27.1	28.2	100.4
Smooth Awn 85	------	10	43.9	10	31.4	3	17.2	3	40.1	3	29.2	32.4	115.1
Orel	351	10	69.7	10	27.4	3	16.9	3	35.1	3	22.1	34.2	121.8
Smooth Awn 90	7029	10	55.3	10	31.7	3	16.2	3	28.5	3	24.7	31.3	111.2
Hooded 11	6575	10	42.0	10	24.8	3	8.6	3	15.9	3	28.4	23.9	85.1
Kentucky 11	6021	10	53.9	10	23.8	3	14.8	3	33.8	3	27.8	30.8	109.6
Tennessee Beardless 6	2746	10	41.4	10	26.3	3	11.2	3	31.7	3	20.8	26.3	93.5
Smooth Awn 86	6268	10	44.3	10	33.2	3	10.8	3	38.0	3	31.5	31.6	112.2
Tennessee Winter 66	3546	10	59.4	10	40.6	3	19.2	3	40.5	3	20.9	36.1	128.4
Esaw	4690	10	49.2	10	30.1	3	16.2	3	21.1	3	25.2	28.4	100.9
Nakano Wase 45	------	10	60.7	10	34.7	3	18.1	3	27.4	3	19.8	32.1	114.3
Rowan	5672	10	35.4	10	23.3	3	11.3	3	26.5	3	25.2	24.3	86.6
Hooded 32	------	10	35.9	10	23.2	3	14.3	3	13.8	3	26.6	22.8	80.9
Smooth Awn 203	6267	10	53.9	10	29.5	3	11.0	3	30.4	3	23.1	29.6	105.2
Nakano Wase 59	6567	10	64.8	10	26.5	3	12.3	3	34.3	3	20.0	31.6	112.3
Hooded 16	6574	10	37.7	10	26.3	3	13.0	3	26.6	3	21.8	25.1	89.2
Tennessee Winter 2	------	10	37.2	10	33.0	3	17.8	3	35.4	3	18.9	28.5	101.2
Tennessee Winter 9	------	10	40.1	10	30.6	3	15.5	3	44.4	3	23.2	30.8	109.4
Tennessee Winter 11	------	10	42.1	10	35.0	3	12.9	3	41.5	3	21.2	30.5	108.6
Tennessee Winter 17	------	10	41.2	10	36.5	3	14.6	3	28.9	3	23.8	29.0	103.1
Tennessee Winter 18	------	10	37.7	10	32.0	3	9.7	3	36.1	3	27.2	28.5	101.5
Tennessee Winter 19	------	10	41.7	10	39.5	3	14.2	3	39.1	3	23.2	31.5	112.2
Tennessee Winter 20	------	10	46.1	10	33.6	3	9.6	3	40.3	3	27.5	31.4	111.7
Mechanical Mixture	4115	---	------	10	32.2	3	16.3	3	15.3	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	38.3	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	------	121.5
Tennessee Winter × 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 × 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	------	83.1
Smooth Awn Selection (Sta. No. Md. 15-8)	6495	10	54.1	---	------	3	5.9	3	19.9	3	16.3	------	86.3
Nakano Wase 51	7057	10	59.8	---	------	3	11.8	3	18.4	3	18.6	------	97.4
Nakano Wase	754–5	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	25.8	------	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	5255	---	------	---	------	3	8.5	3	30.7	3	22.9	------	104.0

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										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.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Per-cent*
Blacksburg—Continued.													
Marnobarb	6120	---	---	---	---	---	---	3	33.8	3	25.2	---	128.3
Brugh 23	6491	---	---	---	---	---	---	3	23.9	3	23.2	---	102.4
Brugh 76	6477	---	---	---	---	---	---	3	22.4	3	28.8	---	111.3
Kentucky 1	6050	---	---	---	---	---	---	3	40.1	3	31.8	---	156.3
Staunton:													
Marnobarb [1]	6120	---	---	---	---	1	53.4	1	53.1	1	39.7	---	100.0
Hooded 16	6574	---	---	---	---	1	38.2	1	35.4	1	38.0	---	76.3
Smooth Awn 203	6267	---	---	---	---	1	68.0	1	41.7	1	33.1	---	97.7
Smooth Awn 86	6268	---	---	---	---	1	25.4	1	40.6	1	26.3	---	63.1
Poland	6280	---	---	---	---	1	52.0	1	58.3	1	37.2	---	100.9
Sunrise	6272	---	---	---	---	1	24.0	1	50.0	1	28.6	---	70.2
Tennessee Winter	6034	---	---	---	---	1	41.0	1	47.9	1	37.4	---	86.4
Wisconsin Winter	2159	---	---	---	---	---	---	---	---	1	40.7	---	102.5
Glade Spring:													
Nakano Wase 58 [1]	7056	---	---	---	---	2	47.3	2	54.5	2	30.0	---	100.0
Nakano Wase 51	7057	---	---	---	---	---	---	2	52.0	2	19.6	---	84.7
Nakano Wase	754–5	---	---	---	---	---	---	2	69.6	2	21.7	---	108.0
Nakano Wase 59	6567	---	---	---	---	---	---	2	60.2	2	22.9	---	98.3
Marnobarb	6120	---	---	---	---	---	---	2	51.4	2	28.0	---	94.0
Virginia Hooded	---	2	21.9	2	30.3	2	41.1	---	---	---	---	---	86.9
Tennessee Winter	---	2	44.8	2	44.4	2	65.4	---	---	---	---	---	138.3
Smooth	---	2	43.1	2	34.8	---	---	---	---	---	---	---	---
Slightly Awned	---	2	43.8	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. [9]
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										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.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Per-cent*
Pullman:														
Spring-sown														
Rufflyn [1]	6374	2356	4	77.8	4	53.6	4	54.7	4	45.0	4	52.0	56.6	100.0
Beldi Giant	2777	967	4	67.1	4	49.8	4	58.0	4	43.4	4	47.9	53.2	94.0
Blue	1247	973	4	74.6	4	50.6	4	62.4	4	43.6	4	54.1	57.1	100.8
Horsford	1775	873	4	65.7	4	40.4	4	46.5	4	38.1	4	38.0	45.7	80.8
Trebi	936	1176	4	67.0	4	48.0	4	55.2	4	44.4	4	49.4	52.8	93.3
Hannchen	4841	2911	4	67.7	4	52.6	4	55.6	4	42.2	4	33.2	50.3	88.8
Composite Cross	4116	3212	4	69.3	4	57.0	4	49.8	4	33.4	4	44.2	50.7	89.6
Flynn 37	5918	3230	4	85.6	4	64.5	4	60.4	4	43.5	4	50.4	60.9	107.5
Winter Club	592	957	4	64.6	4	53.7	4	49.7	4	42.1	4	50.2	52.1	91.9
Atlas	4118	2687	---	---	4	58.1	4	54.8	4	41.0	4	43.5	---	96.2
Belford	7060	3399	---	---	---	---	---	---	2	33.0	4	36.6	---	71

See footnotes at end of table.

[9] 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										Average yield, 1937–41	Relative yield compared with standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
Pullman—Con.														
Spring-sown—Continued.				Bu.		Bu.		Bu.		Bu.		Bu.	Bu.	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 Mixture	4115	2486	4	60.7	4	55.3	4	43.5	---	-----	---	-----	-----	85.7
Olli	6251	-----	---	-----	4	24.5	4	23.3	---	-----	---	-----	-----	44.1
Velvet	4252	2134	4	41.3	4	31.9	---	-----	---	-----	---	-----	-----	55.7
Fall-sown														
Winter Club [1]	592	957	4	71.5	4	82.0	4	69.9	4	54.8	4	64.2	68.5	100.0
Wisconsin Winter	1894	971	4	53.3	4	63.8	4	51.9	4	50.7	4	47.4	53.4	78.0
Olympia	6107	2799	4	57.5	4	62.3	4	51.1	4	45.6	4	35.6	50.4	73.6
Lind:														
Meloy [1]	1176	1343	3	13.8	3	21.4	3	11.3	6	6.8	3	25.3	15.7	100.0
Hannchen	531	1174	3	18.9	3	20.0	3	10.4	6	11.2	3	22.0	16.5	105.0
Rufflyn	6374	2356	---	-----	---	-----	---	-----	---	-----	3	20.7	-----	81.8
Flynn 37	5918	3230	---	-----	---	-----	---	-----	---	-----	3	25.7	-----	101.6
Composite Cross selection	7058	3400	---	-----	---	-----	---	-----	---	-----	3	26.0	-----	102.8
Do	7059	3401	---	-----	---	-----	---	-----	---	-----	3	26.5	-----	104.7
California Mariout	1455	3213	---	-----	---	-----	---	-----	---	-----	3	12.7	-----	50.2
Belford	7060	3399	---	-----	---	-----	---	-----	---	-----	3	30.7	-----	121.3
Prosser: [2]														
Blue [1]	1247	973	3	61.2	2	49.5	3	32.9	3	49.2	---	-----	-----	100.0
Rufflyn	6374	2356	---	-----	---	-----	---	-----	3	45.9	---	-----	-----	93.3

[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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Morgantown:														
Union Winter [1]	583	2	4	27.7	4	49.8	4	36.0	5	70.2	4	25.9	41.9	100.0
Tennessee Winter 52	3543	21	4	27.6	4	45.0	4	33.3	5	71.6	4	20.4	39.6	94.4
Tennessee Winter	257	22	4	30.4	4	43.8	4	31.4	5	58.9	4	26.2	38.1	91.0
Kentucky 1	6050	16	4	47.8	4	61.8	4	29.0	5	64.2	4	24.3	45.4	108.3

