



United States  
Department of  
Agriculture

National  
Agricultural  
Statistics  
Service



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# Crop Production 2019 Summary

## January 2020

# USDA





## Special Note

When producers were surveyed, there was significant unharvested acreage of corn in Michigan, Minnesota, North Dakota, South Dakota, and Wisconsin; and soybean acreage not yet harvested in Michigan, North Dakota, and Wisconsin. The unharvested area and expected production were included in the totals published in this report.

NASS will re-contact respondents who previously reported acreage not yet harvested in these States in early spring. If the newly collected data justifies any changes, NASS will update the 2019 corn and soybean estimates published in this report. Stocks estimates are also subject to review since unharvested production is included in the estimate of on-farm stocks.

After a thorough review of the balance sheet for the 2018 corn crop, NASS determined that revisions were necessary for the 2018 corn production and September 1, 2019 stocks estimates. Production was revised down 0.6 percent. Planted area was reduced 0.3 percent and harvested area was reduced 0.6 percent. Acreage and production revisions by State can be found on pages 10-11 of this report. Stocks revisions can be found in the *Grain Stocks* publication.

**Corn** for grain production in 2019 was estimated at 13.7 billion bushels, down 5 percent from the revised 2018 estimate. The average yield in the United States was estimated at 168.0 bushels per acre, 8.4 bushels below the 2018 yield of 176.4 bushels per acre. Area harvested for grain was estimated at 81.5 million acres, up less than 1 percent from the revised 2018 estimate.

**Sorghum:** Grain production in 2019 was estimated at 341 million bushels, down 6 percent from the 2018 total. Planted area for 2019 was estimated at a record low 5.27 million acres, down 7 percent from the previous year. Area harvested for grain, at 4.68 million acres, was down 8 percent from 2018. Grain yield was estimated at 73.0 bushels per acre, up 0.9 bushel from 2018.

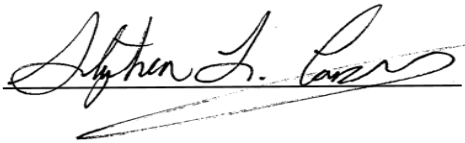
**Rice:** Production in 2019 totaled 185 million cwt, down 17 percent from the 2018 total. Planted area for 2019 was estimated at 2.54 million acres, down 14 percent from 2018. Area harvested, at 2.47 million acres, was down 15 percent from the previous crop year. The average yield for all United States rice was estimated at 7,471 pounds per acre, down 221 pounds from the 2018 average yield of 7,692 pounds per acre.

**Soybean** production in 2019 totaled 3.56 billion bushels, down 20 percent from 2018. The average yield per acre was estimated at 47.4 bushels, down 3.2 bushels from 2018. Harvested area was down 14 percent from 2018 to 75.0 million acres.

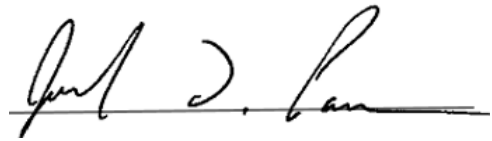
**All cotton** production is estimated at 20.1 million 480-pound bales, up 9 percent from 2018. The United States yield is estimated at 817 pounds per acre, down 47 pounds from last year. Harvested area, at 11.8 million acres, is up 16 percent from last year.

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This report was approved on January 10, 2020.



Secretary of Agriculture  
Designate  
Stephen L. Censky



Agricultural Statistics Board  
Chairperson  
Joseph L. Parsons

## Contents

|                                                                                                                                 |    |
|---------------------------------------------------------------------------------------------------------------------------------|----|
| Principal Crops Area Planted and Harvested – States and United States: 2017-2019 .....                                          | 8  |
| Corn Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2017-2019.....    | 10 |
| Corn for Silage Area Harvested, Yield, and Production – States and United States: 2017-2019 .....                               | 12 |
| Corn for Grain Plant Population per Acre – Selected States: 2015-2019 .....                                                     | 13 |
| Corn for Grain Number of Ears per Acre – Selected States: 2015-2019 .....                                                       | 14 |
| Corn for Grain Percentage Distribution by Plant Population per Acre – Selected States: 2015-2019 .....                          | 15 |
| Corn for Grain Frequency of Farmer Reported Row Widths – Selected States: 2015-2019 .....                                       | 16 |
| Corn for Grain Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2015-2019.....            | 17 |
| Sorghum Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2017-2019..... | 18 |
| Sorghum for Silage Area Harvested, Yield, and Production – States and United States: 2017-2019 .....                            | 19 |
| Oat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 .....                               | 20 |
| Barley Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 .....                            | 22 |
| All Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 .....                         | 24 |
| Winter Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 .....                      | 26 |
| Other Spring Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019.....                 | 28 |
| Durum Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 .....                       | 29 |
| Wheat Production by Class – United States: 2017-2019 .....                                                                      | 29 |
| Rice Area Planted and Harvested, Yield, and Production by Class – States and United States: 2017-2019.....                      | 30 |
| Rye Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 .....                               | 32 |
| Proso Millet Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 .....                      | 33 |
| All Hay Area Harvested, Yield, and Production – States and United States: 2017-2019.....                                        | 34 |
| Alfalfa and Alfalfa Mixtures for Hay Area Harvested, Yield, and Production – States and United States: 2017-2019.....           | 36 |
| All Other Hay Area Harvested, Yield, and Production – States and United States: 2017-2019.....                                  | 38 |
| All Forage Area Harvested, Yield, and Production – States and 17 State Total: 2017-2019 .....                                   | 40 |

|                                                                                                                               |    |
|-------------------------------------------------------------------------------------------------------------------------------|----|
| All Alfalfa Forage Area Harvested, Yield, and Production – States and 17 State Total: 2017-2019 .....                         | 41 |
| All Other Forage Area Harvested, Yield, and Production – States and 17 State Total: 2017-2019.....                            | 42 |
| All Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State Total: 2017-2019 .....                  | 43 |
| Alfalfa Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State Total: 2017-2019 .....              | 44 |
| All Other Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State<br>Total: 2017-2019 .....         | 45 |
| New Seedings of Alfalfa and Alfalfa Mixtures – States and United States: 2017-2019.....                                       | 46 |
| Peanut Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 .....                          | 47 |
| Canola Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019.....                           | 48 |
| Sunflower Area Planted and Harvested, Yield, and Production by Type – States and United States: 2017-2019 .....               | 50 |
| Soybeans for Beans Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 .....              | 52 |
| Soybean Pods with Beans per 18 Square Feet – Selected States: 2015-2019 .....                                                 | 54 |
| Soybean Frequency of Farmer Reported Row Widths – Selected States: 2015-2019 .....                                            | 56 |
| Soybean Frequency of Farmer Reported Row Widths – Selected States: 2015-2019 (continued).....                                 | 57 |
| Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected<br>States: 2015-2019 .....             | 58 |
| Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States:<br>2015-2019 (continued) ..... | 59 |
| Flaxseed Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 .....                        | 60 |
| Safflower Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 .....                       | 60 |
| Other Oilseed Area Planted and Harvested, Yield, and Production by Crop – United States: 2017-2019 .....                      | 61 |
| Cotton Area Planted and Harvested, Yield, and Production by Type – States and United States: 2017-2019 .....                  | 62 |
| Cottonseed Production – States and United States: 2017-2019 .....                                                             | 64 |
| Tobacco Area Harvested, Yield, and Production – States and United States: 2017-2019 .....                                     | 65 |
| Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States: 2017-2019 .....                   | 66 |
| Sugarbeet Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 .....                       | 68 |
| Sugarcane Area Harvested, Yield, and Production – States and United States: 2017-2019 .....                                   | 69 |
| Potato Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 .....                          | 70 |
| Sweet Potato Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 .....                    | 72 |

|                                                                                                                                  |     |
|----------------------------------------------------------------------------------------------------------------------------------|-----|
| Dry Edible Bean Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 .....                    | 74  |
| Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2017-2019..... | 75  |
| Lentil Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 .....                             | 89  |
| Wrinkled Seed Pea Production – States and United States: 2017-2019 .....                                                         | 89  |
| Dry Edible Pea Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 .....                     | 92  |
| Austrian Winter Pea Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 .....                | 92  |
| Chickpea Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019.....                            | 90  |
| Hop Area Harvested, Yield, and Production by Variety – States and United States: 2017-2019.....                                  | 93  |
| Mint for Oil Area Harvested, Yield, and Production by Crop – States and United States: 2017-2019 .....                           | 97  |
| Maple Syrup Taps, Yield, and Production – States and United States: 2017-2019 .....                                              | 98  |
| Taro Area Harvested, Yield, and Production – State and United States: 2017-2019.....                                             | 98  |
| Alaska Area Planted and Harvested, Yield, and Production: 2017-2019 .....                                                        | 98  |
| Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2018 and 2019.....                     | 99  |
| Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2018 and 2019 .....                      | 101 |
| 2019 Annual Weather Summary .....                                                                                                | 103 |
| 2019 Annual Crop Summary .....                                                                                                   | 106 |
| Crop Comments .....                                                                                                              | 109 |
| Statistical Methodology .....                                                                                                    | 121 |
| Information Contacts .....                                                                                                       | 122 |

## Principal Crops Area Planted and Harvested – States and United States: 2017-2019

[Crops included are corn, sorghum, oats, barley, rye, winter wheat, Durum wheat, other spring wheat, rice, soybeans, peanuts, sunflower, cotton, dry edible beans, potatoes, canola, proso millet, and sugarbeets. Harvested acreage is used for all hay, tobacco, and sugarcane in computing total area planted. Includes double cropped acres and unharvested small grains planted as cover crops]

| State                            | Area planted  |               |               | Area harvested |               |               |
|----------------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                                  | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                                  | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| Alabama .....                    | 2,280         | 2,325         | 2,115         | 2,180          | 2,218         | 2,050         |
| Alaska <sup>1</sup> .....        |               | 28            | 28            |                | 27            | 27            |
| Arizona .....                    | 700           | 665           | 634           | 685            | 640           | 625           |
| Arkansas .....                   | 7,299         | 7,282         | 6,598         | 7,102          | 7,099         | 6,417         |
| California .....                 | 3,096         | 2,946         | 2,941         | 2,701          | 2,515         | 2,542         |
| Colorado .....                   | 6,245         | 6,140         | 6,091         | 5,874          | 5,585         | 5,799         |
| Connecticut .....                | 72            | 70            | 70            | 68             | 67            | 68            |
| Delaware .....                   | 462           | 453           | 435           | 429            | 409           | 415           |
| Florida .....                    | 1,146         | 1,114         | 1,072         | 1,120          | 1,063         | 1,059         |
| Georgia .....                    | 3,634         | 3,653         | 3,354         | 3,288          | 3,141         | 3,152         |
| Idaho .....                      | 4,205         | 4,177         | 4,107         | 4,070          | 4,064         | 3,956         |
| Illinois .....                   | 22,851        | 22,936        | 21,590        | 22,694         | 22,480        | 21,210        |
| Indiana .....                    | 12,130        | 12,120        | 11,250        | 12,030         | 11,950        | 11,070        |
| Iowa .....                       | 24,491        | 24,241        | 23,935        | 24,280         | 23,829        | 23,619        |
| Kansas .....                     | 23,633        | 23,465        | 23,113        | 22,743         | 22,694        | 22,268        |
| Kentucky .....                   | 5,956         | 5,693         | 5,712         | 5,761          | 5,503         | 5,552         |
| Louisiana .....                  | 3,275         | 3,287         | 3,025         | 3,230          | 3,113         | 2,952         |
| Maine .....                      | 226           | 227           | 229           | 221            | 221           | 222           |
| Maryland .....                   | 1,633         | 1,572         | 1,556         | 1,370          | 1,361         | 1,346         |
| Massachusetts .....              | 93            | 93            | 65            | 90             | 91            | 62            |
| Michigan .....                   | 6,349         | 6,390         | 5,541         | 6,246          | 6,264         | 5,345         |
| Minnesota .....                  | 19,691        | 19,484        | 18,349        | 19,426         | 19,132        | 17,849        |
| Mississippi .....                | 4,159         | 4,144         | 3,822         | 4,099          | 4,059         | 3,720         |
| Missouri .....                   | 13,533        | 13,782        | 12,827        | 13,277         | 13,393        | 12,367        |
| Montana .....                    | 9,079         | 9,835         | 9,946         | 8,294          | 9,349         | 9,403         |
| Nebraska .....                   | 19,566        | 19,742        | 19,176        | 19,244         | 19,341        | 18,777        |
| Nevada .....                     | 426           | 401           | 450           | 409            | 380           | 447           |
| New Hampshire .....              | 59            | 52            | 61            | 58             | 51            | 60            |
| New Jersey .....                 | 310           | 314           | 282           | 302            | 304           | 272           |
| New Mexico .....                 | 906           | 874           | 823           | 669            | 618           | 543           |
| New York .....                   | 2,800         | 2,828         | 2,591         | 2,739          | 2,764         | 2,504         |
| North Carolina .....             | 4,428         | 4,593         | 4,400         | 4,296          | 4,348         | 4,273         |
| North Dakota .....               | 23,617        | 24,163        | 23,221        | 22,714         | 23,622        | 21,372        |
| Ohio .....                       | 10,010        | 10,065        | 8,595         | 9,890          | 9,930         | 8,340         |
| Oklahoma .....                   | 9,827         | 10,036        | 9,390         | 7,879          | 7,550         | 7,416         |
| Oregon .....                     | 2,080         | 1,997         | 1,905         | 2,042          | 1,934         | 1,878         |
| Pennsylvania .....               | 3,728         | 3,443         | 3,686         | 3,608          | 3,321         | 3,495         |
| Rhode Island .....               | 8             | 8             | 7             | 8              | 8             | 7             |
| South Carolina .....             | 1,544         | 1,498         | 1,428         | 1,492          | 1,368         | 1,015         |
| South Dakota .....               | 17,422        | 17,300        | 13,816        | 16,228         | 16,590        | 13,269        |
| Tennessee .....                  | 4,841         | 4,896         | 4,836         | 4,701          | 4,754         | 4,716         |
| Texas .....                      | 21,580        | 21,833        | 21,418        | 17,079         | 14,922        | 16,799        |
| Utah .....                       | 944           | 871           | 907           | 919            | 836           | 887           |
| Vermont .....                    | 267           | 255           | 241           | 261            | 249           | 237           |
| Virginia .....                   | 2,674         | 2,634         | 2,609         | 2,554          | 2,502         | 2,474         |
| Washington .....                 | 3,634         | 3,697         | 3,542         | 3,554          | 3,607         | 3,471         |
| West Virginia .....              | 652           | 617           | 567           | 646            | 609           | 565           |
| Wisconsin .....                  | 7,781         | 8,014         | 7,624         | 7,545          | 7,747         | 7,086         |
| Wyoming .....                    | 1,510         | 1,474         | 1,504         | 1,437          | 1,417         | 1,456         |
| United States <sup>2</sup> ..... | 318,340       | 319,305       | 302,635       | 301,779        | 299,244       | 284,949       |

<sup>1</sup> Data included in principle crop total beginning in 2018.

<sup>2</sup> States do not add to United States due to rye unallocated acreage.

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# **Corn Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2017-2019**

| State                            | Area planted for all purposes |               |               | Area harvested for grain |               |               |
|----------------------------------|-------------------------------|---------------|---------------|--------------------------|---------------|---------------|
|                                  | 2017                          | 2018          | 2019          | 2017                     | 2018          | 2019          |
|                                  | (1,000 acres)                 | (1,000 acres) | (1,000 acres) | (1,000 acres)            | (1,000 acres) | (1,000 acres) |
| Alabama .....                    | 250                           | 255           | 320           | 235                      | 245           | 305           |
| Arizona .....                    | 65                            | 80            | 90            | 32                       | 20            | 37            |
| Arkansas .....                   | 620                           | 660           | 770           | 595                      | 645           | 725           |
| California .....                 | 430                           | 430           | 460           | 80                       | 65            | 60            |
| Colorado .....                   | 1,460                         | 1,460         | 1,550         | 1,300                    | 1,190         | 1,300         |
| Connecticut <sup>1</sup> .....   | 24                            | 23            | 23            | (NA)                     | (NA)          | (NA)          |
| Delaware .....                   | 180                           | 170           | 185           | 171                      | 166           | 180           |
| Florida .....                    | 75                            | 95            | 90            | 37                       | 62            | 54            |
| Georgia .....                    | 290                           | 325           | 395           | 245                      | 285           | 350           |
| Idaho .....                      | 340                           | 350           | 385           | 115                      | 125           | 148           |
| Illinois .....                   | 11,200                        | 11,000        | 10,500        | 10,950                   | 10,800        | 10,200        |
| Indiana .....                    | 5,350                         | 5,300         | 5,000         | 5,200                    | 5,120         | 4,820         |
| Iowa .....                       | 13,300                        | 13,200        | 13,500        | 12,900                   | 12,750        | 13,050        |
| Kansas .....                     | 5,500                         | 5,450         | 6,400         | 5,200                    | 4,980         | 6,020         |
| Kentucky .....                   | 1,320                         | 1,330         | 1,550         | 1,220                    | 1,220         | 1,450         |
| Louisiana .....                  | 500                           | 460           | 570           | 490                      | 450           | 545           |
| Maine <sup>1</sup> .....         | 31                            | 30            | 29            | (NA)                     | (NA)          | (NA)          |
| Maryland .....                   | 480                           | 440           | 510           | 420                      | 380           | 460           |
| Massachusetts <sup>1</sup> ..... | 15                            | 14            | 14            | (NA)                     | (NA)          | (NA)          |
| Michigan .....                   | 2,250                         | 2,250         | 2,000         | 1,890                    | 1,890         | 1,610         |
| Minnesota .....                  | 8,050                         | 7,900         | 7,800         | 7,630                    | 7,460         | 7,260         |
| Mississippi .....                | 520                           | 480           | 660           | 500                      | 460           | 620           |
| Missouri .....                   | 3,400                         | 3,500         | 3,200         | 3,250                    | 3,330         | 2,990         |
| Montana .....                    | 115                           | 115           | 115           | 65                       | 68            | 60            |
| Nebraska .....                   | 9,550                         | 9,600         | 10,100        | 9,300                    | 9,300         | 9,810         |
| Nevada <sup>1</sup> .....        | 12                            | 13            | 15            | (NA)                     | (NA)          | (NA)          |
| New Hampshire <sup>1</sup> ..... | 14                            | 13            | 12            | (NA)                     | (NA)          | (NA)          |
| New Jersey .....                 | 77                            | 70            | 77            | 70                       | 60            | 68            |
| New Mexico .....                 | 125                           | 135           | 145           | 43                       | 35            | 46            |
| New York .....                   | 1,000                         | 1,070         | 1,020         | 485                      | 615           | 545           |
| North Carolina .....             | 890                           | 910           | 990           | 840                      | 830           | 930           |
| North Dakota .....               | 3,420                         | 3,150         | 3,500         | 3,230                    | 2,930         | 3,230         |
| Ohio .....                       | 3,400                         | 3,500         | 2,800         | 3,150                    | 3,300         | 2,570         |
| Oklahoma .....                   | 350                           | 310           | 370           | 305                      | 270           | 330           |
| Oregon .....                     | 85                            | 75            | 80            | 44                       | 40            | 48            |
| Pennsylvania .....               | 1,350                         | 1,300         | 1,450         | 920                      | 890           | 1,060         |
| Rhode Island <sup>1</sup> .....  | 2                             | 2             | 2             | (NA)                     | (NA)          | (NA)          |
| South Carolina .....             | 350                           | 340           | 380           | 325                      | 310           | 350           |
| South Dakota .....               | 5,700                         | 5,300         | 4,350         | 5,080                    | 4,860         | 3,910         |
| Tennessee .....                  | 750                           | 720           | 970           | 710                      | 670           | 910           |
| Texas .....                      | 2,450                         | 2,200         | 2,500         | 2,240                    | 1,750         | 2,150         |
| Utah .....                       | 80                            | 70            | 85            | 20                       | 22            | 26            |
| Vermont <sup>1</sup> .....       | 82                            | 85            | 81            | (NA)                     | (NA)          | (NA)          |
| Virginia .....                   | 500                           | 485           | 540           | 340                      | 325           | 380           |
| Washington .....                 | 170                           | 165           | 170           | 80                       | 85            | 90            |
| West Virginia .....              | 50                            | 46            | 52            | 33                       | 33            | 38            |
| Wisconsin .....                  | 3,900                         | 3,900         | 3,800         | 2,930                    | 3,170         | 2,680         |
| Wyoming .....                    | 95                            | 95            | 95            | 63                       | 70            | 67            |
| United States .....              | 90,167                        | 88,871        | 89,700        | 82,733                   | 81,276        | 81,482        |

See footnote(s) at end of table.

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**Corn Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2017-2019 (continued)**

| State                            | Yield per acre |           |           | Production      |                 |                 |
|----------------------------------|----------------|-----------|-----------|-----------------|-----------------|-----------------|
|                                  | 2017           | 2018      | 2019      | 2017            | 2018            | 2019            |
|                                  | (bushels)      | (bushels) | (bushels) | (1,000 bushels) | (1,000 bushels) | (1,000 bushels) |
| Alabama .....                    | 167.0          | 156.0     | 147.0     | 39,245          | 38,220          | 44,835          |
| Arizona .....                    | 195.0          | 220.0     | 231.0     | 6,240           | 4,400           | 8,547           |
| Arkansas .....                   | 183.0          | 181.0     | 175.0     | 108,885         | 116,745         | 126,875         |
| California .....                 | 167.0          | 173.0     | 168.0     | 13,360          | 11,245          | 10,080          |
| Colorado .....                   | 143.0          | 130.0     | 123.0     | 185,900         | 154,700         | 159,900         |
| Connecticut <sup>1</sup> .....   | (NA)           | (NA)      | (NA)      | (NA)            | (NA)            | (NA)            |
| Delaware .....                   | 189.0          | 145.0     | 161.0     | 32,319          | 24,070          | 28,980          |
| Florida .....                    | 161.0          | 157.0     | 161.0     | 5,957           | 9,734           | 8,694           |
| Georgia .....                    | 176.0          | 176.0     | 160.0     | 43,120          | 50,160          | 56,000          |
| Idaho .....                      | 203.0          | 213.0     | 205.0     | 23,345          | 26,625          | 30,340          |
| Illinois .....                   | 201.0          | 210.0     | 181.0     | 2,200,950       | 2,268,000       | 1,846,200       |
| Indiana .....                    | 180.0          | 189.0     | 169.0     | 936,000         | 967,680         | 814,580         |
| Iowa .....                       | 202.0          | 196.0     | 198.0     | 2,605,800       | 2,499,000       | 2,583,900       |
| Kansas .....                     | 132.0          | 129.0     | 133.0     | 686,400         | 642,420         | 800,660         |
| Kentucky .....                   | 178.0          | 175.0     | 169.0     | 217,160         | 213,500         | 245,050         |
| Louisiana .....                  | 184.0          | 173.0     | 165.0     | 90,160          | 77,850          | 89,925          |
| Maine <sup>1</sup> .....         | (NA)           | (NA)      | (NA)      | (NA)            | (NA)            | (NA)            |
| Maryland .....                   | 172.0          | 146.0     | 161.0     | 72,240          | 55,480          | 74,060          |
| Massachusetts <sup>1</sup> ..... | (NA)           | (NA)      | (NA)      | (NA)            | (NA)            | (NA)            |
| Michigan .....                   | 159.0          | 153.0     | 149.0     | 300,510         | 289,170         | 239,890         |
| Minnesota .....                  | 194.0          | 182.0     | 174.0     | 1,480,220       | 1,357,720       | 1,263,240       |
| Mississippi .....                | 189.0          | 185.0     | 174.0     | 94,500          | 85,100          | 107,880         |
| Missouri .....                   | 170.0          | 140.0     | 155.0     | 552,500         | 466,200         | 463,450         |
| Montana .....                    | 70.0           | 85.0      | 95.0      | 4,550           | 5,780           | 5,700           |
| Nebraska .....                   | 181.0          | 192.0     | 182.0     | 1,683,300       | 1,785,600       | 1,785,420       |
| Nevada <sup>1</sup> .....        | (NA)           | (NA)      | (NA)      | (NA)            | (NA)            | (NA)            |
| New Hampshire <sup>1</sup> ..... | (NA)           | (NA)      | (NA)      | (NA)            | (NA)            | (NA)            |
| New Jersey .....                 | 167.0          | 141.0     | 155.0     | 11,690          | 8,460           | 10,540          |
| New Mexico .....                 | 134.0          | 187.0     | 135.0     | 5,762           | 6,545           | 6,210           |
| New York .....                   | 161.0          | 159.0     | 158.0     | 78,085          | 97,785          | 86,110          |
| North Carolina .....             | 142.0          | 113.0     | 111.0     | 119,280         | 93,790          | 103,230         |
| North Dakota .....               | 139.0          | 153.0     | 141.0     | 448,970         | 448,290         | 455,430         |
| Ohio .....                       | 177.0          | 187.0     | 164.0     | 557,550         | 617,100         | 421,480         |
| Oklahoma .....                   | 126.0          | 134.0     | 137.0     | 38,430          | 36,180          | 45,210          |
| Oregon .....                     | 212.0          | 195.0     | 237.0     | 9,328           | 7,800           | 11,376          |
| Pennsylvania .....               | 161.0          | 140.0     | 153.0     | 148,120         | 124,600         | 162,180         |
| Rhode Island <sup>1</sup> .....  | (NA)           | (NA)      | (NA)      | (NA)            | (NA)            | (NA)            |
| South Carolina .....             | 136.0          | 127.0     | 106.0     | 44,200          | 39,370          | 37,100          |
| South Dakota .....               | 145.0          | 160.0     | 145.0     | 736,600         | 777,600         | 566,950         |
| Tennessee .....                  | 171.0          | 168.0     | 177.0     | 121,410         | 112,560         | 161,070         |
| Texas .....                      | 140.0          | 108.0     | 133.0     | 313,600         | 189,000         | 285,950         |
| Utah .....                       | 176.0          | 182.0     | 143.0     | 3,520           | 4,004           | 3,718           |
| Vermont <sup>1</sup> .....       | (NA)           | (NA)      | (NA)      | (NA)            | (NA)            | (NA)            |
| Virginia .....                   | 140.0          | 146.0     | 144.0     | 47,600          | 47,450          | 54,720          |
| Washington .....                 | 225.0          | 220.0     | 237.0     | 18,000          | 18,700          | 21,330          |
| West Virginia .....              | 152.0          | 152.0     | 165.0     | 5,016           | 5,016           | 6,270           |
| Wisconsin .....                  | 174.0          | 172.0     | 168.0     | 509,820         | 545,240         | 450,240         |
| Wyoming .....                    | 155.0          | 164.0     | 123.0     | 9,765           | 11,480          | 8,241           |
| United States .....              | 176.6          | 176.4     | 168.0     | 14,609,407      | 14,340,369      | 13,691,561      |

(NA) Not available.

<sup>1</sup> Area harvested for grain not estimated.

# Corn for Silage Area Harvested, Yield, and Production – States and United States: 2017-2019

| State                | Area harvested |               |               | Yield per acre |        |        | Production   |              |              |
|----------------------|----------------|---------------|---------------|----------------|--------|--------|--------------|--------------|--------------|
|                      | 2017           | 2018          | 2019          | 2017           | 2018   | 2019   | 2017         | 2018         | 2019         |
|                      | (1,000 acres)  | (1,000 acres) | (1,000 acres) | (tons)         | (tons) | (tons) | (1,000 tons) | (1,000 tons) | (1,000 tons) |
| Alabama .....        | 7              | 5             | 7             | 17.0           | 16.0   | 13.0   | 119          | 80           | 91           |
| Arizona .....        | 32             | 58            | 50            | 31.0           | 29.0   | 29.0   | 992          | 1,682        | 1,450        |
| Arkansas .....       | 2              | 3             | 7             | 19.0           | 21.0   | 16.0   | 38           | 63           | 112          |
| California .....     | 345            | 360           | 395           | 26.5           | 27.5   | 27.0   | 9,143        | 9,900        | 10,665       |
| Colorado .....       | 130            | 190           | 175           | 25.5           | 22.0   | 24.0   | 3,315        | 4,180        | 4,200        |
| Connecticut .....    | 20             | 20            | 21            | 19.5           | 19.0   | 21.0   | 390          | 380          | 441          |
| Delaware .....       | 7              | 3             | 4             | 19.5           | 24.0   | 23.0   | 137          | 72           | 92           |
| Florida .....        | 35             | 30            | 35            | 19.0           | 21.0   | 20.0   | 665          | 630          | 700          |
| Georgia .....        | 35             | 30            | 25            | 16.0           | 21.0   | 22.0   | 560          | 630          | 550          |
| Idaho .....          | 220            | 220           | 235           | 30.0           | 30.0   | 28.0   | 6,600        | 6,600        | 6,580        |
| Illinois .....       | 190            | 100           | 170           | 17.0           | 20.0   | 20.0   | 3,230        | 2,000        | 3,400        |
| Indiana .....        | 110            | 100           | 110           | 21.0           | 21.0   | 20.0   | 2,310        | 2,100        | 2,200        |
| Iowa .....           | 330            | 270           | 360           | 21.0           | 20.5   | 22.0   | 6,930        | 5,535        | 7,920        |
| Kansas .....         | 250            | 390           | 250           | 21.5           | 13.5   | 17.5   | 5,375        | 5,265        | 4,375        |
| Kentucky .....       | 85             | 90            | 80            | 20.0           | 21.0   | 21.0   | 1,700        | 1,890        | 1,680        |
| Louisiana .....      | 1              | 2             | 3             | 20.0           | 20.0   | 19.0   | 20           | 40           | 57           |
| Maine .....          | 27             | 27            | 26            | 18.0           | 20.0   | 19.0   | 486          | 540          | 494          |
| Maryland .....       | 50             | 45            | 40            | 20.5           | 19.0   | 22.0   | 1,025        | 855          | 880          |
| Massachusetts .....  | 12             | 12            | 11            | 19.0           | 20.0   | 20.0   | 228          | 240          | 220          |
| Michigan .....       | 340            | 340           | 340           | 18.5           | 17.5   | 18.5   | 6,290        | 5,950        | 6,290        |
| Minnesota .....      | 360            | 340           | 460           | 21.5           | 22.0   | 19.0   | 7,740        | 7,480        | 8,740        |
| Mississippi .....    | 7              | 7             | 7             | 18.0           | 15.0   | 15.0   | 126          | 105          | 105          |
| Missouri .....       | 70             | 100           | 70            | 15.0           | 13.0   | 16.0   | 1,050        | 1,300        | 1,120        |
| Montana .....        | 25             | 37            | 50            | 20.0           | 20.0   | 23.0   | 500          | 740          | 1,150        |
| Nebraska .....       | 210            | 220           | 200           | 19.5           | 21.0   | 23.0   | 4,095        | 4,620        | 4,600        |
| Nevada .....         | 10             | 7             | 12            | 24.0           | 26.0   | 25.0   | 240          | 182          | 300          |
| New Hampshire .....  | 13             | 12            | 11            | 20.0           | 21.0   | 20.0   | 260          | 252          | 220          |
| New Jersey .....     | 6              | 6             | 7             | 19.5           | 19.0   | 22.0   | 117          | 114          | 154          |
| New Mexico .....     | 80             | 95            | 90            | 25.0           | 22.0   | 20.0   | 2,000        | 2,090        | 1,800        |
| New York .....       | 495            | 445           | 445           | 18.0           | 19.0   | 18.0   | 8,910        | 8,455        | 8,010        |
| North Carolina ..... | 40             | 50            | 50            | 18.0           | 16.0   | 18.0   | 720          | 800          | 900          |
| North Dakota .....   | 160            | 170           | 140           | 10.0           | 15.0   | 19.5   | 1,600        | 2,550        | 2,730        |
| Ohio .....           | 210            | 160           | 170           | 20.0           | 20.0   | 19.0   | 4,200        | 3,200        | 3,230        |
| Oklahoma .....       | 20             | 20            | 20            | 20.0           | 11.0   | 13.0   | 400          | 220          | 260          |
| Oregon .....         | 40             | 34            | 35            | 24.0           | 23.0   | 24.0   | 960          | 782          | 840          |
| Pennsylvania .....   | 420            | 390           | 380           | 21.5           | 19.0   | 20.0   | 9,030        | 7,410        | 7,600        |
| Rhode Island .....   | 2              | 2             | 2             | 18.0           | 21.0   | 20.0   | 36           | 42           | 40           |
| South Carolina ..... | 16             | 19            | 13            | 18.0           | 14.0   | 14.0   | 288          | 266          | 182          |
| South Dakota .....   | 510            | 360           | 340           | 12.5           | 16.5   | 17.5   | 6,375        | 5,940        | 5,950        |
| Tennessee .....      | 30             | 38            | 40            | 22.0           | 19.0   | 20.0   | 660          | 722          | 800          |
| Texas .....          | 150            | 270           | 280           | 22.0           | 16.0   | 20.0   | 3,300        | 4,320        | 5,600        |
| Utah .....           | 56             | 45            | 55            | 25.0           | 23.0   | 24.0   | 1,400        | 1,035        | 1,320        |
| Vermont .....        | 76             | 79            | 77            | 16.5           | 19.0   | 18.0   | 1,254        | 1,501        | 1,386        |
| Virginia .....       | 135            | 135           | 135           | 18.0           | 19.0   | 19.0   | 2,430        | 2,565        | 2,565        |
| Washington .....     | 90             | 80            | 80            | 27.0           | 26.0   | 23.0   | 2,430        | 2,080        | 1,840        |
| West Virginia .....  | 16             | 11            | 12            | 20.0           | 19.0   | 20.0   | 320          | 209          | 240          |
| Wisconsin .....      | 880            | 670           | 1,040         | 19.0           | 20.0   | 17.5   | 16,720       | 13,400       | 18,200       |
| Wyoming .....        | 30             | 23            | 22            | 24.0           | 24.0   | 24.0   | 720          | 552          | 528          |
| United States .....  | 6,385          | 6,120         | 6,587         | 20.0           | 19.9   | 20.2   | 127,434      | 121,564      | 132,807      |

## Corn for Grain Objective Yield Data

The National Agricultural Statistics Service conducted objective yield surveys in 10 corn producing States during 2019. Randomly selected plots in corn for grain fields were visited monthly from September through harvest to obtain specific counts and measurements. Data in this table are rounded actual field counts from this survey.

