Distribution of the Varieties and Classes of Wheat in the United States in 1949

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Bureau of Plant Industry, Soils, and Agricultural Engineering
Agricultural Research Administration

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HISTORY OF VARIETAL DISTRIBUTION

Wheat varieties grown in the United States are continually changing because of the development and distribution of improved strains by State and Federal agricultural experiment stations and by private breeders. Varietal surveys furnish an historical record of this shifting of varieties, and, in addition, they form a basis for further wheat improvement. It is principally for these reasons that a wheat varietal survey has been

1 The writers wish to express their appreciation to the agricultural statisticians of the field offices of the Division of Agricultural Statistics, of the Bureau of Agricultural Economics, who participated in collecting the basic information for this report; to C. E. Burkhead, head, Field Crop Statistics, Bureau of Agricultural Economics, for cooperation in preparing and compiling the questionnaires; and to Ruth Ross and Mary Geis, Division of Cereal Crops and Diseases, for assistance in making the calculations and assembling the data.
made by the United States Department of Agriculture at 5-year intervals since 1919. 2

This circular presents the estimated acreages as determined from the seventh survey, that for the crop year 1949. The estimated acreages by varieties and classes were computed from the seeded acreages of wheat, by crop-reporting districts, as estimated by the Bureau of Agricultural Economics. This is the third time that seeded acreages have been available; they were used entirely for the 1939, 1944, and 1949 surveys. The earlier reports were based upon harvested acreages as reported by the regular and special agricultural census, except in 1934, when seeded wheat acreages, as estimated by the Bureau of Agricultural Economics, were used for some of the important wheat-producing States where abandonment was heavy because of drought.

The 1944 wheat acreages used in this circular are the preliminary estimates of the Crop Reporting Board, as prepared in December 1944 for States and in 1945 for counties. They differ somewhat from the Crop Reporting Board’s revised State and county estimates that were prepared after the 1945 Federal Census enumeration of 1944 acreage became available. The 1949 acreages here used likewise are the preliminary estimates prepared in December 1949 and will eventually be superseded by the Board’s later revisions.

**Varietal-Survey Methods**

The survey methods were similar to those reported for 1944. Questionnaires were sent from the State offices of the Bureau of Agricultural Economics to crop correspondents of the United States Department of Agriculture. The form of the questionnaires was changed for the 1949 survey. Separate questionnaires were printed for each wheat-growing region. The varieties known to be grown most extensively in each region were grouped by classes and listed alphabetically leaving space under each class for writing in the names of varieties not listed. The grower was asked to indicate the number of acres of each variety seeded on his farm for the 1949 harvest. Growers also were asked to indicate the acres harvested, but harvested acreage data are not included in this report. Questionnaires were sent to wheat-growing farmers in all States for which the Bureau of Agricultural Economics estimated wheat acreages in 1949.

Approximately 100,000 questionnaires were sent out. The new form of questionnaire, with varietal names listed by classes, apparently aided farmers in furnishing the desired information, since much larger returns were received than from previous surveys. About 43,100 usable question-

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naiers were returned. An additional 5,000 were received from farmers who did not grow wheat in 1949.

Acreages reported under synonymous names were grouped under the standard name. The varietal names used are those recognized in Technical Bulletin 795\(^3\) and in the annual reports on varietal registration issued through a cooperative agreement between the Bureau of Plant Industry, Soils, and Agricultural Engineering and the American Society of Agronomy.

In order to determine the percentage that each variety was of the total acreage of wheat reported in a crop-reporting district, the reported acreage for each variety was divided by the total acreage of wheat reported on usable questionnaires for that district. The estimated acreage of each variety in the district was then calculated from the total acreage of wheat seeded in the district, as estimated by the Crop Reporting Board. All varieties in each commercial class were then totaled for each district, State, and the United States, to arrive at the class acreages.

Maps were made showing the acreage distribution of all wheat of the different classes and of varieties grown on more than 200,000 acres in 1949. Each dot represents 5,000 acres on the total-wheat map, 2,000 acres on the class maps, and 1,000 acres on the variety maps. In order to obtain the data for these maps the acreage of varieties in each county was computed. This was done by calculating the percentage that each variety was of the total acreage reported on questionnaires from the county and calculating the estimated county acreage of each variety from the total acreage of wheat seeded in the county.

No reports were received from a few counties in which wheat was reported as being grown. In order to make the data more complete, estimates were made for such counties, based on information for the same counties from previous surveys, from reports from adjacent counties, and the writers' personal knowledge. Some reports listed varieties under local names that could not be identified, or reported the acreage as "just wheat." Owing to these discrepancies, the acreage of wheat not accounted for by varieties is listed in the table as "Others and not reported." The reported acreages of the varieties of durum wheat were much more complete in 1949 than in former survey years, when they were often listed by correspondents simply as "durum."

In 1919, 1924, 1929, 1934, 1939, 1944, and 1949, respectively, 139, 152, 190, 213, 208, 216, and 199 distinct varieties were reported grown. In 1949, 27 new varieties were reported for the first time. Fifty varieties reported grown in 1944 were not reported in 1949. In all, 250 varieties are listed in the tables. Varieties having no reported acreage in either 1944 or 1949 are not listed but their acreage in the tables is included with "Others and not reported."

**WHEAT ACREAGE OF THE UNITED STATES**

The total seeded acreage of wheat in the United States in 1949 was nearly 85 million, which is about 20 million acres larger than the 1944 seeded acreage. The large increase over the 1944 acreage was general throughout the country except in the Atlantic Coast and Southern States. The increase was about 3 million acres each in Texas and Kansas. The distribution of the total seeded wheat acreage for the United States in 1949 is shown in figure 1.

FIGURE 1.—Distribution of the total wheat acreage seeded in the United States in 1949. Estimated area, 84,931,000 acres.

ESTIMATED ACREAGE OF VARIETIES

The estimated acreages in 1949 and 1944 and the percentage of the total wheat acreage occupied by each variety at 5-year intervals starting in 1919 are shown by States in table 1. The classes and varieties are arranged in order of their 1949 acreage. The percentage of the varieties reported in earlier surveys that were not reported in either 1949 or 1944 are included with "Others and not reported."

The percentage of the total wheat area in each State occupied by each class at 5-year intervals since 1919 is given in table 2. The classes are arranged in order of importance in the State. The acreage included in table 1 as "Others and not reported" was distributed among the classes in proportion to the acreage reported for each.

The percentage in 1949 of each of the three leading varieties in each State, arranged by geographical divisions, is shown in table 3.

The estimated acreage for 1949 and 1944 and the percentage of the total wheat acreage occupied by each variety in the United States by 5-year intervals are shown in table 4. In this table the varieties are arranged alphabetically. Only those varieties reported in 1949 or 1944 are included.

The varieties grown on a million acres or more in each of the seven surveys are listed in table 5 in the order of their acreage. Turkey was the leading variety in all of the surveys from 1919 through 1939. In 1944 it ranked second to Tenmarq and in 1949 it was exceeded in acreage by three hard red winter varieties, Pawnee, Comanche, and Triumph, by two hard red spring varieties, Mida and Thatcher, and by the soft red winter variety, Thorne. Nineteen varieties representing all classes of wheat were grown on more than a million acres in 1949. This is four more than in any previous survey.

Of the 199 varieties reported in 1949, Pawnee was grown on more than 11 million acres, Comanche, Triumph, and Mida, each on more than
Table 1.—Estimated percentage of the total wheat area occupied by the varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1944 and 1949

[Figures in parentheses opposite the name of each State, under “Acreage,” show the number of reports used in computing the data for each survey. The asterisk (*) indicates a variety reported as grown, but the estimate of acreage was less than 0.1 percent of the total acreage of the State]

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Table 1.—Estimated percentage of the total wheat area occupied by the varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1944 and 1949—Continued
TABLE 1.—Estimated percentage of the total wheat area occupied by the varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1944 and 1949—Continued

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1 2,455 acres fall seeded.
2 9,747 acres fall seeded.
### Table 1.—Estimated percentage of the total wheat area occupied by the varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1944 and 1949—Continued

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<th>State, class, and variety</th>
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<td>Blackbull</td>
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**Iowa:**

Hard red winter: Pawnee, 1944, 229,980

Lowin, 1919, 65.7

Turkey, 1944, 292,980

Jobred, 1944, 88,378

Nebred, 1944, 8,000

Red Chief, 1944, 2,286

Ioturk, 1944, 1,989

Nebraska No. 60, 1944, 1,687

Kanred, 1944, 1,067

Blackbull, 1944, 695

Iohard, 1944, 449

Tophill, 1944, 212

Minturki, 1944, 170
### Table 1.—Estimated percentage of the total wheat area occupied by the varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1944 and 1949—Continued

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DISTRIBUTION OF WHEAT IN 1949

Table 1.—Estimated percentage of the total wheat area occupied by the varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1944 and 1949—Continued
TABLE 1.—Estimated percentage of the total wheat area occupied by the varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1944 and 1949—Continued