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 compared with standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
				Bu.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Morgantown—Con.														
Kentucky 2	6148	17	4	36.2	4	49.4	4	32.3	5	73.2	4	25.7	43.4	103.4
Han River	2163	18	4	30.1	4	45.2	4	35.9	5	65.4	4	23.6	40.0	95.5
Wisconsin Winter	2159	26	4	32.7	4	50.0	4	33.4	5	72.1	4	21.0	41.8	99.8
Pidor	901	27	4	31.4	4	45.4	4	33.3	5	72.0	4	32.6	42.9	102.4
Scottish Pearl	277	28	4	40.4	4	46.1	4	39.1	5	67.2	4	25.6	43.7	104.2
Tuckwiller	7061	31	4	32.2	4	52.6	4	35.0	5	68.8	4	30.8	43.9	104.7
Folk	7062	32	4	38.2	4	49.2	4	29.8	5	69.9	4	27.9	43.0	102.6
Poland	6280	36	4	49.9	4	50.9	4	35.0	5	66.4	4	29.6	46.4	110.6
Orel	351	23	4	28.1	4	45.2	4	26.1	5	50.1	4	12.3	32.4	77.2
Kentucky 11	6021	15	4	31.9	4	48.7	4	29.8	5	65.0	4	28.3	40.7	97.2
Tennessee Beardless 6	2746	25	4	26.9	4	30.3	4	27.2	5	53.8	4	24.0	32.4	77.4
North Carolina Hooded	5951	20	4	25.8	4	34.4	4	41.5	5	59.2	4	32.1	38.6	92.1
West Virginia I–35–274	7039	43	4	65.7	4	40.2	4	45.4	5	60.8	4	32.1	48.8	116.5
Tennessee Beardless 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
Esaw	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	4	21.1	-----	82.8
Missouri Early Beardless	6051	37	---	-----	---	-----	4	45.6	5	50.4	4	36.9	-----	100.6
Smooth Awn 86	6268	41	---	-----	---	-----	---	-----	---	-----	4	30.1	-----	116.2
Sunrise	6272	42	---	-----	---	-----	---	-----	---	-----	4	15.2	-----	58.7
Hooded 16	6574	----------	---	-----	---	-----	---	-----	---	-----	4	10.8	-----	41.7
Kearneysville:														
Union Winter [1]	583	2	4	32.4	4	23.1	4	20.2	5	11.5	4	24.7	22.4	100.0
Tennessee Winter 52	3543	21	4	38.2	4	25.8	4	20.2	5	15.3	4	22.8	24.5	109.3
Kentucky 1	6050	16	4	29.8	4	33.0	4	17.8	5	11.0	4	26.3	23.6	105.4
Kentucky 2	6148	17	4	41.7	4	27.4	4	18.8	5	10.1	4	25.1	24.6	110.0
Pidor	901	27	4	29.7	4	26.5	4	31.2	5	12.7	4	21.6	24.3	108.8
Scottish Pearl	277	28	4	33.3	4	26.2	4	25.1	5	12.8	4	25.8	24.6	110.1
Tuckwiller	7061	31	4	31.0	4	23.7	4	19.4	5	13.3	4	24.0	22.3	99.6
Tennessee Beardless 6	2746	25	4	23.1	4	22.2	4	18.8	5	10.6	4	19.7	18.9	84.4
North Carolina Hooded	5951	20	4	27.1	4	25.8	4	25.2	5	12.4	4	22.6	22.6	101.1
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	-----	85.6
West Virginia I–35–274	7039	43	---	-----	---	-----	---	-----	5	12.6	4	21.9	-----	95.3
Kentucky 11	6021	15	4	30.5	4	29.4	4	19.9	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	100.0
Tennessee Winter 52	3543	21	5	0	5	59.6	5	31.1	5	54.3	5	44.3	37.9	96.1
Kentucky 1	6050	16	5	0	5	46.3	5	31.9	5	55.9	5	54.5	37.7	95.7
Kentucky 2	6148	17	5	0	5	53.1	5	34.9	5	58.5	5	50.0	39.3	99.7
Pidor	901	27	5	0	5	56.7	5	36.2	5	54.9	5	56.6	40.9	103.8
Scottish Pearl	277	28	5	0	5	49.9	5	37.3	5	61.4	5	49.1	39.5	100.4
Tuckwiller	7061	31	5	0	5	49.9	5	31.5	5	55.0	5	45.7	36.4	92.4
Poland	6280	36	5	0	5	44.4	5	34.1	5	53.6	5	47.3	35.9	91.1
Tennessee Beardless 6	2746	25	5	0	5	28.1	5	32.9	5	49.8	5	43.4	30.8	78.3
North Carolina Hooded	5951	20	5	0	5	50.4	5	40.1	5	50.8	5	52.2	38.7	98.2
Missouri Early Beardless	6051	37	---	-----	---	-----	---	-----	5	51.7	5	55.7	-----	101.0
West Virginia I–35–274	7039	43	---	-----	---	-----	---	-----	5	63.3	5	49.3	-----	105.9
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 compared with standard
			1937		1938		1939		1940		1941			
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield		
				Bu.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Percent*
Arthurdale: [3]														
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 Beardless 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	-----	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 Beardless 6	2746	25	---	-----	4	33.9	4	39.5	---	-----	---	-----	-----	92.2
Lewisburg:														
Union Winter [1]	583	2	---	-----	---	-----	---	-----	---	-----	4	27.0	-----	100.0
Kentucky 1	6050	16	---	-----	---	-----	---	-----	---	-----	4	31.0	-----	114.8
Kentucky 2	6148	17	---	-----	---	-----	---	-----	---	-----	4	35.1	-----	130.0
Tennessee Winter 52	3543	21	---	-----	---	-----	---	-----	---	-----	4	30.6	-----	113.3
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 Beardless 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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Madison:														
Wisconsin Barbless [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 Barbless × Newal	7069	X191–2–1–2									4	47.1		96.1
Ioglos	6239	131	4	20.8	4	27.1	4	23.6	4	39.4				84.0
Chevron	1111		4	33.4	4	27.4	4	23.2	4	42.1				95.5
Manchurian	6492	122–3	4	21.3	4	24.1								76.3
Manchuria	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 × Oderbrucker [2]		X128–5–5–3	4	20.8	4	24.3								75.8
Lion × Oderbrucker [3]		X163–1–8	4	21.7	4	25.5								79.3
Lion × Oderbrucker [2]		X120–5–26–12–1–1	4	20.1	4	25.2								76.1
(Lion × Oderbrucker [2]) × July		X156–8–4–4–1	4	15.7										59.0
Marshfield:														
Wisconsin Barbless [1]	5105	Ped.38	3	15.0	3	43.0	3	25.4	4	54.2	4	29.9	33.5	100.0
Oderbrucker	4666	Ped.5–1	3	14.0	3	41.2	3	29.8	4	52.6	4	33.0	34.1	101.9
Velvet	4252		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						3	24.5	4	56.7	4	34.0		105.2
Ashland:														
Wisconsin Barbless [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						3	18.7	3	34.1	2	17.5		79.6
Sturgeon Bay:														
Wisconsin Barbless [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	39.2	4	38.2	4	35.8	33.6	98.0
Peatland	5267						3	36.5	4	42.1	4	31.3		87.7
Trebi	936								4	44.7	4	38.5		106.3