### Corn for Grain Plant Population per Acre – Selected States: 2015-2019

| State and month  | 2015     | 2016     | 2017     | 2018     | 2019     | State and month     | 2015     | 2016     | 2017     | 2018     | 2019     |
|------------------|----------|----------|----------|----------|----------|---------------------|----------|----------|----------|----------|----------|
| (number)         | (number) | (number) | (number) | (number) | (number) | (number)            | (number) | (number) | (number) | (number) | (number) |
| <b>Illinois</b>  |          |          |          |          |          | <b>Nebraska</b>     |          |          |          |          |          |
| September .....  | 31,800   | 31,100   | 30,800   | 32,000   | 31,100   | All corn            |          |          |          |          |          |
| October .....    | 31,750   | 31,100   | 30,900   | 32,000   | 30,950   | September ....      | 26,650   | 25,900   | 25,950   | 27,100   | 25,850   |
| November .....   | 31,750   | 31,100   | 30,950   | 32,000   | 30,900   | October .....       | 26,750   | 25,950   | 25,800   | 26,750   | 25,850   |
| Final .....      | 31,750   | 31,100   | 30,950   | 32,000   | 30,900   | November .....      | 26,700   | 26,000   | 25,700   | 26,750   | 25,700   |
|                  |          |          |          |          |          | Final .....         | 26,700   | 26,000   | 25,700   | 26,750   | 25,700   |
| <b>Indiana</b>   |          |          |          |          |          | Irrigated           |          |          |          |          |          |
| September .....  | 30,400   | 30,200   | 29,550   | 30,450   | 29,300   | September ....      | 29,100   | 28,200   | 29,050   | 30,300   | 28,300   |
| October .....    | 30,100   | 29,950   | 29,350   | 30,400   | 29,050   | October .....       | 29,300   | 28,200   | 29,000   | 29,900   | 28,350   |
| November .....   | 30,000   | 29,800   | 29,200   | 30,400   | 29,000   | November .....      | 29,250   | 28,300   | 28,750   | 29,900   | 28,300   |
| Final .....      | 29,950   | 29,800   | 29,200   | 30,400   | 28,950   | Final .....         | 29,250   | 28,300   | 28,750   | 29,900   | 28,300   |
| <b>Iowa</b>      |          |          |          |          |          | Non-irrigated       |          |          |          |          |          |
| September .....  | 31,500   | 31,250   | 31,300   | 31,350   | 30,850   | September ....      | 23,500   | 22,900   | 22,500   | 23,350   | 23,300   |
| October .....    | 31,450   | 31,050   | 31,150   | 31,150   | 30,800   | October .....       | 23,550   | 23,000   | 22,200   | 23,100   | 23,250   |
| November .....   | 31,450   | 31,050   | 31,150   | 31,100   | 30,750   | November .....      | 23,550   | 23,000   | 22,250   | 23,150   | 23,000   |
| Final .....      | 31,450   | 31,050   | 31,150   | 31,100   | 30,750   | Final .....         | 23,550   | 23,000   | 22,250   | 23,150   | 23,000   |
| <b>Kansas</b>    |          |          |          |          |          | <b>Ohio</b>         |          |          |          |          |          |
| September .....  | 23,400   | 22,550   | 22,050   | 22,600   | 21,350   | September .....     | 30,000   | 30,250   | 29,250   | 30,550   | 30,050   |
| October .....    | 23,750   | 22,550   | 22,100   | 22,450   | 21,200   | October .....       | 30,000   | 30,100   | 29,150   | 30,400   | 30,100   |
| November .....   | 23,800   | 22,550   | 22,300   | 22,450   | 21,200   | November .....      | 29,950   | 30,250   | 29,100   | 30,400   | 30,000   |
| Final .....      | 23,800   | 22,550   | 22,300   | 22,450   | 21,200   | Final .....         | 29,950   | 30,250   | 29,100   | 30,400   | 30,000   |
| <b>Minnesota</b> |          |          |          |          |          | <b>South Dakota</b> |          |          |          |          |          |
| September .....  | 30,650   | 30,800   | 30,750   | 30,950   | 30,700   | September .....     | 26,350   | 26,200   | 26,250   | 27,000   | 26,400   |
| October .....    | 30,750   | 30,700   | 30,550   | 30,900   | 30,650   | October .....       | 26,250   | 26,100   | 26,200   | 26,750   | 26,100   |
| November .....   | 30,750   | 30,550   | 30,600   | 30,900   | 30,550   | November .....      | 26,200   | 26,000   | 26,200   | 27,000   | 26,000   |
| Final .....      | 30,750   | 30,550   | 30,600   | 30,900   | 30,650   | Final .....         | 26,200   | 26,000   | 26,200   | 27,000   | 25,900   |
| <b>Missouri</b>  |          |          |          |          |          | <b>Wisconsin</b>    |          |          |          |          |          |
| September .....  | 27,900   | 27,300   | 27,850   | 28,500   | 28,200   | September .....     | 29,900   | 30,100   | 29,450   | 31,000   | 30,250   |
| October .....    | 27,600   | 27,750   | 27,850   | 28,400   | 27,500   | October .....       | 29,700   | 29,900   | 29,100   | 30,600   | 30,150   |
| November .....   | 27,600   | 27,800   | 27,950   | 28,400   | 27,600   | November .....      | 29,450   | 29,800   | 29,150   | 30,650   | 29,750   |
| Final .....      | 27,600   | 27,800   | 27,950   | 28,400   | 27,600   | Final .....         | 29,450   | 29,800   | 29,100   | 30,650   | 29,850   |
|                  |          |          |          |          |          | <b>10 State</b>     |          |          |          |          |          |
|                  |          |          |          |          |          | September .....     | 29,550   | 29,050   | 28,800   | 29,500   | 28,650   |
|                  |          |          |          |          |          | October .....       | 29,500   | 28,950   | 28,700   | 29,350   | 28,500   |
|                  |          |          |          |          |          | November .....      | 29,450   | 28,950   | 28,700   | 29,400   | 28,450   |
|                  |          |          |          |          |          | Final .....         | 29,450   | 28,950   | 28,700   | 29,350   | 28,450   |

# **Corn for Grain Number of Ears per Acre – Selected States: 2015-2019**

| State and month  | 2015     | 2016     | 2017     | 2018     | 2019     | State and month      | 2015     | 2016     | 2017     | 2018     | 2019     |
|------------------|----------|----------|----------|----------|----------|----------------------|----------|----------|----------|----------|----------|
|                  | (number) | (number) | (number) | (number) | (number) |                      | (number) | (number) | (number) | (number) | (number) |
| <b>Illinois</b>  |          |          |          |          |          | <b>Nebraska</b>      |          |          |          |          |          |
| September .....  | 30,800   | 30,350   | 30,200   | 31,550   | 30,300   | All corn             |          |          |          |          |          |
| October .....    | 30,750   | 30,450   | 30,300   | 31,500   | 30,300   | September ...        | 26,650   | 25,700   | 25,800   | 27,100   | 25,850   |
| November .....   | 30,800   | 30,450   | 30,250   | 31,500   | 30,150   | October .....        | 26,700   | 25,350   | 26,050   | 26,750   | 25,950   |
| Final .....      | 30,800   | 30,450   | 30,250   | 31,500   | 30,150   | November ....        | 26,700   | 25,400   | 25,950   | 26,800   | 25,700   |
|                  |          |          |          |          |          | Final .....          | 26,700   | 25,400   | 25,950   | 26,800   | 25,700   |
| <b>Indiana</b>   |          |          |          |          |          | <b>Irrigated</b>     |          |          |          |          |          |
| September .....  | 29,550   | 29,600   | 28,900   | 30,000   | 28,900   | September ...        | 29,000   | 27,850   | 28,650   | 29,950   | 28,200   |
| October .....    | 29,300   | 29,400   | 29,100   | 29,800   | 28,700   | October .....        | 29,250   | 27,500   | 28,950   | 29,350   | 28,150   |
| November .....   | 29,250   | 29,250   | 28,850   | 29,750   | 28,650   | November ....        | 29,200   | 27,550   | 28,750   | 29,300   | 28,000   |
| Final .....      | 29,150   | 29,250   | 28,850   | 29,750   | 28,600   | Final .....          | 29,200   | 27,550   | 28,750   | 29,300   | 28,000   |
| <b>Iowa</b>      |          |          |          |          |          | <b>Non-irrigated</b> |          |          |          |          |          |
| September .....  | 30,950   | 30,550   | 30,600   | 31,150   | 30,250   | September ...        | 23,650   | 22,850   | 22,600   | 23,850   | 23,500   |
| October .....    | 30,800   | 30,400   | 30,600   | 30,900   | 30,200   | October .....        | 23,550   | 22,550   | 22,800   | 23,650   | 23,700   |
| November .....   | 30,850   | 30,500   | 30,600   | 30,800   | 30,100   | November ....        | 23,550   | 22,550   | 22,900   | 23,850   | 23,400   |
| Final .....      | 30,850   | 30,500   | 30,600   | 30,800   | 30,100   | Final .....          | 23,550   | 22,550   | 22,900   | 23,850   | 23,400   |
| <b>Kansas</b>    |          |          |          |          |          | <b>Ohio</b>          |          |          |          |          |          |
| September .....  | 23,300   | 22,650   | 22,800   | 22,350   | 21,550   | September ....       | 29,650   | 29,750   | 29,500   | 30,750   | 29,850   |
| October .....    | 23,700   | 22,450   | 22,600   | 21,650   | 22,250   | October .....        | 29,650   | 29,200   | 29,250   | 30,300   | 29,750   |
| November .....   | 23,650   | 22,450   | 22,650   | 21,700   | 22,200   | November ....        | 29,600   | 29,600   | 29,150   | 30,300   | 29,550   |
| Final .....      | 23,650   | 22,450   | 22,650   | 21,700   | 22,200   | Final .....          | 29,600   | 29,600   | 29,150   | 30,300   | 29,550   |
| <b>Minnesota</b> |          |          |          |          |          | <b>South Dakota</b>  |          |          |          |          |          |
| September .....  | 30,500   | 30,550   | 30,750   | 30,850   | 30,050   | September ....       | 26,200   | 25,650   | 26,250   | 28,100   | 26,450   |
| October .....    | 30,400   | 30,350   | 30,850   | 30,850   | 29,800   | October .....        | 25,900   | 25,350   | 26,150   | 27,750   | 25,300   |
| November .....   | 30,450   | 30,250   | 30,850   | 30,800   | 29,650   | November ....        | 25,750   | 25,450   | 26,200   | 27,950   | 25,000   |
| Final .....      | 30,450   | 30,250   | 30,600   | 30,800   | 29,700   | Final .....          | 25,750   | 25,450   | 25,850   | 28,050   | 24,900   |
| <b>Missouri</b>  |          |          |          |          |          | <b>Wisconsin</b>     |          |          |          |          |          |
| September .....  | 27,350   | 26,900   | 27,750   | 27,400   | 26,950   | September ....       | 29,500   | 29,300   | 28,950   | 30,700   | 29,850   |
| October .....    | 26,900   | 27,150   | 27,800   | 27,300   | 26,950   | October .....        | 28,950   | 28,900   | 28,800   | 30,450   | 30,250   |
| November .....   | 26,850   | 27,150   | 27,850   | 27,300   | 27,100   | November ....        | 28,600   | 28,750   | 28,600   | 30,450   | 29,850   |
| Final .....      | 26,850   | 27,150   | 27,850   | 27,300   | 27,100   | Final .....          | 28,600   | 28,750   | 28,550   | 30,450   | 29,950   |
|                  |          |          |          |          |          | <b>10-State</b>      |          |          |          |          |          |
|                  |          |          |          |          |          | September ....       | 29,050   | 28,550   | 28,550   | 29,350   | 28,200   |
|                  |          |          |          |          |          | October .....        | 28,950   | 28,350   | 28,550   | 29,100   | 28,200   |
|                  |          |          |          |          |          | November ....        | 28,900   | 28,400   | 28,500   | 29,100   | 28,050   |
|                  |          |          |          |          |          | Final .....          | 28,900   | 28,400   | 28,450   | 29,100   | 28,050   |

# **Corn for Grain Percentage Distribution by Plant Population per Acre – Selected States: 2015-2019**

| State and year          | Plant populations   |                   |                   |                   |                   |                     |
|-------------------------|---------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
|                         | Less than<br>20,000 | 20,000-<br>22,500 | 22,501-<br>25,000 | 25,001-<br>27,500 | 27,501-<br>30,000 | More than<br>30,000 |
|                         | (Percent)           | (Percent)         | (Percent)         | (Percent)         | (Percent)         | (Percent)           |
| Illinois ..... 2015     | -                   | 1.3               | 1.8               | 7.9               | 17.2              | 71.8                |
| ..... 2016              | 0.9                 | 0.5               | 4.3               | 11.8              | 18.0              | 64.5                |
| ..... 2017              | 0.5                 | 1.4               | 3.8               | 11.5              | 20.6              | 62.2                |
| ..... 2018              | -                   | 0.9               | 1.4               | 6.6               | 15.6              | 75.5                |
| ..... 2019              | 0.9                 | 2.8               | 3.7               | 9.3               | 18.7              | 64.6                |
| Indiana ..... 2015      | 4.6                 | 1.5               | 4.6               | 11.5              | 20.8              | 57.0                |
| ..... 2016              | 1.7                 | 1.7               | 8.3               | 11.6              | 19.8              | 56.9                |
| ..... 2017              | 5.7                 | 4.9               | 6.5               | 13.0              | 21.1              | 48.8                |
| ..... 2018              | 1.5                 | 0.8               | 2.3               | 10.7              | 27.5              | 57.2                |
| ..... 2019              | 5.6                 | 5.6               | 5.6               | 11.1              | 24.1              | 48.0                |
| Iowa ..... 2015         | 0.4                 | 0.8               | 2.4               | 4.9               | 15.5              | 76.0                |
| ..... 2016              | 0.4                 | 1.8               | 2.2               | 8.9               | 22.7              | 64.0                |
| ..... 2017              | 1.3                 | 3.4               | 2.1               | 5.9               | 13.5              | 73.8                |
| ..... 2018              | 0.4                 | 1.7               | 3.3               | 6.3               | 19.2              | 69.1                |
| ..... 2019              | 0.8                 | 0.8               | 3.8               | 9.0               | 21.1              | 64.5                |
| Kansas ..... 2015       | 20.2                | 18.2              | 11.1              | 27.2              | 6.1               | 17.2                |
| ..... 2016              | 27.9                | 14.8              | 19.4              | 12.0              | 17.6              | 8.3                 |
| ..... 2017              | 24.3                | 21.2              | 17.2              | 21.2              | 12.1              | 4.0                 |
| ..... 2018              | 33.0                | 12.4              | 12.4              | 14.4              | 7.2               | 20.6                |
| ..... 2019              | 39.9                | 8.0               | 12.0              | 14.7              | 14.7              | 10.7                |
| Minnesota ..... 2015    | -                   | 1.6               | 3.1               | 11.0              | 22.8              | 61.5                |
| ..... 2016              | 0.8                 | 3.0               | 4.5               | 11.4              | 21.2              | 59.1                |
| ..... 2017              | 2.8                 | 4.7               | 5.6               | 7.5               | 12.1              | 67.3                |
| ..... 2018              | -                   | 1.7               | 8.7               | 6.1               | 13.9              | 69.6                |
| ..... 2019              | 1.4                 | 4.2               | 8.3               | 2.8               | 25.0              | 58.3                |
| Missouri ..... 2015     | 6.6                 | 3.3               | 15.4              | 28.5              | 25.3              | 20.9                |
| ..... 2016              | 3.0                 | 6.0               | 14.0              | 28.0              | 23.0              | 26.0                |
| ..... 2017              | 1.9                 | 1.0               | 15.5              | 26.2              | 26.2              | 29.2                |
| ..... 2018              | 2.2                 | 6.5               | 8.6               | 20.4              | 28.0              | 34.3                |
| ..... 2019              | 2.8                 | 8.3               | 16.7              | 22.2              | 16.7              | 33.3                |
| Nebraska ..... 2015     | 8.4                 | 7.8               | 15.6              | 16.8              | 21.2              | 30.2                |
| ..... 2016              | 9.6                 | 10.1              | 16.3              | 20.2              | 19.7              | 24.1                |
| ..... 2017              | 16.8                | 6.3               | 12.6              | 19.4              | 17.8              | 27.1                |
| ..... 2018              | 12.0                | 4.9               | 7.1               | 16.4              | 25.1              | 34.5                |
| ..... 2019              | 15.1                | 12.3              | 12.3              | 17.9              | 19.8              | 22.6                |
| Ohio ..... 2015         | 4.4                 | 1.8               | 2.7               | 8.0               | 21.2              | 61.9                |
| ..... 2016              | 1.9                 | 2.9               | 1.0               | 9.6               | 26.9              | 57.7                |
| ..... 2017              | 2.7                 | 4.4               | 7.1               | 15.0              | 25.7              | 45.1                |
| ..... 2018              | 1.0                 | 3.9               | 3.9               | 7.8               | 23.5              | 59.9                |
| ..... 2019              | -                   | 4.3               | 4.3               | 12.8              | 19.1              | 59.5                |
| South Dakota ..... 2015 | 12.1                | 5.5               | 17.6              | 20.9              | 26.3              | 17.6                |
| ..... 2016              | 13.2                | 5.3               | 17.1              | 26.3              | 18.4              | 19.7                |
| ..... 2017              | 8.1                 | 13.5              | 16.2              | 16.2              | 25.7              | 20.3                |
| ..... 2018              | 7.4                 | 12.6              | 11.6              | 18.9              | 21.1              | 28.4                |
| ..... 2019              | 9.3                 | 7.0               | 23.3              | 23.3              | 30.1              | 7.0                 |
| Wisconsin ..... 2015    | 2.4                 | 2.4               | 7.3               | 14.6              | 23.2              | 50.1                |
| ..... 2016              | 2.4                 | 4.9               | 3.7               | 11.0              | 18.3              | 59.7                |
| ..... 2017              | 3.9                 | 2.6               | 6.6               | 19.7              | 21.1              | 46.1                |
| ..... 2018              | 2.0                 | 2.0               | -                 | 7.9               | 19.8              | 68.3                |
| ..... 2019              | -                   | -                 | 9.4               | 15.6              | 25.0              | 50.0                |

- Represents zero.

# **Corn for Grain Frequency of Farmer Reported Row Widths – Selected States: 2015-2019**

| State and year     | Row width (inches) |          |          |          |              |   |
|--------------------|--------------------|----------|----------|----------|--------------|---|
|                    | Less than 30       | 30       | 36       | 38       | More than 38 |   |
|                    | (number)           | (number) | (number) | (number) | (number)     |   |
| Illinois .....     | 2015               | 11       | 222      | 1        | 1            | - |
|                    | 2016               | 6        | 218      | -        | 1            | - |
|                    | 2017               | 6        | 210      | 4        | 1            | - |
|                    | 2018               | 9        | 211      | -        | -            | - |
|                    | 2019               | 2        | 110      | 1        | -            | - |
| Indiana .....      | 2015               | 8        | 124      | 3        | 1            | - |
|                    | 2016               | 8        | 118      | 1        | 1            | 1 |
|                    | 2017               | 7        | 117      | -        | -            | - |
|                    | 2018               | 9        | 126      | 1        | 1            | - |
|                    | 2019               | 4        | 53       | 1        | -            | - |
| Iowa .....         | 2015               | 7        | 241      | 3        | 1            | - |
|                    | 2016               | 12       | 213      | 4        | 4            | - |
|                    | 2017               | 2        | 236      | 3        | 3            | - |
|                    | 2018               | 12       | 234      | 2        | 1            | - |
|                    | 2019               | 3        | 136      | -        | 1            | - |
| Kansas .....       | 2015               | 2        | 105      | 3        | -            | - |
|                    | 2016               | 8        | 105      | -        | -            | - |
|                    | 2017               | 2        | 106      | 2        | -            | - |
|                    | 2018               | 10       | 91       | -        | -            | - |
|                    | 2019               | 9        | 70       | -        | -            | - |
| Minnesota .....    | 2015               | 29       | 118      | 1        | -            | - |
|                    | 2016               | 27       | 113      | 2        | -            | - |
|                    | 2017               | 27       | 89       | 2        | -            | - |
|                    | 2018               | 21       | 97       | 3        | 2            | - |
|                    | 2019               | 15       | 63       | 3        | 1            | - |
| Missouri .....     | 2015               | 2        | 101      | 2        | 1            | - |
|                    | 2016               | 5        | 96       | 1        | 2            | - |
|                    | 2017               | 3        | 101      | 5        | 2            | - |
|                    | 2018               | 5        | 90       | 1        | 2            | 1 |
|                    | 2019               | 5        | 30       | 1        | 2            | - |
| Nebraska .....     | 2015               | 5        | 166      | 18       | -            | - |
|                    | 2016               | -        | 162      | 23       | -            | - |
|                    | 2017               | 2        | 169      | 23       | 2            | - |
|                    | 2018               | 6        | 160      | 25       | -            | - |
|                    | 2019               | 3        | 98       | 15       | -            | - |
| Ohio .....         | 2015               | 2        | 110      | 4        | 1            | 2 |
|                    | 2016               | 4        | 105      | -        | 1            | - |
|                    | 2017               | 2        | 109      | 1        | 1            | - |
|                    | 2018               | 3        | 100      | -        | -            | - |
|                    | 2019               | 2        | 45       | 1        | -            | - |
| South Dakota ..... | 2015               | 13       | 78       | 1        | 2            | - |
|                    | 2016               | 5        | 71       | 4        | 1            | 2 |
|                    | 2017               | 6        | 75       | 1        | 1            | - |
|                    | 2018               | 8        | 92       | 2        | 2            | - |
|                    | 2019               | 5        | 45       | -        | 1            | - |
| Wisconsin .....    | 2015               | 4        | 91       | 3        | 1            | 1 |
|                    | 2016               | 2        | 84       | 2        | 2            | - |
|                    | 2017               | 4        | 83       | 5        | 1            | - |
|                    | 2018               | 4        | 108      | 4        | 2            | - |
|                    | 2019               | 1        | 39       | -        | -            | - |

- Represents zero.

**Corn for Grain Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2015-2019**

| State and year     | Samples  | Row width (inches) |           |           |           |           |                 | Average row width |      |
|--------------------|----------|--------------------|-----------|-----------|-----------|-----------|-----------------|-------------------|------|
|                    |          | 20.5 or less       | 20.6-30.5 | 30.6-34.5 | 34.6-36.5 | 36.6-38.5 | 38.6 or greater |                   |      |
|                    | (number) | (percent)          | (percent) | (percent) | (percent) | (percent) | (percent)       | (inches)          |      |
| Illinois .....     | 2015     | 227                | 4.0       | 78.9      | 16.7      | -         | 0.4             | -                 | 29.7 |
|                    | 2016     | 211                | 2.4       | 87.6      | 9.5       | -         | -               | 0.5               | 29.8 |
|                    | 2017     | 209                | 1.4       | 85.1      | 12.0      | 0.5       | 0.5             | 0.5               | 30.1 |
|                    | 2018     | 212                | 1.9       | 87.7      | 10.4      | -         | -               | -                 | 29.9 |
|                    | 2019     | 107                | -         | 83.2      | 15.9      | 0.9       | -               | -                 | 30.2 |
| Indiana .....      | 2015     | 130                | 4.6       | 77.7      | 13.1      | 1.5       | 2.3             | 0.8               | 29.8 |
|                    | 2016     | 121                | 3.3       | 72.7      | 22.3      | 1.7       | -               | -                 | 29.8 |
|                    | 2017     | 123                | 2.4       | 78.9      | 17.9      | 0.8       | -               | -                 | 29.8 |
|                    | 2018     | 131                | 6.1       | 71.7      | 19.8      | 0.8       | 0.8             | 0.8               | 29.8 |
|                    | 2019     | 54                 | 1.9       | 77.7      | 18.5      | -         | 1.9             | -                 | 30.2 |
| Iowa .....         | 2015     | 245                | 2.4       | 76.8      | 19.2      | 1.6       | -               | -                 | 30.0 |
|                    | 2016     | 225                | 2.2       | 76.9      | 19.1      | 0.9       | 0.9             | -                 | 30.0 |
|                    | 2017     | 237                | 0.8       | 76.4      | 19.0      | 0.4       | 3.0             | 0.4               | 30.4 |
|                    | 2018     | 239                | 3.8       | 77.4      | 17.2      | 0.8       | 0.8             | -                 | 29.9 |
|                    | 2019     | 133                | 1.5       | 78.1      | 18.8      | 0.8       | 0.8             | -                 | 30.0 |
| Kansas .....       | 2015     | 99                 | 2.0       | 74.8      | 20.2      | 2.0       | 1.0             | -                 | 30.2 |
|                    | 2016     | 108                | 4.6       | 85.2      | 10.2      | -         | -               | -                 | 29.6 |
|                    | 2017     | 99                 | 2.0       | 75.8      | 21.2      | -         | -               | 1.0               | 30.1 |
|                    | 2018     | 97                 | 3.1       | 76.3      | 20.6      | -         | -               | -                 | 29.7 |
|                    | 2019     | 75                 | 4.0       | 81.3      | 14.7      | -         | -               | -                 | 29.9 |
| Minnesota .....    | 2015     | 127                | 3.1       | 85.9      | 10.2      | 0.8       | -               | -                 | 28.5 |
|                    | 2016     | 132                | 2.3       | 78.0      | 17.4      | 0.8       | 1.5             | -                 | 28.8 |
|                    | 2017     | 107                | 4.7       | 81.4      | 8.4       | 0.9       | 3.7             | 0.9               | 28.9 |
|                    | 2018     | 115                | 1.7       | 82.6      | 11.3      | 2.6       | 0.9             | 0.9               | 29.3 |
|                    | 2019     | 72                 | 5.6       | 72.1      | 18.1      | 4.2       | -               | -                 | 29.0 |
| Missouri .....     | 2015     | 91                 | -         | 73.6      | 24.2      | -         | 2.2             | -                 | 30.4 |
|                    | 2016     | 100                | 1.0       | 76.0      | 20.0      | 1.0       | 2.0             | -                 | 30.0 |
|                    | 2017     | 103                | 1.9       | 66.1      | 25.2      | 3.9       | 1.0             | 1.9               | 30.4 |
|                    | 2018     | 93                 | 1.1       | 76.2      | 18.3      | 2.2       | 1.1             | 1.1               | 30.1 |
|                    | 2019     | 36                 | 2.8       | 74.9      | 13.9      | 2.8       | 5.6             | -                 | 30.2 |
| Nebraska .....     | 2015     | 179                | 2.2       | 71.6      | 15.1      | 8.9       | 2.2             | -                 | 30.7 |
|                    | 2016     | 178                | -         | 65.2      | 20.2      | 9.0       | 4.5             | 1.1               | 31.2 |
|                    | 2017     | 191                | -         | 70.7      | 15.7      | 9.4       | 4.2             | -                 | 31.0 |
|                    | 2018     | 183                | 1.6       | 65.6      | 15.3      | 12.6      | 4.9             | -                 | 31.2 |
|                    | 2019     | 106                | 1.9       | 71.7      | 14.2      | 11.3      | 0.9             | -                 | 30.8 |
| Ohio .....         | 2015     | 113                | 1.8       | 74.2      | 20.4      | 2.7       | -               | 0.9               | 30.4 |
|                    | 2016     | 104                | 4.8       | 81.7      | 10.6      | 1.9       | 1.0             | -                 | 29.8 |
|                    | 2017     | 113                | 0.9       | 83.2      | 15.0      | 0.9       | -               | -                 | 30.0 |
|                    | 2018     | 102                | 2.9       | 79.5      | 17.6      | -         | -               | -                 | 29.9 |
|                    | 2019     | 47                 | 4.3       | 87.2      | 6.4       | 2.1       | -               | -                 | 29.8 |
| South Dakota ..... | 2015     | 91                 | 3.3       | 72.5      | 19.8      | 2.2       | 2.2             | -                 | 29.7 |
|                    | 2016     | 76                 | 2.6       | 64.6      | 26.3      | 3.9       | 1.3             | 1.3               | 30.4 |
|                    | 2017     | 74                 | 8.1       | 62.1      | 28.4      | -         | 1.4             | -                 | 29.6 |
|                    | 2018     | 95                 | 5.3       | 69.4      | 20.0      | 2.1       | 2.1             | 1.1               | 30.0 |
|                    | 2019     | 43                 | 4.7       | 67.4      | 25.6      | -         | 2.3             | -                 | 30.0 |
| Wisconsin .....    | 2015     | 82                 | 2.4       | 63.5      | 30.5      | 2.4       | -               | 1.2               | 30.0 |
|                    | 2016     | 82                 | 1.2       | 72.0      | 22.0      | 1.2       | 1.2             | 2.4               | 30.5 |
|                    | 2017     | 75                 | 1.3       | 61.5      | 29.3      | 5.3       | 1.3             | 1.3               | 30.6 |
|                    | 2018     | 101                | -         | 75.2      | 21.8      | -         | 3.0             | -                 | 30.2 |
|                    | 2019     | 32                 | 3.1       | 84.4      | 12.5      | -         | -               | -                 | 29.6 |

- Represents zero.

# Sorghum Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2017-2019

| State                             | Area planted for all purposes |               |               | Area harvested for grain |                 |                 |
|-----------------------------------|-------------------------------|---------------|---------------|--------------------------|-----------------|-----------------|
|                                   | 2017                          | 2018          | 2019          | 2017                     | 2018            | 2019            |
|                                   | (1,000 acres)                 | (1,000 acres) | (1,000 acres) | (1,000 acres)            | (1,000 acres)   | (1,000 acres)   |
| Arkansas <sup>1</sup> .....       | 9                             | 12            | (NA)          | 7                        | 10              | (NA)            |
| Colorado .....                    | 410                           | 355           | 365           | 360                      | 325             | 310             |
| Georgia <sup>1</sup> .....        | 21                            | 25            | (NA)          | 12                       | 15              | (NA)            |
| Illinois <sup>1</sup> .....       | 17                            | 18            | (NA)          | 15                       | 16              | (NA)            |
| Kansas .....                      | 2,600                         | 2,800         | 2,600         | 2,450                    | 2,650           | 2,400           |
| Louisiana <sup>1</sup> .....      | 15                            | 8             | (NA)          | 13                       | 6               | (NA)            |
| Mississippi <sup>1</sup> .....    | 5                             | 4             | (NA)          | 4                        | 3               | (NA)            |
| Missouri <sup>1</sup> .....       | 30                            | 30            | (NA)          | 23                       | 21              | (NA)            |
| Nebraska .....                    | 180                           | 230           | 200           | 130                      | 170             | 130             |
| New Mexico <sup>1</sup> .....     | 85                            | 80            | (NA)          | 48                       | 47              | (NA)            |
| North Carolina <sup>1</sup> ..... | 22                            | 18            | (NA)          | 17                       | 8               | (NA)            |
| Oklahoma .....                    | 315                           | 300           | 300           | 295                      | 240             | 260             |
| South Dakota .....                | 270                           | 260           | 250           | 170                      | 200             | 175             |
| Texas .....                       | 1,650                         | 1,550         | 1,550         | 1,500                    | 1,350           | 1,400           |
| United States .....               | 5,629                         | 5,690         | 5,265         | 5,044                    | 5,061           | 4,675           |
| State                             | Yield per acre                |               |               | Production               |                 |                 |
|                                   | 2017                          | 2018          | 2019          | 2017                     | 2018            | 2019            |
|                                   | (bushels)                     | (bushels)     | (bushels)     | (1,000 bushels)          | (1,000 bushels) | (1,000 bushels) |
| Arkansas <sup>1</sup> .....       | 78.0                          | 77.0          | (NA)          | 546                      | 770             | (NA)            |
| Colorado .....                    | 52.0                          | 53.0          | 41.0          | 18,720                   | 17,225          | 12,710          |
| Georgia <sup>1</sup> .....        | 54.0                          | 53.0          | (NA)          | 648                      | 795             | (NA)            |
| Illinois <sup>1</sup> .....       | 83.0                          | 111.0         | (NA)          | 1,245                    | 1,776           | (NA)            |
| Kansas .....                      | 82.0                          | 88.0          | 85.0          | 200,900                  | 233,200         | 204,000         |
| Louisiana <sup>1</sup> .....      | 91.0                          | 84.0          | (NA)          | 1,183                    | 504             | (NA)            |
| Mississippi <sup>1</sup> .....    | 72.0                          | 90.0          | (NA)          | 288                      | 270             | (NA)            |
| Missouri <sup>1</sup> .....       | 107.0                         | 100.0         | (NA)          | 2,461                    | 2,100           | (NA)            |
| Nebraska .....                    | 89.0                          | 94.0          | 93.0          | 11,570                   | 15,980          | 12,090          |
| New Mexico <sup>1</sup> .....     | 35.0                          | 38.0          | (NA)          | 1,680                    | 1,786           | (NA)            |
| North Carolina <sup>1</sup> ..... | 55.0                          | 60.0          | (NA)          | 935                      | 480             | (NA)            |
| Oklahoma .....                    | 53.0                          | 50.0          | 51.0          | 15,635                   | 12,000          | 13,260          |
| South Dakota .....                | 68.0                          | 80.0          | 80.0          | 11,560                   | 16,000          | 14,000          |
| Texas .....                       | 63.0                          | 46.0          | 61.0          | 94,500                   | 62,100          | 85,400          |
| United States .....               | 71.7                          | 72.1          | 73.0          | 361,871                  | 364,986         | 341,460         |

(NA) Not available.

<sup>1</sup> Estimates discontinued in 2019.

# Sorghum for Silage Area Harvested, Yield, and Production – States and United States: 2017-2019

| State                             | Area harvested |               |               | Yield per acre |        |        | Production   |              |              |
|-----------------------------------|----------------|---------------|---------------|----------------|--------|--------|--------------|--------------|--------------|
|                                   | 2017           | 2018          | 2019          | 2017           | 2018   | 2019   | 2017         | 2018         | 2019         |
|                                   | (1,000 acres)  | (1,000 acres) | (1,000 acres) | (tons)         | (tons) | (tons) | (1,000 tons) | (1,000 tons) | (1,000 tons) |
| Arkansas <sup>1</sup> .....       | 1              | 1             | (NA)          | 16.0           | 18.0   | (NA)   | 16           | 18           | (NA)         |
| Colorado .....                    | 25             | 8             | 18            | 15.0           | 14.0   | 17.0   | 375          | 112          | 306          |
| Georgia <sup>1</sup> .....        | 8              | 8             | (NA)          | 13.0           | 11.0   | (NA)   | 104          | 88           | (NA)         |
| Illinois <sup>1</sup> .....       | 1              | 1             | (NA)          | 12.0           | 14.0   | (NA)   | 12           | 14           | (NA)         |
| Kansas .....                      | 85             | 60            | 95            | 13.0           | 15.0   | 11.0   | 1,105        | 900          | 1,045        |
| Louisiana <sup>1</sup> .....      | 1              | 1             | (NA)          | 12.0           | 12.0   | (NA)   | 12           | 12           | (NA)         |
| Mississippi <sup>1</sup> .....    | 1              | 1             | (NA)          | 8.0            | 10.0   | (NA)   | 8            | 10           | (NA)         |
| Missouri <sup>1</sup> .....       | 5              | 7             | (NA)          | 19.0           | 12.0   | (NA)   | 95           | 84           | (NA)         |
| Nebraska .....                    | 20             | 20            | 60            | 11.0           | 11.0   | 10.0   | 220          | 220          | 600          |
| New Mexico <sup>1</sup> .....     | 17             | 18            | (NA)          | 11.0           | 11.0   | (NA)   | 187          | 198          | (NA)         |
| North Carolina <sup>1</sup> ..... | 4              | 7             | (NA)          | 10.0           | 10.0   | (NA)   | 40           | 70           | (NA)         |
| Oklahoma .....                    | 12             | 12            | 16            | 18.0           | 5.0    | 10.0   | 216          | 60           | 160          |
| South Dakota .....                | 37             | 40            | 65            | 11.0           | 12.5   | 13.0   | 407          | 500          | 845          |
| Texas .....                       | 65             | 80            | 85            | 15.0           | 13.0   | 12.5   | 975          | 1,040        | 1,063        |
| United States .....               | 282            | 264           | 339           | 13.4           | 12.6   | 11.9   | 3,772        | 3,326        | 4,019        |

(NA) Not available.

<sup>1</sup> Estimates discontinued in 2019.