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| Mida                      | 32.7 |      |      |      |      |      |      |
| Rival                     | 28.1 |      |      |      |      |      |      |
| Regent                    | 8.1  |      |      |      |      |      |      |
| Redman                    | 4.4  |      |      |      |      |      |      |
| Premier                   | 3.0  |      |      |      |      |      |      |
| Newthatch                 | 2.7  |      |      |      |      |      |      |
| Henry                     | 2.2  |      |      |      |      |      |      |
| Ceder                     | 2.0  |      |      |      |      |      |      |
| Thatcher                  | 71.8 | 15.8 | 1.8  |      |      |      |      |
| Renown                    | 4.8  |      |      |      |      |      |      |
| Carleeds                  | 1.6  |      |      |      |      |      |      |
| Pilot                     | 6.1  |      |      |      |      |      |      |
| Marquis                   | 57.3 | 72.2 | 59.3 | 44.3 | 1.5  | 1.3  | 1.15|
| Reward                    | 5.6  | 4.4  | 3.2  |      |      |      | 3.746|
| Marquillo                 | 4.8  | 11.1 | 18.7 |      |      |      | 14.911|
| Ceres                     | 1.5  | 21.3 | 3.0  | 2.1  |      |      | 2139 |
| Progress                  | 2.1  |      |      |      |      |      | 295  |
| Rushmore                  | 4.74 |      |      |      |      |      |      |
| Recess                    | 4.74 |      |      |      |      |      |      |
| Spinckota                 | 310  |      |      |      |      |      |      |
| Vesta                     | 190  |      |      |      |      |      |      |
| Supper                    | 170  |      |      |      |      |      |      |
| Sturgeon                  | 77   |      |      |      |      |      |      |
| Great Northern:           |      |      |      |      |      |      |      |
| Apex                      | 5.4  | 3.6  | 1.9  | 2.5  |      |      | 1.175|
| Preston                   | 5.1  | 1.1  |      |      |      |      |      |
| Dixon                     | 0.5  | 0.7  |      |      |      |      |      |
| Hope                      | 1.9  | 3.2  | 2.2  | 1.7  |      |      | 462  |
| Ruby                      |      |      |      |      |      |      |      |
| Durum:                    |      |      |      |      |      |      |      |
| Oatleton                  | 4.1  |      |      |      |      |      |      |
| Sewart                   | 1.9  |      |      |      |      |      |      |
| Mindum                    | 1.7  | 1.9  | 2.8  | 2.2  | 4.3  | 1.0  | 57,817|
| Pentad (red durum):       | 9.1  | 4.4  |      |      |      |      | 13,257|
| Durum (var. not reported) | 3.6  | 5.9  | 14.1 | 6.1  | 3.8  | 4.1  | 5,582|
| Kubanka                   | 1.5  | 0.1  |      |      |      |      |      |
| Vernum                    |      |      |      |      |      |      |      |
| Hard red winter:          |      |      |      |      |      |      |      |
| Minturki                  | 1.9  | 6.2  | 9.3  | 6.9  | 11.0 | 2.3  | 146,046|
| Marmin                    | 2.9  |      |      |      |      |      | 22,307|
| Turkey                    | 4.6  | 4.0  | 0.5  | 1.6  |      |      | 7,434|
| Karont                    | 2.2  |      |      |      |      |      | 2,764|
| Mister                    | 2.2  |      |      |      |      |      | 2,280|
| Nebred                    | 1.2  |      |      |      |      |      | 1,240|
| Wastach                   |      |      |      |      |      |      | 408  |
### DISTRIBUTION OF WHEAT IN 1949

#### TABLE 1.—Estimated percentage of the total wheat area occupied by the varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1944 and 1949—Continued

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| Hard red winter:        |      |      |      |      |      |      |      |            |         |
| Pawnee                  |      |      |      |      |      |      |      |            |         |
| Nebred                  |      |      |      |      |      |      |      |            |         |
| Cheyenne                |      |      |      |      |      |      |      |            |         |
| Turkey                  |      |      |      |      |      |      |      |            |         |
| Blackbull               |      |      |      |      |      |      |      |            |         |

CIRCULAR 861, U. S. DEPARTMENT OF AGRICULTURE
Table 1.—Estimated percentage of the total wheat area occupied by the varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1944 and 1949—Continued

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| **Nebraska**               |      |      |      | 3,765,000 | 4,866,000 |      |      |
| **Nevada**                 |      |      |      | 100.0    | 100.0     |      |      |
| White                      |      |      |      | 20.0     | 74.0      |      |      |
| Federation                 | 21.4 | 31.2 | 26.6 | 30.2     | 32.0     | 5,435 | 8,003 |
| Lomah                      | 2.4  | 22.6 | 435  | 5,435    | 8,003    |      |      |
| White Federation 35        | 8.4  | 13.1 | 649  | 5,435    | 8,003    |      |      |
| White Federation 64        | 6.4  | 13.1 | 649  | 5,435    | 8,003    |      |      |
| Romona 64                  | 4.2  | 13.1 | 649  | 5,435    | 8,003    |      |      |
| Galizanos                  | 5.2  | 13.1 | 649  | 5,435    | 8,003    |      |      |
| Dicklow                     | 5.2  | 13.1 | 649  | 5,435    | 8,003    |      |      |
| Pacific Bluestem 37        | 0.7  | 13.1 | 649  | 5,435    | 8,003    |      |      |
| Baart                      | 5.9  | 13.1 | 649  | 5,435    | 8,003    |      |      |
| Ramona                     | 4.1  | 13.1 | 649  | 5,435    | 8,003    |      |      |
| Pacific Bluestem           | 0.7  | 13.1 | 649  | 5,435    | 8,003    |      |      |
| Hard red winter:           |      |      |      | 93       |      |      |      |
| Turkey                     | 7.2  | 19.5 | 19.5 | 4,599    | 192     |      |      |
| Tenmarq                    | 5.2  | 5.4  | 5.4  | 3,003    | 1,423    |      |      |
| Hard red spring:           |      |      |      | 1,353    |      |      |      |
| Marquis                    | 13.6 | 2.2  | 2.2  | 2.2      | 83.7    |      |      |
| Thatcher                   | 2.6  | 2.6  | 2.6  | 2.6      | 83.7    |      |      |
| Komar                      | 0.7  | 0.7  | 0.7  | 0.7      | 83.7    |      |      |
| Others and not reported    | 47.7 | 47.7 | 47.7 | 47.7     | 83.7    |      |      |
| Total                      | 100.0| 100.0| 100.0| 100.0    | 100.0    |      |      |

| **New Jersey**             |      |      |      | 18,000  | 25,000  |      |      |
| **Soft red winter:**       |      |      |      | 28      | 279     |      |      |
| Thorne                     | 6.2  | 10.8 | 10.8 | 8.3     | 1.5     |      |      |
| Leap                       | 5.8  | 5.8  | 5.8  | 5.8     | 5.8     |      |      |
| Fultz                      | 4.5  | 4.5  | 4.5  | 4.5     | 4.5     |      |      |
| Nittany                    | 3     | 3     | 3     | 3       | 3       |      |      |
| Nured                      | 2.3  | 2.3  | 2.3  | 2.3     | 2.3     |      |      |
| Poole                      | 3     | 3     | 3     | 3       | 3       |      |      |
| Fuleaster                  | 10.8 | 10.8 | 10.8 | 10.8    | 10.8    |      |      |
| Lealpand                   | 2.3  | 2.3  | 2.3  | 2.3     | 2.3     |      |      |
| Total                      | 100.0| 100.0| 100.0| 100.0   | 100.0   |      |      |
TABLE 1.—Estimated percentage of the total wheat area occupied by the varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1944 and 1949—Continued

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<th>Acreage</th>
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**DISTRIBUTION OF WHEAT IN 1949**

**Table 1.**—Estimated percentage of the total wheat area occupied by the varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1944 and 1949—Continued

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| North Dakota:             |            |         |
| Hard red spring           |            |         |
| Mida                      | (*1)       |         |
| Thatcher                  | 41.6       | 26.4    |
| Rival                     | 25.8       | 10.0    |
| Cader                     |            | 3.1     |
| Regent                    | 3.8        | 9.8     |
| Rescue                    |            | 7.0     |
| Newatchie                 |            | 3.1     |
| Vesta                     | 3.7        | 6.6     |
| Carrol                    | 30.0       | 34.0    |
| Redman                    |            | 1.1     |
| Henry                     |            |         |
| Marquis                   | 47.0       | 52.0    |
| Supreme                   |            | 39.4    |
| Renown                    | 1.5        | 6.1     |
| Reward                    |            | 1.2     |
| Apex                      |             | 1.9     |
| Rushmore                  |            | 2.2     |
| Carleed                   | 1.0        | 2.2     |
| Great Northern            | 1.0        | 2.2     |
| Marvel                    |             | 1.0     |
| Progress                  | 1.0        | 2.1     |
| Marquillo                 | 1.4        | 3.2     |
| Preston                   | 8.4        | 2.7     |
| Kola                      | 4.9        | 9.8     |
| Durum                     |            |         |
| Hard red winter           |            |         |
| Turkey                    | 4.2        | 6.0     |
| Marlin                    | 3.0        | 5.4     |
| Newtork                   |             |         |
| White                     | 14.8       | 8.7     |
| Others and not reported   | 100.0      | 100.0   |

| Total                     | 100.0      | 100.0   |

(*) Percentage of the total wheat area occupied by the varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1944 and 1949—Continued.
<table>
<thead>
<tr>
<th>State, State, and variety</th>
<th>Percentage</th>
<th>Acreage</th>
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### TABLE 1—Estimated percentage of the total wheat area occupied by the varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1944 and 1949—Continued

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| Total                     | 100.0 100.0 100.0 100.0 100.0 100.0 | 5,206,000 7,552,000 |

| Oregon:                   |            |         |
| White                     |            |         |
| Federation                | 1.7 23.1 27.3 24.9 11.3 23.2 | 109,888 280,630 |
| Elgin                     |            |         |
| Red                      |            |         |
| Allen                    |            |         |
| Golden                   |            |         |
| Wilhelmina               |            |         |
| Orled                    |            |         |
| Goldcoill                | 14.4 10.4 13.4 10.4 4.7 14.4 3.1 | 140,121 36,903 |
| Baart                    | 3.7 8.1 1.6 1.5 2.1 1.8 2.1 | 17,388 25,463 |
| Oregon Zimmerman        |            |         |
| Hard Federation          | 1.1 3.3 7.9 |         |
| Galgadore                | 1.5 4.8 6.5 7.8 1.6 5.8 1.7 | 7,691 19,075 |
| Jenkin                   | 1.2 2.0 2.2 1.1 7.7 | 6,512 8,732 |
| Roper                    |            |         |
| White Winter             | 4.7 3.2 2.4 1.8 2.7 3.3 3.3 | 32,093 3,820 |
| Lemhi                    |            |         |
| Prohibition              | 2.3 1.8 6.8 | (*) 3.3 | 76 3,611 |
| Hymar                    |            |         |
| Rink                     | 1.3 2.2 2.8 9.1 3.5 3.1 4.3 | 34,614 1,244 |
| Hybrid 126               | 9.6 20.4 12.6 9.4 1.8 3.6 | 35,353 787 |
| Dicklow                  | 2.1 (*) 1.1 |         |
| Marfred                  |            |         |
| Albit                    |            |         |
| Hybrid 63                | 1.6 7.4 4.3 5.3 1.7 2.4 | 341 242 |
| Pacific Bluestem        | 11.3 3.2 1.4 0.9 7.1 1.3 | 987 68 |
| Bluechaff                | (*) 2.1 (*) 1.1 |         |
| Florence                 | 2.4 (*) 1.0 1.0 1.4 | 389 64 |
| White Federation        |            |         |
| Redchaff                 | 2.0 2.6 4.5 3.0 1.4 | 15,834 2,350 |
| Ramona                   |            |         |
| Atheno                   |            |         |
| Deffance                 | 1.7 1.6 2.4 4.1 1.1 | 316 84 |
| Hard red winter:         |            |         |
| Turkey                   | 13.2 26.0 24.6 20.0 14.2 10.7 3.5 | 104,243 42,462 |
| Rio                      |            |         |
| Moscow                   | 2.0 1.3 3.1 1.1 1.1 1.1 1.1 | 10,667 1,670 |
| Pawnee                   |            |         |
| Hard red spring:         |            |         |
| Marquise                 | 2.2 1.7 1.3 1.0 2.3 0.6 6.9 | 2,976 7,459 |
| Kinney                   | 2.2 1.0 1.3 1.0 2.5 1.7 5.8 | 1,732 5,288 |
| Histon                   | 2.1 2.0 1.6 1.5 1.8 1.5 4.1 | 5,106 4,687 |
| Comet                    |            |         |
| Thatcher                 |            |         |
| Komar                    |            |         |
Table I.—Estimated percentage of the total wheat area occupied by the varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1944 and 1949—Continued

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Note: (*) indicates acreage figures for the years 1929, 1934, and 1939, while the figures for 1944 and 1949 represent estimated acreage.
### DISTRIBUTION OF WHEAT IN 1949

**Table 1.**—Estimated percentage of the total wheat area occupied by the varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1944 and 1949—Continued.