[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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Laramie:														
Trebi [1]	936	I–1	5	86.1	5	70.5	9	17.1	4	51.9	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	82.6	127.8
Glabron	4577	I–5	1	63.6	1	61.7	1	20.7	4	57.9	4	85.8	57.9	89.6
Horn	926	I–2	1	73.3	1	87.7	2	22.5	---	-----	4	89.5	-----	100.6
Wisconsin Barbless	5105	I–3	---	-----	---	-----	---	-----	4	62.5	4	91.3	-----	102.8
Beecher	6566	I–6	---	-----	---	-----	---	-----	4	60.2	4	79.2	-----	93.2
Lico	6279	I–4	---	-----	---	-----	---	-----	4	66.3	4	101.5	-----	112.2
Charlottetown 80	2732	I–12	1	97.9	1	86.3	1	24.3	4	65.2	---	-----	-----	121.3
Spartan	5027	I–11	1	73.0	1	58.2	1	28.7	4	58.1	---	-----	-----	96.6
Vaughn	1367	I–16	1	70.2	1	58.7	1	25.6	4	42.3	---	-----	-----	87.2
Comfort	4578	I–15	1	63.5	1	56.0	1	17.1	4	61.9	---	-----	-----	88.0
O. A. C. 21	1470	I–10	1	91.4	1	64.0	1	22.4	---	-----	---	-----	-----	102.4
Coast	690	I–9	1	95.7	1	84.6	1	27.2	---	-----	---	-----	-----	119.5
Beldi Giant	2777	I–8	1	104.6	1	79.0	1	42.0	---	-----	---	-----	-----	129.9
White Smyrna	658	I–14	1	97.2	1	84.7	1	35.4	---	-----	---	-----	-----	125.1
Hannchen	531	I–13	1	92.6	1	71.3	1	31.5	---	-----	---	-----	-----	112.5
Nepal	595	I–17	---	-----	1	67.0	1	10.7	---	-----	---	-----	-----	88.7
Sheridan:														
Trebi [1]	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
Velvon	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	[2]26.0	3	53.5	3	57.7	3	33.6	3	58.1	45.8	88.3
Coast	690	----------	3	37.1	3	60.0	3	34.8	3	35.2	3	58.8	45.2	87.1
Meloy	1176	----------	3	35.9	3	56.5	3	43.6	3	32.1	3	50.1	43.6	84.1
Ezond	6265	----------	3	42.8	3	60.0	3	50.4	3	39.7	3	62.3	51.0	98.4
Wisconsin Barbless	5105	----------	---	-----	3	61.9	3	42.0	3	35.9	3	53.5	-----	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
Compana	5438	----------	---	-----	---	-----	---	-----	---	-----	3	59.6	-----	109.2
Nepal	595	----------	3	34.4	3	42.0	3	29.8	3	28.3	---	-----	-----	65.7
Glabron	4577	----------	3	[2]38.2	3	56.9	3	41.6	---	-----	---	-----	-----	83.8
Velvet	4252	----------	3	[2]35.5	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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Lacombe:														
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	6251	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	91.5
Sanalta	6087	1088	4	83.5	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:														
Irrigated														
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	95.2	4	82.3	4	110.2	4	96.9	4	80.1	92.9	121.7
Olli	6251	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	113.9
Trebi	936	1115	4	103.8	4	86.0	4	121.2	4	102.2	4	69.8	96.6	126.5
Titan	7055	1118	4	80.3	4	66.8	4	71.3	4	111.0	4	60.8	78.0	102.2
Regal	5030	742	4	78.4	4	67.9	---	-----	4	115.9	4	71.9	-----	113.5
Dry land														
O. A. C. 21 [2]	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	6251	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
Byng	6089	1096	---	-----	---	-----	4	55.5	4	39.8	4	43.6	-----	113.4
Plush	6093	1106	---	-----	---	-----	4	48.5	4	44.3	4	50.0	-----	116.6
Rex	6618	1113	---	-----	---	-----	4	50.7	4	33.6	4	50.4	-----	110.0
Titan	7055	1118	---	-----	---	-----	4	54.5	4	36.5	4	41.2	-----	107.9
Regal	5030	742	---	-----	4	57.5	---	-----	4	33.6	4	46.8	-----	94.9
Edmonton: [3]														
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	6251	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	41.5	4	0	4	61.3	4	42.7	29.1	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	53.7	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	31.5	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	6251	739	4	42.6	4	15.2	4	29.5	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	62.8	33.4	100.0
Olli	6251	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	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 compared with standard
			1937		1938		1939		1940		1941		
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	
				Bu.		Bu.		Bu.		Bu.		Bu.	Percent
Trebi [1]	939	1115	---	------	4	44.7	4	52.3	4	50.7	4	45.7	100.0
Olli	6251	739	---	------	4	48.1	4	38.6	4	50.3	4	49.5	96.4
Byng	6089	1096	---	------	---	------	4	61.5	4	55.4	4	46.4	103.1
Nobarb	5336	1022	---	------	---	------	4	50.6	5	51.7	5	50.3	102.6
Plush	6093	1106	---	------	---	------	4	47.1	4	52.0	4	55.1	103.7
Wisconsin Barbless	5105	1101	---	------	---	------	4	56.5	4	53.2	4	37.7	99.1
Regal	5030	742	---	------	4	37.9	---	------	4	55.3	4	44.2	97.4
Titan	7055	1118	---	------	---	------	---	------	4	49.1	4	48.0	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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
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	100.0
Newal	6088	1089	4	58.2	4	69.6	4	43.9	4	62.3	4	71.8	61.2	108.4
Peatland	5267	1112	4	53.6	4	57.6	4	30.0	4	49.7	4	58.4	49.9	88.3
Plush	6093	1106	4	68.2	4	69.4	4	60.7	4	66.7	4	75.6	68.1	120.7
Trebi	936	1115	4	63.4	4	69.9	4	45.4	4	66.1	4	53.3	59.6	105.6
Wisconsin Barbless	5105	1101	4	62.2	4	60.2	4	46.7	4	52.1	4	74.3	59.1	104.7
Gartons	7016	1134	---	------	---	------	4	31.9	4	52.4	4	46.4	-----	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	100.0
Newal	6088	1089	4	76.5	4	72.3	4	49.1	4	78.6	4	47.7	64.8	111.0
Peatland	5267	1112	4	57.2	4	63.2	4	26.1	4	52.3	4	39.5	47.7	81.6
Plush	6093	1106	4	79.5	4	69.8	4	58.1	4	73.8	4	56.0	67.4	115.4
Trebi	936	1115	4	47.4	4	46.2	4	44.5	4	60.8	4	32.4	46.3	79.2
Wisconsin Barbless	5105	1101	4	63.4	4	64.9	4	39.3	4	65.6	4	43.3	55.3	94.7
Gartons	7016	1134	---	------	---	------	4	29.5	4	56.8	4	27.6	-----	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	100.0
Newal	6088	1089	4	45.1	4	54.4	4	62.3	4	58.4	4	49.9	54.0	110.0
Peatland	5267	1112	4	52.2	4	51.6	4	53.8	4	73.5	4	45.3	55.3	112.5
Plush	6093	1106	4	69.3	4	50.5	4	71.4	4	66.1	4	56.8	62.8	127.9
Trebi	936	1115	4	60.1	4	52.3	4	67.2	4	62.4	4	55.0	59.4	120.9
Wisconsin Barbless	5105	1101	4	60.0	4	49.4	4	65.2	4	75.1	4	55.4	61.0	124.2
Gartons	7016	1134	---	------	---	------	4	52.1	4	40.3	4	28.7	-----	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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
O. A. C. 21 [1]	1470	1086	4	40.9	4	35.4	4	41.9	4	55.7	4	43.3	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
Nobarb	6335	1022	4	43.7	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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
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
Nobarb	6335	1022	4	51.1	4	43.0	4	48.2	4	54.0	4	35.7	46.4	102.2
Olli	6251	739	4	51.3	4	52.6	4	58.7	4	65.5	4	38.9	53.4	117.6
Velvet	4252	755	4	41.7	4	45.9	4	46.2	4	37.3	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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
Ottawa: [1]														
O. A. C. 21 [2]	1470	1086	4	44.0	4	36.6	4	35.9	4	57.0	4	0	34.7	100.0
Byng	6089	1096	4	52.3	4	43.8	4	54.4	4	58.7	4	0	41.8	120.6
Nobarb	6335	1022	4	36.5	4	48.0	4	45.2	4	52.2	4	0	36.4	104.8
Plush	6093	1106	4	36.9	4	38.4	4	45.6	4	62.0	4	0	36.6	105.4
Velvet	4252	755	4	52.4	4	35.9	4	42.4	4	53.1	4	0	36.8	105.9
Kapuskasing:														
O. A. C. 21 [2]	1470	1086	4	51.4	4	45.9	4	42.2	4	53.5	4	74.1	53.4	100.0
Byng	6089	1096	4	47.0	4	63.3	4	54.2	4	72.4	4	87.5	64.9	121.5
Nobarb	6335	1022	4	45.3	4	55.7	4	50.5	4	60.9	4	76.0	57.7	108.0
Velvet	4252	755	4	49.9	4	49.8	4	40.6	4	58.3	4	72.9	54.3	101.6
Olli	6251	739	4	48.9	4	47.3	4	49.4	4	53.1	4	73.2	54.4	101.8
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	100.0
Byng	6089	1096	4	32.9	4	42.7	4	47.0	4	46.1	4	42.8	42.3	149.6
Nobarb	6335	1022	4	45.8	4	46.2	4	42.3	4	55.6	4	41.1	46.2	163.4
Velvet	4252	755	4	38.7	4	45.9	4	38.9	4	45.7	4	37.5	41.3	146.2

[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		1938[1]		1939		1940		1941		
			Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	Plots	Yield	
				Bu.		Bu.		Bu.		Bu.		Bu.	Percent
O. A. C. 21 [2]	1470	1086	4	21.3	---	------	2	45.0	4	45.8	4	23.9	100.0
Byng	6089	1096	4	32.7	---	------	2	47.1	4	53.0	4	34.8	123.2
Charlottetown 80	2732	817	4	41.9	---	------	2	52.3	4	50.1	4	33.5	130.7
Nobarb	6335	1022	4	31.0	---	------	2	49.9	4	57.1	4	26.9	121.3
Olli	6251	739	4	45.8	---	------	2	51.5	4	55.2	4	35.6	138.3
Velvet	4252	755	4	27.2	---	------	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 Normandin 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										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.		*Bu.*		*Bu.*		*Bu.*		*Bu.*	*Bu.*	*Percent*
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	64.7	58.0	98.6
Velvet	4252	755	4	66.8	4	47.5	4	63.4	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	25.5	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	41.9	4	52.3	4	62.8	---	-----	---	-----	-----	94.5
Hannchen	4841	837	4	42.2	4	56.9	4	74.6	---	-----	---	-----	-----	104.5
Pontiac	4849	741	4	42.7	4	57.2	4	65.9	---	-----	---	-----	-----	99.8
Charlottetown 80	2732	817	4	45.3	4	53.6	4	63.2	---	-----	---	-----	-----	97.5
Peatland	5267	722	4	39.2	4	49.6	4	62.0	---	-----	---	-----	-----	90.7
Mensury Ott. 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	59.5	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										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.		Bu.		Bu.		Bu.		Bu.	Bu.	Percent
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	33.0	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	46.8	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	44.0	4	52.5	4	44.2	36.9	126.8
Rex	6618	1113	4	30.4	4	22.9	4	50.7	4	59.6	4	49.2	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	32.0	4	63.7	4	47.5	4	24.7	34.8	100.0
Newal	6088	1089	4	13.0	4	29.2	4	63.5	4	55.5	4	29.7	38.2	109.8
Plush	6093	1106	4	5.9	4	30.3	4	66.8	4	56.7	4	25.1	37.0	106.3
Wisconsin Barbless	5105	1101	4	4.5	4	38.4	4	46.0	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
Peatland	5267	1112	4	2.5	4	41.2	4	54.3	---	-----	4	25.1	-----	97.5
Trebi	936	1115	4	17.8	4	25.7	4	69.3	---	-----	4	24.2	-----	108.5
Olli	6251	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	29.2	-----	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	16.4	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	5.4	4	17.5	6	67.5	6	34.5	6	18.2	28.6	118.7
Newal	6088	1089	4	3.5	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	35.2	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	35.1	4	51.8	4	5.2	24.2	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	28.9	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.
United States								
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			
Stuttgart	Fall					1	Jackson	6569
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.
United States—Continued.								
Illinois:								
Urbana	Spring	Trebi	936	Wisconsin Barbless	5105			
Do	Fall	Purdue 1101	4582	Purdue 21	4581	2	Purdue 28156A3–2–2–2	6562
Alhambra	Spring					2	Spartan	5027
Do	Fall	Kentucky 1	6050	Purdue 21	4581	4	Purdue 1101	4582
De Kalb	Spring	Trebi	936	Wisconsin Barbless	5105			
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					2	Ward	6007
McLouth	do	Kansas Southeast strain	7070	Missouri Early Beardless	6051	4	Reno	6561
Columbus [1]	do	Reno	6561	Kansas Southeast strain	7070	2	Ward	6007
Thayer	do					3	Reno	6561
Wichita	Spring	Flynn	1311	Stavropol	5913			
Do	Fall					4	Kansas South-central strain	6376
Kingman	Spring	Stavropol	5913	Flynn	1311			
Do	Fall	Kansas South-central strain	6376	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