# Oat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

| State                             | Area planted <sup>1</sup> |               |               | Area harvested |               |               |
|-----------------------------------|---------------------------|---------------|---------------|----------------|---------------|---------------|
|                                   | 2017                      | 2018          | 2019          | 2017           | 2018          | 2019          |
|                                   | (1,000 acres)             | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| Alabama <sup>2</sup> .....        | 40                        | 40            | (NA)          | 10             | 15            | (NA)          |
| Arkansas .....                    | 11                        | 10            | 5             | 8              | 7             | 3             |
| California .....                  | 110                       | 110           | 75            | 10             | 6             | 2             |
| Colorado <sup>2</sup> .....       | 50                        | 95            | (NA)          | 9              | 7             | (NA)          |
| Georgia .....                     | 50                        | 60            | 70            | 15             | 15            | 15            |
| Idaho .....                       | 50                        | 40            | 60            | 10             | 10            | 12            |
| Illinois .....                    | 35                        | 40            | 70            | 20             | 25            | 10            |
| Iowa .....                        | 115                       | 135           | 215           | 42             | 33            | 69            |
| Kansas .....                      | 100                       | 120           | 120           | 25             | 18            | 18            |
| Maine .....                       | 22                        | 21            | 22            | 21             | 19            | 19            |
| Michigan .....                    | 55                        | 75            | 70            | 40             | 50            | 25            |
| Minnesota .....                   | 170                       | 180           | 240           | 95             | 105           | 100           |
| Missouri .....                    | 30                        | 35            | 50            | 13             | 16            | 6             |
| Montana .....                     | 70                        | 70            | 70            | 18             | 23            | 24            |
| Nebraska .....                    | 110                       | 125           | 120           | 35             | 22            | 18            |
| New York .....                    | 55                        | 69            | 56            | 35             | 43            | 39            |
| North Carolina .....              | 35                        | 30            | 22            | 10             | 11            | 7             |
| North Dakota .....                | 295                       | 300           | 355           | 80             | 105           | 115           |
| Ohio .....                        | 60                        | 55            | 75            | 20             | 30            | 25            |
| Oklahoma .....                    | 45                        | 50            | 100           | 16             | 10            | 25            |
| Oregon .....                      | 25                        | 20            | 20            | 10             | 5             | 9             |
| Pennsylvania .....                | 70                        | 65            | 85            | 40             | 35            | 50            |
| South Carolina <sup>2</sup> ..... | 20                        | 19            | (NA)          | 8              | 7             | (NA)          |
| South Dakota .....                | 290                       | 290           | 245           | 60             | 95            | 75            |
| Texas .....                       | 455                       | 450           | 400           | 60             | 50            | 40            |
| Washington <sup>2</sup> .....     | 16                        | 17            | (NA)          | 4              | 4             | (NA)          |
| Wisconsin .....                   | 180                       | 200           | 265           | 85             | 90            | 120           |
| Wyoming <sup>2</sup> .....        | 25                        | 25            | (NA)          | 5              | 9             | (NA)          |
| United States .....               | 2,589                     | 2,746         | 2,810         | 804            | 865           | 826           |

See footnote(s) at end of table.

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**Oat Area Planted and Harvested, Yield, and Production – States and United States:  
2017-2019 (continued)**

| State                             | Yield per acre |           |           | Production      |                 |                 |
|-----------------------------------|----------------|-----------|-----------|-----------------|-----------------|-----------------|
|                                   | 2017           | 2018      | 2019      | 2017            | 2018            | 2019            |
|                                   | (bushels)      | (bushels) | (bushels) | (1,000 bushels) | (1,000 bushels) | (1,000 bushels) |
| Alabama <sup>2</sup> .....        | 60.0           | 63.0      | (NA)      | 600             | 945             | (NA)            |
| Arkansas .....                    | 85.0           | 75.0      | 70.0      | 680             | 525             | 210             |
| California .....                  | 65.0           | 70.0      | 60.0      | 650             | 420             | 120             |
| Colorado <sup>2</sup> .....       | 65.0           | 50.0      | (NA)      | 585             | 350             | (NA)            |
| Georgia .....                     | 49.0           | 71.0      | 55.0      | 735             | 1,065           | 825             |
| Idaho .....                       | 71.0           | 84.0      | 92.0      | 710             | 840             | 1,104           |
| Illinois .....                    | 79.0           | 83.0      | 65.0      | 1,580           | 2,075           | 650             |
| Iowa .....                        | 77.0           | 63.0      | 58.0      | 3,234           | 2,079           | 4,002           |
| Kansas .....                      | 54.0           | 49.0      | 64.0      | 1,350           | 882             | 1,152           |
| Maine .....                       | 67.0           | 67.0      | 76.0      | 1,407           | 1,273           | 1,444           |
| Michigan .....                    | 54.0           | 63.0      | 57.0      | 2,160           | 3,150           | 1,425           |
| Minnesota .....                   | 75.0           | 59.0      | 62.0      | 7,125           | 6,195           | 6,200           |
| Missouri .....                    | 65.0           | 45.0      | 47.0      | 845             | 720             | 282             |
| Montana .....                     | 47.0           | 43.0      | 55.0      | 846             | 989             | 1,320           |
| Nebraska .....                    | 49.0           | 69.0      | 63.0      | 1,715           | 1,518           | 1,134           |
| New York .....                    | 55.0           | 54.0      | 60.0      | 1,925           | 2,322           | 2,340           |
| North Carolina .....              | 66.0           | 66.0      | 71.0      | 660             | 726             | 497             |
| North Dakota .....                | 58.0           | 82.0      | 86.0      | 4,640           | 8,610           | 9,890           |
| Ohio .....                        | 70.0           | 65.0      | 46.0      | 1,400           | 1,950           | 1,150           |
| Oklahoma .....                    | 42.0           | 48.0      | 50.0      | 672             | 480             | 1,250           |
| Oregon .....                      | 83.0           | 99.0      | 97.0      | 830             | 495             | 873             |
| Pennsylvania .....                | 58.0           | 46.0      | 53.0      | 2,320           | 1,610           | 2,650           |
| South Carolina <sup>2</sup> ..... | 51.0           | 62.0      | (NA)      | 408             | 434             | (NA)            |
| South Dakota .....                | 70.0           | 82.0      | 82.0      | 4,200           | 7,790           | 6,150           |
| Texas .....                       | 45.0           | 50.0      | 50.0      | 2,700           | 2,500           | 2,000           |
| Washington <sup>2</sup> .....     | 42.0           | 46.0      | (NA)      | 168             | 184             | (NA)            |
| Wisconsin .....                   | 59.0           | 61.0      | 54.0      | 5,015           | 5,490           | 6,480           |
| Wyoming <sup>2</sup> .....        | 85.0           | 57.0      | (NA)      | 425             | 513             | (NA)            |
| United States .....               | 61.7           | 64.9      | 64.3      | 49,585          | 56,130          | 53,148          |

(NA) Not available.

<sup>1</sup> Includes area planted in preceding fall.

<sup>2</sup> Estimates discontinued in 2019.

# Barley Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

| State                             | Area planted <sup>1</sup> |               |               | Area harvested |               |               |
|-----------------------------------|---------------------------|---------------|---------------|----------------|---------------|---------------|
|                                   | 2017                      | 2018          | 2019          | 2017           | 2018          | 2019          |
|                                   | (1,000 acres)             | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| Alaska <sup>2</sup> .....         | (X)                       | 5             | 6             | (X)            | 4             | 5             |
| Arizona .....                     | 20                        | 14            | 17            | 17             | 11            | 14            |
| California .....                  | 75                        | 65            | 60            | 29             | 26            | 43            |
| Colorado .....                    | 70                        | 60            | 54            | 68             | 53            | 52            |
| Delaware .....                    | 32                        | 25            | 21            | 18             | 14            | 14            |
| Idaho .....                       | 530                       | 550           | 540           | 510            | 530           | 520           |
| Kansas <sup>3</sup> .....         | (NA)                      | 17            | 14            | (NA)           | 6             | 4             |
| Maine <sup>3</sup> .....          | (NA)                      | 17            | 16            | (NA)           | 16            | 15            |
| Maryland .....                    | 50                        | 45            | 32            | 27             | 24            | 17            |
| Michigan <sup>3</sup> .....       | (NA)                      | 20            | 11            | (NA)           | 5             | 8             |
| Minnesota .....                   | 80                        | 80            | 70            | 68             | 67            | 55            |
| Montana .....                     | 770                       | 790           | 920           | 565            | 600           | 740           |
| New York <sup>3</sup> .....       | (NA)                      | 10            | 10            | (NA)           | 8             | 4             |
| North Carolina <sup>3</sup> ..... | (NA)                      | 11            | 11            | (NA)           | 8             | 6             |
| North Dakota .....                | 520                       | 470           | 580           | 400            | 385           | 445           |
| Oregon .....                      | 47                        | 43            | 40            | 38             | 26            | 31            |
| Pennsylvania .....                | 60                        | 45            | 35            | 45             | 33            | 25            |
| South Dakota <sup>3</sup> .....   | (NA)                      | 48            | 37            | (NA)           | 13            | 9             |
| Utah .....                        | 25                        | 21            | 17            | 18             | 16            | 10            |
| Virginia .....                    | 30                        | 30            | 30            | 11             | 9             | 7             |
| Washington .....                  | 95                        | 85            | 95            | 85             | 67            | 84            |
| Wisconsin <sup>3</sup> .....      | (NA)                      | 25            | 24            | (NA)           | 10            | 8             |
| Wyoming .....                     | 82                        | 72            | 81            | 63             | 51            | 66            |
| United States <sup>4</sup> .....  | 2,486                     | 2,548         | 2,721         | 1,962          | 1,982         | 2,182         |

See footnote(s) at end of table.

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**Barley Area Planted and Harvested, Yield, and Production – States and United States:  
2017-2019 (continued)**

| State                             | Yield per acre |           |           | Production      |                 |                 |
|-----------------------------------|----------------|-----------|-----------|-----------------|-----------------|-----------------|
|                                   | 2017           | 2018      | 2019      | 2017            | 2018            | 2019            |
|                                   | (bushels)      | (bushels) | (bushels) | (1,000 bushels) | (1,000 bushels) | (1,000 bushels) |
| Alaska <sup>2</sup> .....         | (X)            | 43.0      | 38.0      | (X)             | 172             | 190             |
| Arizona .....                     | 131.0          | 100.0     | 126.0     | 2,227           | 1,100           | 1,764           |
| California .....                  | 50.0           | 69.0      | 66.0      | 1,450           | 1,794           | 2,838           |
| Colorado .....                    | 132.0          | 145.0     | 138.0     | 8,976           | 7,685           | 7,176           |
| Delaware .....                    | 85.0           | 78.0      | 80.0      | 1,530           | 1,092           | 1,120           |
| Idaho .....                       | 95.0           | 101.0     | 104.0     | 48,450          | 53,530          | 54,080          |
| Kansas <sup>3</sup> .....         | (NA)           | 31.0      | 33.0      | (NA)            | 186             | 132             |
| Maine <sup>3</sup> .....          | (NA)           | 73.0      | 82.0      | (NA)            | 1,168           | 1,230           |
| Maryland .....                    | 76.0           | 70.0      | 85.0      | 2,052           | 1,680           | 1,445           |
| Michigan <sup>3</sup> .....       | (NA)           | 43.0      | 44.0      | (NA)            | 215             | 352             |
| Minnesota .....                   | 76.0           | 76.0      | 67.0      | 5,168           | 5,092           | 3,685           |
| Montana .....                     | 51.0           | 56.0      | 59.0      | 28,815          | 33,600          | 43,660          |
| New York <sup>3</sup> .....       | (NA)           | 58.0      | 52.0      | (NA)            | 464             | 208             |
| North Carolina <sup>3</sup> ..... | (NA)           | 80.0      | 66.0      | (NA)            | 640             | 396             |
| North Dakota .....                | 65.0           | 74.0      | 72.0      | 26,000          | 28,490          | 32,040          |
| Oregon .....                      | 62.0           | 53.0      | 78.0      | 2,356           | 1,378           | 2,418           |
| Pennsylvania .....                | 70.0           | 63.0      | 70.0      | 3,150           | 2,079           | 1,750           |
| South Dakota <sup>3</sup> .....   | (NA)           | 55.0      | 43.0      | (NA)            | 715             | 387             |
| Utah .....                        | 75.0           | 86.0      | 93.0      | 1,350           | 1,376           | 930             |
| Virginia .....                    | 73.0           | 70.0      | 65.0      | 803             | 630             | 455             |
| Washington .....                  | 53.0           | 73.0      | 70.0      | 4,505           | 4,891           | 5,880           |
| Wisconsin <sup>3</sup> .....      | (NA)           | 45.0      | 46.0      | (NA)            | 450             | 368             |
| Wyoming .....                     | 102.0          | 100.0     | 107.0     | 6,426           | 5,100           | 7,062           |
| United States <sup>4</sup> .....  | 73.0           | 77.5      | 77.7      | 143,258         | 153,527         | 169,566         |

(NA) Not available.

(X) Not applicable.

<sup>1</sup> Includes area planted in preceding fall.

<sup>2</sup> Previously included in the Alaska table. For 2017 data, refer to the Alaska table on page 98.

<sup>3</sup> Estimates began in 2018.

<sup>4</sup> Beginning in 2018, United States total includes data for Alaska.

# All Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

| State                            | Area planted <sup>1</sup> |               |               | Area harvested |               |               |
|----------------------------------|---------------------------|---------------|---------------|----------------|---------------|---------------|
|                                  | 2017                      | 2018          | 2019          | 2017           | 2018          | 2019          |
|                                  | (1,000 acres)             | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| Alabama .....                    | 150                       | 160           | 130           | 100            | 110           | 85            |
| Arizona .....                    | 115                       | 96            | 34            | 105            | 77            | 33            |
| Arkansas .....                   | 200                       | 175           | 110           | 125            | 95            | 50            |
| California .....                 | 420                       | 425           | 420           | 182            | 147           | 122           |
| Colorado .....                   | 2,260                     | 2,260         | 2,150         | 2,029          | 1,954         | 2,000         |
| Delaware .....                   | 75                        | 75            | 60            | 60             | 45            | 50            |
| Florida <sup>2</sup> .....       | 20                        | 15            | (NA)          | 10             | 10            | (NA)          |
| Georgia .....                    | 160                       | 200           | 150           | 70             | 70            | 50            |
| Idaho .....                      | 1,175                     | 1,191         | 1,195         | 1,109          | 1,136         | 1,125         |
| Illinois .....                   | 500                       | 600           | 650           | 470            | 560           | 550           |
| Indiana .....                    | 290                       | 310           | 330           | 240            | 260           | 260           |
| Iowa <sup>2</sup> .....          | 16                        | 16            | (NA)          | 8              | 6             | (NA)          |
| Kansas .....                     | 7,600                     | 7,700         | 6,900         | 6,950          | 7,300         | 6,500         |
| Kentucky .....                   | 480                       | 450           | 460           | 310            | 300           | 330           |
| Louisiana <sup>2</sup> .....     | 20                        | 15            | (NA)          | 13             | 10            | (NA)          |
| Maryland .....                   | 410                       | 360           | 345           | 185            | 200           | 165           |
| Michigan .....                   | 480                       | 510           | 540           | 425            | 470           | 480           |
| Minnesota .....                  | 1,170                     | 1,621         | 1,450         | 1,135          | 1,575         | 1,400         |
| Mississippi .....                | 45                        | 55            | 45            | 25             | 30            | 21            |
| Missouri .....                   | 640                       | 740           | 550           | 540            | 520           | 390           |
| Montana .....                    | 5,140                     | 5,390         | 5,450         | 4,665          | 5,165         | 5,175         |
| Nebraska .....                   | 1,120                     | 1,100         | 1,070         | 1,020          | 1,010         | 970           |
| Nevada <sup>2</sup> .....        | 29                        | 23            | (NA)          | 14             | 8             | (NA)          |
| New Jersey .....                 | 23                        | 18            | 19            | 17             | 15            | 14            |
| New Mexico .....                 | 330                       | 320           | 360           | 135            | 105           | 105           |
| New York .....                   | 140                       | 110           | 90            | 125            | 95            | 66            |
| North Carolina .....             | 450                       | 460           | 290           | 375            | 370           | 225           |
| North Dakota .....               | 6,680                     | 7,735         | 7,505         | 6,260          | 7,635         | 6,620         |
| Ohio .....                       | 490                       | 490           | 500           | 460            | 450           | 385           |
| Oklahoma .....                   | 4,500                     | 4,400         | 4,200         | 2,900          | 2,500         | 2,750         |
| Oregon .....                     | 775                       | 800           | 740           | 763            | 770           | 730           |
| Pennsylvania .....               | 210                       | 195           | 180           | 150            | 145           | 140           |
| South Carolina .....             | 90                        | 80            | 70            | 75             | 65            | 45            |
| South Dakota .....               | 1,887                     | 1,883         | 1,500         | 1,196          | 1,628         | 1,375         |
| Tennessee .....                  | 370                       | 380           | 280           | 275            | 285           | 215           |
| Texas .....                      | 4,700                     | 4,500         | 4,500         | 2,350          | 1,750         | 2,050         |
| Utah .....                       | 134                       | 130           | 125           | 120            | 103           | 116           |
| Virginia .....                   | 210                       | 230           | 180           | 145            | 155           | 105           |
| Washington .....                 | 2,195                     | 2,220         | 2,260         | 2,140          | 2,165         | 2,205         |
| West Virginia <sup>2</sup> ..... | 8                         | 7             | (NA)          | 4              | 3             | (NA)          |
| Wisconsin .....                  | 210                       | 240           | 195           | 170            | 200           | 150           |
| Wyoming .....                    | 135                       | 130           | 125           | 105            | 115           | 110           |
| United States .....              | 46,052                    | 47,815        | 45,158        | 37,555         | 39,612        | 37,162        |

See footnote(s) at end of table.

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**All Wheat Area Planted and Harvested, Yield, and Production – States and United States:  
2017-2019 (continued)**

| State                            | Yield per acre |           |           | Production      |                 |                 |
|----------------------------------|----------------|-----------|-----------|-----------------|-----------------|-----------------|
|                                  | 2017           | 2018      | 2019      | 2017            | 2018            | 2019            |
|                                  | (bushels)      | (bushels) | (bushels) | (1,000 bushels) | (1,000 bushels) | (1,000 bushels) |
| Alabama .....                    | 77.0           | 72.0      | 72.0      | 7,700           | 7,920           | 6,120           |
| Arizona .....                    | 100.8          | 102.6     | 104.0     | 10,589          | 7,898           | 3,432           |
| Arkansas .....                   | 52.0           | 55.0      | 52.0      | 6,500           | 5,225           | 2,600           |
| California .....                 | 68.2           | 81.5      | 59.4      | 12,404          | 11,985          | 7,244           |
| Colorado .....                   | 43.2           | 36.1      | 49.0      | 87,598          | 70,504          | 98,000          |
| Delaware .....                   | 73.0           | 71.0      | 72.0      | 4,380           | 3,195           | 3,600           |
| Florida <sup>2</sup> .....       | 37.0           | 36.0      | (NA)      | 370             | 360             | (NA)            |
| Georgia .....                    | 47.0           | 54.0      | 56.0      | 3,290           | 3,780           | 2,800           |
| Idaho .....                      | 81.8           | 91.9      | 87.8      | 90,723          | 104,410         | 98,755          |
| Illinois .....                   | 76.0           | 66.0      | 67.0      | 35,720          | 36,960          | 36,850          |
| Indiana .....                    | 74.0           | 71.0      | 62.0      | 17,760          | 18,460          | 16,120          |
| Iowa <sup>2</sup> .....          | 68.0           | 58.0      | (NA)      | 544             | 348             | (NA)            |
| Kansas .....                     | 48.0           | 38.0      | 52.0      | 333,600         | 277,400         | 338,000         |
| Kentucky .....                   | 77.0           | 66.0      | 76.0      | 23,870          | 19,800          | 25,080          |
| Louisiana <sup>2</sup> .....     | 46.0           | 65.0      | (NA)      | 598             | 650             | (NA)            |
| Maryland .....                   | 71.0           | 63.0      | 75.0      | 13,135          | 12,600          | 12,375          |
| Michigan .....                   | 79.0           | 76.0      | 71.0      | 33,575          | 35,720          | 34,080          |
| Minnesota .....                  | 66.9           | 59.0      | 57.0      | 75,935          | 92,930          | 79,800          |
| Mississippi .....                | 58.0           | 49.0      | 47.0      | 1,450           | 1,470           | 987             |
| Missouri .....                   | 68.0           | 59.0      | 63.0      | 36,720          | 30,680          | 24,570          |
| Montana .....                    | 27.3           | 38.3      | 42.4      | 127,430         | 197,630         | 219,265         |
| Nebraska .....                   | 46.0           | 49.0      | 57.0      | 46,920          | 49,490          | 55,290          |
| Nevada <sup>2</sup> .....        | 105.7          | 112.5     | (NA)      | 1,480           | 900             | (NA)            |
| New Jersey .....                 | 64.0           | 62.0      | 66.0      | 1,088           | 930             | 924             |
| New Mexico .....                 | 30.0           | 15.0      | 30.0      | 4,050           | 1,575           | 3,150           |
| New York .....                   | 67.0           | 69.0      | 63.0      | 8,375           | 6,555           | 4,158           |
| North Carolina .....             | 55.0           | 57.0      | 56.0      | 20,625          | 21,090          | 12,600          |
| North Dakota .....               | 37.9           | 47.6      | 48.5      | 237,133         | 363,483         | 320,760         |
| Ohio .....                       | 74.0           | 75.0      | 56.0      | 34,040          | 33,750          | 21,560          |
| Oklahoma .....                   | 34.0           | 28.0      | 40.0      | 98,600          | 70,000          | 110,000         |
| Oregon .....                     | 63.0           | 67.0      | 68.0      | 48,069          | 51,590          | 49,640          |
| Pennsylvania .....               | 72.0           | 65.0      | 73.0      | 10,800          | 9,425           | 10,220          |
| South Carolina .....             | 49.0           | 54.0      | 48.0      | 3,675           | 3,510           | 2,160           |
| South Dakota .....               | 34.8           | 44.4      | 48.0      | 41,678          | 72,294          | 66,055          |
| Tennessee .....                  | 70.0           | 65.0      | 67.0      | 19,250          | 18,525          | 14,405          |
| Texas .....                      | 29.0           | 32.0      | 34.0      | 68,150          | 56,000          | 69,700          |
| Utah .....                       | 52.0           | 52.0      | 54.0      | 6,240           | 5,356           | 6,264           |
| Virginia .....                   | 66.0           | 60.0      | 62.0      | 9,570           | 9,300           | 6,510           |
| Washington .....                 | 66.6           | 70.8      | 64.7      | 142,500         | 153,210         | 142,735         |
| West Virginia <sup>2</sup> ..... | 69.0           | 46.0      | (NA)      | 276             | 138             | (NA)            |
| Wisconsin .....                  | 68.0           | 71.0      | 64.0      | 11,560          | 14,200          | 9,600           |
| Wyoming .....                    | 28.0           | 34.0      | 43.0      | 2,940           | 3,910           | 4,730           |
| United States .....              | 46.4           | 47.6      | 51.7      | 1,740,910       | 1,885,156       | 1,920,139       |

(NA) Not available.

<sup>1</sup> Includes area planted in preceding fall.

<sup>2</sup> Estimates discontinued in 2019.

# **Winter Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019**

| State                            | Area planted <sup>1</sup> |               |               | Area harvested |               |               |
|----------------------------------|---------------------------|---------------|---------------|----------------|---------------|---------------|
|                                  | 2017                      | 2018          | 2019          | 2017           | 2018          | 2019          |
|                                  | (1,000 acres)             | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| Alabama .....                    | 150                       | 160           | 130           | 100            | 110           | 85            |
| Arizona <sup>2</sup> .....       | 25                        | 22            | (NA)          | 16             | 4             | (NA)          |
| Arkansas .....                   | 200                       | 175           | 110           | 125            | 95            | 50            |
| California .....                 | 385                       | 380           | 390           | 155            | 110           | 100           |
| Colorado .....                   | 2,250                     | 2,250         | 2,150         | 2,020          | 1,950         | 2,000         |
| Delaware .....                   | 75                        | 75            | 60            | 60             | 45            | 50            |
| Florida <sup>2</sup> .....       | 20                        | 15            | (NA)          | 10             | 10            | (NA)          |
| Georgia .....                    | 160                       | 200           | 150           | 70             | 70            | 50            |
| Idaho .....                      | 720                       | 720           | 730           | 670            | 680           | 680           |
| Illinois .....                   | 500                       | 600           | 650           | 470            | 560           | 550           |
| Indiana .....                    | 290                       | 310           | 330           | 240            | 260           | 260           |
| Iowa <sup>2</sup> .....          | 16                        | 16            | (NA)          | 8              | 6             | (NA)          |
| Kansas .....                     | 7,600                     | 7,700         | 6,900         | 6,950          | 7,300         | 6,500         |
| Kentucky .....                   | 480                       | 450           | 460           | 310            | 300           | 330           |
| Louisiana <sup>2</sup> .....     | 20                        | 15            | (NA)          | 13             | 10            | (NA)          |
| Maryland .....                   | 410                       | 360           | 345           | 185            | 200           | 165           |
| Michigan .....                   | 480                       | 510           | 540           | 425            | 470           | 480           |
| Minnesota <sup>2</sup> .....     | 10                        | 11            | (NA)          | 5              | 5             | (NA)          |
| Mississippi .....                | 45                        | 55            | 45            | 25             | 30            | 21            |
| Missouri .....                   | 640                       | 740           | 550           | 540            | 520           | 390           |
| Montana .....                    | 1,750                     | 1,650         | 2,000         | 1,590          | 1,570         | 1,900         |
| Nebraska .....                   | 1,120                     | 1,100         | 1,070         | 1,020          | 1,010         | 970           |
| Nevada <sup>2</sup> .....        | 14                        | 13            | (NA)          | 5              | 5             | (NA)          |
| New Jersey .....                 | 23                        | 18            | 19            | 17             | 15            | 14            |
| New Mexico .....                 | 330                       | 320           | 360           | 135            | 105           | 105           |
| New York .....                   | 140                       | 110           | 90            | 125            | 95            | 66            |
| North Carolina .....             | 450                       | 460           | 290           | 375            | 370           | 225           |
| North Dakota .....               | 70                        | 85            | 85            | 35             | 70            | 70            |
| Ohio .....                       | 490                       | 490           | 500           | 460            | 450           | 385           |
| Oklahoma .....                   | 4,500                     | 4,400         | 4,200         | 2,900          | 2,500         | 2,750         |
| Oregon .....                     | 700                       | 720           | 740           | 690            | 695           | 730           |
| Pennsylvania .....               | 210                       | 195           | 180           | 150            | 145           | 140           |
| South Carolina .....             | 90                        | 80            | 70            | 75             | 65            | 45            |
| South Dakota .....               | 910                       | 830           | 860           | 520            | 660           | 770           |
| Tennessee .....                  | 370                       | 380           | 280           | 275            | 285           | 215           |
| Texas .....                      | 4,700                     | 4,500         | 4,500         | 2,350          | 1,750         | 2,050         |
| Utah .....                       | 120                       | 120           | 125           | 108            | 94            | 116           |
| Virginia .....                   | 210                       | 230           | 180           | 145            | 155           | 105           |
| Washington .....                 | 1,700                     | 1,700         | 1,750         | 1,650          | 1,650         | 1,700         |
| West Virginia <sup>2</sup> ..... | 8                         | 7             | (NA)          | 4              | 3             | (NA)          |
| Wisconsin .....                  | 210                       | 240           | 195           | 170            | 200           | 150           |
| Wyoming .....                    | 135                       | 130           | 125           | 105            | 115           | 110           |
| United States .....              | 32,726                    | 32,542        | 31,159        | 25,301         | 24,742        | 24,327        |

See footnote(s) at end of table.

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**Winter Wheat Area Planted and Harvested, Yield, and Production – States and United States:  
2017-2019 (continued)**

| State                            | Yield per acre |           |           | Production      |                 |                 |
|----------------------------------|----------------|-----------|-----------|-----------------|-----------------|-----------------|
|                                  | 2017           | 2018      | 2019      | 2017            | 2018            | 2019            |
|                                  | (bushels)      | (bushels) | (bushels) | (1,000 bushels) | (1,000 bushels) | (1,000 bushels) |
| Alabama .....                    | 77.0           | 72.0      | 72.0      | 7,700           | 7,920           | 6,120           |
| Arizona <sup>2</sup> .....       | 100.0          | 40.0      | (NA)      | 1,600           | 160             | (NA)            |
| Arkansas .....                   | 52.0           | 55.0      | 52.0      | 6,500           | 5,225           | 2,600           |
| California .....                 | 64.0           | 77.0      | 50.0      | 9,920           | 8,470           | 5,000           |
| Colorado .....                   | 43.0           | 36.0      | 49.0      | 86,860          | 70,200          | 98,000          |
| Delaware .....                   | 73.0           | 71.0      | 72.0      | 4,380           | 3,195           | 3,600           |
| Florida <sup>2</sup> .....       | 37.0           | 36.0      | (NA)      | 370             | 360             | (NA)            |
| Georgia .....                    | 47.0           | 54.0      | 56.0      | 3,290           | 3,780           | 2,800           |
| Idaho .....                      | 80.0           | 90.0      | 87.0      | 53,600          | 61,200          | 59,160          |
| Illinois .....                   | 76.0           | 66.0      | 67.0      | 35,720          | 36,960          | 36,850          |
| Indiana .....                    | 74.0           | 71.0      | 62.0      | 17,760          | 18,460          | 16,120          |
| Iowa <sup>2</sup> .....          | 68.0           | 58.0      | (NA)      | 544             | 348             | (NA)            |
| Kansas .....                     | 48.0           | 38.0      | 52.0      | 333,600         | 277,400         | 338,000         |
| Kentucky .....                   | 77.0           | 66.0      | 76.0      | 23,870          | 19,800          | 25,080          |
| Louisiana <sup>2</sup> .....     | 46.0           | 65.0      | (NA)      | 598             | 650             | (NA)            |
| Maryland .....                   | 71.0           | 63.0      | 75.0      | 13,135          | 12,600          | 12,375          |
| Michigan .....                   | 79.0           | 76.0      | 71.0      | 33,575          | 35,720          | 34,080          |
| Minnesota <sup>2</sup> .....     | 45.0           | 60.0      | (NA)      | 225             | 300             | (NA)            |
| Mississippi .....                | 58.0           | 49.0      | 47.0      | 1,450           | 1,470           | 987             |
| Missouri .....                   | 68.0           | 59.0      | 63.0      | 36,720          | 30,680          | 24,570          |
| Montana .....                    | 42.0           | 50.0      | 50.0      | 66,780          | 78,500          | 95,000          |
| Nebraska .....                   | 46.0           | 49.0      | 57.0      | 46,920          | 49,490          | 55,290          |
| Nevada <sup>2</sup> .....        | 107.0          | 120.0     | (NA)      | 535             | 600             | (NA)            |
| New Jersey .....                 | 64.0           | 62.0      | 66.0      | 1,088           | 930             | 924             |
| New Mexico .....                 | 30.0           | 15.0      | 30.0      | 4,050           | 1,575           | 3,150           |
| New York .....                   | 67.0           | 69.0      | 63.0      | 8,375           | 6,555           | 4,158           |
| North Carolina .....             | 55.0           | 57.0      | 56.0      | 20,625          | 21,090          | 12,600          |
| North Dakota .....               | 37.0           | 43.0      | 53.0      | 1,295           | 3,010           | 3,710           |
| Ohio .....                       | 74.0           | 75.0      | 56.0      | 34,040          | 33,750          | 21,560          |
| Oklahoma .....                   | 34.0           | 28.0      | 40.0      | 98,600          | 70,000          | 110,000         |
| Oregon .....                     | 63.0           | 67.0      | 68.0      | 43,470          | 46,565          | 49,640          |
| Pennsylvania .....               | 72.0           | 65.0      | 73.0      | 10,800          | 9,425           | 10,220          |
| South Carolina .....             | 49.0           | 54.0      | 48.0      | 3,675           | 3,510           | 2,160           |
| South Dakota .....               | 40.0           | 48.0      | 52.0      | 20,800          | 31,680          | 40,040          |
| Tennessee .....                  | 70.0           | 65.0      | 67.0      | 19,250          | 18,525          | 14,405          |
| Texas .....                      | 29.0           | 32.0      | 34.0      | 68,150          | 56,000          | 69,700          |
| Utah .....                       | 52.0           | 52.0      | 54.0      | 5,616           | 4,888           | 6,264           |
| Virginia .....                   | 66.0           | 60.0      | 62.0      | 9,570           | 9,300           | 6,510           |
| Washington .....                 | 73.0           | 76.0      | 70.0      | 120,450         | 125,400         | 119,000         |
| West Virginia <sup>2</sup> ..... | 69.0           | 46.0      | (NA)      | 276             | 138             | (NA)            |
| Wisconsin .....                  | 68.0           | 71.0      | 64.0      | 11,560          | 14,200          | 9,600           |
| Wyoming .....                    | 28.0           | 34.0      | 43.0      | 2,940           | 3,910           | 4,730           |
| United States .....              | 50.2           | 47.9      | 53.6      | 1,270,282       | 1,183,939       | 1,304,003       |

(NA) Not available.

<sup>1</sup> Includes area planted in preceding fall.

<sup>2</sup> Estimates discontinued in 2019.

# Other Spring Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

| State                       | Area planted  |               |               | Area harvested |               |               |
|-----------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                             | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                             | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| Colorado <sup>1</sup> ..... | 10            | 10            | (NA)          | 9              | 4             | (NA)          |
| Idaho .....                 | 430           | 460           | 460           | 415            | 445           | 440           |
| Minnesota .....             | 1,160         | 1,610         | 1,450         | 1,130          | 1,570         | 1,400         |
| Montana .....               | 2,500         | 2,900         | 2,900         | 2,290          | 2,820         | 2,760         |
| Nevada <sup>1</sup> .....   | 15            | 10            | (NA)          | 9              | 3             | (NA)          |
| North Dakota .....          | 5,350         | 6,550         | 6,700         | 5,050          | 6,490         | 5,950         |
| Oregon <sup>1</sup> .....   | 75            | 80            | (NA)          | 73             | 75            | (NA)          |
| South Dakota .....          | 970           | 1,050         | 640           | 670            | 965           | 605           |
| Utah <sup>1</sup> .....     | 14            | 10            | (NA)          | 12             | 9             | (NA)          |
| Washington .....            | 495           | 520           | 510           | 490            | 515           | 505           |
| United States .....         | 11,019        | 13,200        | 12,660        | 10,148         | 12,896        | 11,660        |

| State                       | Yield per acre |           |           | Production      |                 |                 |
|-----------------------------|----------------|-----------|-----------|-----------------|-----------------|-----------------|
|                             | 2017           | 2018      | 2019      | 2017            | 2018            | 2019            |
|                             | (bushels)      | (bushels) | (bushels) | (1,000 bushels) | (1,000 bushels) | (1,000 bushels) |
| Colorado <sup>1</sup> ..... | 82.0           | 76.0      | (NA)      | 738             | 304             | (NA)            |
| Idaho .....                 | 85.0           | 95.0      | 89.0      | 35,275          | 42,275          | 39,160          |
| Minnesota .....             | 67.0           | 59.0      | 57.0      | 75,710          | 92,630          | 79,800          |
| Montana .....               | 21.0           | 34.0      | 37.0      | 48,090          | 95,880          | 102,120         |
| Nevada <sup>1</sup> .....   | 105.0          | 100.0     | (NA)      | 945             | 300             | (NA)            |
| North Dakota .....          | 41.0           | 49.0      | 49.0      | 207,050         | 318,010         | 291,550         |
| Oregon <sup>1</sup> .....   | 63.0           | 67.0      | (NA)      | 4,599           | 5,025           | (NA)            |
| South Dakota .....          | 31.0           | 42.0      | 43.0      | 20,770          | 40,530          | 26,015          |
| Utah <sup>1</sup> .....     | 52.0           | 52.0      | (NA)      | 624             | 468             | (NA)            |
| Washington .....            | 45.0           | 54.0      | 47.0      | 22,050          | 27,810          | 23,735          |
| United States .....         | 41.0           | 48.3      | 48.2      | 415,851         | 623,232         | 562,380         |

(NA) Not available.

<sup>1</sup> Estimates discontinued in 2019.