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</table>

**Tennessee:**

| Soft red winter:           |      |      |      |      |      |      |      |
| Fulkaster                  |      |      |      |      |      |      | 4.1  |
| Flint                      |      |      |      |      |      |      | 4.1  |
| Thorne                     |      |      |      |      |      |      | 4.1  |
| Purplestraw                |      |      |      |      |      |      | 4.1  |
| Redhart                    |      |      |      |      |      |      | 4.1  |
| Carroll                    |      |      |      |      |      |      | 4.1  |
| Fulfil                     |      |      |      |      |      |      | 4.1  |
| Carola                     |      |      |      |      |      |      | 4.1  |
| Forward                    |      |      |      |      |      |      | 4.1  |
| Rice                       |      |      |      |      |      |      | 4.1  |
| Mediterranean              |      |      |      |      |      |      | 4.1  |
| Poole                      |      |      |      |      |      |      | 4.1  |
| Sanford                    |      |      |      |      |      |      | 4.1  |
| Hardired                   |      |      |      |      |      |      | 4.1  |
| Nittany                    |      |      |      |      |      |      | 4.1  |
| Champlin                   |      |      |      |      |      |      | 4.1  |
| Jones Fife                  |      |      |      |      |      |      | 4.1  |
| Leap                       |      |      |      |      |      |      | 4.1  |
| Trumbull                    |      |      |      |      |      |      | 4.1  |

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Table 1.—Estimated percentage of the total wheat area occupied by the varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1944 and 1949—Continued

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CIRCULAR 861, U. S. DEPARTMENT OF AGRICULTURE
### DISTRIBUTION OF WHEAT IN 1949

#### TABLE 1.—Estimated percentage of the total wheat area occupied by the varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1944 and 1949—Continued

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| Virginia:                  |      |      |      |      |      |      |      |      |
| Soft red winter:           |      |      |      |      |      |      |      |      |
| Thorne                     |      |      |      |      |      |      |      |      |
| V.P.I. 131                 | 11.6 | 16.7 | 17.5 | 16.3 | 14.6 |      |      | 93,455|
| Vahart                     |      |      |      |      |      |      |      | 309,805|
| Leap                       | 22.8 | 17.1 | 18.8 | 18.6 | 21.0 | 19.2 | 8.8  | 110,090|
| Forward                    | 4.2  | 5.0  | 5.8  | 8.0  | 8.0  | 6.7  | 3.7  | 28,412 |
| Fulcaster                  | 38.1 | 54.5 | 38.0 | 38.6 | 30.5 | 21.6 | 3.5  | 124,002|
| Hardred                    |      |      |      |      |      |      |      | 5,774 |
| Purplestrow                | 3    | 1.1  | 1.8  | 4.1  | 3.2  | 2.5  | 1.6  | 14,304 |
| Carala                     |      |      |      |      |      |      |      | 3,753 |
| Fulco                      | 10.5 | 6.5  | 2.3  | 2.9  | 3.6  | 1.6  | 4    | 9,427 |
| Mediterranean              | 6.2  | 4.0  | 9.5  | 5    | 3    |      |      | 230   |
| Nured                      |      |      |      |      |      |      |      | 355   |
| Sanford                    |      |      |      |      |      |      |      | 256   |
| Rice                       | 0.5  | 0.4  | 1    | 0.6  | 1.2  |      |      | 6,705 |
| Poole                      |      |      |      |      |      |      |      | 729   |
| Red Rock                   |      |      |      |      |      |      |      | 512   |
| Trumpull                   |      |      |      |      |      |      |      | 377   |
| Red Wave                   | 1.2  | 1    | 1.3  | 0.7  | 0    |      |      | 91    |
| Fulco-Mediterranean        | 0.6  | 1.1  | 1.7  | 4.2  | 2    |      |      | 384   |
| White                      |      |      |      |      |      |      |      | 10,135|
| Others and not reported    | 15.6 | 10.3 | 12.5 | 3.8  | 3.1  | 3.5  | 9.7  | 19,155|
| Total                      | 100.0| 100.0| 100.0| 100.0| 100.0| 100.0| 100.0| 574,000|

| Washington:                |      |      |      |      |      |      |      |      |
| White                      |      |      |      |      |      |      |      |      |
| Elgin                      | 12.3 | 14.6 | 20.0 | 20.0 | 26.7 | 28.4 | 10.2 | 368,300|
| Baart                      |      |      |      |      |      |      |      | 398,509|
| Hyman                      |      |      |      |      |      |      |      | 203,907|
| Golden                     |      |      |      |      |      |      |      | 167,921|
| Federation                 |      |      |      |      |      |      |      | 157,041|
| Golden                     |      |      |      |      |      |      |      | 394,990 |
| Ofred                      |      |      |      |      |      |      |      | 182,281|
| Rex                        |      |      |      |      |      |      |      | 116,475|
| Requa                      |      |      |      |      |      |      |      | 105,503|
| Hybrid 128                 | 7.4  | 9.2  | 8.5  | 3.3  | 1.6  | 2.7  | 2.4  | 69,399 |
| Alco                       |      |      |      |      |      |      |      | 76,287|
| Idae                       |      |      |      |      |      |      |      | 2,951 |
| Married                    |      |      |      |      |      |      |      | 75,543|
| Pacific Bluestem           | 24.9 | 13.0 | 9.0  | 5.0  | 3.8  | 1.3  | 4    | 33,450|
| Hard Federation            |      |      |      |      |      |      |      | 10,840|
| Abit                       |      |      |      |      |      |      |      | 5,224 |
| Wilhelmina                 |      |      |      |      |      |      |      | 7,696 |
| Pilcase                    |      |      |      |      |      |      |      | 696   |
| Major                      |      |      |      |      |      |      |      | 4,612 |
| Lemhi                      |      |      |      |      |      |      |      | 2,886 |
| Dicklow                    |      |      |      |      |      |      |      | 6,996 |
| White Federation           |      |      |      |      |      |      |      | 1,301 |
| Little Club                | 0.8  | 0.4  |      |      |      |      |      | 59    |
| Oregon Zimmerman          |      |      |      |      |      |      |      | 456   |
| Big Club                   |      |      |      |      |      |      |      | 59    |

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* (*) Indicates not reported.
TABLE 1.—Estimated percentage of the total wheat area occupied by the varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1944 and 1949—Continued

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**Note:** (*) indicates varieties grown in less than 1% of the total wheat area.
Table 1.—Estimated percentage of the total wheat area occupied by the varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1944 and 1949—Continued

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### Table 2 — Estimated percentage of total wheat area in each state occupied by each class at 5-year intervals since 1919

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(The asterisk (*) indicates a class reported as grown but occupying less than 0.1 percent of the total wheat acreage of the State.)
Table 2.—Estimated percentage of total wheat area in each State occupied by each class at 5-year intervals since 1919—Continued

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**Table 4.—Estimated percentage of the total wheat area in the United States occupied by each variety at 5-year intervals since 1919, and the acreage for 1944 and 1949—Continued**
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**Distribution of Wheat in 1949**

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<th>Year</th>
<th>Acreage</th>
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<td>1944</td>
<td>1949</td>
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<tr>
<td>1944</td>
<td>1949</td>
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*Estimated percentage of the total wheat area in the United States occupied by each variety at 5-year intervals since 1919, and the acreage for 1944 and 1949—Continued*
<table>
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<th>Variety</th>
<th>Acreage 1919</th>
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<th>Acreage 1929</th>
<th>Acreage 1934</th>
<th>Acreage 1939</th>
<th>Acreage 1944</th>
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<td>0.08</td>
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<tr>
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<td>0.97</td>
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<tr>
<td>Red Rock</td>
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<tr>
<td>Red Russian</td>
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<tr>
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<td>1.55</td>
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<td>0.08</td>
<td>0.08</td>
<td>0.08</td>
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</table>
5 million acres, Thorne, Thatcher, Turkey, and Wichita, each on more than 3 million acres, and Rival, Tenmarq, Westar, and Early Blackhull, each on more than 2 million acres. Acreages of less than 100,000 were reported for 122 of the 199 varieties grown.

There was a gradual increase in the number of varieties reported in the surveys from 1924 to 1944. This was a result of the distribution of improved varieties, many of which became widely adopted and were grown on large acreages, while small acreages of many of the older varieties remained. The 1949 survey shows that some of the older varieties are being eliminated. Of the 19 varieties grown on more than one million acres in 1949, only 8 were grown on more than a million acres in 1944.

As the farm lands of this country become older, changing factors affect the production of a crop like wheat, which is a major crop and in some cases about the only crop grown over large areas. In these areas wheat may follow wheat every year or it may be alternated with summer fallow in a rotation. Sometimes it follows a year of corn or sorghum in a short rotation. Such conditions are favorable for the increase, in the soil, of weak parasitic micro-organisms to the point where they may cause serious diseases such as foot and root rots. Obligate parasites such as the rusts and smuts on wheat may increase rapidly, or particular races of these organisms also may increase rapidly if a single variety or varieties of similar parentage are grown over large concentrated acreages. Fertility levels and soil moisture relations also change and result in changes in the physiology of the wheat plant, which may predispose it to diseases. Varieties of wheat differ markedly in their resistance or susceptibility to these conditions as well as to air- or seed-borne diseases.