Michigan:								
East Lansing	Spring	Wisconsin Barbless	5105	Trebi	936	2	Nobarb	6335
Minnesota:								
St. Paul	do	do	5105	Minsturdi	1556	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 × 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
Stoneville	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 × 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 × 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 × Vaughn	7064
Albuquerque [1]	do	Flynn	1311	Atlas × Vaughn	7064	1	Velvon	6109
Capulin [1]	do	Odessa	182	Wisconsin Barbless	5105			
New York:								
Ithaca	do	Swiss Spring 87	7025	Alpha × 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 × 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.
United States—Continued.								
Oklahoma:								
Stillwater	Fall	Tenkow	646	Manchuria	245	2	Ward	6007
Do	Spring	Limerick	1302	Club Mariout	261			
Lawton [1]	Fall	Wisconsin Winter	519	Esaw	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	Okla. 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	Maretts 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

Texas:								
Denton	Fall	Wintex	6127	Bailey	5902	2	Tenkow	646
Greenville [1]	do	do	6127	Tennessee Winter	6125	1	do	646
Temple [1]	do	Composite Cross selection	6502	Texan	6499			
Iowa Park	do	Finley	5901	Tennessee Winter 61	3545	4	Wintex	6127
Chillicothe [1]	do	Texan	6499	Composite Cross selection	6500			
Bushland	Spring					3	Amarillo	7047
Do	Fall					3	Wintex	6127
Lubbock [1]	do	Wintex	6127	Composite Cross selection	Oreg. 54			
Do. [1]	Spring	Velvon	6109	North Platte 1	5266			
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 I–35–274	7039	Poland	6280	1	Smooth Awn 86	6268
Kearneysville	do	Scottish Pearl	277	Kentucky 2	6148	4	Poland	6280
Lakin [1]	do	Pidor	901	Scottish Pearl	277	2	West Virginia I–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.
Canada								
Alberta:								
Lacombe	Spring	Newal	6088	Sanalta	6087			
Lethbridge (irrigated)	do	Trebi	936	Newal	6088			
Lethbridge (dry land) [1]	do	do	936	do	6088	3	Plush	6093
Edmonton [1]	do	Plush	6093	Sanalta	6087			
Beaverlodge	do	do	6093	Byng	6089			
Fort Vermilion	do	Regal	5030	Olli	6251	4	Newal	6088
British Columbia: Agassiz [1]	do	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	5105			
New Brunswick: Fredericton	do	Byng	6089	Olli	6251			
Nova Scotia: Nappan	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 [1]	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 [1]	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			1941		
		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
United States		*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	
Belle Mina	do	2	1/60								2	1/60		2	1/60	
Crossville	do	2	1/60		2	1/60		2	1/60		2	1/60		2	1/60	
Marion Junction	do							2	1/60		2	1/60		2	1/60	
Arizona:																
Mesa	do	3	1/35		3	1/35		3	1/35		3	1/35		2	1/35	
Sacaton	do	1	1/33		2	1/75					3		171	3		285
Arkansas:																
Fayetteville	Spring				1	1/47		3	1/47		2	1/47		2	1/47	
Do	Fall	1	1/47		1	1/47		1	1/47		2	1/47		1	1/47	
Stuttgart	do													3		16
California: Davis	do	5	1/50		5	1/50		5	1/50		5	1/60		7		16
Colorado:																
Akron	Spring	4	1/45		4	1/45		4	1/45		4	1/45		4	1/45	
Fort Collins	do	10		16	10		16				7		16	7		16
Hesperus	do	10		16	10		16	10		16	10		16	10		16
Delaware:																
Milford	Fall	5		20	5		20	5		20	5		60	5		60
Newark	do	5		20	5		20	5		20	5		60	5		60
Georgia:																
Athens	do	4	1/60		4	1/60		4	1/60		4	1/60		4	1/60	
Experiment	do	6		66	6		66	6		66	6		66	10		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			1941		
		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
United States—Continued.		*Number*	*Acres*	*Square feet*	*Number*	*Acres*	*Square feet*	*Number*	*Acres*	*Square feet*	*Number*	*Acres*	*Square feet*	*Number*	*Acres*	*Square feet*
Idaho:																
Aberdeen	Spring	3	1/40		3	1/40		3	1/40		2	1/40		3	1/40	
Moscow	do	3		16	3		16	3		16	3		16	5		16
Sandpoint	do	2	1/40		2	1/40		2	1/40		2	1/40		2	1/40	
Illinois:																
Alhambra	do							2	1/10		6	1/35		6	1/35	
Do	Fall	5		16	5		16	5		16	5		16	2	1/40	
De Kalb	Spring	2	1/10		2	1/10		2	1/10		6	1/35		6	1/35	
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
Indiana:																
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	
Iowa:																
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
Kansas:																
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							3	1/83		3	1/83		3	1/83	
Wichita	Spring	4		[3]110	4		[3]110	6		[3]110	3		[3]110	3		[3]110
Do	Fall	3		[3]110	2		[3]110				1		[3]110	2		[3]110
Kingman	Spring	4		[3]110	4		[3]110	6		[3]110	2		[3]110	2		[3]110
Do	Fall	2		[3]110	2		[3]110	2		[3]110	1		[3]110	2		[3]110

Hutchinson	Spring							4		[3]110	2		[3]110	2		[3]110
Do	Fall										2		[3]110			
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		16
Field plots	do										4	1/52		4	1/52	
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	
			Field	Nursery		Field	Nursery		Field	Nursery		Field	Nursery		Field	Nursery
United States—Continued.		*Number*	*Acres*	*Square feet*	*Number*	*Acres*	*Square feet*	*Number*	*Acres*	*Square feet*	*Number*	*Acres*	*Square feet*	*Number*	*Acres*	*Square feet*
New Jersey:																
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				6		23	12		23	8		23
Do	Spring	7		23				7		23	7		23	8		23
Albuquerque	do				12		16	6	1/45		5	1/48		6	1/48	
Capulin	do	3	1/12		2	1/12		2	1/12					3	1/12	
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				
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	