## Durum Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

| State                           | Area planted   |               |               | Area harvested  |                 |                 |
|---------------------------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|
|                                 | 2017           | 2018          | 2019          | 2017            | 2018            | 2019            |
|                                 | (1,000 acres)  | (1,000 acres) | (1,000 acres) | (1,000 acres)   | (1,000 acres)   | (1,000 acres)   |
| Arizona .....                   | 90             | 74            | 34            | 89              | 73              | 33              |
| California .....                | 35             | 45            | 30            | 27              | 37              | 22              |
| Idaho .....                     | 25             | 11            | 5             | 24              | 11              | 5               |
| Montana .....                   | 890            | 840           | 550           | 785             | 775             | 515             |
| North Dakota .....              | 1,260          | 1,100         | 720           | 1,175           | 1,075           | 600             |
| South Dakota <sup>1</sup> ..... | 7              | 3             | (NA)          | 6               | 3               | (NA)            |
| United States .....             | 2,307          | 2,073         | 1,339         | 2,106           | 1,974           | 1,175           |
| State                           | Yield per acre |               |               | Production      |                 |                 |
|                                 | 2017           | 2018          | 2019          | 2017            | 2018            | 2019            |
|                                 | (bushels)      | (bushels)     | (bushels)     | (1,000 bushels) | (1,000 bushels) | (1,000 bushels) |
| Arizona .....                   | 101.0          | 106.0         | 104.0         | 8,989           | 7,738           | 3,432           |
| California .....                | 92.0           | 95.0          | 102.0         | 2,484           | 3,515           | 2,244           |
| Idaho .....                     | 77.0           | 85.0          | 87.0          | 1,848           | 935             | 435             |
| Montana .....                   | 16.0           | 30.0          | 43.0          | 12,560          | 23,250          | 22,145          |
| North Dakota .....              | 24.5           | 39.5          | 42.5          | 28,788          | 42,463          | 25,500          |
| South Dakota <sup>1</sup> ..... | 18.0           | 28.0          | (NA)          | 108             | 84              | (NA)            |
| United States .....             | 26.0           | 39.5          | 45.7          | 54,777          | 77,985          | 53,756          |

(NA) Not available.

<sup>1</sup> Estimates discontinued in 2019.

## Wheat Production by Class – United States: 2017-2019

[Wheat class estimates are based on the latest available data including both surveys and administrative data]

| Crop               | 2017            | 2018            | 2019            |
|--------------------|-----------------|-----------------|-----------------|
|                    | (1,000 bushels) | (1,000 bushels) | (1,000 bushels) |
| <b>Winter</b>      |                 |                 |                 |
| Hard red .....     | 750,132         | 662,249         | 833,181         |
| Soft red .....     | 293,222         | 285,558         | 239,166         |
| Hard white .....   | 23,724          | 19,347          | 19,954          |
| Soft white .....   | 203,204         | 216,785         | 211,702         |
| <b>Spring</b>      |                 |                 |                 |
| Hard red .....     | 384,193         | 587,007         | 521,557         |
| Hard white .....   | 8,772           | 13,510          | 11,831          |
| Soft white .....   | 22,886          | 22,715          | 28,992          |
| Durum .....        | 54,777          | 77,985          | 53,756          |
| <b>Total</b> ..... | 1,740,910       | 1,885,156       | 1,920,139       |

**Rice Area Planted and Harvested, Yield, and Production by Class – States and United States: 2017-2019**

| Class and State                 | Area planted  |               |               | Area harvested |               |               |
|---------------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                                 | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                                 | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| <b>Long grain</b>               |               |               |               |                |               |               |
| Arkansas .....                  | 995           | 1,250         | 950           | 955            | 1,240         | 935           |
| California .....                | 7             | 11            | 10            | 7              | 11            | 10            |
| Louisiana .....                 | 370           | 395           | 370           | 366            | 392           | 361           |
| Mississippi .....               | 115           | 140           | 115           | 114            | 139           | 111           |
| Missouri .....                  | 160           | 215           | 180           | 151            | 211           | 166           |
| Texas .....                     | 164           | 187           | 153           | 155            | 183           | 147           |
| United States .....             | 1,811         | 2,198         | 1,778         | 1,748          | 2,176         | 1,730         |
| <b>Medium grain</b>             |               |               |               |                |               |               |
| Arkansas .....                  | 165           | 190           | 205           | 148            | 181           | 190           |
| California .....                | 400           | 455           | 455           | 398            | 453           | 453           |
| Louisiana .....                 | 30            | 45            | 55            | 29             | 44            | 53            |
| Mississippi .....               | -             | -             | 2             | -              | -             | 2             |
| Missouri .....                  | 9             | 9             | 7             | 9              | 9             | 7             |
| Texas .....                     | 9             | 8             | 4             | 3              | 6             | 3             |
| United States .....             | 613           | 707           | 728           | 587            | 693           | 708           |
| <b>Short grain <sup>1</sup></b> |               |               |               |                |               |               |
| Arkansas .....                  | 1             | 1             | 1             | 1              | 1             | 1             |
| California .....                | 38            | 40            | 33            | 38             | 40            | 33            |
| United States .....             | 39            | 41            | 34            | 39             | 41            | 34            |
| <b>All rice</b>                 |               |               |               |                |               |               |
| Arkansas .....                  | 1,161         | 1,441         | 1,156         | 1,104          | 1,422         | 1,126         |
| California .....                | 445           | 506           | 498           | 443            | 504           | 496           |
| Louisiana .....                 | 400           | 440           | 425           | 395            | 436           | 414           |
| Mississippi .....               | 115           | 140           | 117           | 114            | 139           | 113           |
| Missouri .....                  | 169           | 224           | 187           | 160            | 220           | 173           |
| Texas .....                     | 173           | 195           | 157           | 158            | 189           | 150           |
| United States .....             | 2,463         | 2,946         | 2,540         | 2,374          | 2,910         | 2,472         |

See footnote(s) at end of table.

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**Rice Area Planted and Harvested, Yield, and Production by Class – States and United States:  
2017-2019 (continued)**

| Class and State                 | Yield per acre |          |          | Production  |             |             |
|---------------------------------|----------------|----------|----------|-------------|-------------|-------------|
|                                 | 2017           | 2018     | 2019     | 2017        | 2018        | 2019        |
|                                 | (pounds)       | (pounds) | (pounds) | (1,000 cwt) | (1,000 cwt) | (1,000 cwt) |
| <b>Long grain</b>               |                |          |          |             |             |             |
| Arkansas .....                  | 7,510          | 7,550    | 7,550    | 71,721      | 93,620      | 70,593      |
| California .....                | 7,400          | 6,000    | 7,300    | 518         | 660         | 730         |
| Louisiana .....                 | 6,720          | 7,160    | 6,380    | 24,595      | 28,067      | 23,032      |
| Mississippi .....               | 7,400          | 7,350    | 7,350    | 8,436       | 10,217      | 8,159       |
| Missouri .....                  | 7,460          | 7,760    | 7,360    | 11,265      | 16,374      | 12,218      |
| Texas .....                     | 7,300          | 8,000    | 7,400    | 11,315      | 14,640      | 10,878      |
| United States .....             | 7,314          | 7,517    | 7,261    | 127,850     | 163,578     | 125,610     |
| <b>Medium grain</b>             |                |          |          |             |             |             |
| Arkansas .....                  | 7,340          | 7,330    | 7,160    | 10,863      | 13,267      | 13,604      |
| California .....                | 8,620          | 8,810    | 8,580    | 34,308      | 39,909      | 38,867      |
| Louisiana .....                 | 6,580          | 6,880    | 6,370    | 1,908       | 3,027       | 3,376       |
| Mississippi .....               | (X)            | (X)      | 7,150    | -           | -           | 143         |
| Missouri .....                  | 7,060          | 7,950    | 7,550    | 635         | 716         | 529         |
| Texas .....                     | 5,100          | 7,000    | 5,000    | 153         | 420         | 150         |
| United States .....             | 8,155          | 8,274    | 8,004    | 47,867      | 57,339      | 56,669      |
| <b>Short grain <sup>1</sup></b> |                |          |          |             |             |             |
| Arkansas .....                  | 6,000          | 6,000    | 6,000    | 60          | 60          | 60          |
| California .....                | 6,450          | 7,140    | 7,080    | 2,451       | 2,856       | 2,336       |
| United States .....             | 6,438          | 7,112    | 7,047    | 2,511       | 2,916       | 2,396       |
| <b>All</b>                      |                |          |          |             |             |             |
| Arkansas .....                  | 7,490          | 7,520    | 7,480    | 82,644      | 106,947     | 84,257      |
| California .....                | 8,410          | 8,620    | 8,450    | 37,277      | 43,425      | 41,933      |
| Louisiana .....                 | 6,710          | 7,130    | 6,380    | 26,503      | 31,094      | 26,408      |
| Mississippi .....               | 7,400          | 7,350    | 7,350    | 8,436       | 10,217      | 8,302       |
| Missouri .....                  | 7,440          | 7,770    | 7,370    | 11,900      | 17,090      | 12,747      |
| Texas .....                     | 7,260          | 7,970    | 7,350    | 11,468      | 15,060      | 11,028      |
| United States .....             | 7,507          | 7,692    | 7,471    | 178,228     | 223,833     | 184,675     |

- Represents zero.

(X) Not applicable.

<sup>1</sup> Sweet rice acreage, yield, and production included with short grain.

# Rye Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

| State                           | Area planted <sup>1</sup> |               |               | Area harvested |               |               |
|---------------------------------|---------------------------|---------------|---------------|----------------|---------------|---------------|
|                                 | 2017                      | 2018          | 2019          | 2017           | 2018          | 2019          |
|                                 | (1,000 acres)             | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| Georgia <sup>2</sup> .....      | 210                       | 190           | (D)           | 25             | 15            | (D)           |
| Minnesota .....                 | (D)                       | (D)           | 50            | (D)            | (D)           | 18            |
| North Dakota .....              | (D)                       | (D)           | 85            | (D)            | (D)           | 57            |
| Oklahoma .....                  | 260                       | 240           | 260           | 45             | 50            | 55            |
| Pennsylvania .....              | (D)                       | (D)           | 100           | (D)            | (D)           | 14            |
| Wisconsin .....                 | (D)                       | (D)           | 220           | (D)            | (D)           | 20            |
| Other States <sup>3</sup> ..... | 1,491                     | 1,581         | 1,150         | 230            | 208           | 146           |
| United States .....             | 1,961                     | 2,011         | 1,865         | 300            | 273           | 310           |

| State                           | Yield per acre |           |           | Production      |                 |                 |
|---------------------------------|----------------|-----------|-----------|-----------------|-----------------|-----------------|
|                                 | 2017           | 2018      | 2019      | 2017            | 2018            | 2019            |
|                                 | (bushels)      | (bushels) | (bushels) | (1,000 bushels) | (1,000 bushels) | (1,000 bushels) |
| Georgia <sup>2</sup> .....      | 19.0           | 26.0      | (D)       | 475             | 390             | (D)             |
| Minnesota .....                 | (D)            | (D)       | 39.0      | (D)             | (D)             | 702             |
| North Dakota .....              | (D)            | (D)       | 45.0      | (D)             | (D)             | 2,565           |
| Oklahoma .....                  | 24.0           | 22.0      | 27.0      | 1,080           | 1,100           | 1,485           |
| Pennsylvania .....              | (D)            | (D)       | 26.0      | (D)             | (D)             | 364             |
| Wisconsin .....                 | (D)            | (D)       | 34.0      | (D)             | (D)             | 680             |
| Other States <sup>3</sup> ..... | 37.8           | 33.4      | 33.1      | 8,697           | 6,942           | 4,826           |
| United States .....             | 34.2           | 30.9      | 34.3      | 10,252          | 8,432           | 10,622          |

(D) Withheld to avoid disclosing data for individual operations.

<sup>1</sup> Includes area planted in preceding fall.

<sup>2</sup> Beginning in 2019, estimates included in Other States.

<sup>3</sup> In 2017 and 2018, Other States include Illinois, Kansas, Maine, Maryland, Michigan, Minnesota, Nebraska, New Jersey, New York, North Carolina, North Dakota, Pennsylvania, South Carolina, South Dakota, Texas, Virginia, and Wisconsin. Beginning in 2019, Other States include Georgia, Illinois, Kansas, Michigan, Nebraska, New York, North Carolina, South Dakota, and Texas.

## Proso Millet Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

| State               | Area planted   |               |               | Area harvested  |                 |                 |
|---------------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|
|                     | 2017           | 2018          | 2019          | 2017            | 2018            | 2019            |
|                     | (1,000 acres)  | (1,000 acres) | (1,000 acres) | (1,000 acres)   | (1,000 acres)   | (1,000 acres)   |
| Colorado .....      | 320            | 300           | 340           | 290             | 270             | 320             |
| Nebraska .....      | 105            | 95            | 115           | 86              | 81              | 106             |
| South Dakota .....  | 53             | 48            | 51            | 27              | 39              | 39              |
| United States ..... | 478            | 443           | 506           | 403             | 390             | 465             |
| State               | Yield per acre |               |               | Production      |                 |                 |
|                     | 2017           | 2018          | 2019          | 2017            | 2018            | 2019            |
|                     | (bushels)      | (bushels)     | (bushels)     | (1,000 bushels) | (1,000 bushels) | (1,000 bushels) |
| Colorado .....      | 38.5           | 28.0          | 37.0          | 11,165          | 7,560           | 11,840          |
| Nebraska .....      | 32.0           | 32.0          | 31.0          | 2,752           | 2,592           | 3,286           |
| South Dakota .....  | 36.0           | 37.0          | 38.0          | 972             | 1,443           | 1,482           |
| United States ..... | 36.9           | 29.7          | 35.7          | 14,889          | 11,595          | 16,608          |

# All Hay Area Harvested, Yield, and Production – States and United States: 2017-2019

| State                            | Area harvested |               |               | Yield per acre |        |        |
|----------------------------------|----------------|---------------|---------------|----------------|--------|--------|
|                                  | 2017           | 2018          | 2019          | 2017           | 2018   | 2019   |
|                                  | (1,000 acres)  | (1,000 acres) | (1,000 acres) | (tons)         | (tons) | (tons) |
| Alabama .....                    | 860            | 850           | 700           | 2.50           | 2.80   | 2.50   |
| Alaska <sup>1</sup> .....        | (X)            | 22            | 22            | (X)            | 1.30   | 1.30   |
| Arizona .....                    | 325            | 300           | 325           | 7.96           | 7.82   | 7.72   |
| Arkansas .....                   | 1,293          | 1,203         | 1,253         | 2.00           | 1.80   | 2.20   |
| California .....                 | 1,140          | 980           | 1,010         | 5.60           | 5.80   | 5.74   |
| Colorado .....                   | 1,440          | 1,420         | 1,460         | 2.75           | 2.55   | 2.78   |
| Connecticut .....                | 48             | 47            | 47            | 2.29           | 2.34   | 1.72   |
| Delaware .....                   | 15             | 13            | 14            | 3.20           | 2.62   | 2.21   |
| Florida .....                    | 300            | 280           | 270           | 2.50           | 3.10   | 2.90   |
| Georgia .....                    | 620            | 600           | 560           | 2.90           | 2.90   | 2.75   |
| Idaho .....                      | 1,430          | 1,340         | 1,300         | 3.59           | 3.75   | 3.93   |
| Illinois .....                   | 490            | 470           | 420           | 3.25           | 2.79   | 2.71   |
| Indiana .....                    | 540            | 510           | 520           | 2.76           | 2.71   | 2.48   |
| Iowa .....                       | 1,060          | 940           | 1,020         | 3.08           | 3.19   | 3.05   |
| Kansas .....                     | 2,470          | 2,360         | 2,280         | 2.22           | 2.02   | 2.77   |
| Kentucky .....                   | 2,125          | 1,895         | 1,945         | 2.43           | 2.68   | 2.27   |
| Louisiana .....                  | 400            | 380           | 390           | 2.60           | 2.20   | 2.50   |
| Maine .....                      | 125            | 110           | 110           | 1.93           | 1.89   | 2.15   |
| Maryland .....                   | 190            | 195           | 189           | 2.68           | 2.83   | 2.68   |
| Massachusetts .....              | 78             | 79            | 51            | 1.78           | 1.48   | 2.25   |
| Michigan .....                   | 870            | 810           | 780           | 2.29           | 2.24   | 2.38   |
| Minnesota .....                  | 1,360          | 1,220         | 1,100         | 2.79           | 2.52   | 2.70   |
| Mississippi .....                | 610            | 590           | 610           | 2.40           | 2.10   | 2.30   |
| Missouri .....                   | 3,000          | 3,070         | 3,360         | 2.00           | 1.76   | 2.19   |
| Montana .....                    | 2,500          | 2,900         | 3,000         | 1.90           | 1.93   | 2.08   |
| Nebraska .....                   | 2,510          | 2,700         | 2,450         | 2.37           | 2.59   | 2.48   |
| Nevada .....                     | 385            | 365           | 435           | 3.35           | 3.17   | 3.60   |
| New Hampshire .....              | 45             | 39            | 49            | 1.80           | 1.77   | 1.69   |
| New Jersey .....                 | 108            | 114           | 91            | 2.22           | 1.93   | 2.05   |
| New Mexico .....                 | 285            | 250           | 245           | 4.00           | 3.73   | 3.89   |
| New York .....                   | 1,320          | 1,220         | 1,180         | 2.01           | 2.25   | 1.90   |
| North Carolina .....             | 657            | 816           | 816           | 2.30           | 2.71   | 2.30   |
| North Dakota .....               | 2,580          | 2,670         | 2,420         | 1.33           | 1.66   | 1.70   |
| Ohio .....                       | 960            | 970           | 920           | 2.47           | 2.43   | 2.32   |
| Oklahoma .....                   | 2,930          | 3,230         | 3,005         | 1.92           | 1.59   | 1.98   |
| Oregon .....                     | 1,085          | 1,000         | 970           | 3.05           | 3.06   | 3.47   |
| Pennsylvania .....               | 1,420          | 1,190         | 1,210         | 2.61           | 2.30   | 2.47   |
| Rhode Island .....               | 6              | 6             | 5             | 2.00           | 2.00   | 1.40   |
| South Carolina .....             | 300            | 270           | 270           | 2.60           | 2.50   | 2.10   |
| South Dakota .....               | 2,950          | 3,250         | 3,350         | 1.56           | 1.78   | 2.09   |
| Tennessee .....                  | 1,665          | 1,720         | 1,763         | 2.26           | 2.46   | 2.31   |
| Texas .....                      | 4,520          | 4,740         | 4,920         | 2.11           | 1.77   | 1.87   |
| Utah .....                       | 705            | 650           | 680           | 3.74           | 3.38   | 3.85   |
| Vermont .....                    | 185            | 170           | 160           | 1.97           | 2.15   | 1.86   |
| Virginia .....                   | 1,195          | 1,140         | 1,145         | 2.31           | 2.23   | 2.23   |
| Washington .....                 | 740            | 760           | 640           | 4.02           | 3.64   | 3.83   |
| West Virginia .....              | 567            | 535           | 515           | 1.78           | 1.72   | 1.74   |
| Wisconsin .....                  | 1,270          | 1,360         | 1,300         | 2.77           | 2.17   | 2.14   |
| Wyoming .....                    | 1,100          | 1,090         | 1,150         | 2.28           | 2.20   | 2.17   |
| United States <sup>2</sup> ..... | 52,777         | 52,839        | 52,425        | 2.43           | 2.34   | 2.46   |

See footnote(s) at end of table.

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# All Hay Area Harvested, Yield, and Production – States and United States: 2017-2019 (continued)

| State                            | Production   |              |              |
|----------------------------------|--------------|--------------|--------------|
|                                  | 2017         | 2018         | 2019         |
|                                  | (1,000 tons) | (1,000 tons) | (1,000 tons) |
| Alabama .....                    | 2,150        | 2,380        | 1,750        |
| Alaska <sup>1</sup> .....        | (X)          | 29           | 29           |
| Arizona .....                    | 2,586        | 2,346        | 2,509        |
| Arkansas .....                   | 2,591        | 2,168        | 2,760        |
| California .....                 | 6,388        | 5,682        | 5,795        |
| Colorado .....                   | 3,960        | 3,621        | 4,052        |
| Connecticut .....                | 110          | 110          | 81           |
| Delaware .....                   | 48           | 34           | 31           |
| Florida .....                    | 750          | 868          | 783          |
| Georgia .....                    | 1,798        | 1,740        | 1,540        |
| Idaho .....                      | 5,128        | 5,019        | 5,111        |
| Illinois .....                   | 1,593        | 1,309        | 1,140        |
| Indiana .....                    | 1,492        | 1,382        | 1,290        |
| Iowa .....                       | 3,268        | 2,998        | 3,116        |
| Kansas .....                     | 5,472        | 4,760        | 6,315        |
| Kentucky .....                   | 5,170        | 5,088        | 4,424        |
| Louisiana .....                  | 1,040        | 836          | 975          |
| Maine .....                      | 241          | 208          | 236          |
| Maryland .....                   | 509          | 552          | 507          |
| Massachusetts .....              | 139          | 117          | 115          |
| Michigan .....                   | 1,989        | 1,812        | 1,858        |
| Minnesota .....                  | 3,797        | 3,077        | 2,966        |
| Mississippi .....                | 1,464        | 1,239        | 1,403        |
| Missouri .....                   | 5,985        | 5,408        | 7,367        |
| Montana .....                    | 4,740        | 5,595        | 6,225        |
| Nebraska .....                   | 5,955        | 6,985        | 6,085        |
| Nevada .....                     | 1,288        | 1,158        | 1,565        |
| New Hampshire .....              | 81           | 69           | 83           |
| New Jersey .....                 | 240          | 220          | 187          |
| New Mexico .....                 | 1,140        | 932          | 954          |
| New York .....                   | 2,650        | 2,744        | 2,240        |
| North Carolina .....             | 1,514        | 2,210        | 1,877        |
| North Dakota .....               | 3,423        | 4,419        | 4,116        |
| Ohio .....                       | 2,371        | 2,356        | 2,137        |
| Oklahoma .....                   | 5,638        | 5,121        | 5,935        |
| Oregon .....                     | 3,304        | 3,056        | 3,362        |
| Pennsylvania .....               | 3,709        | 2,739        | 2,986        |
| Rhode Island .....               | 12           | 12           | 7            |
| South Carolina .....             | 780          | 675          | 567          |
| South Dakota .....               | 4,603        | 5,788        | 7,003        |
| Tennessee .....                  | 3,767        | 4,231        | 4,073        |
| Texas .....                      | 9,548        | 8,374        | 9,216        |
| Utah .....                       | 2,636        | 2,195        | 2,618        |
| Vermont .....                    | 364          | 366          | 298          |
| Virginia .....                   | 2,764        | 2,540        | 2,555        |
| Washington .....                 | 2,973        | 2,764        | 2,448        |
| West Virginia .....              | 1,009        | 922          | 894          |
| Wisconsin .....                  | 3,522        | 2,953        | 2,784        |
| Wyoming .....                    | 2,508        | 2,393        | 2,496        |
| United States <sup>2</sup> ..... | 128,207      | 123,600      | 128,864      |

(X) Not applicable.

<sup>1</sup> Previously was included in the Alaska table. For 2017 data please refer to the Alaska table on page 98.

<sup>2</sup> Beginning in 2018, United States total includes data for Alaska.

# Alfalfa and Alfalfa Mixtures for Hay Area Harvested, Yield, and Production – States and United States: 2017-2019

| State                | Area harvested |               |               | Yield per acre |        |        |
|----------------------|----------------|---------------|---------------|----------------|--------|--------|
|                      | 2017           | 2018          | 2019          | 2017           | 2018   | 2019   |
|                      | (1,000 acres)  | (1,000 acres) | (1,000 acres) | (tons)         | (tons) | (tons) |
| Arizona .....        | 285            | 260           | 280           | 8.40           | 8.30   | 8.30   |
| Arkansas .....       | 3              | 3             | 3             | 3.60           | 2.50   | 3.20   |
| California .....     | 700            | 620           | 580           | 6.80           | 6.90   | 7.10   |
| Colorado .....       | 720            | 730           | 730           | 3.70           | 3.40   | 3.70   |
| Connecticut .....    | 8              | 7             | 7             | 2.30           | 2.50   | 1.90   |
| Delaware .....       | 5              | 4             | 3             | 3.50           | 2.90   | 3.00   |
| Idaho .....          | 1,060          | 1,050         | 1,010         | 4.00           | 4.20   | 4.40   |
| Illinois .....       | 230            | 250           | 200           | 4.10           | 3.30   | 3.50   |
| Indiana .....        | 250            | 240           | 220           | 3.30           | 3.00   | 3.00   |
| Iowa .....           | 720            | 620           | 700           | 3.50           | 3.70   | 3.40   |
| Kansas .....         | 570            | 610           | 630           | 3.60           | 3.50   | 4.00   |
| Kentucky .....       | 185            | 145           | 145           | 3.30           | 3.10   | 3.20   |
| Maine .....          | 10             | 10            | 10            | 2.20           | 2.30   | 2.10   |
| Maryland .....       | 35             | 40            | 34            | 3.90           | 4.50   | 3.50   |
| Massachusetts .....  | 8              | 9             | 6             | 2.50           | 2.10   | 2.70   |
| Michigan .....       | 610            | 590           | 550           | 2.60           | 2.40   | 2.50   |
| Minnesota .....      | 870            | 720           | 730           | 3.35           | 2.85   | 3.10   |
| Missouri .....       | 300            | 270           | 260           | 2.40           | 2.40   | 2.70   |
| Montana .....        | 1,650          | 1,900         | 2,100         | 2.10           | 2.05   | 2.15   |
| Nebraska .....       | 860            | 850           | 950           | 3.95           | 4.30   | 3.80   |
| Nevada .....         | 225            | 185           | 225           | 4.30           | 4.70   | 4.90   |
| New Hampshire .....  | 5              | 4             | 4             | 1.80           | 2.20   | 1.50   |
| New Jersey .....     | 13             | 9             | 11            | 3.10           | 3.40   | 3.20   |
| New Mexico .....     | 190            | 160           | 160           | 5.00           | 4.70   | 4.90   |
| New York .....       | 400            | 300           | 290           | 2.60           | 2.40   | 2.20   |
| North Carolina ..... | 7              | 6             | 6             | 2.70           | 3.90   | 2.30   |
| North Dakota .....   | 1,380          | 1,470         | 1,220         | 1.35           | 1.70   | 1.80   |
| Ohio .....           | 350            | 350           | 330           | 3.20           | 3.10   | 2.90   |
| Oklahoma .....       | 280            | 230           | 205           | 3.10           | 2.70   | 3.00   |
| Oregon .....         | 420            | 420           | 400           | 4.70           | 4.10   | 4.70   |
| Pennsylvania .....   | 430            | 300           | 290           | 3.10           | 2.90   | 3.00   |
| Rhode Island .....   | 1              | 1             | 1             | 2.00           | 2.00   | 2.20   |
| South Dakota .....   | 1,550          | 1,750         | 1,900         | 1.75           | 2.15   | 2.35   |
| Tennessee .....      | 15             | 20            | 13            | 3.60           | 3.30   | 3.70   |
| Texas .....          | 120            | 140           | 120           | 4.40           | 5.60   | 4.80   |
| Utah .....           | 550            | 500           | 510           | 4.20           | 3.70   | 4.30   |
| Vermont .....        | 30             | 20            | 20            | 1.80           | 1.80   | 2.30   |
| Virginia .....       | 65             | 40            | 45            | 3.40           | 3.00   | 3.00   |
| Washington .....     | 390            | 350           | 330           | 5.20           | 4.50   | 4.60   |
| West Virginia .....  | 17             | 15            | 15            | 2.70           | 2.50   | 2.90   |
| Wisconsin .....      | 910            | 820           | 880           | 3.00           | 2.35   | 2.40   |
| Wyoming .....        | 580            | 590           | 620           | 2.80           | 2.70   | 2.70   |
| United States .....  | 17,007         | 16,608        | 16,743        | 3.28           | 3.17   | 3.28   |

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**Alfalfa and Alfalfa Mixtures for Hay Area Harvested, Yield, and Production – States and United States: 2017-2019 (continued)**

| State                | Production   |              |              |
|----------------------|--------------|--------------|--------------|
|                      | 2017         | 2018         | 2019         |
|                      | (1,000 tons) | (1,000 tons) | (1,000 tons) |
| Arizona .....        | 2,394        | 2,158        | 2,324        |
| Arkansas .....       | 11           | 8            | 10           |
| California .....     | 4,760        | 4,278        | 4,118        |
| Colorado .....       | 2,664        | 2,482        | 2,701        |
| Connecticut .....    | 18           | 18           | 13           |
| Delaware .....       | 18           | 12           | 9            |
| Idaho .....          | 4,240        | 4,410        | 4,444        |
| Illinois .....       | 943          | 825          | 700          |
| Indiana .....        | 825          | 720          | 660          |
| Iowa .....           | 2,520        | 2,294        | 2,380        |
| Kansas .....         | 2,052        | 2,135        | 2,520        |
| Kentucky .....       | 611          | 450          | 464          |
| Maine .....          | 22           | 23           | 21           |
| Maryland .....       | 137          | 180          | 119          |
| Massachusetts .....  | 20           | 19           | 16           |
| Michigan .....       | 1,586        | 1,416        | 1,375        |
| Minnesota .....      | 2,915        | 2,052        | 2,263        |
| Missouri .....       | 720          | 648          | 702          |
| Montana .....        | 3,465        | 3,895        | 4,515        |
| Nebraska .....       | 3,397        | 3,655        | 3,610        |
| Nevada .....         | 968          | 870          | 1,103        |
| New Hampshire .....  | 9            | 9            | 6            |
| New Jersey .....     | 40           | 31           | 35           |
| New Mexico .....     | 950          | 752          | 784          |
| New York .....       | 1,040        | 720          | 638          |
| North Carolina ..... | 19           | 23           | 14           |
| North Dakota .....   | 1,863        | 2,499        | 2,196        |
| Ohio .....           | 1,120        | 1,085        | 957          |
| Oklahoma .....       | 868          | 621          | 615          |
| Oregon .....         | 1,974        | 1,722        | 1,880        |
| Pennsylvania .....   | 1,333        | 870          | 870          |
| Rhode Island .....   | 2            | 2            | 2            |
| South Dakota .....   | 2,713        | 3,763        | 4,465        |
| Tennessee .....      | 54           | 66           | 48           |
| Texas .....          | 528          | 784          | 576          |
| Utah .....           | 2,310        | 1,850        | 2,193        |
| Vermont .....        | 54           | 36           | 46           |
| Virginia .....       | 221          | 120          | 135          |
| Washington .....     | 2,028        | 1,575        | 1,518        |
| West Virginia .....  | 46           | 38           | 44           |
| Wisconsin .....      | 2,730        | 1,927        | 2,112        |
| Wyoming .....        | 1,624        | 1,593        | 1,674        |
| United States .....  | 55,812       | 52,634       | 54,875       |

# All Other Hay Area Harvested, Yield, and Production – States and United States: 2017-2019

| State                             | Area harvested |               |               | Yield per acre |        |        |
|-----------------------------------|----------------|---------------|---------------|----------------|--------|--------|
|                                   | 2017           | 2018          | 2019          | 2017           | 2018   | 2019   |
|                                   | (1,000 acres)  | (1,000 acres) | (1,000 acres) | (tons)         | (tons) | (tons) |
| Alabama <sup>1</sup> .....        | 860            | 850           | 700           | 2.50           | 2.80   | 2.50   |
| Alaska <sup>1 2</sup> .....       | (X)            | 22            | 22            | (X)            | 1.30   | 1.30   |
| Arizona .....                     | 40             | 40            | 45            | 4.80           | 4.70   | 4.10   |
| Arkansas .....                    | 1,290          | 1,200         | 1,250         | 2.00           | 1.80   | 2.20   |
| California .....                  | 440            | 360           | 430           | 3.70           | 3.90   | 3.90   |
| Colorado .....                    | 720            | 690           | 730           | 1.80           | 1.65   | 1.85   |
| Connecticut .....                 | 40             | 40            | 40            | 2.30           | 2.30   | 1.70   |
| Delaware .....                    | 10             | 9             | 11            | 3.00           | 2.40   | 2.00   |
| Florida <sup>1</sup> .....        | 300            | 280           | 270           | 2.50           | 3.10   | 2.90   |
| Georgia <sup>1</sup> .....        | 620            | 600           | 560           | 2.90           | 2.90   | 2.75   |
| Idaho .....                       | 370            | 290           | 290           | 2.40           | 2.10   | 2.30   |
| Illinois .....                    | 260            | 220           | 220           | 2.50           | 2.20   | 2.00   |
| Indiana .....                     | 290            | 270           | 300           | 2.30           | 2.45   | 2.10   |
| Iowa .....                        | 340            | 320           | 320           | 2.20           | 2.20   | 2.30   |
| Kansas .....                      | 1,900          | 1,750         | 1,650         | 1.80           | 1.50   | 2.30   |
| Kentucky .....                    | 1,940          | 1,750         | 1,800         | 2.35           | 2.65   | 2.20   |
| Louisiana <sup>1</sup> .....      | 400            | 380           | 390           | 2.60           | 2.20   | 2.50   |
| Maine .....                       | 115            | 100           | 100           | 1.90           | 1.85   | 2.15   |
| Maryland .....                    | 155            | 155           | 155           | 2.40           | 2.40   | 2.50   |
| Massachusetts .....               | 70             | 70            | 45            | 1.70           | 1.40   | 2.20   |
| Michigan .....                    | 260            | 220           | 230           | 1.55           | 1.80   | 2.10   |
| Minnesota .....                   | 490            | 500           | 370           | 1.80           | 2.05   | 1.90   |
| Mississippi <sup>1</sup> .....    | 610            | 590           | 610           | 2.40           | 2.10   | 2.30   |
| Missouri .....                    | 2,700          | 2,800         | 3,100         | 1.95           | 1.70   | 2.15   |
| Montana .....                     | 850            | 1,000         | 900           | 1.50           | 1.70   | 1.90   |
| Nebraska .....                    | 1,650          | 1,850         | 1,500         | 1.55           | 1.80   | 1.65   |
| Nevada .....                      | 160            | 180           | 210           | 2.00           | 1.60   | 2.20   |
| New Hampshire .....               | 40             | 35            | 45            | 1.80           | 1.70   | 1.70   |
| New Jersey .....                  | 95             | 105           | 80            | 2.10           | 1.80   | 1.90   |
| New Mexico .....                  | 95             | 90            | 85            | 2.00           | 2.00   | 2.00   |
| New York .....                    | 920            | 920           | 890           | 1.75           | 2.20   | 1.80   |
| North Carolina .....              | 650            | 810           | 810           | 2.30           | 2.70   | 2.30   |
| North Dakota .....                | 1,200          | 1,200         | 1,200         | 1.30           | 1.60   | 1.60   |
| Ohio .....                        | 610            | 620           | 590           | 2.05           | 2.05   | 2.00   |
| Oklahoma .....                    | 2,650          | 3,000         | 2,800         | 1.80           | 1.50   | 1.90   |
| Oregon .....                      | 665            | 580           | 570           | 2.00           | 2.30   | 2.60   |
| Pennsylvania .....                | 990            | 890           | 920           | 2.40           | 2.10   | 2.30   |
| Rhode Island .....                | 5              | 5             | 4             | 1.90           | 1.90   | 1.30   |
| South Carolina <sup>1</sup> ..... | 300            | 270           | 270           | 2.60           | 2.50   | 2.10   |
| South Dakota .....                | 1,400          | 1,500         | 1,450         | 1.35           | 1.35   | 1.75   |
| Tennessee .....                   | 1,650          | 1,700         | 1,750         | 2.25           | 2.45   | 2.30   |
| Texas .....                       | 4,400          | 4,600         | 4,800         | 2.05           | 1.65   | 1.80   |
| Utah .....                        | 155            | 150           | 170           | 2.10           | 2.30   | 2.50   |
| Vermont .....                     | 155            | 150           | 140           | 2.00           | 2.20   | 1.80   |
| Virginia .....                    | 1,130          | 1,100         | 1,100         | 2.25           | 2.20   | 2.20   |
| Washington .....                  | 350            | 410           | 310           | 2.70           | 2.90   | 3.00   |
| West Virginia .....               | 550            | 520           | 500           | 1.75           | 1.70   | 1.70   |
| Wisconsin .....                   | 360            | 540           | 420           | 2.20           | 1.90   | 1.60   |
| Wyoming .....                     | 520            | 500           | 530           | 1.70           | 1.60   | 1.55   |
| United States <sup>3</sup> .....  | 35,770         | 36,231        | 35,682        | 2.02           | 1.96   | 2.07   |

See footnote(s) at end of table.