Varieties bred for resistance to a disease often are not resistant to all races of the disease. However, resistance to some of the races often prevents serious losses. If an improved variety is susceptible even to a single race of a seed-borne disease and spores or fungal parts of that race are present on or within the seed as it is increased for distribution to farmers, it may be very widely disseminated and cause serious losses. It is imperative that seed for foundation stocks be carefully treated to avoid any trace of seed-borne diseases.

In the case of such wind-borne diseases as rust, a wheat resistant to all but a single race may serve to increase the inoculum of that race to disastrous proportions if the variety is extensively grown over large areas. This is what happened when wheat varieties with the Hope type of re-
Table 5.—Varieties of wheat grown on more than a million acres, listed in order of acreage at 5-year intervals since 1919

<table>
<thead>
<tr>
<th>Rank</th>
<th>1919</th>
<th>1924</th>
<th>1929</th>
<th>1934</th>
<th>1939</th>
<th>1944</th>
<th>1949</th>
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<td>1</td>
<td>Turkey</td>
<td>Turkey</td>
<td>Turkey</td>
<td>Turkey</td>
<td>Turkey</td>
<td>Tenmarq</td>
<td>Pawnee</td>
</tr>
<tr>
<td>2</td>
<td>Marquis</td>
<td>Marquis</td>
<td>Marquis</td>
<td>Marquis</td>
<td>Blackhull</td>
<td>Turkey</td>
<td>Comanche</td>
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<tr>
<td>3</td>
<td>Fultz</td>
<td>Kanred</td>
<td>Blackhull</td>
<td>Blackhull</td>
<td>Thatcher</td>
<td>Blackhull</td>
<td>Triumph</td>
</tr>
<tr>
<td>4</td>
<td>Mediterranean</td>
<td>Fulcaster</td>
<td>Kanred</td>
<td>Ceres</td>
<td>Ceres</td>
<td>Thatcher</td>
<td>Mida</td>
</tr>
<tr>
<td>5</td>
<td>Fulcaster</td>
<td>Fultz</td>
<td>Fultz</td>
<td>Fultz</td>
<td>Fultz</td>
<td>Tenmarq</td>
<td>Rival</td>
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<tr>
<td>6</td>
<td>Poole</td>
<td>Blackhull</td>
<td>Fulcaster</td>
<td>Fulcaster</td>
<td>Fulcaster</td>
<td>Marquis</td>
<td>Thorne</td>
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<td>7</td>
<td>Preston</td>
<td>Poole</td>
<td>Pentad</td>
<td>Pentad</td>
<td>Pentad</td>
<td>Kanred</td>
<td>Thatcher</td>
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<tr>
<td>8</td>
<td>Haynes Buestem</td>
<td>Blackhull</td>
<td>Fulcaster</td>
<td>Trumbull</td>
<td>Trumbull</td>
<td>Fultz</td>
<td>Early Blackhull</td>
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<tr>
<td>9</td>
<td>Pacific Buestem</td>
<td>Poole</td>
<td>Fulcaster</td>
<td>Kawvale</td>
<td>Kawvale</td>
<td>Tenmarq</td>
<td>Ceres</td>
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<tr>
<td>10</td>
<td>Red May</td>
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<td>Thorne</td>
<td>Wichita</td>
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<td>11</td>
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<td>Rival</td>
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<td>Tenmarq</td>
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<td>Yorkwin</td>
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</table>
sistance to leaf rust were distributed from Texas to Canada. They were resistant to the races that had predominated at the time they were distributed, but were susceptible to a few formerly very rare races. When these varieties, all susceptible to the same "minor" races of leaf rust, became widely grown these "minor" races became of major importance. Had fundamental pathologic information on the leaf rust disease been sufficient for the planning of a sound breeding project, varieties with more adequate resistance could have been developed.

With the recognition of these disease, fertility, and soil moisture relations that might favor the increase and dissemination of some new hazard, it is questionable whether it is desirable to encourage the rapid increase of any one variety or closely related varieties to a large part of the acreage of a region. It is safer to grow two or more varieties of different parentage so that if one succumbs to a new disease or new races of an old disease, the others may remain resistant.

**CLASSES OF WHEAT**

According to the official grain standards of the United States, wheat is now separated into seven commercial classes: (1) Hard red spring, (2) durum, (3) red durum, (4) hard red winter, (5) soft red winter, (6) white, and (7) mixed wheat. Most of the classes have two or three subclasses, and each subclass has five numerical grades and a sample grade. All varieties are included in one or another of the seven classes. In order to show the relative importance and distribution of the different classes, the acreages of the varieties making up each class were totaled. In this report the durum and red durum acreages are tabulated together, as only a small acreage of one variety of red durum is grown. The acreage for 1949 of each class and its percentage of the entire wheat acreage for each crop-reporting district and each State, arranged by geographical divisions, are shown in table 6 and summarized in table 7. The location and number of each crop-reporting district is shown in figure 2.

**TABLE 6.—Estimated acreage and percentage of the total wheat area occupied by each of the classes of wheat grown in each district and State in 1949**

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<th>Hard red spring</th>
<th>Durum and red durum</th>
<th>Hard red winter</th>
<th>Soft red winter</th>
<th>White</th>
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<td>Division, State, and district</td>
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<td>Durum and red durum</td>
<td>Hard red winter</td>
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<td>White</td>
<td>Total acreage</td>
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**Table 6.—Estimated acreage and percentage of the total wheat area occupied by each of the classes of wheat grown in each district and State in 1949—Continued**

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Table 6.—Estimated acreage and percentage of the total wheat area occupied by each of the classes of wheat grown in each district and State in 1949—Continued

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| Nebraska:                    |          |                     |                |                 |        |               |         |              |         |
| 1.                           | 48,115   | 4.8                 | 954,285        | 95.2            |        |               |         |              |         |
| 2.                           | 4,767    | 12.1                | 34,633         | 87.9            |        |               |         |              |         |
| 3.                           | 1,384    | 1.9                 | 70,908         | 97.4            | 510     | 0.7           |        |              |         |
| 4.                           |          |                     | 319,700        | 100.0           |        |               |         |              |         |
| 5.                           |          |                     | 793,000        | 100.0           |        |               |         |              |         |
| 6.                           |          |                     | 875,900        | 100.0           |        |               |         |              |         |
| 7.                           |          |                     | 656,643        | 99.9            | 924     | 1             |        |              |         |
| 8.                           |          |                     | 929,276        | 99.9            | 924     | 1             |        |              |         |
| 9.                           |          |                     | 4,629,643      | 98.8            | 1,434   | ()            |        |              |         |
| Total                       | 54,923   | 1.2                 | 4,686,000      |                 |        |               |         |              |         |

| Kansas:                      |          |                     |                |                 |        |               |         |              |         |
| 1.                           |          |                     | 1,594,000      | 100.0           |        |               |         |              |         |
| 2.                           |          |                     | 1,931,459      | 99.1            | 17,641  | 0.9           |        |              |         |
| 3.                           |          |                     | 534,831        | 98.6            | 36,569  | 6.4           |        |              |         |
| 4.                           |          |                     | 1,799,000      | 100.0           |        |               |         |              |         |
| 5.                           |          |                     | 2,908,924      | 98.6            | 10,076  | 4             |        |              |         |
| 6.                           |          |                     | 795,623        | 92.5            | 47,077  | 7.5           |        |              |         |
| 7.                           |          |                     | 3,040,000      | 100.0           |        |               |         |              |         |
| 8.                           |          |                     | 3,368,628      | 99.9            | 3,372   | 1             |        |              |         |
| 9.                           |          |                     | 702,429        | 91.0            | 69,471  | 9.0           |        |              |         |
| Total                       | 16,059,894| 98.9               | 184,106        | 1.1             |        |               |         |              |         |

| South Atlantic:              |          |                     |                |                 |        |               |         |              |         |
| Delaware:                    |          |                     |                |                 |        |               |         |              |         |
| 2.                           |          |                     | 23,907         | 96.4            | 893     | 3.6           |        |              |         |
| 5.                           |          |                     | 31,200         | 100.0           |        |               |         |              |         |
| 8.                           |          |                     | 11,700         | 100.0           |        |               |         |              |         |
| Total                       |          |                     | 67,107         | 98.7            | 893     | 1.3           |        |              |         |

| Maryland:                   |          |                     |                |                 |        |               |         |              |         |
| 1.                           |          |                     | 275            | 1               | 275,855 | 99.9          |        |              |         |
| 2.                           |          |                     | 6,700          | 100.0           |        |               |         |              |         |
| 8.                           |          |                     | 34,000         | 100.0           |        |               |         |              |         |
| 9.                           |          |                     | 69,860         | 99.8            | 700     | 0.2           |        |              |         |
| Total                       |          |                     | 385,585        | 99.9            |        |               |         |              |         |

| Virginia:                   |          |                     |                |                 |        |               |         |              |         |
| 2.                           |          |                     | 127,488        | 99.6            | 512     | 0.4           |        |              |         |
| 4.                           |          |                     | 51,000         | 100.0           |        |               |         |              |         |
| 5.                           |          |                     | 118,000        | 100.0           |        |               |         |              |         |
| 6.                           |          |                     | 47,050         | 97.0            | 475     | 3             |        |              |         |
| 8.                           |          |                     | 71,000         | 100.0           |        |               |         |              |         |
| 9.                           |          |                     | 66,000         | 100.0           |        |               |         |              |         |
| Total                       | 505,488  | 99.9                | 512            | 0.1             |        |               |         |              |         |

| West Virginia:              |          |                     |                |                 |        |               |         |              |         |
| 2.                           |          |                     | 15,000         | 100.0           |        |               |         |              |         |
| 4.                           |          |                     | 16,000         | 100.0           |        |               |         |              |         |
| 6.                           |          |                     | 62,000         | 100.0           |        |               |         |              |         |
| Total                       | 93,000   | 100.0               |                |                 |        |               |         |              |         |
Table 6.—Estimated acreage and percentage of the total wheat area occupied by each of the classes of wheat grown in each district and State in 1949—Continued

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### Table 6. Estimated acreage and percentage of the total wheat area occupied by each of the classes of wheat grown in each district and State in 1949—Continued

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<th>Hard red spring</th>
<th>Durum and red durum</th>
<th>Hard red winter</th>
<th>Soft red winter</th>
<th>White</th>
<th>Total acreage</th>
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<td>Acreage</td>
<td>Percent</td>
<td>Acreage</td>
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Figure 2.—Crop-reporting districts in 1949 within the States of the United States.
In table 6 the acreage of "Others and not reported" is distributed among the classes in proportions determined by the class acreages based on varieties reported; thus the total wheat acreage of each State was accounted for. This distribution was made by crop-reporting districts.