Pennsylvania:																	
State College	Fall	5		16	5		16				4		16	5		16
Do	Spring	5		16				5		16	5		16	5		16
South Carolina: Clemson	Fall	11		20	11		20	10		20	10		20	10		20
South Dakota:																
Brookings	Spring	3	1/66		3	1/66		3	1/66		3	1/66		3	1/66	
Highmore	do				1	1/66		3	1/66		3	1/66		3	1/66	
Eureka	do							2	1/50		3	1/50		3	1/50	
Newell—																
Irrigated	do	3	1/50		3	1/50		3	1/50		3	1/50		3	1/50	
Dry-farmed	do													3	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		[4]100	4		[4]100	4		[4]100	4		[4]100	4		20
Greenville	do				4		[4]100	4		[4]100	4		[4]100	4		20
Temple	do				4		20	4		20	4		20	4		20
Lubbock	do				3		10	3		10	4		10	4		10
Do	Spring				3		10	4		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	1/50		1	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		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	5		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			1941		
		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
United States—Continued.		*Number*	*Acres*	*Square feet*	*Number*	*Acres*	*Square feet*	*Number*	*Acres*	*Square feet*	*Number*	*Acres*	*Square feet*	*Number*	*Acres*	*Square feet*
West Virginia—Continued.																
Marlinton	Fall				4		16	4		16						
Morgantown	do	4		16	4		16	4		16	5		16	4		16
Lewisburg	do													4		16
Wisconsin:																
Ashland	Spring	4	1/80		3	1/38		3	1/42		3	1/34		2	1/40	
Madison	do	4	1/80		4	1/80		4	1/60		4	1/60		4	1/60	
Marshfield	do	3	1/41		3	1/70		3	1/133		4	1/45		4	1/40	
Sturgeon Bay	do	3	1/57–1/68		4	1/112		3	1/32–1/40		4	1/44		4	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	
Canada																
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				4		16	4		16	4		16	4		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				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	6		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.
[3] 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	Kernel color	Rachilla hairs	Growth habit	Head density		
									Mm.		
Ace	1853		2	H	R	W	L	S	3.5	Selection from White Smyrna	30,48
Admire	6377		6	H	R	B	S	W	3.9	Local farmer's strain in Kansas	18
Afghan 1	4166		6	H	R	W	L	S	2.2	Introduced from Afghanistan	8
Afghanistan	4173		2	H	R	W	L	S	3.8	do	27
Alaska	534		6	H	R	W	S	W	3.3	Introduced from Alaska	18,34
Do	4106		6	H	R		S	W		do	3,18,26,34,36
Algerian	1179		6	H	R	B	S	S	3.7	Introduced form Algeria	33
Alpha	959		2	H	R	W	L	S	3.5	Champion of Vermont × Manchuria	10,13,15,21,23,28,48
Alpha × Goldfoil		N. Y. 504a7–5–2	2	H	S	W	L	S	3.6	Alpha × Goldfoil	23
Do		N. Y. 504a11–5–1	2	H	S	W	L	S	3.8	do	23
Do		N. Y. 504a11–5–2	2	H	S	W	L	S	3.7	do	23,48
Do		N. Y. 504a11–5–3	2	H	S	W	L	S	3.7	do	23
Do		N. Y. 504a11–5–4	2	H	S	W	L	S	3.8	do	23,28
Do		N. Y. 504a11–5–7	2	H	S	W	L	S	3.9	do	23
Do		N. Y. 504a11–5–11	2	H	S	W	L	S	3.8	do	23
Do		N. Y. 504a11–5–12	2	H	S	W	L	S	3.8	do	23
Do		N. Y. 504a11–20–18–1	2	H	S	W	L	S	3.7	do	23
Do		N. Y. 504a11–20–18–3	2	H	S	W	L	S	3.8	do	23
Do		N. Y. 504a12–15–3	2	H	S	W	L	S	3.9	do	23
Do		N. Y. 504ar12–19–18–5	2	H	S	W	L	S	3.7	do	23
Do		N. Y. 504ar23–9–8	2	H	S	W	SL	S	3.3	do	23
Do		N. Y. 504ar25–4–4	2	H	S	W	L	S	3.9	do	23
Do		N. Y. 504ar25–4–5	2	H	S	W	L	S	3.8	do	23
Do		N. Y. 504ar25–14–7	2	H	S	W	L	S	4.0	do	23
Do		N. Y. 504ar25–19–4	2	H	S	W	L	S	3.9	do	23
Do		N. Y. 504ar26–6–3	2	H	S	W	L	S	3.9	do	23
Do		N. Y. 504ar27–2–8	2	H	S	W	L	S	3.9	do	23
Do		N. Y. 504ar28–1–2	2	H	S	W	L	S	3.8	do	23

Alpha × Goldfoil		N. Y. 504ar28–17–1	2	H	S	W	LS	S	3.5	Alpha × Goldfoil	23
Do		N. Y. 504ar28–17–3	2	H	S	W	L	S	3.8	do	23
Amarillo	7047	Tex. S–31–68	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 × 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		Introduced from Argentine	7,48
Arivat	6573	Moscow 19	6	H	SS	W	L	S	3.4	Atlas × Vaughn	2,5,8,26,27,32,48
Atlas	4118		6	H	R	B	S	S	3.3	Selection from Coast	4,8,19,20,22,26,27,30,32,33,35,38,48
Atlas × Vaughn	6970	Moscow 1	6	H	S	WB	S	S	3.4	Atlas × Vaughn	5,20,32
Do	7064	Moscow 6	6	H	S	W	S	S	3.5	do	2,22,48
Do	6971	Moscow 8	6	H	SS	B	L	S	3.4	do	32
Do	6972	Moscow 11	6	H	S	WB	L	S	3.4	do	32
Do		Moscow 12	6	H	S	B	L	S	3.5	do	8
Do	6973	Moscow 13	6	H	S	WB	LS	S	3.0	do	5,19,32,48
Do		Moscow 14	6	H	S	B	LS	S	3.3	do	8
Do		Moscow 15	6	H	S	W	LS	S	3.2	do	8
Do		Moscow 16	6	H	S	B	L	S	3.5	do	8
Do		Moscow 17	6	H	S	B	L	S	3.5	do	8
Do		Moscow 18	6	H	S	W	LS	S	3.0	do	8
Do		Moscow 21	6	H	RS	B	SL	S	3.7	do	8
Do		Moscow 22	6	H	S	WB	SL	S	3.2	do	8,12
Do		Moscow 23	6	H	S	WB	L	S	3.4	do	8
Do		Moscow 24	6	H	R	BW	LS	S	3.5	do	8
Do		Moscow 25	6	H	S	WB	SL	S	3.4	do	8
Do		Moscow 26	6	H	S	W	S	S	3.3	do	8
Do		Moscow 27	6	H	S	W	S	S	3.7	do	8
Do		Moscow 28	6	H	S	WB	SL	S	3.5	do	8
Do	6974	Moscow 29	6	H	S	BW	LS	S	3.6	do	8,32
Do	6975	Moscow 31	6	H	S	W	SL	S	3.8	do	8,32
Do		Moscow 34	6	H	S	BW	L	S	3.8	do	8
Do		Moscow 35	6	H	S	W	L	S	3.3	do	8,48
Do		Moscow 36	6	H	S	BW	LS	S	3.3	do	8
Do		Moscow 37	6	H	S	B	L	S	3.1	do	8
Do		Moscow 38	6	H	S	BW	SL	S	3.4	do	8,48
Do	6977	Moscow 39	6	H	R	WB	LS	S	3.7	do	8,32
Do		Moscow 41	6	H	R	B	L	S	3.6	do	8
Do		Moscow 42	6	H	R	BW	LS	S	3.4	do	8
Do	6978	Moscow 43	6	H	R	W	L	S	3.7	do	8,32
Do	6979	Moscow 44	6	H	R	W	LS	S	3.3	do	32
Do		Moscow 45	6	H	R	WB	LS	S	3.3	do	8
Do		Moscow 46	6	H	R	BW	L	S	3.0	do	8
Do		Moscow 47	6	H	R	B	S	S	3.6	do	8
Do		Moscow 48	6	H	S	W	LS	S	3.6	do	8
Do		Moscow 49	6	H	R	B	SL	S	3.2	do	8
Awnless	5631		6	H	A	B	L	S	2.2	Introduced from Russia	27
Do	5922		6	H	A	B	L	S	2.2	Selection from Nakano Wase	7
Bailey	5902	Tex. 23241	6	H	R	B	S	SW	3.8	Selection from farmer's field in Texas	32,48
Bearded selection		N. C. I–70	6	H	R	W		SW		Selection from Tennessee Beardless 6	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.

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	Lemma appendage	Kernel color	Rachilla hairs	Growth habit	Head density		
									Mm.		
Beecher	6566	Moscow 9	6	H	SS	W	L	S	3.5	Atlas × 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, 35, 38, 48
Belford	7060	Wash. 3399	6	H	H	B	S	S	3.9	Beldi Giant × 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		D	H	R	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) × 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 × Manchuria [6]	21
Borun	5249		6	H	R	B	L	S	3.6	Introduced from Chosen	34
Brown Winter			6	H	R	B	LS	W		Oklahoma Agricultural Experiment Station	26
Brugh 23	6491		6	H	H	B	S	W	3.6	Selection from farmer's field in Virginia	34
Brugh 76	6477		6	H	H	W	S	W	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 × Com. Six-Rowed 4307 M. C.) × 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	3.5	Introduced from Egypt	2, 4, 26, 35, 48
Calotte	1102		2	H	R	W	S	S	3.6	Introduced from Russia	26
(Canadian Thorpe × Coast) × (Black Six-Row × Coast).	6985	F. C. 1140	6	H	R	B	S	S	3.5	(Canadian Thorpe × Coast) × (Black Six-Row × 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	W		Introduced from Russia	18
Clemson Awnless	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