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# All Other Hay Area Harvested, Yield, and Production – States and United States: 2017-2019 (continued)

| State                             | Production   |              |              |
|-----------------------------------|--------------|--------------|--------------|
|                                   | 2017         | 2018         | 2019         |
|                                   | (1,000 tons) | (1,000 tons) | (1,000 tons) |
| Alabama <sup>1</sup> .....        | 2,150        | 2,380        | 1,750        |
| Alaska <sup>1 2</sup> .....       | (X)          | 29           | 29           |
| Arizona .....                     | 192          | 188          | 185          |
| Arkansas .....                    | 2,580        | 2,160        | 2,750        |
| California .....                  | 1,628        | 1,404        | 1,677        |
| Colorado .....                    | 1,296        | 1,139        | 1,351        |
| Connecticut .....                 | 92           | 92           | 68           |
| Delaware .....                    | 30           | 22           | 22           |
| Florida <sup>1</sup> .....        | 750          | 868          | 783          |
| Georgia <sup>1</sup> .....        | 1,798        | 1,740        | 1,540        |
| Idaho .....                       | 888          | 609          | 667          |
| Illinois .....                    | 650          | 484          | 440          |
| Indiana .....                     | 667          | 662          | 630          |
| Iowa .....                        | 748          | 704          | 736          |
| Kansas .....                      | 3,420        | 2,625        | 3,795        |
| Kentucky .....                    | 4,559        | 4,638        | 3,960        |
| Louisiana <sup>1</sup> .....      | 1,040        | 836          | 975          |
| Maine .....                       | 219          | 185          | 215          |
| Maryland .....                    | 372          | 372          | 388          |
| Massachusetts .....               | 119          | 98           | 99           |
| Michigan .....                    | 403          | 396          | 483          |
| Minnesota .....                   | 882          | 1,025        | 703          |
| Mississippi <sup>1</sup> .....    | 1,464        | 1,239        | 1,403        |
| Missouri .....                    | 5,265        | 4,760        | 6,665        |
| Montana .....                     | 1,275        | 1,700        | 1,710        |
| Nebraska .....                    | 2,558        | 3,330        | 2,475        |
| Nevada .....                      | 320          | 288          | 462          |
| New Hampshire .....               | 72           | 60           | 77           |
| New Jersey .....                  | 200          | 189          | 152          |
| New Mexico .....                  | 190          | 180          | 170          |
| New York .....                    | 1,610        | 2,024        | 1,602        |
| North Carolina .....              | 1,495        | 2,187        | 1,863        |
| North Dakota .....                | 1,560        | 1,920        | 1,920        |
| Ohio .....                        | 1,251        | 1,271        | 1,180        |
| Oklahoma .....                    | 4,770        | 4,500        | 5,320        |
| Oregon .....                      | 1,330        | 1,334        | 1,482        |
| Pennsylvania .....                | 2,376        | 1,869        | 2,116        |
| Rhode Island .....                | 10           | 10           | 5            |
| South Carolina <sup>1</sup> ..... | 780          | 675          | 567          |
| South Dakota .....                | 1,890        | 2,025        | 2,538        |
| Tennessee .....                   | 3,713        | 4,165        | 4,025        |
| Texas .....                       | 9,020        | 7,590        | 8,640        |
| Utah .....                        | 326          | 345          | 425          |
| Vermont .....                     | 310          | 330          | 252          |
| Virginia .....                    | 2,543        | 2,420        | 2,420        |
| Washington .....                  | 945          | 1,189        | 930          |
| West Virginia .....               | 963          | 884          | 850          |
| Wisconsin .....                   | 792          | 1,026        | 672          |
| Wyoming .....                     | 884          | 800          | 822          |
| United States <sup>3</sup> .....  | 72,395       | 70,966       | 73,989       |

(X) Not applicable.

<sup>1</sup> Alfalfa and alfalfa mixtures included in all other hay.

<sup>2</sup> Previously included in the Alaska table. For 2017 data please refer to the Alaska table on page 98.

<sup>3</sup> Beginning in 2018, United States total includes data for Alaska.

## Forage Production

Forage production is the sum of all dry hay production and haylage/greenchop production after converting the haylage/greenchop production to a dry equivalent basis (13 percent moisture) by multiplying the green weight (weight at harvest) by 0.4943. The conversion factor (0.4943) is based on the assumption that one ton of dry hay is 0.87 ton of dry matter, one ton of haylage is 0.45 ton dry matter and one ton of greenchop is 0.25 ton dry matter. The total haylage/greenchop production is assumed to be comprised of 90 percent haylage and 10 percent greenchop. Therefore, the conversion factor used to adjust haylage/greenchop production to a dry equivalent basis =  $((0.45 \times 0.9) + (0.25 \times 0.1)) / 0.87 = 0.4943$ . The factors assumed here may vary by State and can be adjusted. Adjustments would result in a slightly different conversion factor.

### All Forage Area Harvested, Yield, and Production – States and 17 State Total: 2017-2019

[All forage production is the sum of the following dry equivalents: alfalfa hay harvested as dry hay, all other hay harvested as dry hay, alfalfa haylage and greenchop, all other haylage and greenchop; after converting alfalfa and all other haylage and greenchop to a dry equivalent basis]

| State                | Area harvested |               |               | Yield per acre |        |        |
|----------------------|----------------|---------------|---------------|----------------|--------|--------|
|                      | 2017           | 2018          | 2019          | 2017           | 2018   | 2019   |
|                      | (1,000 acres)  | (1,000 acres) | (1,000 acres) | (tons)         | (tons) | (tons) |
| California .....     | 1,360          | 1,180         | 1,190         | 5.92           | 5.98   | 5.93   |
| Idaho .....          | 1,495          | 1,380         | 1,380         | 3.74           | 4.00   | 4.35   |
| Illinois .....       | 515            | 485           | 450           | 3.46           | 2.92   | 2.86   |
| Iowa .....           | 1,120          | 995           | 1,115         | 3.23           | 3.31   | 3.15   |
| Kansas .....         | 2,565          | 2,460         | 2,345         | 2.32           | 2.09   | 2.85   |
| Michigan .....       | 1,050          | 1,010         | 990           | 2.86           | 2.70   | 2.99   |
| Minnesota .....      | 1,550          | 1,380         | 1,330         | 2.97           | 2.73   | 2.82   |
| Missouri .....       | 3,060          | 3,170         | 3,490         | 2.02           | 1.81   | 2.20   |
| Nebraska .....       | 2,535          | 2,730         | 2,505         | 2.42           | 2.59   | 2.50   |
| New York .....       | 1,800          | 1,740         | 1,640         | 2.73           | 3.01   | 2.52   |
| Ohio .....           | 1,060          | 1,035         | 970           | 2.72           | 2.66   | 2.62   |
| Pennsylvania .....   | 1,795          | 1,465         | 1,430         | 2.92           | 2.77   | 2.98   |
| South Dakota .....   | 3,020          | 3,330         | 3,505         | 1.60           | 1.83   | 2.10   |
| Texas .....          | 4,655          | 4,845         | 5,045         | 2.20           | 1.84   | 1.98   |
| Vermont .....        | 290            | 295           | 265           | 3.47           | 3.76   | 3.54   |
| Washington .....     | 815            | 830           | 670           | 4.35           | 4.07   | 4.02   |
| Wisconsin .....      | 2,170          | 2,210         | 2,330         | 3.52           | 2.93   | 2.63   |
| 17 State total ..... | 30,855         | 30,540        | 30,650        | 2.76           | 2.61   | 2.71   |

| State                | Production   |              |              |
|----------------------|--------------|--------------|--------------|
|                      | 2017         | 2018         | 2019         |
|                      | (1,000 tons) | (1,000 tons) | (1,000 tons) |
| California .....     | 8,052        | 7,053        | 7,060        |
| Idaho .....          | 5,587        | 5,516        | 6,000        |
| Illinois .....       | 1,783        | 1,417        | 1,285        |
| Iowa .....           | 3,619        | 3,289        | 3,517        |
| Kansas .....         | 5,949        | 5,140        | 6,690        |
| Michigan .....       | 3,006        | 2,729        | 2,959        |
| Minnesota .....      | 4,597        | 3,763        | 3,745        |
| Missouri .....       | 6,193        | 5,737        | 7,661        |
| Nebraska .....       | 6,125        | 7,084        | 6,258        |
| New York .....       | 4,913        | 5,233        | 4,130        |
| Ohio .....           | 2,878        | 2,757        | 2,546        |
| Pennsylvania .....   | 5,242        | 4,065        | 4,265        |
| South Dakota .....   | 4,827        | 6,110        | 7,365        |
| Texas .....          | 10,236       | 8,910        | 9,965        |
| Vermont .....        | 1,006        | 1,110        | 939          |
| Washington .....     | 3,542        | 3,382        | 2,694        |
| Wisconsin .....      | 7,643        | 6,479        | 6,135        |
| 17 State total ..... | 85,198       | 79,774       | 83,214       |

## All Alfalfa Forage Area Harvested, Yield, and Production – States and 17 State Total: 2017-2019

[All alfalfa forage production is the sum of alfalfa harvested as dry hay and alfalfa haylage and greenchop production after converting it to a dry equivalent basis]

| State                | Area harvested |               |               | Yield per acre |        |        |
|----------------------|----------------|---------------|---------------|----------------|--------|--------|
|                      | 2017           | 2018          | 2019          | 2017           | 2018   | 2019   |
|                      | (1,000 acres)  | (1,000 acres) | (1,000 acres) | (tons)         | (tons) | (tons) |
| California .....     | 740            | 670           | 610           | 6.71           | 6.75   | 7.06   |
| Idaho .....          | 1,090          | 1,080         | 1,060         | 4.18           | 4.43   | 4.86   |
| Illinois .....       | 245            | 260           | 220           | 4.45           | 3.47   | 3.68   |
| Iowa .....           | 770            | 655           | 765           | 3.67           | 3.84   | 3.52   |
| Kansas .....         | 585            | 620           | 645           | 3.72           | 3.54   | 4.05   |
| Michigan .....       | 780            | 780           | 750           | 3.23           | 2.94   | 3.20   |
| Minnesota .....      | 1,040          | 850           | 930           | 3.52           | 3.13   | 3.20   |
| Missouri .....       | 310            | 290           | 290           | 2.51           | 2.68   | 2.69   |
| Nebraska .....       | 870            | 870           | 990           | 3.98           | 4.26   | 3.75   |
| New York .....       | 700            | 650           | 530           | 3.73           | 3.95   | 3.47   |
| Ohio .....           | 410            | 390           | 370           | 3.60           | 3.66   | 3.44   |
| Pennsylvania .....   | 645            | 465           | 380           | 3.59           | 3.65   | 4.37   |
| South Dakota .....   | 1,580          | 1,800         | 2,000         | 1.78           | 2.21   | 2.34   |
| Texas .....          | 125            | 145           | 125           | 4.47           | 5.52   | 4.90   |
| Vermont .....        | 50             | 45            | 35            | 4.24           | 4.27   | 4.94   |
| Washington .....     | 425            | 355           | 350           | 5.32           | 4.72   | 4.63   |
| Wisconsin .....      | 1,700          | 1,590         | 1,680         | 3.83           | 3.29   | 3.00   |
| 17 State total ..... | 12,065         | 11,515        | 11,730        | 3.71           | 3.64   | 3.61   |

| State                | Production   |              |              |
|----------------------|--------------|--------------|--------------|
|                      | 2017         | 2018         | 2019         |
|                      | (1,000 tons) | (1,000 tons) | (1,000 tons) |
| California .....     | 4,968        | 4,523        | 4,308        |
| Idaho .....          | 4,561        | 4,788        | 5,155        |
| Illinois .....       | 1,090        | 902          | 810          |
| Iowa .....           | 2,828        | 2,514        | 2,690        |
| Kansas .....         | 2,176        | 2,194        | 2,613        |
| Michigan .....       | 2,523        | 2,290        | 2,403        |
| Minnesota .....      | 3,665        | 2,657        | 2,975        |
| Missouri .....       | 779          | 778          | 781          |
| Nebraska .....       | 3,463        | 3,704        | 3,711        |
| New York .....       | 2,611        | 2,566        | 1,840        |
| Ohio .....           | 1,476        | 1,428        | 1,273        |
| Pennsylvania .....   | 2,316        | 1,698        | 1,661        |
| South Dakota .....   | 2,807        | 3,985        | 4,682        |
| Texas .....          | 559          | 801          | 613          |
| Vermont .....        | 212          | 192          | 173          |
| Washington .....     | 2,263        | 1,676        | 1,619        |
| Wisconsin .....      | 6,519        | 5,239        | 5,036        |
| 17 State total ..... | 44,816       | 41,935       | 42,343       |

## All Other Forage Area Harvested, Yield, and Production – States and 17 State Total: 2017-2019

[All other forage production is the sum of other harvested as dry hay and other haylage and greenchop production after converting it to a dry equivalent basis]

| State                | Area harvested |               |               | Yield per acre |        |        |
|----------------------|----------------|---------------|---------------|----------------|--------|--------|
|                      | 2017           | 2018          | 2019          | 2017           | 2018   | 2019   |
|                      | (1,000 acres)  | (1,000 acres) | (1,000 acres) | (tons)         | (tons) | (tons) |
| California .....     | 620            | 510           | 580           | 4.97           | 4.96   | 4.74   |
| Idaho .....          | 405            | 300           | 320           | 2.53           | 2.43   | 2.64   |
| Illinois .....       | 270            | 225           | 230           | 2.57           | 2.29   | 2.07   |
| Iowa .....           | 350            | 340           | 350           | 2.26           | 2.28   | 2.36   |
| Kansas .....         | 1,980          | 1,840         | 1,700         | 1.91           | 1.60   | 2.40   |
| Michigan .....       | 270            | 230           | 240           | 1.79           | 1.91   | 2.32   |
| Minnesota .....      | 510            | 530           | 400           | 1.83           | 2.09   | 1.93   |
| Missouri .....       | 2,750          | 2,880         | 3,200         | 1.97           | 1.72   | 2.15   |
| Nebraska .....       | 1,665          | 1,860         | 1,515         | 1.60           | 1.82   | 1.68   |
| New York .....       | 1,100          | 1,090         | 1,110         | 2.09           | 2.45   | 2.06   |
| Ohio .....           | 650            | 645           | 600           | 2.16           | 2.06   | 2.12   |
| Pennsylvania .....   | 1,150          | 1,000         | 1,050         | 2.54           | 2.37   | 2.48   |
| South Dakota .....   | 1,440          | 1,530         | 1,505         | 1.40           | 1.39   | 1.78   |
| Texas .....          | 4,530          | 4,700         | 4,920         | 2.14           | 1.73   | 1.90   |
| Vermont .....        | 240            | 250           | 230           | 3.31           | 3.67   | 3.33   |
| Washington .....     | 390            | 475           | 320           | 3.28           | 3.59   | 3.36   |
| Wisconsin .....      | 470            | 620           | 650           | 2.39           | 2.00   | 1.69   |
| 17 State total ..... | 18,790         | 19,025        | 18,920        | 2.15           | 1.99   | 2.16   |

| State                | Production   |              |              |
|----------------------|--------------|--------------|--------------|
|                      | 2017         | 2018         | 2019         |
|                      | (1,000 tons) | (1,000 tons) | (1,000 tons) |
| California .....     | 3,084        | 2,530        | 2,752        |
| Idaho .....          | 1,026        | 728          | 845          |
| Illinois .....       | 693          | 515          | 475          |
| Iowa .....           | 791          | 775          | 827          |
| Kansas .....         | 3,773        | 2,946        | 4,077        |
| Michigan .....       | 483          | 439          | 556          |
| Minnesota .....      | 932          | 1,106        | 770          |
| Missouri .....       | 5,414        | 4,959        | 6,880        |
| Nebraska .....       | 2,662        | 3,380        | 2,547        |
| New York .....       | 2,302        | 2,667        | 2,290        |
| Ohio .....           | 1,402        | 1,329        | 1,273        |
| Pennsylvania .....   | 2,926        | 2,367        | 2,604        |
| South Dakota .....   | 2,020        | 2,125        | 2,683        |
| Texas .....          | 9,677        | 8,109        | 9,352        |
| Vermont .....        | 794          | 918          | 766          |
| Washington .....     | 1,279        | 1,706        | 1,075        |
| Wisconsin .....      | 1,124        | 1,240        | 1,099        |
| 17 State total ..... | 40,382       | 37,839       | 40,871       |

## All Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State

### Total: 2017-2019

[Includes all types of forage harvested as haylage or greenchop (green weight). Forage harvested as dry hay and corn and sorghum silage/greenchop are not included]

| State                | Area harvested |               |               | Yield per acre |        |        |
|----------------------|----------------|---------------|---------------|----------------|--------|--------|
|                      | 2017           | 2018          | 2019          | 2017           | 2018   | 2019   |
|                      | (1,000 acres)  | (1,000 acres) | (1,000 acres) | (tons)         | (tons) | (tons) |
| California .....     | 265            | 250           | 210           | 12.70          | 11.10  | 12.19  |
| Idaho .....          | 100            | 105           | 155           | 9.30           | 9.57   | 11.60  |
| Illinois .....       | 53             | 38            | 49            | 7.23           | 5.74   | 5.96   |
| Iowa .....           | 100            | 80            | 140           | 7.12           | 7.36   | 5.80   |
| Kansas .....         | 135            | 120           | 85            | 7.15           | 6.42   | 8.92   |
| Michigan .....       | 275            | 285           | 290           | 7.48           | 6.51   | 7.68   |
| Minnesota .....      | 250            | 220           | 265           | 6.48           | 6.31   | 5.95   |
| Missouri .....       | 90             | 155           | 190           | 4.68           | 4.29   | 3.13   |
| Nebraska .....       | 50             | 40            | 75            | 6.88           | 5.05   | 4.67   |
| New York .....       | 660            | 710           | 610           | 6.94           | 7.09   | 6.27   |
| Ohio .....           | 205            | 135           | 125           | 5.00           | 6.00   | 6.62   |
| Pennsylvania .....   | 475            | 410           | 390           | 6.53           | 6.54   | 6.64   |
| South Dakota .....   | 105            | 120           | 190           | 4.32           | 5.44   | 3.85   |
| Texas .....          | 199            | 145           | 190           | 7.00           | 7.48   | 7.97   |
| Vermont .....        | 180            | 185           | 165           | 7.22           | 8.14   | 7.85   |
| Washington .....     | 125            | 119           | 85            | 9.20           | 10.50  | 5.85   |
| Wisconsin .....      | 1,190          | 1,120         | 1,290         | 7.01           | 6.37   | 5.26   |
| 17 State total ..... | 4,457          | 4,237         | 4,504         | 7.21           | 6.99   | 6.44   |

| State                | Production   |              |              |
|----------------------|--------------|--------------|--------------|
|                      | 2017         | 2018         | 2019         |
|                      | (1,000 tons) | (1,000 tons) | (1,000 tons) |
| California .....     | 3,365        | 2,774        | 2,559        |
| Idaho .....          | 930          | 1,005        | 1,798        |
| Illinois .....       | 383          | 218          | 292          |
| Iowa .....           | 712          | 589          | 812          |
| Kansas .....         | 965          | 770          | 758          |
| Michigan .....       | 2,057        | 1,856        | 2,227        |
| Minnesota .....      | 1,620        | 1,388        | 1,576        |
| Missouri .....       | 421          | 665          | 595          |
| Nebraska .....       | 344          | 202          | 350          |
| New York .....       | 4,578        | 5,035        | 3,824        |
| Ohio .....           | 1,026        | 810          | 828          |
| Pennsylvania .....   | 3,101        | 2,683        | 2,588        |
| South Dakota .....   | 454          | 653          | 731          |
| Texas .....          | 1,393        | 1,085        | 1,515        |
| Vermont .....        | 1,300        | 1,505        | 1,296        |
| Washington .....     | 1,150        | 1,249        | 497          |
| Wisconsin .....      | 8,337        | 7,132        | 6,780        |
| 17 State total ..... | 32,136       | 29,619       | 29,026       |

# Alfalfa Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State Total: 2017-2019

[Includes only alfalfa and alfalfa mixtures that were harvested as haylage or greenchop (green weight). Alfalfa harvested as dry hay is not included]

| State                | Area harvested |               |               | Yield per acre |        |        |
|----------------------|----------------|---------------|---------------|----------------|--------|--------|
|                      | 2017           | 2018          | 2019          | 2017           | 2018   | 2019   |
|                      | (1,000 acres)  | (1,000 acres) | (1,000 acres) | (tons)         | (tons) | (tons) |
| California .....     | 70             | 80            | 60            | 6.00           | 6.20   | 6.40   |
| Idaho .....          | 65             | 85            | 115           | 10.00          | 9.00   | 12.50  |
| Illinois .....       | 33             | 24            | 30            | 9.00           | 6.50   | 7.40   |
| Iowa .....           | 80             | 55            | 95            | 7.80           | 8.10   | 6.60   |
| Kansas .....         | 25             | 20            | 25            | 10.00          | 6.00   | 7.50   |
| Michigan .....       | 240            | 260           | 260           | 7.90           | 6.80   | 8.00   |
| Minnesota .....      | 220            | 180           | 225           | 6.90           | 6.80   | 6.40   |
| Missouri .....       | 20             | 35            | 40            | 6.00           | 7.50   | 4.00   |
| Nebraska .....       | 20             | 25            | 50            | 6.70           | 4.00   | 4.10   |
| New York .....       | 410            | 450           | 320           | 7.75           | 8.30   | 7.60   |
| Ohio .....           | 120            | 90            | 90            | 6.00           | 7.70   | 7.10   |
| Pennsylvania .....   | 265            | 250           | 200           | 7.50           | 6.70   | 8.00   |
| South Dakota .....   | 50             | 75            | 125           | 3.80           | 6.00   | 3.50   |
| Texas .....          | 9              | 5             | 10            | 7.00           | 7.00   | 7.50   |
| Vermont .....        | 40             | 45            | 35            | 8.00           | 7.00   | 7.30   |
| Washington .....     | 50             | 24            | 40            | 9.50           | 8.50   | 5.10   |
| Wisconsin .....      | 1,050          | 1,000         | 1,020         | 7.30           | 6.70   | 5.80   |
| 17 State total ..... | 2,767          | 2,703         | 2,740         | 7.41           | 7.08   | 6.68   |

| State                | Production   |              |              |
|----------------------|--------------|--------------|--------------|
|                      | 2017         | 2018         | 2019         |
|                      | (1,000 tons) | (1,000 tons) | (1,000 tons) |
| California .....     | 420          | 496          | 384          |
| Idaho .....          | 650          | 765          | 1,438        |
| Illinois .....       | 297          | 156          | 222          |
| Iowa .....           | 624          | 446          | 627          |
| Kansas .....         | 250          | 120          | 188          |
| Michigan .....       | 1,896        | 1,768        | 2,080        |
| Minnesota .....      | 1,518        | 1,224        | 1,440        |
| Missouri .....       | 120          | 263          | 160          |
| Nebraska .....       | 134          | 100          | 205          |
| New York .....       | 3,178        | 3,735        | 2,432        |
| Ohio .....           | 720          | 693          | 639          |
| Pennsylvania .....   | 1,988        | 1,675        | 1,600        |
| South Dakota .....   | 190          | 450          | 438          |
| Texas .....          | 63           | 35           | 75           |
| Vermont .....        | 320          | 315          | 256          |
| Washington .....     | 475          | 204          | 204          |
| Wisconsin .....      | 7,665        | 6,700        | 5,916        |
| 17 State total ..... | 20,508       | 19,145       | 18,304       |

## All Other Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State Total: 2017-2019

[Includes all types of mixtures excluding alfalfa that were harvested as haylage or greenchop (green weight). All other area harvested as dry hay is not included]

| State                | Area harvested |               |               | Yield per acre |        |        |
|----------------------|----------------|---------------|---------------|----------------|--------|--------|
|                      | 2017           | 2018          | 2019          | 2017           | 2018   | 2019   |
|                      | (1,000 acres)  | (1,000 acres) | (1,000 acres) | (tons)         | (tons) | (tons) |
| California .....     | 195            | 170           | 150           | 15.10          | 13.40  | 14.50  |
| Idaho .....          | 35             | 20            | 40            | 8.00           | 12.00  | 9.00   |
| Illinois .....       | 20             | 14            | 19            | 4.30           | 4.40   | 3.70   |
| Iowa .....           | 20             | 25            | 45            | 4.40           | 5.70   | 4.10   |
| Kansas .....         | 110            | 100           | 60            | 6.50           | 6.50   | 9.50   |
| Michigan .....       | 35             | 25            | 30            | 4.60           | 3.50   | 4.90   |
| Minnesota .....      | 30             | 40            | 40            | 3.40           | 4.10   | 3.40   |
| Missouri .....       | 70             | 120           | 150           | 4.30           | 3.35   | 2.90   |
| Nebraska .....       | 30             | 15            | 25            | 7.00           | 6.80   | 5.80   |
| New York .....       | 250            | 260           | 290           | 5.60           | 5.00   | 4.80   |
| Ohio .....           | 85             | 45            | 35            | 3.60           | 2.60   | 5.40   |
| Pennsylvania .....   | 210            | 160           | 190           | 5.30           | 6.30   | 5.20   |
| South Dakota .....   | 55             | 45            | 65            | 4.80           | 4.50   | 4.50   |
| Texas .....          | 190            | 140           | 180           | 7.00           | 7.50   | 8.00   |
| Vermont .....        | 140            | 140           | 130           | 7.00           | 8.50   | 8.00   |
| Washington .....     | 75             | 95            | 45            | 9.00           | 11.00  | 6.50   |
| Wisconsin .....      | 140            | 120           | 270           | 4.80           | 3.60   | 3.20   |
| 17 State total ..... | 1,690          | 1,534         | 1,764         | 6.88           | 6.83   | 6.08   |

| State                | Production   |              |              |
|----------------------|--------------|--------------|--------------|
|                      | 2017         | 2018         | 2019         |
|                      | (1,000 tons) | (1,000 tons) | (1,000 tons) |
| California .....     | 2,945        | 2,278        | 2,175        |
| Idaho .....          | 280          | 240          | 360          |
| Illinois .....       | 86           | 62           | 70           |
| Iowa .....           | 88           | 143          | 185          |
| Kansas .....         | 715          | 650          | 570          |
| Michigan .....       | 161          | 88           | 147          |
| Minnesota .....      | 102          | 164          | 136          |
| Missouri .....       | 301          | 402          | 435          |
| Nebraska .....       | 210          | 102          | 145          |
| New York .....       | 1,400        | 1,300        | 1,392        |
| Ohio .....           | 306          | 117          | 189          |
| Pennsylvania .....   | 1,113        | 1,008        | 988          |
| South Dakota .....   | 264          | 203          | 293          |
| Texas .....          | 1,330        | 1,050        | 1,440        |
| Vermont .....        | 980          | 1,190        | 1,040        |
| Washington .....     | 675          | 1,045        | 293          |
| Wisconsin .....      | 672          | 432          | 864          |
| 17 State total ..... | 11,628       | 10,474       | 10,722       |

# New Seedings of Alfalfa and Alfalfa Mixtures – States and United States: 2017-2019

| State                | Area seeded   |               |               |
|----------------------|---------------|---------------|---------------|
|                      | 2017          | 2018          | 2019          |
|                      | (1,000 acres) | (1,000 acres) | (1,000 acres) |
| Arizona .....        | 60            | 35            | 55            |
| Arkansas .....       | 1             | 1             | 1             |
| California .....     | 100           | 95            | 80            |
| Colorado .....       | 70            | 85            | 80            |
| Connecticut .....    | 1             | 1             | 1             |
| Delaware .....       | 1             | 1             | 1             |
| Idaho .....          | 125           | 155           | 135           |
| Illinois .....       | 20            | 55            | 35            |
| Indiana .....        | 40            | 40            | 40            |
| Iowa .....           | 80            | 105           | 140           |
| Kansas .....         | 65            | 55            | 75            |
| Kentucky .....       | 17            | 20            | 17            |
| Maine .....          | 1             | 2             | 2             |
| Maryland .....       | 8             | 4             | 3             |
| Massachusetts .....  | 1             | 1             | 1             |
| Michigan .....       | 80            | 100           | 100           |
| Minnesota .....      | 160           | 130           | 160           |
| Missouri .....       | 30            | 30            | 35            |
| Montana .....        | 100           | 115           | 130           |
| Nebraska .....       | 150           | 120           | 140           |
| Nevada .....         | 22            | 21            | 30            |
| New Hampshire .....  | 1             | 1             | 1             |
| New Jersey .....     | 1             | 1             | 2             |
| New Mexico .....     | 15            | 30            | 15            |
| New York .....       | 85            | 95            | 70            |
| North Carolina ..... | 1             | 1             | 2             |
| North Dakota .....   | 130           | 95            | 70            |
| Ohio .....           | 50            | 35            | 60            |
| Oklahoma .....       | 25            | 30            | 55            |
| Oregon .....         | 65            | 40            | 70            |
| Pennsylvania .....   | 80            | 60            | 80            |
| South Dakota .....   | 125           | 170           | 135           |
| Tennessee .....      | 3             | 2             | 1             |
| Texas .....          | 10            | 15            | 10            |
| Utah .....           | 60            | 50            | 65            |
| Vermont .....        | 4             | 7             | 4             |
| Virginia .....       | 11            | 10            | 7             |
| Washington .....     | 70            | 60            | 50            |
| West Virginia .....  | 2             | 3             | 1             |
| Wisconsin .....      | 300           | 310           | 480           |
| Wyoming .....        | 40            | 35            | 30            |
| United States .....  | 2,210         | 2,221         | 2,469         |

# **Peanut Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019**

| State                | Area planted   |               |               | Area harvested |                |                |
|----------------------|----------------|---------------|---------------|----------------|----------------|----------------|
|                      | 2017           | 2018          | 2019          | 2017           | 2018           | 2019           |
|                      | (1,000 acres)  | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres)  | (1,000 acres)  |
| Alabama .....        | 195.0          | 165.0         | 160.0         | 193.0          | 161.0          | 158.0          |
| Arkansas .....       | 30.0           | 26.0          | 34.0          | 29.0           | 23.0           | 33.0           |
| Florida .....        | 195.0          | 155.0         | 165.0         | 185.0          | 143.0          | 155.0          |
| Georgia .....        | 835.0          | 665.0         | 670.0         | 825.0          | 655.0          | 660.0          |
| Mississippi .....    | 44.0           | 25.0          | 20.0          | 43.0           | 24.0           | 19.0           |
| New Mexico .....     | 7.6            | 5.5           | 4.7           | 7.6            | 5.5            | 4.7            |
| North Carolina ..... | 119.0          | 102.0         | 104.0         | 117.0          | 98.0           | 102.0          |
| Oklahoma .....       | 22.0           | 16.0          | 15.0          | 21.0           | 15.0           | 14.0           |
| South Carolina ..... | 122.0          | 87.0          | 65.0          | 118.0          | 80.0           | 62.0           |
| Texas .....          | 275.0          | 155.0         | 165.0         | 210.0          | 145.0          | 160.0          |
| Virginia .....       | 27.0           | 24.0          | 25.0          | 27.0           | 24.0           | 24.0           |
| United States .....  | 1,871.6        | 1,425.5       | 1,427.7       | 1,775.6        | 1,373.5        | 1,391.7        |
| State                | Yield per acre |               |               | Production     |                |                |
|                      | 2017           | 2018          | 2019          | 2017           | 2018           | 2019           |
|                      | (pounds)       | (pounds)      | (pounds)      | (1,000 pounds) | (1,000 pounds) | (1,000 pounds) |
| Alabama .....        | 3,650          | 3,550         | 3,350         | 704,450        | 571,550        | 529,300        |
| Arkansas .....       | 5,300          | 4,900         | 5,200         | 153,700        | 112,700        | 171,600        |
| Florida .....        | 3,450          | 3,950         | 3,800         | 638,250        | 564,850        | 589,000        |
| Georgia .....        | 4,330          | 4,390         | 4,200         | 3,572,250      | 2,875,450      | 2,772,000      |
| Mississippi .....    | 4,000          | 3,900         | 4,000         | 172,000        | 93,600         | 76,000         |
| New Mexico .....     | 3,500          | 2,850         | 3,210         | 26,600         | 15,675         | 15,087         |
| North Carolina ..... | 4,100          | 3,870         | 4,350         | 479,700        | 379,260        | 443,700        |
| Oklahoma .....       | 3,780          | 3,070         | 4,100         | 79,380         | 46,050         | 57,400         |
| South Carolina ..... | 4,000          | 3,400         | 3,800         | 472,000        | 272,000        | 235,600        |
| Texas .....          | 3,320          | 3,200         | 3,100         | 697,200        | 464,000        | 496,000        |
| Virginia .....       | 4,440          | 4,200         | 4,600         | 119,880        | 100,800        | 110,400        |
| United States .....  | 4,007          | 4,001         | 3,949         | 7,115,410      | 5,495,935      | 5,496,087      |

# Canola Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

| State                     | Area planted   |               |               | Area harvested |                |                |
|---------------------------|----------------|---------------|---------------|----------------|----------------|----------------|
|                           | 2017           | 2018          | 2019          | 2017           | 2018           | 2019           |
|                           | (1,000 acres)  | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres)  | (1,000 acres)  |
| Idaho <sup>1</sup> .....  | 23.0           | 43.0          | (NA)          | 22.3           | 42.0           | (NA)           |
| Kansas .....              | 50.0           | 47.0          | 29.0          | 47.0           | 35.0           | 19.0           |
| Minnesota .....           | 36.0           | 46.0          | 51.0          | 34.5           | 45.0           | 49.0           |
| Montana .....             | 155.0          | 120.0         | 150.0         | 137.0          | 116.0          | 138.0          |
| North Dakota .....        | 1,590.0        | 1,590.0       | 1,700.0       | 1,560.0        | 1,580.0        | 1,610.0        |
| Oklahoma .....            | 160.0          | 70.0          | 35.0          | 140.0          | 53.0           | 21.0           |
| Oregon <sup>1</sup> ..... | 8.0            | 4.7           | (NA)          | 7.2            | 4.5            | (NA)           |
| Washington .....          | 55.0           | 70.0          | 75.0          | 54.0           | 67.0           | 73.0           |
| United States .....       | 2,077.0        | 1,990.7       | 2,040.0       | 2,002.0        | 1,942.5        | 1,910.0        |
| State                     | Yield per acre |               |               | Production     |                |                |
|                           | 2017           | 2018          | 2019          | 2017           | 2018           | 2019           |
|                           | (pounds)       | (pounds)      | (pounds)      | (1,000 pounds) | (1,000 pounds) | (1,000 pounds) |
| Idaho <sup>1</sup> .....  | 1,700          | 2,100         | (NA)          | 37,910         | 88,200         | (NA)           |
| Kansas .....              | 1,320          | 960           | 1,090         | 62,040         | 33,600         | 20,710         |
| Minnesota .....           | 2,080          | 2,060         | 2,270         | 71,760         | 92,700         | 111,230        |
| Montana .....             | 860            | 1,120         | 1,450         | 117,820        | 129,920        | 200,100        |
| North Dakota .....        | 1,600          | 1,960         | 1,800         | 2,496,000      | 3,096,800      | 2,898,000      |
| Oklahoma .....            | 1,200          | 880           | 1,410         | 168,000        | 46,640         | 29,610         |
| Oregon <sup>1</sup> ..... | 1,550          | 1,700         | (NA)          | 11,160         | 7,650          | (NA)           |
| Washington .....          | 1,680          | 1,790         | 1,950         | 90,720         | 119,930        | 142,350        |
| United States .....       | 1,526          | 1,861         | 1,781         | 3,055,410      | 3,615,440      | 3,402,000      |

(NA) Not available.

<sup>1</sup> Estimates discontinued in 2019.