**Table 7.**—Estimated percentage of the total wheat acreage of the United States occupied by each of the 5 classes of wheat at 5-year intervals since 1919, and the estimated acreage for 1944 and 1949

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<td>Total</td>
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</table>

1 Includes durum and red durum classes.

Hard red spring wheat as a class is grown in all but the South Atlantic and South Central divisions, but principally in the North Central States. In 1949 it was reported in 22 States and was the leading class in Minnesota, North Dakota, South Dakota, and Montana.

Durum wheat is grown principally in North Dakota, South Dakota, and Minnesota. It is not a leading class of wheat in any State, occupying 27.8 percent of the acreage in North Dakota, 8.5 percent of that in South Dakota, and 7.8 percent of that in Minnesota. In addition small acreages of durum wheat were reported in Montana, Texas, and Wyoming.

Hard red winter wheat was reported grown in 30 States in 1949, and its total acreage was more than twice that of any other class of wheat. It is grown principally in the North Central and South Central States and is the leading class of wheat in Kansas, Nebraska, Oklahoma, Texas, Iowa, Wyoming, Colorado, New Mexico, and Utah.

Soft red winter is the leading class of wheat in New Jersey, Pennsylvania, Ohio, Illinois, Indiana, Wisconsin, Missouri, Delaware, Maryland, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Kentucky, Tennessee, Alabama, Arkansas, and Mississippi. In many of the Eastern States it is practically the only class of wheat grown. The largest acreages were estimated for Ohio, Indiana, Missouri, Illinois, and Pennsylvania. A total of 33 States reported soft red winter wheat in 1949.

White wheat is grown chiefly in the far Western States and in New York and Michigan. It is the leading class of wheat in New York and Michigan in the East and in Idaho, Washington, Oregon, California, Arizona, and Nevada in the West. The largest acreages were in Washington, Oregon, Michigan, Idaho, California, and New York.

The estimated acreage and percentage of the total wheat area occupied by each class by 5-year intervals since 1919 are shown in Table 7. These acreages were determined by totaling the estimated acreages of the varieties in each class. These data indicate that from 1944 to 1949 there was a decrease in the acreage of soft red winter and an increase in hard red winter, hard red spring, durum, and white wheats. The greatest change was in hard red winter which increased from 30,709,456 acres to...
46,042,742 acres. The percentage of hard red winter wheat increased gradually from 1919 until 1949. This has been due largely to increased total acreage of wheat in the central and southern Great Plains area where this class predominates. The acreage of soft red winter wheat has been about constant, but the percentage has decreased. No marked change has occurred in the relative importance of white wheat, which occupied 7.3 percent of the total wheat in 1919 and 7.8 percent in 1949. The shifts in the relative proportion of the different classes of wheat are caused largely by changes in the acreage of all wheat in different areas where the particular classes are grown rather than by major changes in the classes of wheat grown within a locality.

HARD RED SPRING VARIETIES

The hard red spring varieties are grown principally in the north-central part of the United States, their production extending into the prairie Provinces of Canada. There the severe winters make the risks in growing present varieties of winter wheat virtually prohibitive. The States leading in the production of hard red spring wheat are North Dakota, South Dakota, Montana, and Minnesota. Varieties of spring wheat also are grown in certain parts of Wisconsin, Iowa, Illinois, and as far east as Maine. In these States, as well as in Nebraska, Colorado, and Wyoming, they are frequently used to replace winter wheat that has failed, due to winterkilling, drought, soil blowing, or other causes. Hard red spring wheat also occupies a limited acreage in the Pacific Northwest. The distribution of the acreage of hard red spring wheat in 1949 is shown in figure 3.

In 1949, 31 varieties of hard red spring wheat were reported. They are listed in table 8 in order of their estimated acreage, together with 14 varieties reported grown in 1944 but which were not reported in 1949. The percentages of the total acreage for the class occupied by each variety in 1919, 1924, 1929, 1934, 1939, 1944, and 1949 are also shown.

![Figure 3.—Distribution of hard red spring wheat in 1949. Estimated area, 17,690,458 acres.](image)

**MIDA**

Mida increased from 18,552 acres in 1944, when it was released by the North Dakota Agricultural Experiment Station, to 5,554,156 acres in
### Table 8.—Percentage of the total hard red spring wheat acreage occupied by each variety of that class in the United States at 5-year intervals since 1919, and the estimated acreage for 1949

[The asterisk (*) indicates the variety was reported as grown, but the estimate of acreage was less than 0.1 percent of the total acreage of the class]

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1949 to become the leading variety of spring wheat. It constituted 31.4 percent of the acreage of this class. It was reported in 12 States, North Dakota, South Dakota, and Minnesota having the largest acreages. Its rapid increase was due largely to its resistance to stem rust, to high yield, and to good strength of straw. Its disadvantages are susceptibility to loose smut, shattering, and injury from spring frosts. Mida replaced Pilot, Rival, and Regent in many places because of its stronger straw and higher yield. The distribution of Mida wheat in 1949 is shown in figure 4.

### Thatcher

Thatcher decreased from 5,524,631 acres in 1939 to 4,450,254 in 1944 but retained its first rank. In 1949, however, its acreage dropped to
3,370,823 and it became the second most widely grown variety of its class with 19.1 percent. It was reported in 14 States, North Dakota, Montana, Colorado, and South Dakota having the largest acreages. The decrease in recent years has been due to injury from leaf rust and to lower yields. In the United States, the acreage of Thatcher has decreased in Minnesota and the eastern part of North Dakota and South Dakota, but increased in Montana, Colorado, and Wyoming. In Canada during the last 5-year period, it continued to increase in Saskatchewan and Alberta. It has been estimated by the Searle Grain Co.\(^4\) that 15,336,900 acres were grown in Canada in 1949, an increase of 26.3 percent from the 12,142,000 acres in 1944. This increase has been largely in Saskatchewan where more than 11 million acres were grown and where it occupied 71.3 percent of the acreage. For the United States and Canada combined this is a total of 18,708,000 acres, a gain of more than 2 million acres from 1944. The distribution of Thatcher wheat in the United States in 1949 is shown in figure 5.

![Figure 4.—Mida. 5,554,156 acres.](image1)

![Figure 5.—Thatcher. 3,370,823 acres.](image2)

**RIVAL**

Rival ranked third in acreage in 1949, having decreased from 25.8 to 16.6 percent of the class, or more than 1 million acres from 1944. It was partly replaced by Mida in Minnesota and North Dakota. As Rival shatters easily it is grown more in the eastern section of the spring wheat region and where the crop is harvested with a binder, since it is not well adapted for combining. It was reported grown in eight States in 1949, with the largest acreages in South Dakota, North Dakota, and Minnesota (fig. 6).

**CERES**

Ceres decreased from 1,622,762 acres in 1944 to 1,184,625 in 1949, ranking fourth among the varieties of the class. Ceres has decreased steadily since 1934, when it ranked second only to Marquis. By 1939 the acreage had shifted westward, having been replaced in the eastern part of the spring wheat region by varieties more resistant to stem rust.

Montana and Colorado are the leading States among the 10 in which it was reported grown in 1949. The variety was seriously damaged by stem rust in Minnesota and North Dakota after 1934 and in South Dakota in 1944, and the acreage has since been largely confined to sections where stem rust does not occur. In the drier areas of Montana and Colorado the acreage of Ceres has increased since 1944. The distribution of Ceres in 1949 is shown in figure 7.

RESCUE

Rescue is a solid-stemmed, sawfly-resistant variety developed at the Swift Current Station in Canada. It was increased and distributed by the Montana Agricultural Experiment Station in 1946. It was reported grown in five States in 1949, but principally in Montana and North Dakota where sawfly injury has been serious. It is not well adapted for growing in other sections. It ranked fifth in acreage in 1949, having increased to 916,147 acres, or 5.2 percent of the class. The distribution of this acreage is shown in figure 8.

Marquis dropped from fourth to sixth rank during the period 1944-49. From 1919 to 1934 Marquis was the leading variety. Its acreage was probably first surpassed by Ceres between 1935 and 1938, by Thatcher in 1939, and by Rival in 1944. Owing to the severe stem rust epidemics of 1935, 1937, and 1938, the acreage of both Ceres and Marquis decreased rapidly, with newer resistant varieties taking their places. In 1949 Marquis was still grown in 16 States (fig. 9), the largest acreages being in Montana, Washington, and Idaho. The estimated area of 882,382 acres was a decrease from 9.7 to 5.0 percent of the acreage of the class. There was a sharp reduction in the acreage of Marquis in Montana, from 1,226,726 acres in 1944 to 726,977 in 1949.

CADET

Cadet was developed by the United States Department of Agriculture in cooperation with eight States of the hard spring wheat region, and was distributed in 1946. It is an awnless, midseason variety of high quality and well adapted for direct combine harvesting. Its acreage increased steadily, and in 1949 it was reported grown in four States on 626,282 acres, as shown in figure 10.
Pilot decreased from sixth to eighth rank, or from 1,217,009 acres in 1944 to 570,675 in 1949. The decrease was largely in the eastern section of the spring wheat region where it was replaced by new varieties more resistant to lodging. It was reported grown in 10 States in 1949, with South Dakota, North Dakota, and Montana leading. It is well adapted to the western part of the region, as it does not shatter and is suited for direct combining. The distribution of Pilot in 1949 is shown in figure 11.

Regent decreased from 8.5 to 2.5 percent of the acreage of the class between 1944 and 1949. It was replaced largely by Mida. It is best adapted to the heavy soils of the Red River Valley. Regent was reported grown in seven States in 1949 on 441,392 acres, as shown in figure 12.
NEWTHATCH

Newthatch, distributed in 1944, was developed at the Minnesota Agricultural Experiment Station from a backcross, Hope × Thatcher. It was resistant to the races of leaf rust prevalent at the time of its distribution, but new races to which it is susceptible increased after its distribution. It is similar to Thatcher in appearance but is not so widely adapted. Newthatch was reported grown in four States in 1949 on 282,076 acres, as shown in figure 13.