Coast [1]		Tex. III-37-13	6	H	R	B	S	S	3.6	Texas Technological College	32
Do	690		6	H	R	B	S	S	3.7	Introduced from North Africa	5,19,20,32,38
Do	4633		6	H	R	B	S	S	3.7	Uncertain, probably Coast selection	4,32,48
Coast 23	2791		6	H	R	B	S	S	3.7	Selection from California Feed	5
Coast × Lion	6368	F. C. 1109	6	H	S	B	S	S	3.5	Coast × Lion	5
Do		F. C. 1119	6	H	S	W		S		do	5
Do		F. C. 1123	6	H		W		S		do	5
Do	6002	S. Dak. 1343	6	H	S	B	S	S	4.1	do	30
Colby 28445 × Flynn	6983	36 Hays 2034	6	H	S	B	L	S	3.4	Colby 28445 × Flynn	32
Colsess	2792		6	H	H	B	S	S	3.4	Coast × Success	5,8,20,22,25,32
Colsess × Trebi	6986	F. C. 1139	6	H	R	B	S	S	3.5	Colsess × Trebi	5
Comfort	4578		6	H	S	BW	L	S	4.0	Smooth Awn × Luth	20,21,26,28,30,32,38
Common Six-Row	4625		6	H	R	B	S	S	3.4	Arizona Agricultural Experiment Station	2,48
Do	4640		6	H	R	B	S	S	3.5	Nebraska Agricultural Experiment Station	20
Compana	5438		2	H	SS	W	L	S	3.7	Selection from Composite Cross, C. I. 4116	19,26,30,32,38,48
Composite Cross [2]	4116									Parents used: Trebi, Coast, Manchuria, Smooth 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, Sandrel, 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, Esaw, 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	3.5	Selection from Composite Cross, C. I. 4116	8
Do	5289		6	H	R	W	S	S	3.7	do	33
Do	5297		6	H	S	W	L	S	4.2	do	19
Do	5302		6	H	R	B	S	S	3.7	do	8,48
Do	5323		6	H	R	B	S	S	3.8	do	8
Do	5329		6	H	R	W	S	S		do	32
Do	5365		6	H	R	W	S	S	3.7	do	8
Do	5407		2	H	R	B	L	S	3.8	do	19
Do	5414		2	H	R	W	L	S	4.0	do	5,19
Do	5429		2	H	R	W	L	S	3.2	do	19
Do	5431		2	H	R	W	L	S	3.5	do	19
Do	5436		2	H	SS	W	L	S	4.0	do	19
Do	5449		6	H	H	B	S	S	3.5	do	27
Do	6351	Tex. 1-31-79	6	H	R	W	L	W	2.8	Selection from Composite Cross, C. I. 5530	32
Do	6500	Tex. 1-33-179	6	H	S	W	L	S	3.8	do	26,32,48
Do	6501	Tex. 1-33-249	6	H	R	B	S	S	4.0	do	32
Do	6502	Tex. 1-32-103	6	H	R	B	S	S	3.3	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.	Description							Origin or source	Index to tables in which variety appears
			Rows	Kernel cover	Lemma appendage	Kernel color	Rachilla hairs	Growth habit	Head density		
									Mm.		
Composite Cross selection	6564	N. C. II–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	R	W	S	S	3.2	do	32
Do	7007	36Ab. 1794	6	H	R	B	S	S	3.8	do	8
Do	7008	36Ab. 6127	6	H	R	W	S	S	3.2	do	8
Do	7027	N. C. II–3	6	H	R	W	S	SW	4.9	do	24,48
Do	7036	Oreg. 32,855	6	H	R	W	S	S	4.0	Selection from Composite Cross, C. I. 5530	27,48
Do	7046	Tex. 1–35–416	6	H	S	B	L	S	3.8	do	32
Do	7048	Tex. 1–31–45	6	H	S	W	L	S	3.4	do	32
Do	7049	Tex. 1–31–83	6	H	R	W	S	S	3.4	do	32
Do	7050	Tex. 1–33–332	6	H	R	W	S	S	3.9	do	32
Do	7051	Tex. 1–33–71	6	H	S	W	S	S	3.8	do	32
Do	7052	Tex. 1–33–326	6	H	R	W	S	S	3.7	do	32
Do	7053	Tex. 1–33–413	6	H	R	W	S	S	3.6	do	32
Do	7058	Wash. 3400	6	H	RS	B	S	S	3.9	Selection from Composite Cross, C. I. 5461	35
Do	7059	Wash. 3401	6	H	RS	B	SL	S	4.3	do	35
Do		36Ab. 3452	6	H	R	W	S	S	4.3	do	8
Do		N. C. II–8	6	H	R	W		SW		do	24
Do		N. C. II–24	6	H	R	W		SW		do	24
Do		N. C. II–30	6	H	R	W		SW		do	24
Do		N. C. II–52–1	6	H	S	Bk	L	S	3.9	do	24
Do		N. C. II–52–3	6	H	S	W		S		do	24
Do		N. C. II–52–4	6	H	S	W		S		do	24
Do		N. C. II–53–4	6	H	S	W		S		do	24
Do		N. C. II–53–7	6	H	S	W		S		do	24
Do		N. C. II–53–12	6	H	S	Bk		S		do	24
Do		N. C. II–120	6	H	R	W		W		do	24
Do		N. C. II–127	6	H	R	W		W		do	24
Do		Okla. 35h9–5	6	H	R	B	S	S	3.7	do	26,48
Do		Okla. 35h9–9	6	H	R	B	S	S	3.8	do	26
Do		Okla. 35h9–23	6	H	R	W	S	W		do	26
Do		Okla. 35h10–3	6	H	R	B	S	W		do	26,48
Do		Okla. 35h10–12	6	H	R	BW	S	SW	3.8	do	26
Do		Okla. 35h10–17	6	H	R	B	S	S	3.9	do	26
Do		Okla. 35h10–23	6	H	R	B	S	W		do	26
Do		Okla. 35h10–30	6	H	R	B	S	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								do	27
Do		Oreg. 45	6	H	R	W	S	S	3.8	do	27,48
Do		Oreg. 47	6	H	R	W	S	S	3.7	do	27,48

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	27,32,48
Do		Oreg. 55	6	H	R	W	S	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	W	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	27,48
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. 1		Oreg. 32,539								do	32
Do. 1		Oreg. 32,549								do	32
Conway	6095		6	H	S	W	L	S	3.3	Selection from Club Mariout	22,48
Cusado	895		6	H	R	W	S	W	3.4	Tennessee Winter × 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		D	H	SS	Bk	L	S	4.1	Selection from farmer's field in Oklahoma	26
Davidson	6373	N. C. II–15	6	H	R	B	S	W	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 × Club Mariout) × (Lion × Manchuria).	30
Esaw	4690		6	H	R	W	S	W	2.2	Selection from Nakano Wase	3,7,9,26,34,36,48
Ezond	5064		6	H	S	B	LS	S	4.0	(Bay Brewing × Lion) × Trebi	5,8,19,20,26,27,32,48
Do	6265		6	H	S	B	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	S	S	3.6	Selection from farmer's field in Minnesota	25
Finley	5901		6	H	R	B	S	SW	3.6	Selection from farmer's field in Texas	17,22,26,32,48
Flynn	1311		6	H	S	W	L	S	3.9	Club Mariout × Lion	3,5,8,12,19,22,26,27,48
Do	7009	Kans. H. C. 388	6	H	S	W	S	S	3.0	Selection from Flynn, C. I. 1311	12
Flynn 1	5911		6	H	S	W	L	S	4.0	do	3,12,20,21,26,27,32,48
Flynn 37	5918		6	H	S	W	L	S	3.7	do	27,35,48
Flynn 134	6987		6	H	S	B	L	S	3.1	do	5
Folk	7062	W. Va. 32	6	H	R	W	S	W		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		Selection from Arlington Awnless	34
Gartons	7016	Minn. 588, C. A. 1134	6	H	R	WB	SL	S	3.5	Introduced from England	16,41,47
Glabron	4577	Minn. 445	6	H	S	WB	L	S	4.3	Lion × 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 × Vaughn	8,12,19,32,48
Goldfoil	928		2	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		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	Lemma appendage	Kernel color	Rachilla hairs	Growth habit	Head density		
									Mm.		
Greece × Tenn. Beardless 5	6996	Ga. H398-1-2-2-5	6	H	H	W	S	W	----	Greece × 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
Do	4841	Sask. 229	2	H	R	W	L	S	3.1	Selection from Hannchen	8, 35, 46
Hannchen 1	5462	----	2	H	R	W	L	S	3.3	do	19
Hannchen × Minia	7005	36Ab. 5117	6	H	R	W	S	S	2.7	Hannchen × Minia	8, 48
Han River	206	----	6	H	R	B	S	W	3.2	Introduced from China	26
Do	----	S. Dak. 1348	6	H	R	B	S	S	3.8	Not typical for Han River, similar to Trebi	30, 48
Do	2163	----	6	H	R	B	S	W	----	Selection from Han River, C. I. 206	18, 34, 36
Hansee Hull-less	703	----	6	N	R	W	L	S	3.9	Unnamed Hooded × Hankow	18
Hartungs	7023	----	----	----	----	----	----	W	----	New Jersey Agricultural Experiment Station	21
Hastings Bearded	----	----	6	H	R	B	----	W	----	Hastings Seed Co., Atlanta, Ga	29
Hero	1286	----	6	H	S	W	L	S	2.9	Lion × Club Mariout	26
Do	4602	----	6	H	S	W	L	S	2.9	Selection from Hero, C. I. 1286	4, 32
Heron	1299	----	6	H	S	W	L	S	4.0	Lion × Manchuria	26
High Altitude Composite Cross. [2]	6006	----	----	----	----	----	----	----	----	Parents used: Mongolia, Pannier, Nepal, C. I. 3963-1, C. I. 3963-2, C. I. 3963-3, Everest, Horn, White Smyrna, Glabron, Wisconsin Winter, Hannchen, Arequipa, Lion, Flynn, Oderbrucker, Golden Pheasant, Club Mariout, Trebi, California Mariout, Orel, Alpha, Lyallpur, Atlas, Multan, Han River, Good Delta, Algerian, Winter Club.	8
Himalaya	620	----	6	N	R	B	L	S	3.9	Introduced from Asia	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	----	----	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	----	W	----	Selection from Tennessee Beardless 5	24, 34
Hooded 32	----	----	6	H	H	----	----	SW	----	do	34
Hooded selection	7026	N. C. I-26	6	H	H	WB	S	SW	4.3	Selection from farmer's field of Tennessee Beardless 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 × Unknown	35