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# Sunflower Area Planted and Harvested, Yield, and Production by Type – States and United States: 2017-2019

| Varietal type and State | Area planted  |               |               | Area harvested |               |               |
|-------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                         | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                         | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| <b>Oil</b>              |               |               |               |                |               |               |
| California .....        | 54.0          | 58.0          | 49.0          | 52.5           | 57.0          | 49.0          |
| Colorado .....          | 80.0          | 58.0          | 47.0          | 73.0           | 49.0          | 44.0          |
| Kansas .....            | 52.0          | 43.0          | 37.0          | 50.0           | 41.0          | 32.0          |
| Minnesota .....         | 34.0          | 45.0          | 53.0          | 33.0           | 44.0          | 51.0          |
| Nebraska .....          | 30.0          | 25.0          | 28.0          | 28.5           | 24.0          | 26.0          |
| North Dakota .....      | 395.0         | 395.0         | 470.0         | 381.0          | 380.0         | 430.0         |
| South Dakota .....      | 540.0         | 520.0         | 485.0         | 520.0          | 480.0         | 460.0         |
| Texas .....             | 31.0          | 20.0          | 28.0          | 30.0           | 19.0          | 26.0          |
| United States .....     | 1,216.0       | 1,164.0       | 1,197.0       | 1,168.0        | 1,094.0       | 1,118.0       |
| <b>Non-oil</b>          |               |               |               |                |               |               |
| California .....        | 1.3           | 2.0           | 1.6           | 1.3            | 2.0           | 1.6           |
| Colorado .....          | 12.0          | 8.0           | 12.0          | 11.0           | 7.0           | 11.0          |
| Kansas .....            | 13.5          | 10.0          | 8.0           | 12.2           | 8.5           | 7.3           |
| Minnesota .....         | 4.7           | 7.5           | 5.0           | 3.3            | 6.9           | 4.6           |
| Nebraska .....          | 15.5          | 12.0          | 9.0           | 15.0           | 9.5           | 8.5           |
| North Dakota .....      | 43.0          | 41.0          | 65.0          | 42.0           | 40.0          | 58.0          |
| South Dakota .....      | 82.0          | 51.0          | 48.0          | 68.0           | 45.0          | 31.0          |
| Texas .....             | 15.0          | 5.5           | 5.0           | 13.0           | 4.5           | 4.5           |
| United States .....     | 187.0         | 137.0         | 153.6         | 165.8          | 123.4         | 126.5         |
| <b>All</b>              |               |               |               |                |               |               |
| California .....        | 55.3          | 60.0          | 50.6          | 53.8           | 59.0          | 50.6          |
| Colorado .....          | 92.0          | 66.0          | 59.0          | 84.0           | 56.0          | 55.0          |
| Kansas .....            | 65.5          | 53.0          | 45.0          | 62.2           | 49.5          | 39.3          |
| Minnesota .....         | 38.7          | 52.5          | 58.0          | 36.3           | 50.9          | 55.6          |
| Nebraska .....          | 45.5          | 37.0          | 37.0          | 43.5           | 33.5          | 34.5          |
| North Dakota .....      | 438.0         | 436.0         | 535.0         | 423.0          | 420.0         | 488.0         |
| South Dakota .....      | 622.0         | 571.0         | 533.0         | 588.0          | 525.0         | 491.0         |
| Texas .....             | 46.0          | 25.5          | 33.0          | 43.0           | 23.5          | 30.5          |
| United States .....     | 1,403.0       | 1,301.0       | 1,350.6       | 1,333.8        | 1,217.4       | 1,244.5       |

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**Sunflower Area Planted and Harvested, Yield, and Production by Type – States and United States:  
2017-2019 (continued)**

| Varietal type<br>and State | Yield per acre |          |          | Production     |                |                |
|----------------------------|----------------|----------|----------|----------------|----------------|----------------|
|                            | 2017           | 2018     | 2019     | 2017           | 2018           | 2019           |
|                            | (pounds)       | (pounds) | (pounds) | (1,000 pounds) | (1,000 pounds) | (1,000 pounds) |
| <b>Oil</b>                 |                |          |          |                |                |                |
| California .....           | 950            | 1,300    | 1,400    | 49,875         | 74,100         | 68,600         |
| Colorado .....             | 1,000          | 1,100    | 1,000    | 73,000         | 53,900         | 44,000         |
| Kansas .....               | 1,300          | 1,500    | 1,400    | 65,000         | 61,500         | 44,800         |
| Minnesota .....            | 1,950          | 2,250    | 1,850    | 64,350         | 99,000         | 94,350         |
| Nebraska .....             | 1,300          | 1,420    | 1,300    | 37,050         | 34,080         | 33,800         |
| North Dakota .....         | 1,650          | 1,750    | 1,500    | 628,650        | 665,000        | 645,000        |
| South Dakota .....         | 1,700          | 1,830    | 1,700    | 884,000        | 878,400        | 782,000        |
| Texas .....                | 1,520          | 1,120    | 1,300    | 45,600         | 21,280         | 33,800         |
| United States .....        | 1,582          | 1,725    | 1,562    | 1,847,525      | 1,887,260      | 1,746,350      |
| <b>Non-oil</b>             |                |          |          |                |                |                |
| California .....           | 1,100          | 1,200    | 1,300    | 1,430          | 2,400          | 2,080          |
| Colorado .....             | 1,200          | 1,150    | 1,400    | 13,200         | 8,050          | 15,400         |
| Kansas .....               | 1,600          | 1,500    | 1,250    | 19,520         | 12,750         | 9,125          |
| Minnesota .....            | 1,250          | 2,150    | 1,800    | 4,125          | 14,835         | 8,280          |
| Nebraska .....             | 1,650          | 1,400    | 1,300    | 24,750         | 13,300         | 11,050         |
| North Dakota .....         | 1,800          | 1,860    | 1,650    | 75,600         | 74,400         | 95,700         |
| South Dakota .....         | 2,000          | 1,950    | 1,600    | 136,000        | 87,750         | 49,600         |
| Texas .....                | 1,200          | 1,400    | 1,300    | 15,600         | 6,300          | 5,850          |
| United States .....        | 1,750          | 1,781    | 1,558    | 290,225        | 219,785        | 197,085        |
| <b>All</b>                 |                |          |          |                |                |                |
| California .....           | 954            | 1,297    | 1,397    | 51,305         | 76,500         | 70,680         |
| Colorado .....             | 1,026          | 1,106    | 1,080    | 86,200         | 61,950         | 59,400         |
| Kansas .....               | 1,359          | 1,500    | 1,372    | 84,520         | 74,250         | 53,925         |
| Minnesota .....            | 1,886          | 2,236    | 1,846    | 68,475         | 113,835        | 102,630        |
| Nebraska .....             | 1,421          | 1,414    | 1,300    | 61,800         | 47,380         | 44,850         |
| North Dakota .....         | 1,665          | 1,760    | 1,518    | 704,250        | 739,400        | 740,700        |
| South Dakota .....         | 1,735          | 1,840    | 1,694    | 1,020,000      | 966,150        | 831,600        |
| Texas .....                | 1,423          | 1,174    | 1,300    | 61,200         | 27,580         | 39,650         |
| United States .....        | 1,603          | 1,731    | 1,562    | 2,137,750      | 2,107,045      | 1,943,435      |

(NA) Not available.

(X) Not applicable.

**Soybeans for Beans Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019**

| State                            | Area planted  |               |               | Area harvested |               |               |
|----------------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                                  | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                                  | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| Alabama .....                    | 350           | 345           | 265           | 345            | 335           | 260           |
| Arkansas .....                   | 3,530         | 3,270         | 2,650         | 3,500          | 3,210         | 2,610         |
| Delaware .....                   | 160           | 170           | 155           | 158            | 168           | 153           |
| Florida <sup>1</sup> .....       | 15            | 18            | (NA)          | 14             | 12            | (NA)          |
| Georgia .....                    | 155           | 145           | 100           | 150            | 130           | 93            |
| Illinois .....                   | 10,600        | 10,800        | 9,950         | 10,550         | 10,500        | 9,860         |
| Indiana .....                    | 5,950         | 6,000         | 5,400         | 5,940          | 5,960         | 5,360         |
| Iowa .....                       | 10,000        | 9,950         | 9,200         | 9,940          | 9,830         | 9,120         |
| Kansas .....                     | 5,150         | 4,750         | 4,550         | 5,110          | 4,690         | 4,490         |
| Kentucky .....                   | 1,950         | 1,950         | 1,700         | 1,940          | 1,930         | 1,690         |
| Louisiana .....                  | 1,270         | 1,340         | 890           | 1,250          | 1,190         | 860           |
| Maryland .....                   | 500           | 530           | 480           | 495            | 515           | 475           |
| Michigan .....                   | 2,280         | 2,330         | 1,760         | 2,270          | 2,310         | 1,730         |
| Minnesota .....                  | 8,150         | 7,750         | 6,850         | 8,090          | 7,650         | 6,770         |
| Mississippi .....                | 2,190         | 2,230         | 1,660         | 2,170          | 2,190         | 1,630         |
| Missouri .....                   | 5,950         | 5,850         | 5,100         | 5,910          | 5,780         | 5,010         |
| Nebraska .....                   | 5,700         | 5,650         | 4,900         | 5,670          | 5,590         | 4,840         |
| New Jersey .....                 | 100           | 110           | 95            | 99             | 107           | 92            |
| New York .....                   | 270           | 335           | 235           | 265            | 325           | 225           |
| North Carolina .....             | 1,700         | 1,650         | 1,540         | 1,690          | 1,570         | 1,520         |
| North Dakota .....               | 7,100         | 6,900         | 5,600         | 7,050          | 6,840         | 5,450         |
| Ohio .....                       | 5,100         | 5,050         | 4,300         | 5,090          | 5,020         | 4,270         |
| Oklahoma .....                   | 655           | 640           | 465           | 640            | 600           | 440           |
| Pennsylvania .....               | 610           | 640           | 620           | 605            | 630           | 610           |
| South Carolina .....             | 400           | 390           | 335           | 390            | 330           | 320           |
| South Dakota .....               | 5,650         | 5,650         | 3,500         | 5,610          | 5,580         | 3,440         |
| Tennessee .....                  | 1,690         | 1,700         | 1,400         | 1,660          | 1,670         | 1,370         |
| Texas .....                      | 210           | 175           | 80            | 185            | 135           | 73            |
| Virginia .....                   | 600           | 600           | 570           | 590            | 590           | 560           |
| West Virginia <sup>1</sup> ..... | 27            | 29            | (NA)          | 26             | 27            | (NA)          |
| Wisconsin .....                  | 2,150         | 2,220         | 1,750         | 2,140          | 2,180         | 1,700         |
| United States .....              | 90,162        | 89,167        | 76,100        | 89,542         | 87,594        | 75,021        |

See footnote(s) at end of table.

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**Soybeans for Beans Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019** (continued)

| State                            | Yield per acre |           |           | Production      |                 |                 |
|----------------------------------|----------------|-----------|-----------|-----------------|-----------------|-----------------|
|                                  | 2017           | 2018      | 2019      | 2017            | 2018            | 2019            |
|                                  | (bushels)      | (bushels) | (bushels) | (1,000 bushels) | (1,000 bushels) | (1,000 bushels) |
| Alabama .....                    | 46.0           | 40.0      | 36.0      | 15,870          | 13,400          | 9,360           |
| Arkansas .....                   | 51.0           | 50.5      | 49.0      | 178,500         | 162,105         | 127,890         |
| Delaware .....                   | 51.0           | 41.5      | 47.0      | 8,058           | 6,972           | 7,191           |
| Florida <sup>1</sup> .....       | 34.0           | 37.0      | (NA)      | 476             | 444             | (NA)            |
| Georgia .....                    | 42.0           | 39.5      | 29.0      | 6,300           | 5,135           | 2,697           |
| Illinois .....                   | 58.0           | 63.5      | 54.0      | 611,900         | 666,750         | 532,440         |
| Indiana .....                    | 54.0           | 57.5      | 51.0      | 320,760         | 342,700         | 273,360         |
| Iowa .....                       | 57.0           | 56.0      | 55.0      | 566,580         | 550,480         | 501,600         |
| Kansas .....                     | 37.5           | 43.0      | 41.5      | 191,625         | 201,670         | 186,335         |
| Kentucky .....                   | 53.0           | 51.0      | 46.0      | 102,820         | 98,430          | 77,740          |
| Louisiana .....                  | 54.0           | 51.5      | 48.0      | 67,500          | 61,285          | 41,280          |
| Maryland .....                   | 51.0           | 47.5      | 44.0      | 25,245          | 24,463          | 20,900          |
| Michigan .....                   | 42.5           | 47.5      | 41.0      | 96,475          | 109,725         | 70,930          |
| Minnesota .....                  | 47.5           | 49.0      | 44.0      | 384,275         | 374,850         | 297,880         |
| Mississippi .....                | 53.0           | 54.0      | 50.0      | 115,010         | 118,260         | 81,500          |
| Missouri .....                   | 49.5           | 44.5      | 46.0      | 292,545         | 257,210         | 230,460         |
| Nebraska .....                   | 57.5           | 58.0      | 58.5      | 326,025         | 324,220         | 283,140         |
| New Jersey .....                 | 45.0           | 39.5      | 37.0      | 4,455           | 4,227           | 3,404           |
| New York .....                   | 45.0           | 52.0      | 48.0      | 11,925          | 16,900          | 10,800          |
| North Carolina .....             | 40.0           | 33.0      | 35.0      | 67,600          | 51,810          | 53,200          |
| North Dakota .....               | 34.5           | 35.0      | 32.0      | 243,225         | 239,400         | 174,400         |
| Ohio .....                       | 49.5           | 56.0      | 49.0      | 251,955         | 281,120         | 209,230         |
| Oklahoma .....                   | 29.0           | 28.0      | 29.0      | 18,560          | 16,800          | 12,760          |
| Pennsylvania .....               | 48.0           | 44.5      | 49.0      | 29,040          | 28,035          | 29,890          |
| South Carolina .....             | 38.0           | 29.0      | 26.0      | 14,820          | 9,570           | 8,320           |
| South Dakota .....               | 43.0           | 45.0      | 42.5      | 241,230         | 251,100         | 146,200         |
| Tennessee .....                  | 50.0           | 45.5      | 47.0      | 83,000          | 75,985          | 64,390          |
| Texas .....                      | 37.0           | 31.5      | 28.0      | 6,845           | 4,253           | 2,044           |
| Virginia .....                   | 44.0           | 42.0      | 34.0      | 25,960          | 24,780          | 19,040          |
| West Virginia <sup>1</sup> ..... | 54.0           | 53.0      | (NA)      | 1,404           | 1,431           | (NA)            |
| Wisconsin .....                  | 47.5           | 48.0      | 47.0      | 101,650         | 104,640         | 79,900          |
| United States .....              | 49.3           | 50.6      | 47.4      | 4,411,633       | 4,428,150       | 3,558,281       |

(D) Withheld to avoid disclosing data for individual operations.

(NA) Not available.

<sup>1</sup> Estimates discontinued in 2019.

## Soybean Objective Yield Data

The National Agricultural Statistics Service conducted an objective yield survey in 11 soybean producing States during 2019. Randomly selected plots in soybean fields were visited monthly from September through harvest to obtain specific counts and measurements. Data in these tables are actual field counts from this survey.

### Soybean Pods with Beans per 18 Square Feet – Selected States: 2015-2019

| State and month  | 2015     | 2016     | 2017     | 2018     | 2019     | State and month     | 2015     | 2016     | 2017     | 2018     | 2019     |
|------------------|----------|----------|----------|----------|----------|---------------------|----------|----------|----------|----------|----------|
| (number)         | (number) | (number) | (number) | (number) | (number) | (number)            | (number) | (number) | (number) | (number) | (number) |
| <b>Arkansas</b>  |          |          |          |          |          | <b>Missouri</b>     |          |          |          |          |          |
| September .....  | 1,729    | 1,884    | 1,992    | 1,841    | 1,759    | September .....     | 1,612    | 1,881    | 2,041    | 1,777    | 1,719    |
| October .....    | 1,737    | 1,805    | 1,898    | 1,795    | 1,731    | October .....       | 1,755    | 2,006    | 2,172    | 1,899    | 1,754    |
| November .....   | 1,813    | 1,820    | 2,039    | 1,943    | 1,717    | November .....      | 1,869    | 2,123    | 2,253    | 1,948    | 1,898    |
| Final .....      | 1,818    | 1,826    | 2,075    | 1,973    | 1,828    | Final .....         | 1,899    | 2,164    | 2,239    | 1,961    | 1,921    |
| <b>Illinois</b>  |          |          |          |          |          | <b>Nebraska</b>     |          |          |          |          |          |
| September .....  | 1,980    | 1,969    | 1,917    | 2,132    | 1,696    | September .....     | 1,816    | 1,947    | 1,653    | 1,736    | 1,669    |
| October .....    | 2,052    | 2,109    | 1,886    | 2,225    | 1,683    | October .....       | 1,863    | 2,036    | 1,795    | 2,071    | 1,777    |
| November .....   | 2,086    | 2,193    | 1,947    | 2,249    | 1,601    | November .....      | 1,884    | 2,074    | 1,853    | 2,174    | 1,722    |
| Final .....      | 2,079    | 2,197    | 1,947    | 2,264    | 1,603    | Final .....         | 1,884    | 2,074    | 1,853    | 2,174    | 1,722    |
| <b>Indiana</b>   |          |          |          |          |          | <b>North Dakota</b> |          |          |          |          |          |
| September .....  | 1,641    | 1,683    | 1,795    | 1,880    | 1,496    | September .....     | 1,321    | 1,395    | 1,406    | 1,418    | 1,147    |
| October .....    | 1,703    | 1,775    | 1,772    | 2,001    | 1,501    | October .....       | 1,330    | 1,444    | 1,430    | 1,485    | 1,246    |
| November .....   | 1,691    | 1,873    | 1,774    | 2,054    | 1,569    | November .....      | 1,337    | 1,442    | 1,465    | 1,515    | 1,253    |
| Final .....      | 1,691    | 1,873    | 1,774    | 2,052    | 1,561    | Final .....         | 1,337    | 1,470    | 1,451    | 1,514    | 1,195    |
| <b>Iowa</b>      |          |          |          |          |          | <b>Ohio</b>         |          |          |          |          |          |
| September .....  | 1,779    | 1,808    | 1,644    | 1,823    | 1,601    | September .....     | 1,621    | 1,773    | 1,765    | 2,019    | 1,563    |
| October .....    | 1,805    | 1,801    | 1,670    | 1,984    | 1,642    | October .....       | 1,691    | 1,715    | 1,714    | 2,180    | 1,760    |
| November .....   | 1,834    | 1,861    | 1,717    | 2,082    | 1,660    | November .....      | 1,776    | 1,782    | 1,828    | 2,210    | 1,587    |
| Final .....      | 1,834    | 1,890    | 1,735    | 2,097    | 1,682    | Final .....         | 1,776    | 1,782    | 1,823    | 2,210    | 1,587    |
| <b>Kansas</b>    |          |          |          |          |          | <b>South Dakota</b> |          |          |          |          |          |
| September .....  | 1,285    | 1,467    | 1,487    | 1,552    | 1,561    | September .....     | 1,541    | 1,561    | 1,511    | 1,649    | 1,504    |
| October .....    | 1,602    | 1,643    | 1,472    | 1,456    | 1,604    | October .....       | 1,557    | 1,639    | 1,472    | 1,867    | 1,316    |
| November .....   | 1,715    | 1,720    | 1,561    | 1,548    | 1,596    | November .....      | 1,563    | 1,709    | 1,457    | 1,822    | 1,331    |
| Final .....      | 1,715    | 1,737    | 1,561    | 1,558    | 1,583    | Final .....         | 1,563    | 1,665    | 1,457    | 1,724    | 1,353    |
| <b>Minnesota</b> |          |          |          |          |          | <b>11-State</b>     |          |          |          |          |          |
| September .....  | 1,637    | 1,614    | 1,359    | 1,605    | 1,465    | September .....     | 1,672    | 1,741    | 1,678    | 1,786    | 1,561    |
| October .....    | 1,644    | 1,625    | 1,407    | 1,616    | 1,474    | October .....       | 1,731    | 1,800    | 1,692    | 1,895    | 1,593    |
| November .....   | 1,612    | 1,658    | 1,480    | 1,569    | 1,458    | November .....      | 1,763    | 1,862    | 1,751    | 1,938    | 1,582    |
| Final .....      | 1,612    | 1,658    | 1,480    | 1,569    | 1,458    | Final .....         | 1,764    | 1,870    | 1,752    | 1,938    | 1,586    |

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# Soybean Frequency of Farmer Reported Row Widths – Selected States: 2015-2019

| State and year      | Row width (inches)            |          |          |          |                 |
|---------------------|-------------------------------|----------|----------|----------|-----------------|
|                     | Less than<br>7.5 <sup>1</sup> | 7.5      | 15       | 30       | More than<br>30 |
|                     | (number)                      | (number) | (number) | (number) | (number)        |
| Arkansas .....2015  | 8                             | 41       | 34       | 32       | 77              |
| .....2016           | 5                             | 31       | 46       | 36       | 73              |
| .....2017           | 9                             | 25       | 42       | 39       | 79              |
| .....2018           | 9                             | 36       | 47       | 36       | 83              |
| .....2019           | -                             | 14       | 13       | 21       | 25              |
| Illinois .....2015  | 2                             | 15       | 111      | 52       | 1               |
| .....2016           | 1                             | 15       | 105      | 57       | 1               |
| .....2017           | 2                             | 10       | 109      | 59       | 2               |
| .....2018           | 3                             | 11       | 118      | 58       | -               |
| .....2019           | 2                             | 5        | 82       | 33       | 1               |
| Indiana .....2015   | 2                             | 17       | 103      | 15       | -               |
| .....2016           | 1                             | 27       | 91       | 17       | 2               |
| .....2017           | 3                             | 28       | 101      | 12       | -               |
| .....2018           | 1                             | 19       | 110      | 14       | -               |
| .....2019           | -                             | 5        | 57       | 9        | 1               |
| Iowa .....2015      | 4                             | 4        | 76       | 92       | 4               |
| .....2016           | 1                             | 6        | 73       | 100      | 2               |
| .....2017           | 1                             | 3        | 80       | 94       | 1               |
| .....2018           | 1                             | 11       | 77       | 88       | 3               |
| .....2019           | 1                             | 9        | 51       | 66       | -               |
| Kansas .....2015    | 5                             | 13       | 38       | 56       | -               |
| .....2016           | 6                             | 8        | 38       | 57       | -               |
| .....2017           | 10                            | 14       | 32       | 43       | 2               |
| .....2018           | 2                             | 17       | 35       | 54       | 1               |
| .....2019           | -                             | 10       | 23       | 16       | -               |
| Minnesota .....2015 | 4                             | 7        | 42       | 50       | 1               |
| .....2016           | 5                             | 8        | 40       | 36       | 1               |
| .....2017           | 1                             | 9        | 38       | 42       | -               |
| .....2018           | 3                             | 8        | 34       | 45       | 2               |
| .....2019           | 3                             | 5        | 26       | 28       | 1               |
| Missouri .....2015  | 1                             | 17       | 50       | 15       | 8               |
| .....2016           | -                             | 14       | 71       | 19       | 5               |
| .....2017           | 1                             | 10       | 70       | 21       | 4               |
| .....2018           | 1                             | 15       | 65       | 31       | 4               |
| .....2019           | 1                             | 5        | 38       | 10       | 1               |
| Nebraska .....2015  | 1                             | 4        | 31       | 62       | 8               |
| .....2016           | -                             | 10       | 36       | 46       | 3               |
| .....2017           | 1                             | 4        | 38       | 51       | 8               |
| .....2018           | 3                             | 7        | 35       | 49       | 8               |
| .....2019           | -                             | 6        | 37       | 49       | 5               |

See footnote(s) at end of table.

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# Soybean Frequency of Farmer Reported Row Widths – Selected States: 2015-2019 (continued)

| State and year          | Row width (inches)            |          |          |          |                 |
|-------------------------|-------------------------------|----------|----------|----------|-----------------|
|                         | Less than<br>7.5 <sup>1</sup> | 7.5      | 15       | 30       | More than<br>30 |
|                         | (number)                      | (number) | (number) | (number) | (number)        |
| North Dakota ..... 2015 | 5                             | 19       | 68       | 12       | -               |
| 2016                    | 8                             | 17       | 55       | 15       | -               |
| 2017                    | 5                             | 16       | 56       | 7        | 1               |
| 2018                    | 4                             | 31       | 49       | 12       | -               |
| 2019                    | 3                             | 11       | 28       | 6        | -               |
| Ohio ..... 2015         | 2                             | 45       | 76       | 9        | -               |
| 2016                    | 3                             | 41       | 84       | 7        | -               |
| 2017                    | 2                             | 38       | 83       | 8        | -               |
| 2018                    | 4                             | 31       | 98       | 1        | -               |
| 2019                    | 2                             | 11       | 42       | 1        | -               |
| South Dakota ..... 2015 | 2                             | 3        | 12       | 65       | 1               |
| 2016                    | 3                             | 4        | 27       | 59       | 2               |
| 2017                    | 1                             | 4        | 27       | 63       | 1               |
| 2018                    | 2                             | 4        | 27       | 61       | 1               |
| 2019                    | 4                             | -        | 18       | 30       | -               |

- Represents zero.

<sup>1</sup> Includes broadcast soybeans.

**Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2015-2019**

STATISTICAL DATA

| State and year  | Samples  | Row width (inches)        |           |           |           |                 | row width <sup>1</sup> |      |
|-----------------|----------|---------------------------|-----------|-----------|-----------|-----------------|------------------------|------|
|                 |          | 10.0 or less <sup>1</sup> | 10.1-18.5 | 18.6-28.5 | 28.6-34.5 | 34.6 or greater |                        |      |
|                 | (number) | (percent)                 | (percent) | (percent) | (percent) | (percent)       | (inches)               |      |
| Arkansas .....  | 2015     | 199                       | 19.1      | 16.8      | 23.6      | 14.6            | 25.9                   | 23.1 |
|                 | 2016     | 189                       | 14.6      | 24.1      | 4.0       | 21.2            | 36.1                   | 26.0 |
|                 | 2017     | 197                       | 16.3      | 24.2      | 2.3       | 19.8            | 37.4                   | 26.4 |
|                 | 2018     | 208                       | 18.3      | 18.3      | 6.7       | 14.7            | 42.0                   | 26.5 |
|                 | 2019     | 73                        | 19.2      | 15.1      | 5.5       | 23.3            | 36.9                   | 26.6 |
| Illinois .....  | 2015     | 178                       | 7.1       | 63.0      | 2.3       | 26.8            | 0.8                    | 19.0 |
|                 | 2016     | 177                       | 7.9       | 56.5      | 5.6       | 29.4            | 0.6                    | 19.6 |
|                 | 2017     | 181                       | 6.1       | 50.6      | 5.0       | 37.7            | 0.6                    | 20.8 |
|                 | 2018     | 185                       | 5.7       | 57.6      | 5.9       | 30.8            | -                      | 19.9 |
|                 | 2019     | 119                       | 4.6       | 58.0      | 10.9      | 26.5            | -                      | 19.4 |
| Indiana .....   | 2015     | 137                       | 15.4      | 67.4      | 5.9       | 11.3            | -                      | 16.1 |
|                 | 2016     | 137                       | 14.7      | 62.3      | 8.4       | 13.9            | 0.7                    | 17.0 |
|                 | 2017     | 141                       | 14.6      | 68.3      | 9.3       | 7.8             | -                      | 15.8 |
|                 | 2018     | 150                       | 10.1      | 74.8      | 5.7       | 9.4             | -                      | 16.2 |
|                 | 2019     | 74                        | 4.1       | 74.7      | 11.6      | 9.6             | -                      | 17.3 |
| Iowa .....      | 2015     | 181                       | 2.8       | 36.7      | 9.1       | 49.2            | 2.2                    | 23.4 |
|                 | 2016     | 179                       | 2.2       | 34.4      | 11.2      | 50.5            | 1.7                    | 23.7 |
|                 | 2017     | 180                       | 1.1       | 34.4      | 12.8      | 50.6            | 1.1                    | 23.7 |
|                 | 2018     | 177                       | 4.8       | 36.5      | 10.1      | 45.8            | 2.8                    | 22.8 |
|                 | 2019     | 124                       | 4.9       | 36.0      | 9.7       | 48.6            | 0.8                    | 23.1 |
| Kansas .....    | 2015     | 111                       | 11.7      | 38.3      | 4.5       | 45.5            | -                      | 21.5 |
|                 | 2016     | 109                       | 5.5       | 34.6      | 4.6       | 54.4            | 0.9                    | 23.5 |
|                 | 2017     | 105                       | 9.0       | 38.1      | 5.7       | 47.2            | -                      | 21.8 |
|                 | 2018     | 106                       | 8.1       | 39.3      | 6.6       | 45.1            | 0.9                    | 22.0 |
|                 | 2019     | 49                        | 9.2       | 47.0      | 7.1       | 36.7            | -                      | 20.4 |
| Minnesota ..... | 2015     | 89                        | 5.1       | 21.9      | 20.8      | 52.2            | -                      | 24.0 |
|                 | 2016     | 84                        | 11.3      | 28.0      | 23.8      | 36.9            | -                      | 21.6 |
|                 | 2017     | 88                        | 7.4       | 23.3      | 18.8      | 50.5            | -                      | 23.5 |
|                 | 2018     | 85                        | 10.0      | 28.8      | 14.7      | 46.5            | -                      | 22.6 |
|                 | 2019     | 59                        | 11.9      | 18.6      | 26.3      | 41.5            | 1.7                    | 23.0 |
| Missouri .....  | 2015     | 86                        | 16.7      | 56.6      | 7.7       | 11.9            | 7.1                    | 17.9 |
|                 | 2016     | 104                       | 3.8       | 70.7      | 2.4       | 16.8            | 6.3                    | 18.9 |
|                 | 2017     | 106                       | 9.4       | 63.7      | 5.7       | 19.3            | 1.9                    | 18.3 |
|                 | 2018     | 113                       | 12.8      | 52.7      | 8.0       | 23.0            | 3.5                    | 19.2 |
|                 | 2019     | 51                        | 7.8       | 68.7      | 7.8       | 15.7            | -                      | 17.8 |
| Nebraska .....  | 2015     | 105                       | 2.4       | 29.5      | 6.3       | 54.1            | 7.7                    | 24.5 |
|                 | 2016     | 94                        | 7.4       | 35.6      | 5.9       | 46.8            | 4.3                    | 22.8 |
|                 | 2017     | 100                       | 4.0       | 31.0      | 10.5      | 47.0            | 7.5                    | 24.2 |
|                 | 2018     | 101                       | 5.9       | 27.2      | 10.9      | 48.1            | 7.9                    | 24.3 |
|                 | 2019     | 98                        | 4.6       | 32.1      | 11.2      | 47.0            | 5.1                    | 23.9 |

See footnote(s) at end of table.

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**Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States:  
2015-2019 (continued)**

| State and year         | Samples  | Row width (inches)        |           |           |           |                 | row width <sup>1</sup> |
|------------------------|----------|---------------------------|-----------|-----------|-----------|-----------------|------------------------|
|                        |          | 10.0 or less <sup>1</sup> | 10.1-18.5 | 18.6-28.5 | 28.6-34.5 | 34.6 or greater |                        |
|                        | (number) | (percent)                 | (percent) | (percent) | (percent) | (percent)       | (inches)               |
| North Dakota .....2015 | 104      | 13.5                      | 45.7      | 29.3      | 11.5      | -               | 17.6                   |
| .....2016              | 95       | 20.1                      | 42.9      | 20.1      | 16.9      | -               | 17.7                   |
| .....2017              | 84       | 17.3                      | 55.3      | 17.9      | 8.3       | 1.2             | 16.2                   |
| .....2018              | 96       | 21.9                      | 45.3      | 22.9      | 7.3       | 2.6             | 16.4                   |
| .....2019              | 48       | 17.7                      | 49.0      | 22.9      | 10.4      | -               | 17.1                   |
| Ohio .....2015         | 132      | 32.7                      | 57.0      | 5.0       | 5.3       | -               | 13.8                   |
| .....2016              | 137      | 32.1                      | 60.3      | 1.8       | 5.8       | -               | 13.7                   |
| .....2017              | 134      | 25.4                      | 66.4      | 2.6       | 5.6       | -               | 14.1                   |
| .....2018              | 134      | 20.9                      | 76.5      | 2.6       | -         | -               | 13.7                   |
| .....2019              | 57       | 22.8                      | 77.2      | -         | -         | -               | 13.6                   |
| South Dakota .....2015 | 83       | 5.0                       | 10.5      | 14.2      | 69.1      | 1.2             | 26.6                   |
| .....2016              | 96       | 1.6                       | 23.0      | 17.3      | 53.4      | 4.7             | 25.1                   |
| .....2017              | 93       | 2.7                       | 17.8      | 16.2      | 61.7      | 1.6             | 25.9                   |
| .....2018              | 94       | 4.3                       | 15.4      | 17.6      | 62.2      | 0.5             | 25.7                   |
| .....2019              | 43       | 2.3                       | 10.5      | 27.9      | 59.3      | -               | 26.6                   |

- Represents zero.

<sup>1</sup> Broadcast soybeans included as "10.0 inches or less" but excluded in computation of average width.

## Flaxseed Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

| State                           | Area planted   |               |               | Area harvested  |                 |                 |
|---------------------------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|
|                                 | 2017           | 2018          | 2019          | 2017            | 2018            | 2019            |
|                                 | (1,000 acres)  | (1,000 acres) | (1,000 acres) | (1,000 acres)   | (1,000 acres)   | (1,000 acres)   |
| Montana .....                   | 52             | 39            | 99            | 38              | 37              | 89              |
| North Dakota .....              | 245            | 165           | 275           | 229             | 158             | 230             |
| South Dakota <sup>1</sup> ..... | 6              | 4             | (NA)          | 5               | 3               | (NA)            |
| United States .....             | 303            | 208           | 374           | 272             | 198             | 319             |
| State                           | Yield per acre |               |               | Production      |                 |                 |
|                                 | 2017           | 2018          | 2019          | 2017            | 2018            | 2019            |
|                                 | (bushels)      | (bushels)     | (bushels)     | (1,000 bushels) | (1,000 bushels) | (1,000 bushels) |
| Montana .....                   | 9.0            | 17.0          | 15.0          | 342             | 629             | 1,335           |
| North Dakota .....              | 15.0           | 24.0          | 22.0          | 3,435           | 3,792           | 5,060           |
| South Dakota <sup>1</sup> ..... | 13.0           | 15.0          | (NA)          | 65              | 45              | (NA)            |
| United States .....             | 14.1           | 22.6          | 20.0          | 3,842           | 4,466           | 6,395           |

(NA) Not available.

<sup>1</sup> Estimates discontinued in 2019.

## Safflower Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

| State                           | Area planted   |               |               | Area harvested |                |                |
|---------------------------------|----------------|---------------|---------------|----------------|----------------|----------------|
|                                 | 2017           | 2018          | 2019          | 2017           | 2018           | 2019           |
|                                 | (1,000 acres)  | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres)  | (1,000 acres)  |
| California .....                | 56.0           | 60.0          | 57.0          | 55.5           | 59.5           | 57.0           |
| Idaho .....                     | 22.5           | 22.0          | 29.0          | 21.5           | 21.0           | 28.5           |
| Montana .....                   | 39.0           | 42.0          | 53.0          | 28.0           | 36.0           | 43.0           |
| North Dakota <sup>1</sup> ..... | 7.1            | 10.0          | (NA)          | 5.2            | 9.4            | (NA)           |
| South Dakota .....              | 21.9           | 18.5          | 13.8          | 18.5           | 17.4           | 11.5           |
| Utah .....                      | 17.0           | 15.0          | 13.0          | 16.5           | 13.0           | 12.7           |
| United States .....             | 163.5          | 167.5         | 165.8         | 145.2          | 156.3          | 152.7          |
| State                           | Yield per acre |               |               | Production     |                |                |
|                                 | 2017           | 2018          | 2019          | 2017           | 2018           | 2019           |
|                                 | (pounds)       | (pounds)      | (pounds)      | (1,000 pounds) | (1,000 pounds) | (1,000 pounds) |
| California .....                | 1,900          | 2,400         | 1,950         | 105,450        | 142,800        | 111,150        |
| Idaho .....                     | 900            | 830           | 940           | 19,350         | 17,430         | 26,790         |
| Montana .....                   | 610            | 990           | 840           | 17,080         | 35,640         | 36,120         |
| North Dakota <sup>1</sup> ..... | 900            | 1,100         | (NA)          | 4,680          | 10,340         | (NA)           |
| South Dakota .....              | 790            | 1,100         | 600           | 14,615         | 19,140         | 6,900          |
| Utah .....                      | 900            | 840           | 1,050         | 14,850         | 10,920         | 13,335         |
| United States .....             | 1,212          | 1,512         | 1,272         | 176,025        | 236,270        | 194,295        |

(NA) Not available.