OTHER VARIETIES OF HARD RED SPRING WHEAT

Ten varieties that have an estimated 200,000 acres or more have been discussed. Of the remaining 35 varieties listed in table 8, 21 were reported grown in 1949. Of these Redman, Rushmore, Spinkcota, and Comet were reported for the first time. Redman was developed in Canada and distributed in 1947, and Rushmore was developed in South Dakota and distributed in 1949. Both are stem-rust-resistant wheats of approved quality. Other stem-rust-resistant wheats that increased in acreage from 1944 to 1949 are Henry and Premier. Those that decreased are Vesta, Renown, Apex, and Marquillo. No stem-rust-susceptible variety showed an important gain in acreage, and 14 varieties reported grown in 1944 or earlier were not reported in 1949.

Of the 31 hard red spring wheats grown in 1949, only 12 are of approved quality and recommended for the northern spring wheat region of the United States. In the order of their 1949 acreage these varieties are Mida, Thatcher, Rival, Ceres, Marquis, Cadet, Pilot, Regent, Newthatch, Redman, Reward, and Rushmore.

DURUM AND RED DURUM VARIETIES

Varieties of the durum and red durum classes of wheat are grown principally in eastern North Dakota and South Dakota and occupy a part of the same territory in which the hard red spring wheats are grown. The 1949 acreage was estimated at 3,579,196, as compared with 2,179,258 acres in 1944. The increase is due to improved durum varieties, market demands, and supported prices. The 1949 acreage is very similar to that of 1939 and is adequate to meet market needs.

Ten varieties were reported grown in 1949. The estimated acreage in 1949 and the percentage of the total durum and red durum area occupied by each variety at 5-year intervals since 1919 are given in table 9. The distribution of all durum and red durum wheat is shown in figure 14. Much of the durum and red durum acreage was reported as "durum" in previous surveys, since many growers considered this a varietal name. With the development of new, improved durum varieties, the acreage shown as "durum (varieties not reported)" decreased from 46.8 to 2.4 percent from 1944 to 1949.

STEWART

Stewart ranks first among the durum varieties, increasing from 12,389 acres in 1944, the year it was distributed, to 1,344,158 acres in 1949.
TABLE 9.—Percentage of the total durum and red durum wheat acreage occupied by each variety of that class in the United States at 5-year intervals since 1919, and the estimated acreage for 1949

[The asterisk (*) indicates the variety was reported as grown, but the estimate of acreage was less than 0.1 percent of the total acreage of the class]

<table>
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<tr>
<th>Variety</th>
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<th>1934</th>
<th>1939</th>
<th>1944</th>
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1 Includes durum and red durum classes.

Stewart was developed by the United States Department of Agriculture and the North Dakota Agricultural Experiment Station from a backcross, Vernal (emmer) × Mindum. The distribution of Stewart in 1949 is shown in figure 15. It was reported grown in five States—North Dakota, South Dakota, Minnesota, Montana, and Texas, in the order listed. It is a rust-resistant, high-yielding wheat best adapted to the higher, drier, and lighter soils of the durum-growing area. The quality of Stewart is considered equal or superior to that of Mindum for the manufacture of semolina, the coarse granular flour from which macaroni and other edible pastes are made.

6 See footnote 5.
MINDUM

Mindum dropped from first to second rank among the durum varieties in 1949, although its acreage increased from 678,486 in 1944 to 980,677 in 1949. This 1949 acreage reported from four States is shown in figure 16. The steady increase in the acreage of Mindum since 1924 has been due to its high yield and good quality for macaroni. Millers prefer it to older varieties for the manufacture of semolina, and it has long been considered the standard for quality among durum wheats.

CARLETON

Carleton, distributed in 1944, increased from 6,113 acres that year to 563,762 in 1949. Carleton has the same origin as Stewart but differs in having stronger straw and is best adapted to the lower and heavier soils. It is not so high yielding as Stewart and Mindum but is of better quality. Carleton was reported grown in three States—North Dakota, Minnesota, and South Dakota (fig. 17).

PENTAD

Pentad (red durum) dropped from second to fourth rank among the durum varieties in 1949, although the acreage increased from 196,405 to 288,762 acres. This acreage is 8.1 percent of the durum acreage, which is less than in any survey since 1924. This decrease is due to the growing of the newer rust-resistant varieties of both hard red spring and durum. Pentad has long been grown from late seeding in the worst rust sections, but more recently as a smother crop for weed control. It yields well from late seeding and has an established market as a feed grain. It is not suited for the manufacture of semolina. The distribution of Pentad in 1949 is shown in figure 18. With the development of the newer rust-resistant durum varieties the acreage of Pentad should be further reduced, since it is not a recommended variety.

KUBANKA

Although Kubanka was for many years the most extensively grown durum variety, much of its acreage was reported merely as durum. The estimated acreage of Kubanka has decreased since 1934 to 7.8 percent of the class in 1949. The 1949 acreage was reported from three States as 280,438 acres (fig. 19). The decrease is due largely to the increase of Mindum and the newer rust-resistant durum wheats, Stewart and Carleton. Kubanka is not considered quite equal to these varieties in either yield or quality, but is still an approved variety.
OTHER DURUM VARIETIES

Of the durum varieties grown on less than 200,000 acres, Peliss (Algerian) decreased from 3.5 to 0.4 percent of the class. Vernum, a new variety distributed in 1947, was reported grown on 13,392 acres. A small acreage of Arnautka and Nodak was reported, but Acme and Kahla, grown on a small acreage in 1944 and previous years, were not reported grown in 1949. Of the 11 durum varieties shown in table 9, only Stewart, Mindum, Carleton, Kubanka, and Vernum are recommended for growing.

HARD RED WINTER VARIETIES

The hard red winter varieties are grown chiefly in the central and southern sections of the Great Plains region in Nebraska, Kansas, Colorado, Oklahoma, Texas, and New Mexico. Smaller acreages occur in Illinois, Missouri, Iowa, Wyoming, Montana, Washington, Idaho, Utah, and in some other States. The distribution of this class in 1949 is shown in figure 20. The acreage of hard red winter wheat increased from 32.0 percent of all wheat in 1919 to 54.2 percent in 1949. The number of commercial varieties has increased from 8 in 1919 to 44 in 1944 and 1949. Varieties reported for the first time in 1949 are
Wichita, Westar, Blue Jacket, Minter, Orienta, and Iohardi. Six varieties grown in previous years were not reported in 1949. The estimated acreage in 1949 and the percentage of the total hard red winter wheat acreage occupied by each of the commercial varieties by 5-year intervals since 1919 are shown in table 10.

Pawnee was grown on more than 11 million acres in 1949, while Comanche and Triumph were grown on more than 5 million acres each. Seventeen varieties were grown on 200,000 acres or more.

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The asterisk (*) indicates the variety was reported as grown, but the estimate of acreage was less than 0.1 percent of the total acreage of that class.
PAWNEE

Pawnee increased from 11,200 acres in 1944 to 11,120,653 in 1949 to become the most widely grown variety in the United States. Pawnee was developed in cooperative experiments of the Kansas and Nebraska Agricultural Experiment Stations and the Division of Cereal Crops and Diseases of the United States Department of Agriculture, from a cross between Kawvale and Tenmarq. It was first distributed in Nebraska in the fall of 1942 and in Kansas in 1943. The superior characteristics of Pawnee are short, stiff straw, high yield, good test weight, and resistance to loose smut. Its milling quality is good, and it is satisfactory for bread making. Pawnee was reported grown in 21 States, with largest acreages in Kansas, Nebraska, and Oklahoma, as shown in figure 21.

![Figure 21.—Pawnee. 11,120,653 acres.](image)

COMANCHE

Comanche ranks second in the hard red winter class, increasing from 21,522 acres in 1944 to 5,931,718 in 1949. It was developed by the Kansas Agricultural Experiment Station in cooperative experiments with the Division of Cereal Crops and Diseases from an Oro x Tenmarq cross, and was distributed in the fall of 1942 in Kansas, Oklahoma, and Texas. The superior characteristics of Comanche are earliness, stiff straw, high yield, good test weight, and excellent milling and baking qualities. Comanche was reported in nine States in 1949, as shown in figure 22.

TRIUMPH

The acreage of Triumph increased from 72,459 acres in 1944 to 5,596,200 in 1949. Triumph was developed by Joseph Danne of El Reno, Okla., and distributed by him in 1940 as Danne's Early Triumph. It is a very early, high-yielding wheat of satisfactory quality for family flour. Triumph was reported grown in 10 States in 1949, as shown in figure 23.
Turkey dropped from 8,295,881 acres in 1944 to 3,311,617 in 1949. As in previous surveys, the acreage reported as Kharkof and other synonyms is included with Turkey. Turkey was the leading variety of wheat in the number of acres grown prior to 1944, when it was surpassed by Tenmarq. In 1949 it was surpassed by Pawnee, Comanche, and Triumph. In the 1919 survey Turkey occupied 99.4 percent of the hard red winter wheat acreage, but since that time its area has gradually decreased until in 1949 it was estimated as being grown on only 7.2 percent of the class acreage. Turkey is still grown in all but the Eastern and Southern States. In 1949 it was reported grown in 29 States, as shown in figure 24.

Wichita was developed by the Kansas Agricultural Experiment Station and the Division of Cereal Crops and Diseases from a cross between
Early Blackhull and Tenmarq. Seed was increased in Kansas, Oklahoma, and Texas, and was distributed in the fall of 1944. Between 1945 and 1949 it increased to more than 3 million acres (fig. 25) and to fifth rank among the varieties of the class. It is a very early wheat of heavy test weight.

**TENMARQ**

Tenmarq, developed in cooperative experiments at the Kansas Agricultural Experiment Station, was released in 1932. The acreage increased rapidly. It was the leading variety of wheat in the United States in 1944 when 8,744,053 acres were grown. Tenmarq was estimated grown on 2,902,645 acres in 1949 (fig. 26), of which 1,385,635 were in Kansas, 584,490 in Texas, 507,988 in Colorado, and 268,375 in Oklahoma. While Tenmarq has excellent grain quality, it does not perform as well in the field as Pawnee, Comanche, Triumph, and Wichita, which have increased rapidly in recent years.