Ioglos	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. I–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 × 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		Local farmer's strain in Kansas	12,26,32,48
Kansas Southeast strain	7070	Kans. 7176	6	H	R	BW	SL	W	3.8	do	12,48
Kentucky Winter	4641		6	H	R	W		SW		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		do	6
Kentucky 4	7017		6	H	R	B	SL	W		do	18
Kentucky 5	7018		6	H	R	B	S	W		do	18,48
Kentucky 6	4678		6	H	R	B	SL	W	3.8	do	3,32
Kentucky 11	6021		6	H	S	B	L	SW	3.9	Smooth-awned Spring × Local Winter	3,12,32,34,36
Kentucky 20	6994		6	H	S	W		W		Kentucky Agricultural Experiment Station	6,48
Kentucky 36	4677		6	H	R	B	S	W	3.9	Selection from a local barley in Kentucky	3
Lico	6279	F. C. 1110	6	H	S	W	S	S	3.9	Coast × Lion	5, 8, 12, 20, 22, 25, 26, 32, 38,48
Lico 351	6989		6	H	S	W	S	S	3.9	Selection from Lico, C. I. 6279	5
Lico 393	6988		6	H	S	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 × Lion	26,48
Lion	923		6	H	S	Bk	L	S	4.0	Introduced from Russia	25,32
(Lion × Coast) × Trebi [1]		Utah B2–5–2								(Lion × Coast) × Trebi	32
Lion × Manchuria	6001	S. Dak. 1340	6	H	S	B	L	S	4.5	Lion × Manchuria	16,30
Lion × Minia	6980	36Ab. 5269	6	H	S	B	L	S	4.1	Lion × Minia	32
Lion × Oderbrucker [2]		Wis. X120–5–26–12–1–1.	6	H	S	W	S	S	4.5	Lion × Oderbrucker [2]	37
Do		Wis. X128–5–5–3	6	H	S	W	L	S	4.6	do	37
Lion × Oderbrucker [3]		Wis. X163–1–8	6	H	S	W	L	S	4.7	Lion × Oderbrucker [3]	37
(Lion × Oderbrucker [2]) × July		Wis. X156–8–4–4–1	6	H	S	W	L	S	4.3	(Lion × Oderbrucker [2]) × July	37
Malt		Kans. 7183	6	H	R	W	S	S		Local farmer's strain in Kansas	12
Mammoth	4683		6	H	R	B	S	W		Selection from Mammoth, C. I. 220	7
Manchuria	244	Minn. 105	6	H	R	BW	LS	S	3.8	Introduced from Russia	25
Do	245		6	H	R	W	S	SW	4.0	Oklahoma Agricultural Experiment Station	12,18,26,48
Do	1275	Wis. Ped. 9	6	H	R	W	S	S	3.7	Selection from Manchuria	15
Do	2330	Minn. 184	6	H	R	BW	S	S	3.6	do	10,16,20,32
Do	2947	N. Dak. 2121	6	H	R	B	S	S	3.6	do	6, 9, 11, 13, 19, 20, 25, 30, 37,48
(Manchuria × Leiorrhynchum) × Alpha.		N. Y. 204A1–27–243	2	H	S	W	L	S	4.0	(Manchuria × Leiorrhynchum) × Alpha	23
Do		N. Y. 220A1–29–50	6	H	S	W	L	S	4.3	do	23,28
Do		N. Y. 220A1–29–176	2	H	S	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	L	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	Lemma appendage	Kernel color	Rachilla hairs	Growth habit	Head density		
									Mm.		
(Manchuria × Leiorrhynchum) × (Arlington Awnless × Wild).	------	N. Y. 221A1–31–837	2	H	S	W	L	S	3.9	(Manchuria × Leiorrhynchum) × (Arlington Awnless × Wild).	23
(Manchuria × Leiorrhynchum) × Russian 02.	------	N. Y. 222A1–29–302	6	H	S	W	S	S	4.1	(Manchuria × Leiorrhynchum) × 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
Maretts Awnless	7043	------	6	H	A	B	L	SW	3.2	From Marett Farm & Seed Co	29
Maretts Beardless	7041	------	6	H	H	W	S	SW	4.0	do	29,48
Maretts Pedigree Awnless 58	7044	------	6	H	A	W	L	W	----	do	29
Marnobarb	6120	------	6	H	S	W	SL	SW	3.4	Velvet × Tennessee Winter	1, 3, 6, 7, 9, 10, 14, 21, 28, 29, 31, 34, 36, 48
Mars	7015	Minn. II–31–45	6	H	S	W	L	S	3.8	(Lion × Manchuria[2]) × 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, Hannchen, Trebi, Svanhals, Deficiens, Smooth Awn, Gatami, Lion, White Smyrna, Coast, Meloy.	8,19,34,35
Meloy	1176	------	6	H	H	B	S	S	3.5	Nepal × Unknown	8,19,35,38,48
Meloy 3	4656	------	6	H	H	B	S	S	4.2	Selection from Meloy, C. I. 1176	27
Mensury	4696	Ott. 60, C. A. 730	6	H	R	B	S	S	3.8	Selection from barley of Manchuria type in Canada.	25,32,46
Michigan	7032	------	6	H	R	B	S	W	----	Oklahoma Agricultural Experiment Station	26
Michigan Winter	2036	------	6	H	R	B	SL	W	3.9	Indiana Agricultural Experiment Station	6,18,21,26,32,48
Do	------	------	6	H	R	B	S	W	----	Oklahoma Agricultural Experiment Station	26
Michigan Two-Rowed	2782	------	2	H	R	W	L	S	4.0	Introduced from Germany	15
Minia	3556	------	6	H	R	W	S	S	3.2	Introduced from Egypt	8
Minia × Horn	7006	36Ab. 4631	6	H	R	W	S	S	3.0	Minia × Horn	8
Minnesota 450	4646	------	6	H	S	----	----	S	----	(Lion × Manchuria) × Sandrel	15
Minnesota 462 × Peatland	7010	Minn. II–31–15	6	H	S	W	L	S	3.7	(Lion × Manchuria[2]) × Peatland	16
Do	7011	Minn. II–31–19	6	H	S	W	L	S	3.9	do	16,48
Do	7012	Minn. II–31–25	6	H	S	W	L	S	3.9	do	16
Do	7013	Minn. II–31–37	6	H	S	W	L	S	3.9	do	16
Do	7014	Minn. II–31–39	6	H	S	W	L	S	3.8	do	16
Minsturdi	1556	Minn. 439	6	H	R	W	S	S	2.9	South African × Manchuria	11,16,30,32,48
Missouri Early Beardless	6051	------	6	H	H	WB	S	SW	3.7	Mass selection from a farmer's field in Missouri	3, 9, 10, 12, 14, 17, 18, 21, 22, 26, 29, 31, 32, 34, 36, 48

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	L	W	2.6	Selection from Nakano Wase, C. I. 754	34
Do	2164		6	H	A	W	S	W		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		W		do	24,34,48
Nakano Wase 51	7057		6	H	A	W	L	W		do	24,34
Nakano Wase 58	7056		6	H	A	W	S	W		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		W		do	34
Nanking 150 × Comfort		N. Y. 505A1–15–4	6	H	S	W	L	S	3.7	Nanking 150 × Comfort	23
Do		N. Y. 505A1–17–6	6	H	S	W	L	S	4.0	do	23
Do		N. Y. 505A1–51–1	6	H	S	W	L	S	4.0	do	23
Do		N. Y. 505A1–51–3	6	H	S	W	L	S	4.3	do	23
Do		N. Y. 505A1–58–2	6	H	S	W	L	S	3.8	do	23
Do		N. Y. 505A1–58–6	6	H	S	W	L	S	3.8	do	23
Nassau	7022	N. J. WB6–68	6	H	S	BW	S	W	3.6	Selection from Composite Cross, C. I. 5530	21,48
Nepal	595		6	N	H	W	L	S	3.5	Introduced from North India	5,19,38
Newal	6088	C. A. 1089	6	H	S	W	L	S	4.1	(Manchuria × Lion) × O. A. C. 21	15,19,37,39,41,46,47,48
New Era	5108		6	N	R	W	L	S	3.9	Nepal × Manchuria	9
New Era × Odessa		Tex. C–1	6	H	R	W	S	S	3.8	New Era × Odessa	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		Selection from California Feed	22,48
Nobarb	6335	C. A. 1022	6	H	S	W	S	S	3.9	O. A. C. 21 × 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 Platte 1	5266		6	H	R	B	S	S	3.9	Selection from McClymont	5,20,32,48
North Platte 4	5488		6	H	R	B		S		Selection from Coast, C. I. 690	20
O. A. C. 1	5953		6	H	R	W	S	SW		Selection from Tennessee Winter	27,32
O. A. C. 6	5954		6	H	R	W	S	SW		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	6	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	6	H	R	W	S	S	4.0	Selection from the original Oderbrucker introduced from Germany.	25
Do	1272	Wis. Ped. 5	6	H	R	W	S	S	3.9	do	19,28
Do	1529		6	H	R	W	S	S	3.9	do	30
Do	4666	Wis. Ped. 5–1	6	H	R	W	S	S	3.9	Selection from Oderbrucker, Wisconsin Pedigree 5	9, 11, 13, 16, 19, 20, 22, 32, 37,48
Oderbrucker × Lion	5028	Wis. Ped. 37	6	H	S	W	L	S	3.9	Oderbrucker × Lion	10,20,32
Odessa	182		6	H	R	WB	S	S	3.7	Introduced from South Russia	16, 20, 22, 25, 27, 30, 32, 38,48
Odessa × Dryland	6982	S. Dak. 21	6	H	S	B	L	S	3.9	Odessa × Dryland	32
Ohio	5910	Ohio 3148	6	H	S	W	L	S	4.4	Selection from Minnesota II–20–10	23
Old Maryland	7037		6	H	R	B	SL	W		Local variety in Pennsylvania	28
Olli	6251	C. A. 739	6	H	R	B	S	S	3.2	Introduced from Finland	25, 35, 39, 40, 42, 43, 44, 45,46,47,48
Olympia	6107		6	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	Lemma appendage	Kernel color	Rachilla hairs	Growth habit	Head density		
									Mm.		
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	4.1	Selection from Peruvian, C. I. 935	27, 48
Phoebe	1305	Minn. 493	6	H	S	W	L	S	3.9	Bay Brewing × Lion	26
Pidor	901		6	H	R	B	L	W	3.0	Tennessee Winter × Hankow	18, 36, 48
Plush	6093	C. A. 1106	6	H	S	W	L	S	4.0	Lion × 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 × 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 28156A3-2-2-2	6562		6	H	S	B	L	W	3.7	Comfort × Purdue 21	3, 9, 10, 28, 48
Purdue 28154A3-1-1-6	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. I–68	6	H	R	W	S	SW	4.0	Slection 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 × Manchuria	5, 9, 19, 32, 37, 39, 40, 46, 47, 48
Regal × Trebi	6358	N. Dak. 30035	6	H	S	W	S	S	4.0	Regal × Trebi	25, 48
Do	7031	N. Dak. 30042	6	H	S	W	S	S	4.2	Selection from Regal × 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	L	S	3.7	Velvet × Hannchen	25, 27, 39, 47, 48
Rhodesia	3339		6	H	R	W	S	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	H	W	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 × Coast	2
Sanalta	6087	C. A. 1088	2	H	S	W	L	S	2.7	Smooth Awn × Duckbill	39, 48
Sandrel	937		6	H	R	W	S	S	3.6	Selection from a barley introduced from Moravia	20, 26, 48