<sup>1</sup> Estimates discontinued in 2019.

## Other Oilseed Area Planted and Harvested, Yield, and Production by Crop – United States: 2017-2019

| Crop                            | Area planted   |               |               | Area harvested |                |                |
|---------------------------------|----------------|---------------|---------------|----------------|----------------|----------------|
|                                 | 2017           | 2018          | 2019          | 2017           | 2018           | 2019           |
|                                 | (1,000 acres)  | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres)  | (1,000 acres)  |
| Rapeseed <sup>1</sup> .....     | 10.3           | 5.7           | 11.3          | 9.9            | 5.4            | 10.4           |
| Mustard seed <sup>2</sup> ..... | 103.0          | 102.5         | 98.0          | 95.4           | 97.8           | 90.0           |
| State                           | Yield per acre |               |               | Production     |                |                |
|                                 | 2017           | 2018          | 2019          | 2017           | 2018           | 2019           |
|                                 | (pounds)       | (pounds)      | (pounds)      | (1,000 pounds) | (1,000 pounds) | (1,000 pounds) |
| Rapeseed <sup>1</sup> .....     | 1,843          | 1,524         | 2,160         | 18,250         | 8,230          | 22,464         |
| Mustard seed <sup>2</sup> ..... | 617            | 749           | 706           | 58,820         | 73,297         | 63,580         |

<sup>1</sup> For 2017 and 2018, rapeseed program States include Idaho, Montana, North Carolina, North Dakota, Oregon, and Washington. For 2019, rapeseed program States include Delaware, Idaho, Kentucky, North Carolina, Pennsylvania, South Carolina, Tennessee, and Virginia.

<sup>2</sup> For 2017 and 2018, mustard seed program States include Idaho, Montana, North Dakota, Oregon, and Washington. For 2019, mustard seed program States include Idaho, Montana, and North Dakota.

**Cotton Area Planted and Harvested, Yield, and Production by Type – States and United States: 2017-2019**

| Type and State          | Area planted  |               |               | Area harvested |               |               |
|-------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                         | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                         | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| <b>Upland</b>           |               |               |               |                |               |               |
| Alabama .....           | 435.0         | 510.0         | 540.0         | 430.0          | 497.0         | 535.0         |
| Arizona .....           | 160.0         | 160.0         | 160.0         | 159.0          | 159.0         | 158.0         |
| Arkansas .....          | 445.0         | 485.0         | 620.0         | 438.0          | 480.0         | 610.0         |
| California .....        | 88.0          | 48.0          | 55.0          | 87.0           | 47.0          | 54.0          |
| Florida .....           | 99.0          | 117.0         | 112.0         | 98.0           | 93.0          | 111.0         |
| Georgia .....           | 1,280.0       | 1,430.0       | 1,400.0       | 1,270.0        | 1,305.0       | 1,390.0       |
| Kansas .....            | 93.0          | 165.0         | 175.0         | 90.0           | 152.0         | 153.0         |
| Louisiana .....         | 220.0         | 195.0         | 280.0         | 217.0          | 189.0         | 270.0         |
| Mississippi .....       | 630.0         | 620.0         | 710.0         | 625.0          | 615.0         | 700.0         |
| Missouri .....          | 305.0         | 325.0         | 380.0         | 297.0          | 322.0         | 368.0         |
| <br>New Mexico .....    | <br>66.0      | <br>77.0      | <br>63.0      | <br>46.0       | <br>56.0      | <br>47.0      |
| North Carolina .....    | 375.0         | 430.0         | 510.0         | 367.0          | 415.0         | 500.0         |
| Oklahoma .....          | 590.0         | 780.0         | 640.0         | 555.0          | 550.0         | 480.0         |
| South Carolina .....    | 250.0         | 300.0         | 300.0         | 248.0          | 275.0         | 297.0         |
| Tennessee .....         | 345.0         | 360.0         | 410.0         | 340.0          | 355.0         | 405.0         |
| Texas .....             | 7,000.0       | 7,750.0       | 7,050.0       | 5,500.0        | 4,350.0       | 5,400.0       |
| Virginia .....          | 84.0          | 98.0          | 103.0         | 83.0           | 97.0          | 102.0         |
| <br>United States ..... | <br>12,465.0  | <br>13,850.0  | <br>13,508.0  | <br>10,850.0   | <br>9,957.0   | <br>11,580.0  |
| <b>American Pima</b>    |               |               |               |                |               |               |
| Arizona .....           | 15.0          | 14.5          | 7.5           | 15.0           | 14.5          | 7.5           |
| California .....        | 216.0         | 211.0         | 205.0         | 215.0          | 210.0         | 202.0         |
| New Mexico .....        | 7.5           | 6.8           | 5.3           | 7.4            | 6.8           | 5.0           |
| Texas .....             | 14.0          | 18.0          | 12.0          | 13.0           | 17.5          | 10.0          |
| <br>United States ..... | <br>252.5     | <br>250.3     | <br>229.8     | <br>250.4      | <br>248.8     | <br>224.5     |
| <b>All</b>              |               |               |               |                |               |               |
| Alabama .....           | 435.0         | 510.0         | 540.0         | 430.0          | 497.0         | 535.0         |
| Arizona .....           | 175.0         | 174.5         | 167.5         | 174.0          | 173.5         | 165.5         |
| Arkansas .....          | 445.0         | 485.0         | 620.0         | 438.0          | 480.0         | 610.0         |
| California .....        | 304.0         | 259.0         | 260.0         | 302.0          | 257.0         | 256.0         |
| Florida .....           | 99.0          | 117.0         | 112.0         | 98.0           | 93.0          | 111.0         |
| Georgia .....           | 1,280.0       | 1,430.0       | 1,400.0       | 1,270.0        | 1,305.0       | 1,390.0       |
| Kansas .....            | 93.0          | 165.0         | 175.0         | 90.0           | 152.0         | 153.0         |
| Louisiana .....         | 220.0         | 195.0         | 280.0         | 217.0          | 189.0         | 270.0         |
| Mississippi .....       | 630.0         | 620.0         | 710.0         | 625.0          | 615.0         | 700.0         |
| Missouri .....          | 305.0         | 325.0         | 380.0         | 297.0          | 322.0         | 368.0         |
| <br>New Mexico .....    | <br>73.5      | <br>83.8      | <br>68.3      | <br>53.4       | <br>62.8      | <br>52.0      |
| North Carolina .....    | 375.0         | 430.0         | 510.0         | 367.0          | 415.0         | 500.0         |
| Oklahoma .....          | 590.0         | 780.0         | 640.0         | 555.0          | 550.0         | 480.0         |
| South Carolina .....    | 250.0         | 300.0         | 300.0         | 248.0          | 275.0         | 297.0         |
| Tennessee .....         | 345.0         | 360.0         | 410.0         | 340.0          | 355.0         | 405.0         |
| Texas .....             | 7,014.0       | 7,768.0       | 7,062.0       | 5,513.0        | 4,367.5       | 5,410.0       |
| Virginia .....          | 84.0          | 98.0          | 103.0         | 83.0           | 97.0          | 102.0         |
| <br>United States ..... | <br>12,717.5  | <br>14,100.3  | <br>13,737.8  | <br>11,100.4   | <br>10,205.8  | <br>11,804.5  |

See footnote(s) at end of table.

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**Cotton Area Planted and Harvested, Yield, and Production by Type – States and United States: 2017-2019 (continued)**

| Type and State          | Yield per acre |           |           | Production <sup>1</sup>    |                            |                            |
|-------------------------|----------------|-----------|-----------|----------------------------|----------------------------|----------------------------|
|                         | 2017           | 2018      | 2019      | 2017                       | 2018                       | 2019                       |
|                         | (pounds)       | (pounds)  | (pounds)  | (1,000 bales) <sup>2</sup> | (1,000 bales) <sup>2</sup> | (1,000 bales) <sup>2</sup> |
| <b>Upland</b>           |                |           |           |                            |                            |                            |
| Alabama .....           | 902            | 858       | 969       | 808.0                      | 888.0                      | 1,080.0                    |
| Arizona .....           | 1,464          | 1,319     | 1,443     | 485.0                      | 437.0                      | 475.0                      |
| Arkansas .....          | 1,177          | 1,133     | 1,102     | 1,074.0                    | 1,133.0                    | 1,400.0                    |
| California .....        | 1,297          | 1,910     | 1,644     | 235.0                      | 187.0                      | 185.0                      |
| Florida .....           | 759            | 532       | 822       | 155.0                      | 103.0                      | 190.0                      |
| Georgia .....           | 841            | 719       | 915       | 2,225.0                    | 1,955.0                    | 2,650.0                    |
| Kansas .....            | 1,051          | 1,077     | 910       | 197.0                      | 341.0                      | 290.0                      |
| Louisiana .....         | 894            | 1,067     | 1,031     | 404.0                      | 420.0                      | 580.0                      |
| Mississippi .....       | 1,038          | 1,141     | 1,097     | 1,351.0                    | 1,462.0                    | 1,600.0                    |
| Missouri .....          | 1,212          | 1,373     | 1,330     | 750.0                      | 921.0                      | 1,020.0                    |
| <br>New Mexico .....    | <br>1,179      | <br>977   | <br>1,328 | <br>113.0                  | <br>114.0                  | <br>130.0                  |
| North Carolina .....    | 969            | 812       | 1,018     | 741.0                      | 702.0                      | 1,060.0                    |
| Oklahoma .....          | 882            | 595       | 640       | 1,020.0                    | 682.0                      | 640.0                      |
| South Carolina .....    | 912            | 733       | 808       | 471.0                      | 420.0                      | 500.0                      |
| Tennessee .....         | 1,033          | 1,041     | 1,138     | 732.0                      | 770.0                      | 960.0                      |
| Texas .....             | 809            | 756       | 569       | 9,270.0                    | 6,850.0                    | 6,400.0                    |
| Virginia .....          | 1,110          | 896       | 1,035     | 192.0                      | 181.0                      | 220.0                      |
| <br>United States ..... | <br>895        | <br>847   | <br>803   | <br>20,223.0               | <br>17,566.0               | <br>19,380.0               |
| <b>American Pima</b>    |                |           |           |                            |                            |                            |
| Arizona .....           | 966            | 943       | 896       | 30.2                       | 28.5                       | 14.0                       |
| California .....        | 1,407          | 1,662     | 1,616     | 630.0                      | 727.0                      | 680.0                      |
| New Mexico .....        | 863            | 812       | 864       | 13.3                       | 11.5                       | 9.0                        |
| Texas .....             | 960            | 933       | 912       | 26.0                       | 34.0                       | 19.0                       |
| <br>United States ..... | <br>1,341      | <br>1,545 | <br>1,544 | <br>699.5                  | <br>801.0                  | <br>722.0                  |
| <b>All</b>              |                |           |           |                            |                            |                            |
| Alabama .....           | 902            | 858       | 969       | 808.0                      | 888.0                      | 1,080.0                    |
| Arizona .....           | 1,421          | 1,288     | 1,418     | 515.2                      | 465.5                      | 489.0                      |
| Arkansas .....          | 1,177          | 1,133     | 1,102     | 1,074.0                    | 1,133.0                    | 1,400.0                    |
| California .....        | 1,375          | 1,707     | 1,622     | 865.0                      | 914.0                      | 865.0                      |
| Florida .....           | 759            | 532       | 822       | 155.0                      | 103.0                      | 190.0                      |
| Georgia .....           | 841            | 719       | 915       | 2,225.0                    | 1,955.0                    | 2,650.0                    |
| Kansas .....            | 1,051          | 1,077     | 910       | 197.0                      | 341.0                      | 290.0                      |
| Louisiana .....         | 894            | 1,067     | 1,031     | 404.0                      | 420.0                      | 580.0                      |
| Mississippi .....       | 1,038          | 1,141     | 1,097     | 1,351.0                    | 1,462.0                    | 1,600.0                    |
| Missouri .....          | 1,212          | 1,373     | 1,330     | 750.0                      | 921.0                      | 1,020.0                    |
| <br>New Mexico .....    | <br>1,135      | <br>959   | <br>1,283 | <br>126.3                  | <br>125.5                  | <br>139.0                  |
| North Carolina .....    | 969            | 812       | 1,018     | 741.0                      | 702.0                      | 1,060.0                    |
| Oklahoma .....          | 882            | 595       | 640       | 1,020.0                    | 682.0                      | 640.0                      |
| South Carolina .....    | 912            | 733       | 808       | 471.0                      | 420.0                      | 500.0                      |
| Tennessee .....         | 1,033          | 1,041     | 1,138     | 732.0                      | 770.0                      | 960.0                      |
| Texas .....             | 809            | 757       | 570       | 9,296.0                    | 6,884.0                    | 6,419.0                    |
| Virginia .....          | 1,110          | 896       | 1,035     | 192.0                      | 181.0                      | 220.0                      |
| <br>United States ..... | <br>905        | <br>864   | <br>817   | <br>20,922.5               | <br>18,367.0               | <br>20,102.0               |

<sup>1</sup> Production ginned and to be ginned.

<sup>2</sup> 480-pound net weight bale.

## Cottonseed Production – States and United States: 2017-2019

| State                | Production   |              |                   |
|----------------------|--------------|--------------|-------------------|
|                      | 2017         | 2018         | 2019 <sup>1</sup> |
|                      | (1,000 tons) | (1,000 tons) | (1,000 tons)      |
| Alabama .....        | 204.0        | 254.0        | 315.0             |
| Arizona .....        | 171.0        | 156.0        | 166.0             |
| Arkansas .....       | 351.0        | 366.0        | 457.0             |
| California .....     | 323.0        | 342.0        | 324.0             |
| Florida .....        | 44.0         | 27.0         | 53.0              |
| Georgia .....        | 638.0        | 546.0        | 751.0             |
| Kansas .....         | 58.0         | 106.0        | 90.0              |
| Louisiana .....      | 127.0        | 135.0        | 185.0             |
| Mississippi .....    | 432.0        | 451.0        | 507.0             |
| Missouri .....       | 255.0        | 310.0        | 348.0             |
| New Mexico .....     | 40.0         | 42.0         | 46.0              |
| North Carolina ..... | 217.0        | 224.0        | 318.0             |
| Oklahoma .....       | 294.0        | 197.0        | 191.0             |
| South Carolina ..... | 134.0        | 117.0        | 148.0             |
| Tennessee .....      | 230.0        | 219.0        | 297.0             |
| Texas .....          | 2,852.0      | 2,088.0      | 1,974.0           |
| Virginia .....       | 52.0         | 51.0         | 62.0              |
| United States .....  | 6,422.0      | 5,631.0      | 6,232.0           |

<sup>1</sup> Estimates based on 3-year average lint-seed ratio.

# Tobacco Area Harvested, Yield, and Production – States and United States: 2017-2019

| State                | Area harvested |         |         | Yield per acre |          |          |
|----------------------|----------------|---------|---------|----------------|----------|----------|
|                      | 2017           | 2018    | 2019    | 2017           | 2018     | 2019     |
|                      | (acres)        | (acres) | (acres) | (pounds)       | (pounds) | (pounds) |
| Georgia .....        | 12,500         | 12,500  | 9,000   | 2,100          | 1,900    | 2,100    |
| Kentucky .....       | 80,500         | 68,100  | 57,400  | 2,277          | 1,973    | 2,150    |
| North Carolina ..... | 163,900        | 152,750 | 117,400 | 2,197          | 1,649    | 1,999    |
| Pennsylvania .....   | 8,100          | 7,800   | 5,700   | 2,344          | 2,231    | 2,509    |
| South Carolina ..... | 12,000         | 12,300  | 8,300   | 2,100          | 1,800    | 1,900    |
| Tennessee .....      | 21,100         | 15,700  | 13,300  | 2,038          | 2,523    | 2,292    |
| Virginia .....       | 23,370         | 22,280  | 16,020  | 2,284          | 1,977    | 1,898    |
| United States .....  | 321,470        | 291,430 | 227,120 | 2,209          | 1,830    | 2,060    |

| State                | Production     |                |                |
|----------------------|----------------|----------------|----------------|
|                      | 2017           | 2018           | 2019           |
|                      | (1,000 pounds) | (1,000 pounds) | (1,000 pounds) |
| Georgia .....        | 26,250         | 23,750         | 18,900         |
| Kentucky .....       | 183,300        | 134,370        | 123,390        |
| North Carolina ..... | 360,040        | 251,925        | 234,700        |
| Pennsylvania .....   | 18,990         | 17,400         | 14,300         |
| South Carolina ..... | 25,200         | 22,140         | 15,770         |
| Tennessee .....      | 43,000         | 39,610         | 30,490         |
| Virginia .....       | 53,381         | 44,046         | 30,406         |
| United States .....  | 710,161        | 533,241        | 467,956        |

**Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States: 2017-2019**

| Class, type, and State                     | Area harvested |               |               |
|--------------------------------------------|----------------|---------------|---------------|
|                                            | 2017           | 2018          | 2019          |
|                                            | (acres)        | (acres)       | (acres)       |
| <b>Class 1, Flue-cured (11-14)</b>         |                |               |               |
| Georgia .....                              | 12,500         | 12,500        | 9,000         |
| North Carolina .....                       | 163,000        | 152,000       | 117,000       |
| South Carolina .....                       | 12,000         | 12,300        | 8,300         |
| Virginia .....                             | 22,000         | 21,000        | 15,000        |
| United States .....                        | 209,500        | 197,800       | 149,300       |
| <b>Class 2, Fire-cured (21-23)</b>         |                |               |               |
| Kentucky .....                             | 11,500         | 11,000        | 9,500         |
| Tennessee .....                            | 7,500          | 7,600         | 6,300         |
| Virginia .....                             | 270            | 280           | 320           |
| United States .....                        | 19,270         | 18,880        | 16,120        |
| <b>Class 3A, Light air-cured</b>           |                |               |               |
| Type 31, Burley                            |                |               |               |
| Kentucky .....                             | 63,000         | 50,000        | 41,000        |
| North Carolina .....                       | 900            | 750           | 400           |
| Pennsylvania .....                         | 4,500          | 4,000         | 2,500         |
| Tennessee .....                            | 12,000         | 5,300         | 4,000         |
| Virginia .....                             | 1,100          | 1,000         | 700           |
| United States .....                        | 81,500         | 61,050        | 48,600        |
| Type 32, Southern Maryland                 |                |               |               |
| Pennsylvania .....                         | 1,800          | 1,400         | 1,000         |
| United States .....                        | 1,800          | 1,400         | 1,000         |
| <b>Total light air-cured (31-32) .....</b> | <b>83,300</b>  | <b>62,450</b> | <b>49,600</b> |
| <b>Class 3B, Dark air-cured (35-37)</b>    |                |               |               |
| Kentucky .....                             | 6,000          | 7,100         | 6,900         |
| Tennessee .....                            | 1,600          | 2,800         | 3,000         |
| United States .....                        | 7,600          | 9,900         | 9,900         |
| <b>Class 4, Cigar filler</b>               |                |               |               |
| Type 41, Pennsylvania Seedleaf             |                |               |               |
| Pennsylvania .....                         | 1,800          | 2,400         | 2,200         |
| United States .....                        | 1,800          | 2,400         | 2,200         |
| <b>All Tobacco</b>                         |                |               |               |
| United States .....                        | 321,470        | 291,430       | 227,120       |

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**Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States:  
2017-2019 (continued)**

| Class, type, and State                     | Yield per acre |              |              | Production     |                |                |
|--------------------------------------------|----------------|--------------|--------------|----------------|----------------|----------------|
|                                            | 2017           | 2018         | 2019         | 2017           | 2018           | 2019           |
|                                            | (pounds)       | (pounds)     | (pounds)     | (1,000 pounds) | (1,000 pounds) | (1,000 pounds) |
| <b>Class 1, Flue-cured (11-14)</b>         |                |              |              |                |                |                |
| Georgia .....                              | 2,100          | 1,900        | 2,100        | 26,250         | 23,750         | 18,900         |
| North Carolina .....                       | 2,200          | 1,650        | 2,000        | 358,600        | 250,800        | 234,000        |
| South Carolina .....                       | 2,100          | 1,800        | 1,900        | 25,200         | 22,140         | 15,770         |
| Virginia .....                             | 2,300          | 2,000        | 1,900        | 50,600         | 42,000         | 28,500         |
| United States .....                        | 2,199          | 1,712        | 1,990        | 460,650        | 338,690        | 297,170        |
| <b>Class 2, Fire-cured (21-23)</b>         |                |              |              |                |                |                |
| Kentucky .....                             | 3,300          | 3,200        | 2,900        | 37,950         | 35,200         | 27,550         |
| Tennessee .....                            | 2,800          | 3,050        | 2,800        | 21,000         | 23,180         | 17,640         |
| Virginia .....                             | 2,150          | 1,950        | 1,800        | 581            | 546            | 576            |
| United States .....                        | 3,089          | 3,121        | 2,839        | 59,531         | 58,926         | 45,766         |
| <b>Class 3A, Light air-cured</b>           |                |              |              |                |                |                |
| Type 31, Burley                            |                |              |              |                |                |                |
| Kentucky .....                             | 2,050          | 1,600        | 1,900        | 129,150        | 80,000         | 77,900         |
| North Carolina .....                       | 1,600          | 1,500        | 1,750        | 1,440          | 1,125          | 700            |
| Pennsylvania .....                         | 2,300          | 2,200        | 2,600        | 10,350         | 8,800          | 6,500          |
| Tennessee .....                            | 1,500          | 1,700        | 1,600        | 18,000         | 9,010          | 6,400          |
| Virginia .....                             | 2,000          | 1,500        | 1,900        | 2,200          | 1,500          | 1,330          |
| United States .....                        | 1,977          | 1,645        | 1,910        | 161,140        | 100,435        | 92,830         |
| Type 32, Southern Maryland Belt            |                |              |              |                |                |                |
| Pennsylvania .....                         | 2,400          | 2,200        | 2,300        | 4,320          | 3,080          | 2,300          |
| United States .....                        | 2,400          | 2,200        | 2,300        | 4,320          | 3,080          | 2,300          |
| <b>Total light air-cured (31-32) .....</b> | <b>1,986</b>   | <b>1,658</b> | <b>1,918</b> | <b>165,460</b> | <b>103,515</b> | <b>95,130</b>  |
| <b>Class 3B, Dark air-cured (35-37)</b>    |                |              |              |                |                |                |
| Kentucky .....                             | 2,700          | 2,700        | 2,600        | 16,200         | 19,170         | 17,940         |
| Tennessee .....                            | 2,500          | 2,650        | 2,150        | 4,000          | 7,420          | 6,450          |
| United States .....                        | 2,658          | 2,686        | 2,464        | 20,200         | 26,590         | 24,390         |
| <b>Class 4, Cigar filler</b>               |                |              |              |                |                |                |
| Type 41, Pennsylvania Seedleaf             |                |              |              |                |                |                |
| Pennsylvania .....                         | 2,400          | 2,300        | 2,500        | 4,320          | 5,520          | 5,500          |
| United States .....                        | 2,400          | 2,300        | 2,500        | 4,320          | 5,520          | 5,500          |
| <b>All tobacco</b>                         |                |              |              |                |                |                |
| United States .....                        | 2,209          | 1,830        | 2,060        | 710,161        | 533,241        | 467,956        |

## Sugarbeet Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

[Relates to year of intended harvest in all States except California]

| State                         | Area planted  |               |               | Area harvested |               |               |
|-------------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                               | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                               | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| California <sup>1</sup> ..... | 25.0          | 24.6          | 24.5          | 24.4           | 24.6          | 24.5          |
| Colorado .....                | 29.4          | 26.3          | 25.1          | 29.0           | 25.5          | 24.4          |
| Idaho .....                   | 167.0         | 163.0         | 171.0         | 166.0          | 163.0         | 165.0         |
| Michigan .....                | 144.0         | 150.0         | 146.0         | 143.0          | 148.0         | 145.0         |
| Minnesota .....               | 420.0         | 415.0         | 424.0         | 409.0          | 408.0         | 336.0         |
| Montana .....                 | 42.9          | 43.5          | 41.8          | 42.7           | 42.4          | 36.5          |
| Nebraska .....                | 46.1          | 45.5          | 44.0          | 45.2           | 44.1          | 42.1          |
| North Dakota .....            | 214.0         | 202.0         | 212.0         | 212.0          | 199.0         | 170.0         |
| Oregon .....                  | 9.1           | 9.3           | 10.0          | 9.1            | 9.3           | 9.8           |
| Washington .....              | 1.8           | 1.8           | 2.0           | 1.8            | 1.8           | 2.0           |
| Wyoming .....                 | 32.1          | 32.1          | 31.6          | 31.6           | 30.7          | 24.0          |
| United States .....           | 1,131.4       | 1,113.1       | 1,132.0       | 1,113.8        | 1,096.4       | 979.3         |

| State                         | Yield per acre |        |        | Production   |              |              |
|-------------------------------|----------------|--------|--------|--------------|--------------|--------------|
|                               | 2017           | 2018   | 2019   | 2017         | 2018         | 2019         |
|                               | (tons)         | (tons) | (tons) | (1,000 tons) | (1,000 tons) | (1,000 tons) |
| California <sup>1</sup> ..... | 43.7           | 48.8   | 44.1   | 1,066        | 1,200        | 1,080        |
| Colorado .....                | 35.7           | 32.6   | 30.7   | 1,035        | 831          | 749          |
| Idaho .....                   | 39.2           | 40.5   | 39.0   | 6,507        | 6,602        | 6,435        |
| Michigan .....                | 25.2           | 29.1   | 28.6   | 3,604        | 4,307        | 4,147        |
| Minnesota .....               | 30.6           | 25.7   | 25.0   | 12,515       | 10,486       | 8,400        |
| Montana .....                 | 32.7           | 31.1   | 31.6   | 1,396        | 1,319        | 1,153        |
| Nebraska .....                | 31.8           | 31.9   | 25.4   | 1,437        | 1,407        | 1,069        |
| North Dakota .....            | 30.4           | 28.8   | 26.0   | 6,445        | 5,731        | 4,420        |
| Oregon .....                  | 36.7           | 39.4   | 38.5   | 334          | 366          | 377          |
| Washington .....              | 48.2           | 48.2   | 45.4   | 87           | 87           | 91           |
| Wyoming .....                 | 28.2           | 30.8   | 28.3   | 891          | 946          | 679          |
| United States .....           | 31.7           | 30.4   | 29.2   | 35,317       | 33,282       | 28,600       |

<sup>1</sup> Relates to year of planting for overwintered beets in southern California.

## Sugarcane Area Harvested, Yield, and Production – States and United States: 2017-2019

| State                     | Area harvested          |               |               | Yield per acre <sup>1</sup> |        |        |
|---------------------------|-------------------------|---------------|---------------|-----------------------------|--------|--------|
|                           | 2017                    | 2018          | 2019          | 2017                        | 2018   | 2019   |
|                           | (1,000 acres)           | (1,000 acres) | (1,000 acres) | (tons)                      | (tons) | (tons) |
| <b>For sugar</b>          |                         |               |               |                             |        |        |
| Florida .....             | 397.0                   | 397.0         | 395.0         | 40.9                        | 41.7   | 41.6   |
| Louisiana .....           | 414.0                   | 425.0         | 442.0         | 32.5                        | 35.3   | 28.5   |
| Texas .....               | 40.5                    | 37.6          | 31.5          | 36.8                        | 36.6   | 36.3   |
| United States .....       | 851.5                   | 859.6         | 868.5         | 36.6                        | 38.3   | 34.7   |
| <b>For seed</b>           |                         |               |               |                             |        |        |
| Florida .....             | 15.7                    | 15.3          | 13.2          | 44.9                        | 45.8   | 47.6   |
| Louisiana .....           | 35.6                    | 23.5          | 28.4          | 36.2                        | 36.5   | 32.5   |
| Texas .....               | 1.3                     | 1.3           | 1.9           | 48.0                        | 37.9   | 39.4   |
| United States .....       | 52.6                    | 40.1          | 43.5          | 39.1                        | 40.1   | 37.4   |
| <b>For sugar and seed</b> |                         |               |               |                             |        |        |
| Florida .....             | 412.7                   | 412.3         | 408.2         | 41.1                        | 41.9   | 41.8   |
| Louisiana .....           | 449.6                   | 448.5         | 470.4         | 32.8                        | 35.4   | 28.7   |
| Texas .....               | 41.8                    | 38.9          | 33.4          | 37.1                        | 36.6   | 36.5   |
| United States .....       | 904.1                   | 899.7         | 912.0         | 36.8                        | 38.4   | 34.9   |
| State                     | Production <sup>1</sup> |               |               |                             |        |        |
|                           | 2017                    | 2018          | 2019          |                             |        |        |
|                           | (1,000 tons)            | (1,000 tons)  | (1,000 tons)  |                             |        |        |
| <b>For sugar</b>          |                         |               |               |                             |        |        |
| Florida .....             | 16,237                  | 16,555        | 16,432        |                             |        |        |
| Louisiana .....           | 13,455                  | 15,003        | 12,597        |                             |        |        |
| Texas .....               | 1,490                   | 1,376         | 1,143         |                             |        |        |
| United States .....       | 31,182                  | 32,934        | 30,172        |                             |        |        |
| <b>For seed</b>           |                         |               |               |                             |        |        |
| Florida .....             | 705                     | 701           | 628           |                             |        |        |
| Louisiana .....           | 1,289                   | 858           | 923           |                             |        |        |
| Texas .....               | 62                      | 49            | 75            |                             |        |        |
| United States .....       | 2,056                   | 1,608         | 1,626         |                             |        |        |
| <b>For sugar and seed</b> |                         |               |               |                             |        |        |
| Florida .....             | 16,942                  | 17,256        | 17,060        |                             |        |        |
| Louisiana .....           | 14,744                  | 15,861        | 13,520        |                             |        |        |
| Texas .....               | 1,552                   | 1,425         | 1,218         |                             |        |        |
| United States .....       | 33,238                  | 34,542        | 31,798        |                             |        |        |

<sup>1</sup> Net tons.

# Potato Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

| State                             | Area planted  |               |               | Area harvested |               |               |
|-----------------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                                   | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                                   | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| Alaska <sup>1 2</sup> .....       | (X)           | 0.5           | (NA)          | (X)            | 0.5           | (NA)          |
| California .....                  | 41.7          | 38.5          | 42.0          | 41.7           | 38.3          | 41.8          |
| Colorado .....                    | 55.9          | 55.3          | 51.3          | 55.6           | 55.0          | 51.1          |
| San Luis Valley .....             | 51.7          | 51.8          | 48.6          | 51.5           | 51.6          | 48.5          |
| All other areas .....             | 4.2           | 3.5           | 2.7           | 4.1            | 3.4           | 2.6           |
| Florida .....                     | 29.0          | 22.0          | 27.0          | 28.7           | 20.8          | 26.2          |
| Idaho .....                       | 310.0         | 315.0         | 310.0         | 310.0          | 315.0         | 308.0         |
| Illinois <sup>2</sup> .....       | 8.6           | 7.7           | (NA)          | 8.1            | 7.6           | (NA)          |
| Kansas <sup>2</sup> .....         | 4.1           | 3.3           | (NA)          | 4.1            | 3.3           | (NA)          |
| Maine .....                       | 48.0          | 49.0          | 52.0          | 47.5           | 48.5          | 51.5          |
| Maryland <sup>2</sup> .....       | 2.6           | 2.2           | (NA)          | 2.5            | 2.0           | (NA)          |
| Michigan .....                    | 50.0          | 50.0          | 49.0          | 49.5           | 48.0          | 46.5          |
| Minnesota .....                   | 46.0          | 44.0          | 46.0          | 45.5           | 43.5          | 44.0          |
| Missouri <sup>2</sup> .....       | 8.8           | 7.8           | (NA)          | 8.5            | 7.4           | (NA)          |
| Montana <sup>2</sup> .....        | 11.1          | 11.1          | (NA)          | 11.1           | 11.1          | (NA)          |
| Nebraska .....                    | 19.0          | 19.5          | 20.0          | 19.0           | 19.3          | 19.7          |
| New Jersey <sup>2</sup> .....     | 2.0           | 2.0           | (NA)          | 2.0            | 2.0           | (NA)          |
| New York <sup>2</sup> .....       | 14.5          | 14.3          | (NA)          | 14.4           | 13.4          | (NA)          |
| North Carolina <sup>2</sup> ..... | 16.0          | 13.0          | (NA)          | 15.1           | 12.2          | (NA)          |
| North Dakota .....                | 75.0          | 74.5          | 73.0          | 74.0           | 73.0          | 58.0          |
| Oregon .....                      | 46.0          | 45.0          | 45.0          | 45.9           | 45.0          | 44.9          |
| Texas .....                       | 23.3          | 18.0          | 18.0          | 22.8           | 17.5          | 17.5          |
| Virginia <sup>2</sup> .....       | 5.0           | 4.8           | (NA)          | 4.5            | 4.4           | (NA)          |
| Washington .....                  | 165.0         | 160.0         | 165.0         | 164.0          | 160.0         | 165.0         |
| Wisconsin .....                   | 71.0          | 69.0          | 70.0          | 70.0           | 67.0          | 68.0          |
| United States <sup>3</sup> .....  | 1,052.6       | 1,026.5       | 968.3         | 1,044.5        | 1,014.8       | 942.2         |

See footnote(s) at end of table.

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**Potato Area Planted and Harvested, Yield, and Production – States and United States:  
2017-2019 (continued)**

| State                             | Yield per acre |       |       | Production  |             |             |
|-----------------------------------|----------------|-------|-------|-------------|-------------|-------------|
|                                   | 2017           | 2018  | 2019  | 2017        | 2018        | 2019        |
|                                   | (cwt)          | (cwt) | (cwt) | (1,000 cwt) | (1,000 cwt) | (1,000 cwt) |
| Alaska <sup>1 2</sup> .....       | (X)            | 280   | (NA)  | (X)         | 140         | (NA)        |
| California .....                  | 429            | 404   | 445   | 17,894      | 15,457      | 18,601      |
| Colorado .....                    | 382            | 395   | 376   | 21,220      | 21,722      | 19,219      |
| San Luis Valley .....             | 375            | 390   | 370   | 19,313      | 20,124      | 17,945      |
| All other areas .....             | 465            | 470   | 490   | 1,907       | 1,598       | 1,274       |
| Florida .....                     | 250            | 265   | 270   | 7,175       | 5,512       | 7,074       |
| Idaho .....                       | 435            | 450   | 425   | 134,850     | 141,750     | 130,900     |
| Illinois <sup>2</sup> .....       | 410            | 375   | (NA)  | 3,321       | 2,850       | (NA)        |
| Kansas <sup>2</sup> .....         | 380            | 430   | (NA)  | 1,558       | 1,419       | (NA)        |
| Maine .....                       | 320            | 310   | 315   | 15,200      | 15,035      | 16,223      |
| Maryland <sup>2</sup> .....       | 365            | 255   | (NA)  | 913         | 510         | (NA)        |
| Michigan .....                    | 370            | 380   | 425   | 18,315      | 18,240      | 19,763      |
| Minnesota .....                   | 405            | 430   | 410   | 18,428      | 18,705      | 18,040      |
| Missouri <sup>2</sup> .....       | 285            | 225   | (NA)  | 2,423       | 1,665       | (NA)        |
| Montana <sup>2</sup> .....        | 340            | 350   | (NA)  | 3,774       | 3,885       | (NA)        |
| Nebraska .....                    | 475            | 480   | 480   | 9,025       | 9,264       | 9,456       |
| New Jersey <sup>2</sup> .....     | 300            | 265   | (NA)  | 600         | 530         | (NA)        |
| New York <sup>2</sup> .....       | 280            | 290   | (NA)  | 4,032       | 3,886       | (NA)        |
| North Carolina <sup>2</sup> ..... | 230            | 190   | (NA)  | 3,473       | 2,318       | (NA)        |
| North Dakota .....                | 330            | 325   | 350   | 24,420      | 23,725      | 20,300      |
| Oregon .....                      | 550            | 600   | 560   | 25,245      | 27,000      | 25,144      |
| Texas .....                       | 390            | 425   | 390   | 8,892       | 7,438       | 6,825       |
| Virginia <sup>2</sup> .....       | 265            | 235   | (NA)  | 1,193       | 1,034       | (NA)        |
| Washington .....                  | 605            | 630   | 625   | 99,220      | 100,800     | 103,125     |
| Wisconsin .....                   | 425            | 405   | 415   | 29,750      | 27,135      | 28,220      |
| United States <sup>3</sup> .....  | 432            | 443   | 449   | 450,921     | 450,020     | 422,890     |

(NA) Not available.