**WESTAR**

Westar was developed in cooperative experiments in Texas from a cross between Kanred-Hard Federation (sel. 25007) and Tenmarq and distributed in 1944. It has excellent grain quality and resistance to some races of leaf rust, and is recommended for the Plains and Panhandle areas of Texas. It was estimated grown on 2,169,798 acres in 1949 (fig. 27), of which 2,004,170 were in Texas.
EARLY BLACKHULL

Early Blackhull is one of the earliest and most winter-tender varieties of hard red wheat now being grown commercially. In the 1949 survey it was estimated to occupy 4.6 percent of the class total, or 2,106,295 acres. This is a decrease in percentage but an increase in acreage from 1944. In that year it was reported from only three States, while in 1949 it was grown in seven States, as shown in figure 28.

CHEYENNE

Cheyenne, reported for the first time in the 1934 survey, has gradually increased until in 1949 it occupied 1,940,510 acres. In percentage of the class, however, it dropped from 4.6 in 1944 to 4.3 percent in 1949. In 1949 it was reported as being grown in eight States (fig. 29), with more than half the acreage in Nebraska, where it was developed. It is most popular in southwestern Nebraska and adjoining counties of Colorado and Kansas, because of its stiff straw, erect heads, and suitability for direct combine harvesting.

BLACKHULL

Blackhull dropped from third to tenth rank among the varieties of hard red winter wheat between 1944 and 1949. The distribution of Blackhull, including Superhard, is shown in figure 30. The variety, distributed by Earl G. Clark, a farmer of Sedgwick, Kans., in 1917, gradually increased until it occupied 27.0 percent of the class acreage in 1939. Since then it has decreased rapidly. In 1949 Blackhull was reported grown in eight States, with the largest acreage in Kansas, Texas, and Colorado. The variety was popular because of its earliness, heavy test weight, and good yield.

NEBRED

Nebred, developed at the Nebraska station, was distributed in 1938. It was estimated to be grown on 580,954 acres in 1944 and increased to 1,457,375 in 1949 (fig. 31). It was reported from nine States, with most of the acreage in Nebraska. The variety is popular in western Nebraska and in South Dakota because of its hardness, good yields, resistance to stinking smut, and suitability for combine harvesting.
RED CHIEF

The acreage of Red Chief increased from 817,562 acres in 1944 to 1,160,893 in 1949, although the percentage of the class acreage decreased from 2.7 to 2.5 percent. In 1949 Red Chief was reported grown in nine States, with the largest acreages in Kansas, Oklahoma, and Texas. Red Chief has replaced some of the acreage formerly occupied by Chiefkan, which it resembles. The distribution of Red Chief in 1949 is shown in figure 32. This variety has a high test weight and good kernel color and yields fairly well. Unfortunately, its milling and baking characteristics are not acceptable to the grain trade.

YOGO

The acreage of Yogo increased from 150,924 in 1944 to 562,186 in 1949, or from 0.5 to 1.2 percent of the class. Yogo was reported grown in six States in 1949 (fig. 33), with most of the acreage in Montana, where it was developed. Yogo has outstanding cold resistance and produces good yields. It also has resistance to some races of bunt.

KARMONT

Karmont was also developed in Montana, and in 1944 was reported grown only in its home State on 190,394 acres. In 1949 it was reported grown in four States on 511,371 acres, 507,534 of them in Montana (fig. 34). In Montana it is the second most important hard red winter wheat, with its acreage largely in the north-central part of the State.

CHIEFKAN

The acreage of Chiefkan decreased from 1,752,751 in 1944 to 425,270 in 1949, or from 5.7 to 0.9 percent of the class. This reduction is due to the availability of improved varieties and to its inferior baking properties. The distribution of Chiefkan is shown in figure 35. It was still grown in nine States, with the largest acreages in Kansas, Oklahoma, and Texas. Chiefkan is noted for its high test weight per bushel.

WASATCH

Wasatch, developed in Utah and distributed in 1942, increased from 2,992 acres in 1944 to 393,788 in 1949. Bred for resistance to dwarf
bunt, it was distributed for growing in the dwarf-bunt-infested areas of Utah, western Montana, southern Idaho, and central Washington. In 1949 the variety was reported grown in six States (fig. 36), with Idaho, Utah, and Montana leading.

KANRED

Kanred, distributed by the Kansas station in 1917, was one of the first improved varieties to be released in the hard red winter wheat area. It reached its peak in 1924 when it occupied 21.2 percent of the class area and ranked third among the wheats of the United States. Since then its acreage has gradually decreased, and in 1949 it occupied only 252,049 acres, as shown in figure 37. It was still grown in nine States, the largest acreages being in Texas and Colorado.

OTHER VARIETIES OF HARD RED WINTER WHEAT

Twenty-seven other varieties of hard red winter wheat are shown in table 10 with 1949 acreages of less than 200,000 acres. Cache, a wheat resistant to dwarf bunt, was reported on 154,464 acres in Utah, Idaho, Montana, and Oregon. Blue Jacket, developed by Earl G. Clark of Sedgwick, Kans., and distributed in 1947, was reported grown on 124,015 acres in four States but mostly in Kansas. Other new wheats reported for the first time are Minter in Minnesota, Orienta in Oklahoma, and Iohardi in Iowa. Of the older varieties, the acreages of Rio, Newturk,
Ridit, Brill, Sherman, and Marmin increased slightly, while the others decreased. Six varieties reported in 1944 were not reported grown in 1949.

**SOFT RED WINTER VARIETIES**

The soft red winter wheat varieties are grown principally in the semi-humid to humid areas east and south of the hard red winter wheat belt, in the eastern half of the United States, and on a small acreage in the Pacific Northwest. There is, however, no sharp line of demarcation of the areas where the two classes are grown. Where they overlap there is considerable fluctuation from year to year in the relative acreages of these classes, depending largely on comparative winter survival yields and prices obtained. Soft red winter ranks third among the various market classes of wheat and in 1949 was estimated to make up 13.0 percent of the total wheat acreage of the United States. The distribution in 1949 is shown in figure 38.

![Distribution of soft red winter wheat in 1949](image)

Figure 38.—Distribution of soft red winter wheat in 1949. Estimated area, 11,002,599 acres.

Estimates of the 1949 acreages and the percentages of the total soft red winter wheat acreage occupied by each variety by 5-year intervals since 1919 are shown in table 11. In 1949, 67 varieties were reported grown, and of this number, 12 were reported for the first time. These new varieties in order of acreage are Vigo, Royal, Blackhawk, Vahart, Butler, Newcaster, Chancellor, Seabreeze, Moking, Atlas 50, Atlas 66, and Nudel. Fifteen varieties reported as being grown in 1944 were not reported in 1949. The number of varieties grown commercially is much larger than for any other class.
### Table 11: Percentage of the total soft red winter wheat acreage occupied by each variety of that class in the United States at 5-year intervals since 1919, and the estimated acreage for 1949

[The asterisk (*) indicates the variety was reported as grown, but the estimate of acreage was less than 0.1 percent of the total acreage of that class]

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The asterisk (*) indicates the variety was reported as grown, but the estimate of acreage was less than 0.1 percent of the total acreage of that class.
### Table 11

Percentage of the total soft red winter wheat acreage occupied by each variety of that class in the United States at 5-year intervals since 1919, and the estimated acreage for 1949—Continued

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#### Thorne

Thorne was developed at the Ohio Agricultural Experiment Station and distributed in 1937. In 1939, only 3,239 acres were reported, while it was estimated to occupy 3,447,661 acres, or 33.2 percent, of the soft red winter wheat acreage in 1949. It ranks fifth in acreage among all wheat varieties. Thorne was reported from 16 States, the largest acreage being in Ohio. Other States reporting large acreages were Pennsylvania, Indiana, Illinois, Maryland, Kentucky, Virginia, and New Jersey. It is the leading variety in Ohio, Pennsylvania, New Jersey, Delaware, Maryland, West Virginia, Kentucky, and Virginia.

The increase in acreage of Thorne has been very rapid since 1939. It seems to have replaced much of the former acreage of Trumbull, Nittany, Fulcaster, Leap, and Fultz. The distribution of Thorne wheat in 1949 is shown in figure 39.

#### Clarkan

Clarkan, developed by the farmer wheat breeder, Earl G. Clark of Sedgwick, Kans., was distributed in 1934. It was estimated grown on 939,098 acres (fig. 40), or 9 percent of the acreage in soft red winter wheat, in 1949. It was the leading variety in Missouri, where 759,760 acres were estimated grown. Other important States were Illinois, with 55,395 acres; Kentucky, with 28,894; and Kansas, with 10,639. Small acreages were grown in 10 other States. Clarkan is largely confined to the western part of the soft wheat belt.

#### Fairfield

Fairfield, developed and distributed by the Indiana Agricultural Experiment Station in 1942, was grown on 691,488 acres in seven States in 1949 (fig. 41), of which 517,924 were in Indiana, 74,070 in Illinois, and 69,057 in Ohio. Smaller acreages were reported from Michigan, Missouri, Pennsylvania, and West Virginia.
Redhart, first distributed by the Coker Pedigreed Seed Co. in 1921, is largely produced in the southeastern United States. It was estimated grown in 12 States on 604,624 acres in 1949 (fig. 42), of which 278,366 were in North Carolina, 122,972 in South Carolina, 82,270 in Virginia, and 56,308 in Kentucky. Small acreages were grown in Georgia, Tennessee, Maryland, Arkansas, West Virginia, Mississippi, Alabama, and Delaware.

Vigo is a new variety developed and distributed by the Indiana Agricultural Experiment Station and the Division of Cereal Crops and Diseases in the fall of 1946. In 1949 it was grown in eight States on an estimated 452,427 acres (fig. 43), of which 364,585 were in Indiana, 37,391 in Ohio, and 27,230 in Illinois. Small acreages were grown in Missouri, Kentucky, Pennsylvania, Michigan, and Tennessee.

Fultz, an old variety, was the leading variety of soft red winter wheat for many years prior to 1940. In 1919 it occupied 23.5 percent of the soft red winter acreage, but by 1949 the percentage had decreased to 3.6. The acreage of Fultz in 1949 was estimated at 377,243 acres (fig. 44), of which 136,456 were in Illinois, 102,784 in Indiana, 55,255 in Missouri, and 37,546 in Kentucky. Small acreages were grown in Ohio, Tennessee, New Jersey, West Virginia, Pennsylvania, Virginia, Arkansas, Maryland, North Carolina, Michigan, and Alabama.
FULCASTER

Fulcaster, also an old variety, was for many years widely grown in the eastern United States. It occupied 17.3 percent of the soft wheat acreage in 1924, but the percentage by 1949 was only 3.4. In 1949 it was still grown in 19 States on 354,137 acres (fig. 45), of which 104,120 were in Illinois, 78,647 in Tennessee, 40,225 in Missouri, and 28,587 in North Carolina. The remainder was reported from 15 other States.