Sandrel × Trebi		36Ab. 4331	6	H	R	W	S	S	3.4	Sandrel × Trebi	8
Santiam	6367		6	H	R	W	SL	W	3.9	Selection from Composite Cross, C. I. 5530	9,27,28,32,48
Scarab	995		6	H	R	W	L	S	2.0	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 × Lion) × Luth	20
Slightly Awned [1]										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 [1]										Washington County Station, Virginia	34
Smooth Awned			6	H	S	W				do	34
Smooth Awn 85			6	H	S	W		SW		(Tennessee Winter × Smooth Awn) × 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 segregates from several crosses made at Arlington Farm	6
Smooth Awn 203	6267		6	H	S	W	LS	W	3.9	(Tennessee Winter × Smooth Awn) × Esaw [2]	7,9,14,24,32,34
Smooth Awn 205	7004		6	H	S					(Tennessee Winter × Smooth Awn) × Esaw	7
Smooth Awn selection	6494	Md. 19–8	6	H	S	W	SL	SW	4.0	Velvet × Tennessee Winter	14
Do	6495	Md. 15–8	6	H	S	B	SL	W		do	14,24,34
Smooth Awn × Manchuria	5998		6	H	S	W	L	S	4.1	Lion × Manchuria [2]	19,20,48
Spartan	5027		2	H	S	W	L	S	3.7	Michigan Two-Rowed × Black Barbless	5, 8, 9, 10, 11, 12, 13, 15, 16, 19, 20, 21, 25, 26, 30, 32,38,48
Stavropol	2103		6	H	R	B	S	S	3.5	Introduced from Russia	26,32
Do	5913	H. C. 249	6	H	R	B	S	S	3.9	Selection from Ellis, C. I. 2107	3,12,22,26,32,48
Steigum	907		2	H	R	W	L	S	3.7	Selection from Steigum, C. I. 47	25
Stewart	6112		6	H	R	B	S	S	3.5	Selection from a farmer's field in California	4
Sunrise	6272		6	H	A	W	L	W	2.2	Selection from Nakano Wase, C. I. 754	6, 7, 14, 24, 28, 32, 34, 36, 48
Svansota	1907		2	H	R	W	L	S	2.9	Svanhals × Minnesota Centgener 456	25
Swiss Spring 87	7025		6	H	R	W	S	S	4.2	Selection from Swiss Spring	23,48
Tall Comfort	5903		6	H	S	BW	L	S	4.0	(Manchuria × Lion) × Luth	21
Tenkow	646		6	H	R	B	S	SW	3.7	Tennessee Winter × Hankow	3,12,18,22,26,32,48
Tennessee Beardless 5	3384		6	H	H	W	S	SW	3.7	Tennessee Winter × Hooded Spring type	1, 3, 7, 18, 21, 29, 31, 32, 36,48
Tennessee Beardless 5 selection	7001	Ga. P900	6	H	H	W	S	W		Selection from Tennessee Beardless, Ga. 184	7
Do	7002	Ga. P901	6	H	H	W	S	SW	3.7	do	7
Do	7003	Ga. P906	6	H	H	W	S	SW	3.8	do	7
Tennessee Beardless 6	2746		6	H	H	W	S	SW	4.0	Tennessee Winter × Hooded Spring type	3,18,24,26,34,36
Tennessee Smooth Awn	6570	Tenn. B5–14	6	H	S	W	S	W		Tennessee Winter 52 × Lion	3,9,31
Do		Tenn. B3–56	6	H	S	W	S	W		do	9,29,31
Do		Tenn. B5–33	6	H	S			W		do	31
Tennessee Winter			6	H	R	W	S	S	3.9	Oklahoma Agricultural Experiment Station	26,28,34,48
Do	257		6	H	R	BW	S	W	3.6	Introduced from Europe	6, 7, 14, 21, 22, 24, 32, 34, 36,48
Do	6034		6	H	R	B	S	SW	3.9	Virginia Seed Service	3,9,14,24,26,32,34,48
Do	6125	Tex. 15825	6	H	R	W	S	W	3.4	Texas Agricultural Experiment Station	32,48
Do	6126	Tex. 18561	6	H	R	B	L	W	3.0	Local farmer's strain in Texas	32
Do	6128	Tex. 23259	6	H	R	B	S	SW	3.7	do	32
Do	6142	Tex. 23255	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	Lemma appendage	Kernel color	Rachilla hairs	Growth habit	Head density		
									Mm.		
Tennessee Winter 2 [1]										Virginia Agricultural Experiment Station	34
Tennessee Winter 9 [1]										do	34
Tennessee Winter 11 [1]										do	34
Tennessee Winter 12	3534		6	H	R	W		W		Selection from Tennessee Winter	34
Tennessee Winter 17 [1]										Virginia Agricultural Experiment Station	34
Tennessee Winter 18 [1]										do	34
Tennessee Winter 19 [1]										do	34
Tennessee Winter 20 [1]										do	34
Tennessee Winter 52	3543		6	H	R	B	S	W	3.7	Selection from Tennessee Winter	3,6,9,17,21,31,32,36,48
Tennessee Winter 57	3544		6	H	R	WB	SL	W		do	3,32
Tennessee Winter 61	3545		6	H	R	W		W		do	3,17,32,48
Tennessee Winter 66	3546		6	H	R		S	W		do	3,7,26,34,48
Tennessee Winter 76	6992		6	H	R	B	S	W		T. W. Wood & Sons, Richmond, Va	6
Tennessee Winter × Abyssinian 37.	6236		6	H	S	B	L	SW	3.9	Tennessee Winter × Abyssinian 37	34
Tennessee Winter × Smooth Awn.	6565		6	H	S	B	L	SW	3.9	Tennessee Winter × 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	S	SW	3.8	Ferguson Seed Farms, Howe, Texas	17,22,32,48
Titan	7055	C. A. 1118	6	H	S	B	LS	S	3.7	Trebi × Glabron	33,39,40,47,48
Trebi	936		6	H	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 × Colsess	6369	F. C. 1124	6	H	R	B	S	S	3.6	Trebi × Colsess	5,48
Do	6370	F. C. 1125	6	H	R	B	S	S	3.4	do	5
Trebi × Dryland	6981	S. Dak. 69	6	H	S	W	SL	S	4.2	Trebi × Dryland	32
Trebi × Velvet 4	6353		6	H	S	W	L	S	3.9	Trebi × Velvet 4	19,20
Tregal	6359	N. Dak. 30036	6	H	S	W	SL	S	3.7	Regal × 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	S	S	3.5	A blue awned × a white hooded variety	2,5,8,22,27,33,48
Union Beardless 6	7035		6	H	H	B	S	S	3.8	Selection from Union Beardless, C. I. 5976	27
Union Winter	583		6	H	R	W		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	S	SW	3.6	Introduced from Transcaucasia	24
Vance	4585		2	H	SS	W	L	S	4.0	Selection from Smyrna, C. I. 2642	5,26,48

Vaughn	1367		6	H	SS	W	L	S	3.7	Club Mariout × 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 × Lion) × 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 × Coast) × 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 × Hannchen	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	B	S	W	3.9	Local farmer's strain in Oklahoma	12, 18, 26, 32, 48
Ward selection	7034	Okla. 35h11–3	6	H	R	B	S	W	----	Selection from Ward, C. I. 6007	26
Warrior	6991	Sask. 1955	6	H	H	B	S	S	3.3	Trebi × Colsess	5
West Virginia I–35–153	7063		6	H	H	W	S	W	----	Selection from farmer's field in West Virginia	34
West Virginia I–35–274	7039	W. Va. 43	6	H	H	W	S	W	3.5	do	28, 36, 48
White Smyrna	195		2	H	R	W	L	S	3.9	Introduced from Asia Minor	12, 19, 22, 30, 48
Do	658		2	H	R	W	L	S	3.8	do	38
Do	910		2	H	SS	W	L	S	3.9	do	8, 26
White Smyrna × Svanhals	6371	S. Dak. 1344	2	H	R	B	L	S	2.7	White Smyrna × 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	B	S	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 × 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	Pa. 104A–35	6	H	S	W	L	S	4.9	Selection from Wisconsin Barbless, C. I. 5105	28, 48
Wisconsin Barbless × Newal	7069	Wis. X191–2–1–2	6	H	S	W	L	S	4.4	Wisconsin Barbless × 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	S	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	Okla. 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.

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