TRUMBULL

Trumbull, a selection from Fultz, was distributed in Ohio in 1916. It was the leading variety in that State for many years, but it has now been largely replaced by Thorne. It decreased from 10.8 percent of the soft red winter acreage in 1939 to 2.9 in 1949, when it was grown on 300,954 acres (fig. 46). Of this area, 244,313 acres were in Ohio and 47,032 in Indiana. Small acreages were grown in seven other States.

KAWVALE

Kawvale, a variety with a kernel appearance like a soft wheat but with texture more nearly resembling hard wheat, was released by the Kansas Agricultural Experiment Station in 1932. It was grown on 10.2 percent of the soft red winter acreage in 1939, but it had decreased to 2.9 in 1949. Of the estimated 300,594 acres grown in 1949 (fig. 47), 112,696 acres were in Kansas, 105,503 in Illinois, and 74,025 in Missouri. Small acreages were reported from Indiana, Iowa, Pennsylvania, Ohio, Michigan, and New York.

MEDITERRANEAN

Mediterranean decreased from 13.6 percent of the soft red winter acreage in 1919 to 2.4 in 1949, when it was grown on 252,145 acres (fig. 48). Of this, 204,700 acres were in eastern Texas. The rest was reported in 12 additional States, the largest acreage, 11,110, being in Missouri.

AUSTIN

Austin, a stem-rust-resistant variety was distributed in Texas in 1942. It increased rapidly, but it was susceptible to races of leaf rust that were seldom collected prior to 1948. When Austin was grown on a large acreage these races increased rapidly. In their presence Austin showed as much leaf rust as the old varieties. Because of this and the fact that it is not very winter hardy, the acreage of Austin is rapidly decreasing. In 1949 it was estimated grown on 218,211 acres (fig. 49), or 2.1 percent of the soft red winter acreage, of which 209,000 acres were in Texas and 9,211 in Oklahoma.
OTHER VARIETIES OF SOFT RED WINTER WHEAT

The 11 soft red winter varieties discussed individually, and for which distribution maps are shown, were reported as being grown on more than 200,000 acres each in 1949. Of the remaining 56 varieties 11 were estimated grown on more than, and 45 on less than, 100,000 acres. The total acreages for these varieties are given in table 11 and the acreage in each State is given in table 1. Most of these 56 are old varieties whose acreages have decreased as a result of increased acreages of improved varieties. As previously indicated, 12 varieties, including Vigo, Royal, and Blackhawk, are new, and were reported for the first time in the 1949 survey. The acreage of most of these new, improved varieties is expected to increase.

WHITE VARIETIES

The estimated area sown to varieties of white wheat in 1949 was 6,616,005 acres, or 7.8 percent of the total wheat acreage. The distribution of this acreage is shown in figure 50. It is confined largely to the Western States and to Michigan and New York in the east. In the east the acreage is entirely of winter varieties with soft grain. Both winter and spring varieties, as well as soft and hard and common and club varieties, are grown in the west.
The percentage that each variety is of the class total in each survey since 1919 and the total acreage of each variety in 1949 are given in Table 12. The numbers of white varieties reported in the surveys at 5-year intervals from 1919 to 1949 are 47, 46, 52, 62, 65, 54, and 48. Of the 48 varieties grown in 1949, 12 were grown on more than 200,000 acres. Five are reported for the first time in the 1949 survey. It is known that a considerable acreage of Golden is reported as Goldcoin and that the acreage divided between such varieties as Baart and Baart 38 may be correct. There were 13 varieties of white wheat grown in 1944 or earlier that were not reported grown in 1949.

### Table 12.—Percentage of the total white wheat acreage occupied by each variety of that class in the United States at 5-year intervals since 1919, and the estimated acreage for 1949

[The asterisk (*) indicates the variety was reported as grown, but the estimate of acreage was less than 0.1 percent of the total acreage of the class]

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</table>
YORKWIN

Yorkwin, a winter variety with soft white grain, distributed by the Cornell University Agricultural Experiment Station in 1935, was grown on an estimated 1,107,530 acres in 1949 (fig. 51), or nearly twice that of any other white variety. Of this 884,730 acres were in Michigan, 204,233 in New York, 10,346 in Pennsylvania, and small acreages in Kentucky, New Jersey, Indiana, Ohio, and Delaware.

ELGIN AND ALICEL

The Elgin and Alicel white club varieties of winter wheat, distributed by the Oregon Agricultural Experiment Station, were estimated grown on 596,293 and 233,803 acres, respectively, in 1949. Elgin is a selection from Alicel and the two varieties are almost identical. They were grown on an estimated 403,842 acres in Washington, 354,715 in Oregon, 70,801 in Idaho, and 738 in California in 1949. Figure 52 shows their combined distribution. Their acreage has increased greatly in Washington, Oregon, and Idaho since 1944.
FEDERATION

Federation, distributed by the Oregon station, has been a prominent variety in the Pacific Northwest since the middle twenties. It was grown on an estimated 564,841 acres in 1949 (fig. 53). Of this, 280,630 acres were in Oregon, 182,281 in Washington, 84,141 in Idaho, 8,262 in Utah, 8,003 in Nevada, and 1,524 in California. The acreage in Washington has decreased greatly since 1944. Federation is grown from both fall and spring seeding.

BAART

Baart, a spring variety from Australia first distributed in the United States in 1914, was grown on an estimated 504,268 acres in 1949 (fig. 54). Of this area, 323,609 acres were in Washington, 112,077 in Idaho, 25,463 in Oregon, 21,545 in Utah, with small acreages in Arizona, Montana, Colorado, and Nevada. Baart 38, a backcross-derived strain of Baart with resistance to rust and smut, has now replaced the acreage in California formerly sown to Baart. It is estimated that in 1949 Baart 38 was grown on 147,097 acres in California, 6,166 in Arizona, and 797 in Utah.

REX

Rex, a winter wheat with soft white grain, was grown on an estimated 427,413 acres in 1949 (fig. 55), of which 204,091 were in Oregon, 116,647 in Washington, 102,317 in Idaho, 4,191 in Montana, and 167 in Nevada. Because of poor milling quality this acreage of Rex is being replaced by other bunt-resistant varieties.

GOLDCOIN AND GOLDEN

Goldcoin was the leading variety of white wheat in the 1924 and 1929 surveys. At that time it was grown in the eastern white wheat area as well as in the west. In 1949 Goldcoin was reported on 359,678 acres, and Golden, a selection from it, on 234,199. It is likely that much of the acreage reported as Goldcoin is actually Golden. The combined acreage for the two varieties was 593,877 (fig. 56), of which 340,306 were in Washington, 149,314 in Idaho, 86,567 in Oregon, 6,506 in Ohio, 6,096 in Montana, and 5,088 in Michigan.
Cornell 595, a winter wheat distributed by the Cornell University Agricultural Experiment Station in 1942, was grown on an estimated 335,894 acres in 1949 (fig. 57). Of this area, 194,941 acres were in New York, 66,361 in Michigan, 48,510 in Ohio, 13,688 in Pennsylvania, and small acreages in Illinois, Indiana, New Jersey, Virginia, Missouri, and Wisconsin.

Hymar, a variety of winter club, was distributed by the Washington Agricultural Experiment Station in 1935. Its acreage has remained about constant since 1939. It was grown on an estimated 269,880 acres in 1949 (fig. 58), of which 253,203 were in Washington, 13,249 in Idaho, 2,184 in Montana, and 1,244 in Oregon.

White Federation 38, a hard spring variety derived by backcrossing to White Federation, was grown on an estimated 241,675 acres in 1949 (fig. 59). Of this acreage 238,426 were in California, 1,695 in Nevada, and 1,554 in Arizona. This bunt- and stem-rust-resistant derivative of White Federation has almost completely replaced the White Federation in California and Arizona since its release in California in 1939.

Lemhi, a soft spring variety released by the Idaho Agricultural Experiment Station in 1939, was grown on an estimated 202,256 acres in 1949, as shown in figure 60. Of this area, 157,178 acres were in Idaho, 33,356 in Utah, and 5,660 in Nevada, and small acreages in Oregon, California, and Montana.
OTHER VARIETIES OF WHITE WHEAT

Thirty-six additional varieties of white wheat were grown on less than 200,000 acres each. Their acreage in 1949 and percentage of the class for each survey since 1919 is given in table 12. Five are new varieties of which the acreage is increasing, but most of them are old varieties and are passing out of production.

![Figure 60.—Lemhi. 202,256 acres.](image)

![Figure 61.—Club wheat. 1,256,544 acres.](image)

CLUB VARIETIES

While club varieties with white grain are included along with other white wheats in table 12, they are also listed in table 13 with the acreage of each in 1949, and the percentage that each was of the total club wheat acreage in each survey since 1919. Eleven varieties were reported grown in 1949 on 1,256,544 acres. Elgin alone occupied nearly half of the club wheat acreage in 1949, while Elgin and Alice I, which are very similar, together occupied two-thirds of the acreage. Hymar, Hybrid 128, and Big Club 43 were also grown on a considerable acreage. Six additional club varieties were reported in 1949, while six others reported in 1944 were not reported grown in 1949. Hybrid 128, which was the leading variety of club wheat in the 1920's, was grown on only 6.2 percent of the acreage in 1949. The distribution of the total white club wheat acreage in 1949 is shown in figure 61. Practically the entire club acreage is fall-seeded.

EXPERIMENT STATION PRODUCTIONS

The survey shows 199 distinct varieties of wheat were grown on farms in 1949. Of these, 118 were developed by the agricultural experiment stations in the United States and Canada. These 118 varieties were grown on an estimated three-fourths of the 84,931,000 acres grown in 1949. The rest were developed by private breeders or introduced from foreign countries other than Canada. Thirteen varieties developed by private breeders were grown on nearly 12 million acres.
### RECOMMENDED VARIETIES

The varieties of wheat most widely grown usually are those best adapted. However, new varieties are continually being developed by Federal, State, and private breeders. The State agricultural experiment stations and the United States Department of Agriculture test new varieties in comparison with the old and thus are able to recommend the best variety or varieties for each locality. The agricultural extension services, using the information from Federal and State experiment stations, advise growers as to the best variety for any particular locality.