(X) Not applicable.

<sup>1</sup> Previously included in the Alaska table. For 2017 data, refer to the Alaska table on page 95.

<sup>2</sup> Estimates discontinued in 2019.

<sup>3</sup> Beginning in 2018, United States total includes data for Alaska.

## Sweet Potato Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

[Blank data cells indicate estimation period has not yet begun. Beginning in 2019, estimates will be published in *Vegetable Summary* released in February 2020.]

| State                        | Area planted  |               |               | Area harvested |               |               |
|------------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                              | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                              | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| Arkansas <sup>1</sup> .....  | (D)           | 5.2           | (NA)          | (D)            | 4.8           | (NA)          |
| California .....             | 21.0          | 21.0          |               | 21.0           | 21.0          |               |
| Florida <sup>1</sup> .....   | (D)           | 6.5           | (NA)          | (D)            | 5.8           | (NA)          |
| Louisiana <sup>1</sup> ..... | 10.0          | 8.5           | (NA)          | 9.5            | 8.3           | (NA)          |
| Mississippi .....            | 30.0          | 27.0          |               | 29.0           | 26.0          |               |
| North Carolina .....         | 90.0          | 82.0          |               | 89.5           | 78.5          |               |
| Other States .....           | 10.6          | -             |               | 10.3           | -             |               |
| United States .....          | 161.6         | 150.2         |               | 159.3          | 144.4         |               |

| State                        | Yield per acre |       |       | Production  |             |             |
|------------------------------|----------------|-------|-------|-------------|-------------|-------------|
|                              | 2017           | 2018  | 2019  | 2017        | 2018        | 2019        |
|                              | (cwt)          | (cwt) | (cwt) | (1,000 cwt) | (1,000 cwt) | (1,000 cwt) |
| Arkansas <sup>1</sup> .....  | (D)            | 220   | (NA)  | (D)         | 1,056       | (NA)        |
| California .....             | 310            | 370   |       | 6,510       | 7,770       |             |
| Florida <sup>1</sup> .....   | (D)            | 140   | (NA)  | (D)         | 812         | (NA)        |
| Louisiana <sup>1</sup> ..... | 230            | 265   | (NA)  | 2,185       | 2,200       | (NA)        |
| Mississippi .....            | 170            | 175   |       | 4,930       | 4,550       |             |
| North Carolina .....         | 220            | 140   |       | 19,690      | 10,990      |             |
| Other States .....           | 226            | (X)   |       | 2,331       | -           |             |
| United States .....          | 224            | 190   |       | 35,646      | 27,378      |             |

- Represents zero.

(D) Withheld to avoid disclosing data for individual operations.

(NA) Not available.

(X) Not applicable.

<sup>1</sup> Estimates discontinued in 2019.

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# Dry Edible Bean Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

[Excludes beans grown for garden seed. Beginning in 2019, chickpeas are excluded]

| State                      | Area planted  |               |               | Area harvested |               |               |
|----------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                            | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                            | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| California .....           | 50.0          | 48.0          | 27.4          | 49.7           | 47.7          | 27.4          |
| Colorado .....             | 58.0          | 42.0          | 37.0          | 54.5           | 30.5          | 33.8          |
| Idaho .....                | 180.0         | 185.0         | 47.0          | 178.0          | 183.0         | 45.0          |
| Michigan .....             | 220.0         | 195.0         | 185.0         | 218.5          | 193.0         | 180.0         |
| Minnesota .....            | 170.0         | 185.0         | 210.0         | 163.0          | 178.0         | 201.0         |
| Montana <sup>2</sup> ..... | 275.0         | 395.0         | (NA)          | 265.0          | 386.0         | (NA)          |
| Nebraska .....             | 180.0         | 140.2         | 120.0         | 155.0          | 131.2         | 97.0          |
| North Dakota .....         | 705.0         | 635.0         | 615.0         | 685.0          | 615.0         | 550.0         |
| Texas <sup>2</sup> .....   | 22.0          | 20.3          | (NA)          | 20.0           | 18.3          | (NA)          |
| Washington .....           | 196.0         | 218.0         | 25.0          | 195.0          | 217.0         | 25.0          |
| Wyoming .....              | 41.0          | 31.0          | 21.0          | 39.0           | 28.5          | 17.3          |
| United States .....        | 2,097.0       | 2,094.5       | 1,287.4       | 2,022.7        | 2,028.2       | 1,176.5       |

| State                      | Yield per acre <sup>1</sup> |          |          | Production <sup>1</sup> |             |             |
|----------------------------|-----------------------------|----------|----------|-------------------------|-------------|-------------|
|                            | 2017                        | 2018     | 2019     | 2017                    | 2018        | 2019        |
|                            | (pounds)                    | (pounds) | (pounds) | (1,000 cwt)             | (1,000 cwt) | (1,000 cwt) |
| California .....           | 2,100                       | 2,490    | 2,660    | 1,045                   | 1,190       | 729         |
| Colorado .....             | 2,000                       | 2,120    | 1,840    | 1,092                   | 647         | 623         |
| Idaho .....                | 1,610                       | 1,710    | 2,370    | 2,873                   | 3,127       | 1,067       |
| Michigan .....             | 2,010                       | 2,400    | 2,030    | 4,394                   | 4,635       | 3,662       |
| Minnesota .....            | 2,190                       | 2,360    | 2,040    | 3,567                   | 4,200       | 4,101       |
| Montana <sup>2</sup> ..... | 1,000                       | 1,350    | (NA)     | 2,643                   | 5,214       | (NA)        |
| Nebraska .....             | 2,520                       | 2,480    | 1,940    | 3,901                   | 3,254       | 1,883       |
| North Dakota .....         | 1,810                       | 1,760    | 1,400    | 12,392                  | 10,806      | 7,691       |
| Texas <sup>2</sup> .....   | 1,100                       | 1,150    | (NA)     | 220                     | 210         | (NA)        |
| Washington .....           | 1,490                       | 1,780    | 2,660    | 2,901                   | 3,857       | 665         |
| Wyoming .....              | 2,390                       | 2,120    | 2,250    | 933                     | 605         | 390         |
| United States .....        | 1,778                       | 1,861    | 1,769    | 35,961                  | 37,745      | 20,811      |

- Represents zero.

(D) Withheld to avoid disclosing data for individual operations.

(NA) Not available.

(X) Not applicable.

<sup>1</sup> Clean basis.

<sup>2</sup> Estimates discontinued in 2019.

# Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2017-2019

| Class and State                 | Area planted  |               |               | Area harvested |               |               |
|---------------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                                 | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                                 | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| <b>Large lima</b>               |               |               |               |                |               |               |
| California .....                | 12.1          | 10.2          | 7.3           | 12.0           | 10.1          | 7.3           |
| Colorado .....                  | -             | -             | -             | -              | -             | -             |
| Idaho .....                     | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Michigan .....                  | -             | -             | -             | -              | -             | -             |
| Minnesota .....                 | -             | -             | -             | -              | -             | -             |
| Montana <sup>1</sup> .....      | -             | -             | (NA)          | -              | -             | (NA)          |
| Nebraska .....                  | -             | -             | -             | -              | -             | -             |
| North Dakota .....              | -             | -             | -             | -              | -             | -             |
| Texas <sup>1</sup> .....        | -             | -             | (NA)          | -              | -             | (NA)          |
| Washington .....                | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Wyoming .....                   | -             | -             | -             | -              | -             | -             |
| Other States <sup>2</sup> ..... | 0.2           | 0.7           | 1.6           | 0.2            | 0.7           | 1.6           |
| United States .....             | 12.3          | 10.9          | 8.9           | 12.2           | 10.8          | 8.9           |
| <b>Baby lima</b>                |               |               |               |                |               |               |
| California .....                | 8.0           | 10.0          | 7.9           | 8.0            | 9.9           | 7.9           |
| Colorado .....                  | -             | -             | -             | -              | -             | -             |
| Idaho .....                     | 0.6           | (D)           | (D)           | 0.6            | (D)           | (D)           |
| Michigan .....                  | -             | -             | -             | -              | -             | -             |
| Minnesota .....                 | (D)           | -             | -             | (D)            | -             | -             |
| Montana <sup>1</sup> .....      | -             | -             | (NA)          | -              | -             | (NA)          |
| Nebraska .....                  | -             | -             | -             | -              | -             | -             |
| North Dakota .....              | -             | -             | -             | -              | -             | -             |
| Texas <sup>1</sup> .....        | -             | -             | (NA)          | -              | -             | (NA)          |
| Washington .....                | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Wyoming .....                   | -             | -             | -             | -              | -             | -             |
| Other States <sup>2</sup> ..... | 0.5           | 1.1           | 1.4           | 0.5            | 1.1           | 1.4           |
| United States .....             | 9.1           | 11.1          | 9.3           | 9.1            | 11.0          | 9.3           |
| <b>Navy</b>                     |               |               |               |                |               |               |
| California .....                | -             | -             | -             | -              | -             | -             |
| Colorado .....                  | -             | -             | -             | -              | -             | -             |
| Idaho .....                     | 2.0           | 1.2           | 1.3           | 1.9            | 1.1           | 1.2           |
| Michigan .....                  | 74.0          | 60.0          | 55.0          | 73.9           | 59.2          | 54.4          |
| Minnesota .....                 | 41.4          | 42.8          | 39.3          | 39.5           | 41.3          | 37.6          |
| Montana <sup>1</sup> .....      | -             | -             | (NA)          | -              | -             | (NA)          |
| Nebraska .....                  | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| North Dakota .....              | 84.0          | 81.0          | 75.0          | 82.0           | 79.0          | 72.0          |
| Texas <sup>1</sup> .....        | -             | -             | (NA)          | -              | -             | (NA)          |
| Washington .....                | 1.1           | 1.4           | (D)           | 1.1            | 1.4           | (D)           |
| Wyoming .....                   | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Other States <sup>2</sup> ..... | 2.7           | 1.0           | 1.9           | 2.4            | 1.0           | 1.6           |
| United States .....             | 205.2         | 187.4         | 172.5         | 200.8          | 183.0         | 166.8         |

See footnote(s) at end of table.

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**Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2017-2019 (continued)**

| Class and State                 | Yield per acre <sup>3</sup> |          |          | Production <sup>3</sup> |             |             |
|---------------------------------|-----------------------------|----------|----------|-------------------------|-------------|-------------|
|                                 | 2017                        | 2018     | 2019     | 2017                    | 2018        | 2019        |
|                                 | (pounds)                    | (pounds) | (pounds) | (1,000 cwt)             | (1,000 cwt) | (1,000 cwt) |
| <b>Large lima</b>               |                             |          |          |                         |             |             |
| California .....                | 2,090                       | 2,150    | 2,350    | 251                     | 217         | 172         |
| Colorado .....                  | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Idaho .....                     | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Michigan .....                  | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Minnesota .....                 | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Montana <sup>1</sup> .....      | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Nebraska .....                  | (X)                         | (X)      | (X)      | -                       | -           | -           |
| North Dakota .....              | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Texas <sup>1</sup> .....        | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Washington .....                | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Wyoming .....                   | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Other States <sup>2</sup> ..... | 2,000                       | 2,429    | 1,563    | 4                       | 17          | 25          |
| United States .....             | 2,090                       | 2,167    | 2,213    | 255                     | 234         | 197         |
| <b>Baby lima</b>                |                             |          |          |                         |             |             |
| California .....                | 2,210                       | 2,560    | 3,120    | 177                     | 253         | 246         |
| Colorado .....                  | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Idaho .....                     | 2,200                       | (D)      | (D)      | 13                      | (D)         | (D)         |
| Michigan .....                  | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Minnesota .....                 | (D)                         | (X)      | (X)      | (D)                     | -           | -           |
| Montana <sup>1</sup> .....      | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Nebraska .....                  | (X)                         | (X)      | (X)      | -                       | -           | -           |
| North Dakota .....              | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Texas <sup>1</sup> .....        | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Washington .....                | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Wyoming .....                   | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Other States <sup>2</sup> ..... | 2,800                       | 2,000    | 2,286    | 14                      | 22          | 32          |
| United States .....             | 2,242                       | 2,500    | 2,989    | 204                     | 275         | 278         |
| <b>Navy</b>                     |                             |          |          |                         |             |             |
| California .....                | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Colorado .....                  | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Idaho .....                     | 2,500                       | 2,920    | 2,730    | 48                      | 32          | 33          |
| Michigan .....                  | 2,110                       | 2,600    | 2,150    | 1,559                   | 1,539       | 1,170       |
| Minnesota .....                 | 2,070                       | 2,290    | 1,950    | 818                     | 946         | 733         |
| Montana <sup>1</sup> .....      | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Nebraska .....                  | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| North Dakota .....              | 2,010                       | 2,050    | 1,460    | 1,648                   | 1,620       | 1,051       |
| Texas <sup>1</sup> .....        | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Washington .....                | 2,750                       | 2,290    | (D)      | 30                      | 32          | (D)         |
| Wyoming .....                   | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Other States <sup>2</sup> ..... | 2,417                       | 2,200    | 2,625    | 58                      | 22          | 42          |
| United States .....             | 2,072                       | 2,290    | 1,816    | 4,161                   | 4,191       | 3,029       |

See footnote(s) at end of table.

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**Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2017-2019 (continued)**

| Class and State                 | Area planted  |               |               | Area harvested |               |               |
|---------------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                                 | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                                 | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| <b>Great northern</b>           |               |               |               |                |               |               |
| California .....                | -             | -             | -             | -              | -             | -             |
| Colorado .....                  | 0.7           | (D)           | (D)           | 0.7            | (D)           | (D)           |
| Idaho .....                     | 1.4           | 1.9           | 3.7           | 1.4            | 1.8           | 3.5           |
| Michigan .....                  | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Minnesota .....                 | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Montana <sup>1</sup> .....      | -             | (D)           | (NA)          | -              | (D)           | (NA)          |
| Nebraska .....                  | 54.6          | 41.0          | 48.0          | 47.6           | 39.0          | 38.4          |
| North Dakota .....              | 2.9           | (D)           | 4.4           | 2.8            | (D)           | 4.3           |
| Texas <sup>1</sup> .....        | -             | -             | (NA)          | -              | -             | (NA)          |
| Washington .....                | 1.0           | (D)           | 0.7           | 1.0            | (D)           | 0.7           |
| Wyoming .....                   | 1.5           | (D)           | 1.3           | 1.5            | (D)           | 1.2           |
| Other States <sup>2</sup> ..... | 1.3           | 8.1           | 4.4           | 1.3            | 7.7           | 4.1           |
| United States .....             | 63.4          | 51.0          | 62.5          | 56.3           | 48.5          | 52.2          |
| <b>Small white</b>              |               |               |               |                |               |               |
| California .....                | -             | -             | -             | -              | -             | -             |
| Colorado .....                  | -             | (D)           | (D)           | -              | (D)           | (D)           |
| Idaho .....                     | 1.8           | (D)           | 1.2           | 1.8            | (D)           | 1.1           |
| Michigan .....                  | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Minnesota .....                 | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Montana <sup>1</sup> .....      | -             | -             | (NA)          | -              | -             | (NA)          |
| Nebraska .....                  | (D)           | -             | (D)           | (D)            | -             | (D)           |
| North Dakota .....              | -             | -             | -             | -              | -             | -             |
| Texas <sup>1</sup> .....        | -             | -             | (NA)          | -              | -             | (NA)          |
| Washington .....                | (D)           | 1.2           | (D)           | (D)            | 1.2           | (D)           |
| Wyoming .....                   | -             | -             | -             | -              | -             | -             |
| Other States <sup>2</sup> ..... | 5.8           | 5.9           | 4.0           | 5.5            | 5.8           | 4.0           |
| United States .....             | 7.6           | 7.1           | 5.2           | 7.3            | 7.0           | 5.1           |

See footnote(s) at end of table.

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**Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2017-2019 (continued)**

| Class and State                 | Yield per acre <sup>3</sup> |          |          | Production <sup>3</sup> |             |             |
|---------------------------------|-----------------------------|----------|----------|-------------------------|-------------|-------------|
|                                 | 2017                        | 2018     | 2019     | 2017                    | 2018        | 2019        |
|                                 | (pounds)                    | (pounds) | (pounds) | (1,000 cwt)             | (1,000 cwt) | (1,000 cwt) |
| <b>Great northern</b>           |                             |          |          |                         |             |             |
| California .....                | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Colorado .....                  | 2,150                       | (D)      | (D)      | 15                      | (D)         | (D)         |
| Idaho .....                     | 2,420                       | 2,130    | 2,230    | 34                      | 38          | 78          |
| Michigan .....                  | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Minnesota .....                 | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Montana <sup>1</sup> .....      | (X)                         | (D)      | (NA)     | -                       | (D)         | (NA)        |
| Nebraska .....                  | 2,520                       | 2,500    | 1,950    | 1,200                   | 975         | 749         |
| North Dakota .....              | 2,240                       | (D)      | 1,840    | 63                      | (D)         | 79          |
| Texas <sup>1</sup> .....        | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Washington .....                | 2,510                       | (D)      | 2,860    | 25                      | (D)         | 20          |
| Wyoming .....                   | 2,350                       | (D)      | 2,180    | 35                      | (D)         | 26          |
| Other States <sup>2</sup> ..... | 2,385                       | 2,273    | 2,146    | 31                      | 175         | 88          |
| United States .....             | 2,492                       | 2,449    | 1,992    | 1,403                   | 1,188       | 1,040       |
| <b>Small white</b>              |                             |          |          |                         |             |             |
| California .....                | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Colorado .....                  | (X)                         | (D)      | (D)      | -                       | (D)         | (D)         |
| Idaho .....                     | 2,240                       | (D)      | 1,890    | 40                      | (D)         | 21          |
| Michigan .....                  | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Minnesota .....                 | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Montana <sup>1</sup> .....      | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Nebraska .....                  | (D)                         | (X)      | (D)      | (D)                     | -           | (D)         |
| North Dakota .....              | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Texas <sup>1</sup> .....        | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Washington .....                | (D)                         | 1,900    | (D)      | (D)                     | 23          | (D)         |
| Wyoming .....                   | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Other States <sup>2</sup> ..... | 2,382                       | 2,276    | 2,100    | 131                     | 132         | 84          |
| United States .....             | 2,342                       | 2,214    | 2,059    | 171                     | 155         | 105         |

See footnote(s) at end of table.

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**Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2017-2019 (continued)**

| Class and State                 | Area planted  |               |               | Area harvested |               |               |
|---------------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                                 | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                                 | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| <b>Pinto</b>                    |               |               |               |                |               |               |
| California .....                | -             | -             | -             | -              | -             | -             |
| Colorado .....                  | 48.0          | 27.0          | 25.5          | 45.5           | 19.5          | 23.5          |
| Idaho .....                     | 32.0          | 22.0          | 14.0          | 31.5           | 21.7          | 13.5          |
| Michigan .....                  | (D)           | (D)           | 3.5           | (D)            | (D)           | 3.3           |
| Minnesota .....                 | 15.9          | 8.8           | 11.4          | 15.1           | 8.4           | 10.9          |
| Montana <sup>1</sup> .....      | 6.0           | 3.0           | (NA)          | 6.0            | 2.6           | (NA)          |
| Nebraska .....                  | 93.6          | 65.0          | 51.0          | 79.8           | 59.5          | 43.1          |
| North Dakota .....              | 468.0         | 320.0         | 368.0         | 457.0          | 313.0         | 326.0         |
| Texas <sup>1</sup> .....        | (D)           | (D)           | (NA)          | (D)            | (D)           | (NA)          |
| Washington .....                | 7.8           | 8.4           | 7.0           | 7.7            | 8.3           | 7.0           |
| Wyoming .....                   | 31.0          | 23.0          | 15.0          | 29.5           | 21.0          | 12.5          |
| Other States <sup>2</sup> ..... | 4.1           | 3.1           | -             | 4.0            | 3.1           | -             |
| United States .....             | 706.4         | 480.3         | 495.4         | 676.1          | 457.1         | 439.8         |
| <b>Light red kidney</b>         |               |               |               |                |               |               |
| California .....                | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Colorado .....                  | 4.0           | 5.1           | 5.6           | 3.5            | 3.4           | 4.5           |
| Idaho .....                     | 1.4           | 1.0           | 2.0           | 1.4            | 1.0           | 1.9           |
| Michigan .....                  | 6.2           | 6.1           | 6.6           | 6.0            | 6.1           | 5.5           |
| Minnesota .....                 | 15.8          | 14.6          | 20.1          | 15.3           | 14.0          | 19.2          |
| Montana <sup>1</sup> .....      | -             | -             | (NA)          | -              | -             | (NA)          |
| Nebraska .....                  | 10.5          | 10.1          | 11.0          | 8.8            | 9.7           | 7.1           |
| North Dakota .....              | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Texas <sup>1</sup> .....        | -             | -             | (NA)          | -              | -             | (NA)          |
| Washington .....                | 1.3           | (D)           | (D)           | 1.3            | (D)           | (D)           |
| Wyoming .....                   | -             | -             | -             | -              | -             | -             |
| Other States <sup>2</sup> ..... | 0.7           | 1.5           | 3.3           | 0.6            | 1.5           | 2.5           |
| United States .....             | 39.9          | 38.4          | 48.6          | 36.9           | 35.7          | 40.7          |
| <b>Dark red kidney</b>          |               |               |               |                |               |               |
| California .....                | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Colorado .....                  | -             | (D)           | -             | -              | (D)           | -             |
| Idaho .....                     | 2.0           | 3.0           | 3.4           | 1.9            | 2.9           | 3.3           |
| Michigan .....                  | (D)           | 2.7           | 3.0           | (D)            | 2.7           | 2.7           |
| Minnesota .....                 | 44.2          | 58.5          | 65.8          | 42.1           | 56.3          | 63.0          |
| Montana <sup>1</sup> .....      | -             | -             | (NA)          | -              | -             | (NA)          |
| Nebraska .....                  | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| North Dakota .....              | 1.7           | 1.5           | (D)           | 1.6            | 1.4           | (D)           |
| Texas <sup>1</sup> .....        | -             | -             | (NA)          | -              | -             | (NA)          |
| Washington .....                | 1.8           | 1.9           | (D)           | 1.8            | 1.9           | (D)           |
| Wyoming .....                   | -             | (D)           | -             | -              | (D)           | -             |
| Other States <sup>2</sup> ..... | 3.2           | 2.0           | 6.1           | 3.0            | 1.3           | 4.2           |
| United States .....             | 52.9          | 69.6          | 78.3          | 50.4           | 66.5          | 73.2          |

See footnote(s) at end of table.

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**Dry Edible Bean Area Planted, Harvested, Yield, and Production by Commercial Class – States and United States: 2017-2019 (continued)**

| Class and State                 | Yield per acre <sup>3</sup> |          |          | Production <sup>3</sup> |             |             |
|---------------------------------|-----------------------------|----------|----------|-------------------------|-------------|-------------|
|                                 | 2017                        | 2018     | 2019     | 2017                    | 2018        | 2019        |
|                                 | (pounds)                    | (pounds) | (pounds) | (1,000 cwt)             | (1,000 cwt) | (1,000 cwt) |
| <b>Pinto</b>                    |                             |          |          |                         |             |             |
| California .....                | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Colorado .....                  | 1,900                       | 2,040    | 1,590    | 865                     | 398         | 374         |
| Idaho .....                     | 2,610                       | 2,630    | 2,490    | 822                     | 571         | 336         |
| Michigan .....                  | (D)                         | (D)      | 1,640    | (D)                     | (D)         | 54          |
| Minnesota .....                 | 1,910                       | 1,980    | 1,920    | 288                     | 166         | 209         |
| Montana <sup>1</sup> .....      | 2,500                       | 2,400    | (NA)     | 150                     | 62          | (NA)        |
| Nebraska .....                  | 2,650                       | 2,500    | 1,960    | 2,115                   | 1,488       | 845         |
| North Dakota .....              | 1,840                       | 1,710    | 1,370    | 8,409                   | 5,352       | 4,466       |
| Texas <sup>1</sup> .....        | (D)                         | (D)      | (NA)     | (D)                     | (D)         | (NA)        |
| Washington .....                | 2,500                       | 2,500    | 2,800    | 193                     | 208         | 196         |
| Wyoming .....                   | 2,430                       | 2,290    | 2,310    | 717                     | 481         | 289         |
| Other States <sup>2</sup> ..... | 1,450                       | 1,677    | (X)      | 58                      | 52          | -           |
| United States .....             | 2,014                       | 1,920    | 1,539    | 13,617                  | 8,778       | 6,769       |
| <b>Light red kidney</b>         |                             |          |          |                         |             |             |
| California .....                | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Colorado .....                  | 2,800                       | 2,720    | 2,830    | 98                      | 92          | 127         |
| Idaho .....                     | 1,930                       | 2,570    | 2,250    | 27                      | 26          | 43          |
| Michigan .....                  | 1,490                       | 1,620    | 1,650    | 89                      | 99          | 91          |
| Minnesota .....                 | 3,040                       | 2,660    | 2,300    | 465                     | 372         | 442         |
| Montana <sup>1</sup> .....      | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Nebraska .....                  | 2,000                       | 2,760    | 2,040    | 176                     | 268         | 145         |
| North Dakota .....              | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Texas <sup>1</sup> .....        | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Washington .....                | 2,540                       | (D)      | (D)      | 33                      | (D)         | (D)         |
| Wyoming .....                   | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Other States <sup>2</sup> ..... | 1,833                       | 2,667    | 2,680    | 11                      | 40          | 67          |
| United States .....             | 2,436                       | 2,513    | 2,248    | 899                     | 897         | 915         |
| <b>Dark red kidney</b>          |                             |          |          |                         |             |             |
| California .....                | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Colorado .....                  | (X)                         | (D)      | (X)      | -                       | (D)         | -           |
| Idaho .....                     | 2,440                       | 2,390    | 2,170    | 46                      | 69          | 72          |
| Michigan .....                  | (D)                         | 1,420    | 1,050    | (D)                     | 38          | 28          |
| Minnesota .....                 | 2,240                       | 2,530    | 2,100    | 943                     | 1,424       | 1,323       |
| Montana <sup>1</sup> .....      | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Nebraska .....                  | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| North Dakota .....              | 1,430                       | 1,690    | (D)      | 23                      | 24          | (D)         |
| Texas <sup>1</sup> .....        | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Washington .....                | 2,520                       | 1,730    | (D)      | 45                      | 33          | (D)         |
| Wyoming .....                   | (X)                         | (D)      | (X)      | -                       | (D)         | -           |
| Other States <sup>2</sup> ..... | 1,400                       | 2,846    | 1,571    | 42                      | 37          | 66          |
| United States .....             | 2,181                       | 2,444    | 2,034    | 1,099                   | 1,625       | 1,489       |

See footnote(s) at end of table.

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**Dry Edible Bean Area Planted, Harvested, Yield, and Production by Commercial Class – States and United States: 2017-2019 (continued)**

| Class and State                 | Area planted  |               |               | Area harvested |               |               |
|---------------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                                 | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                                 | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| <b>Pink</b>                     |               |               |               |                |               |               |
| California .....                | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Colorado .....                  | -             | -             | -             | -              | -             | -             |
| Idaho .....                     | 7.5           | 7.5           | 5.1           | 7.3            | 7.3           | 4.9           |
| Michigan .....                  | -             | (D)           | -             | -              | (D)           | -             |
| Minnesota .....                 | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Montana <sup>1</sup> .....      | -             | -             | (NA)          | -              | -             | (NA)          |
| Nebraska .....                  | -             | -             | -             | -              | -             | -             |
| North Dakota .....              | 2.7           | 6.9           | 8.2           | 2.6            | 6.4           | 8.1           |
| Texas <sup>1</sup> .....        | -             | -             | (NA)          | -              | -             | (NA)          |
| Washington .....                | 1.1           | -             | (D)           | 1.1            | -             | (D)           |
| Wyoming .....                   | (D)           | -             | -             | (D)            | -             | -             |
| Other States <sup>2</sup> ..... | 3.6           | 5.6           | 5.3           | 3.5            | 5.4           | 5.1           |
| United States .....             | 14.9          | 20.0          | 18.6          | 14.5           | 19.1          | 18.1          |
| <b>Small red</b>                |               |               |               |                |               |               |
| California .....                | -             | -             | -             | -              | -             | -             |
| Colorado .....                  | 1.5           | 0.9           | -             | 1.4            | 0.4           | -             |
| Idaho .....                     | 5.5           | 3.3           | 3.5           | 5.3            | 3.2           | 3.3           |
| Michigan .....                  | 5.5           | 13.3          | 11.0          | 5.3            | 13.1          | 10.8          |
| Minnesota .....                 | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Montana <sup>1</sup> .....      | -             | -             | (NA)          | -              | -             | (NA)          |
| Nebraska .....                  | (D)           | (D)           | -             | (D)            | (D)           | -             |
| North Dakota .....              | 4.4           | 9.0           | 11.5          | 4.2            | 8.5           | 8.1           |
| Texas <sup>1</sup> .....        | -             | -             | (NA)          | -              | -             | (NA)          |
| Washington .....                | 2.0           | 3.8           | 2.7           | 2.0            | 3.8           | 2.7           |
| Wyoming .....                   | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Other States <sup>2</sup> ..... | 1.9           | 2.4           | 2.2           | 1.9            | 2.2           | 2.1           |
| United States .....             | 20.8          | 32.7          | 30.9          | 20.1           | 31.2          | 27.0          |
| <b>Cranberry</b>                |               |               |               |                |               |               |
| California .....                | 0.4           | 0.6           | 0.3           | 0.4            | 0.6           | 0.3           |
| Colorado .....                  | -             | -             | (D)           | -              | -             | (D)           |
| Idaho .....                     | 1.0           | 1.2           | 1.3           | 1.0            | 1.1           | 1.2           |
| Michigan .....                  | 3.8           | 3.9           | 2.7           | 3.7            | 3.9           | 2.5           |
| Minnesota .....                 | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Montana <sup>1</sup> .....      | -             | (D)           | (NA)          | -              | (D)           | (NA)          |
| Nebraska .....                  | (D)           | (D)           | -             | (D)            | (D)           | -             |
| North Dakota .....              | 3.2           | 2.8           | (D)           | 3.1            | 2.7           | (D)           |
| Texas <sup>1</sup> .....        | -             | -             | (NA)          | -              | -             | (NA)          |
| Washington .....                | 1.1           | (D)           | 1.4           | 1.1            | (D)           | 1.4           |
| Wyoming .....                   | -             | -             | -             | -              | -             | -             |
| Other States <sup>2</sup> ..... | 2.1           | 5.8           | 4.3           | 2.0            | 5.6           | 3.6           |
| United States .....             | 11.6          | 14.3          | 10.0          | 11.3           | 13.9          | 9.0           |

See footnote(s) at end of table.

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**Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2017-2019** (continued)

| Class and State                 | Yield per acre <sup>3</sup> |          |          | Production <sup>3</sup> |             |             |
|---------------------------------|-----------------------------|----------|----------|-------------------------|-------------|-------------|
|                                 | 2017                        | 2018     | 2019     | 2017                    | 2018        | 2019        |
|                                 | (pounds)                    | (pounds) | (pounds) | (1,000 cwt)             | (1,000 cwt) | (1,000 cwt) |
| <b>Pink</b>                     |                             |          |          |                         |             |             |
| California .....                | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Colorado .....                  | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Idaho .....                     | 2,690                       | 2,490    | 2,380    | 196                     | 182         | 117         |
| Michigan .....                  | (X)                         | (D)      | (X)      | -                       | (D)         | -           |
| Minnesota .....                 | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Montana <sup>1</sup> .....      | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Nebraska .....                  | (X)                         | (X)      | (X)      | -                       | -           | -           |
| North Dakota .....              | 1,610                       | 1,790    | 1,150    | 42                      | 115         | 93          |
| Texas <sup>1</sup> .....        | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Washington .....                | 2,410                       | (X)      | (D)      | 27                      | -           | (D)         |
| Wyoming .....                   | (D)                         | (X)      | (X)      | (D)                     | -           | -           |
| Other States <sup>2</sup> ..... | 1,914                       | 1,870    | 1,588    | 67                      | 101         | 81          |
| United States .....             | 2,290                       | 2,084    | 1,608    | 332                     | 398         | 291         |
| <b>Small red</b>                |                             |          |          |                         |             |             |
| California .....                | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Colorado .....                  | 2,500                       | 1,680    | (X)      | 35                      | 7           | -           |
| Idaho .....                     | 2,480                       | 2,320    | 2,190    | 131                     | 74          | 72          |
| Michigan .....                  | 1,700                       | 2,500    | 2,160    | 90                      | 328         | 233         |
| Minnesota .....                 | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Montana <sup>1</sup> .....      | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Nebraska .....                  | (D)                         | (D)      | (X)      | (D)                     | (D)         | -           |
| North Dakota .....              | 2,160                       | 2,000    | 1,770    | 91                      | 170         | 143         |
| Texas <sup>1</sup> .....        | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Washington .....                | 2,490                       | 2,250    | 2,520    | 50                      | 86          | 68          |
| Wyoming .....                   | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Other States <sup>2</sup> ..... | 2,158                       | 1,636    | 2,429    | 41                      | 36          | 51          |
| United States .....             | 2,179                       | 2,247    | 2,100    | 438                     | 701         | 567         |
| <b>Cranberry</b>                |                             |          |          |                         |             |             |
| California .....                | 1,000                       | 2,960    | 2,300    | 4                       | 18          | 7           |
| Colorado .....                  | (X)                         | (X)      | (D)      | -                       | -           | (D)         |
| Idaho .....                     | 1,760                       | 2,250    | 2,260    | 18                      | 25          | 27          |
| Michigan .....                  | 1,580                       | 1,560    | 1,640    | 58                      | 61          | 41          |
| Minnesota .....                 | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Montana <sup>1</sup> .....      | (X)                         | (D)      | (NA)     | -                       | (D)         | (NA)        |
| Nebraska .....                  | (D)                         | (D)      | (X)      | (D)                     | (D)         | -           |
| North Dakota .....              | 1,560                       | 1,350    | (D)      | 48                      | 36          | (D)         |
| Texas <sup>1</sup> .....        | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Washington .....                | 2,230                       | (D)      | 2,600    | 25                      | (D)         | 36          |
| Wyoming .....                   | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Other States <sup>2</sup> ..... | 1,600                       | 1,857    | 1,389    | 32                      | 104         | 50          |
| United States .....             | 1,637                       | 1,755    | 1,789    | 185                     | 244         | 161         |

See footnote(s) at end of table.

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**Dry Edible Bean Area Planted, Harvested, Yield, and Production by Commercial Class – States and United States: 2017-2019 (continued)**

| Class and State                 | Area planted  |               |               | Area harvested |               |               |
|---------------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                                 | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                                 | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| <b>Black</b>                    |               |               |               |                |               |               |
| California .....                | 0.2           | (D)           | (D)           | 0.2            | (D)           | (D)           |
| Colorado .....                  | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Idaho .....                     | 4.1           | 3.5           | 5.4           | 4.0            | 3.4           | 5.2           |
| Michigan .....                  | 121.0         | 100.0         | 95.0          | 120.4          | 99.0          | 93.0          |
| Minnesota .....                 | 40.5          | 42.1          | 55.1          | 39.1           | 40.5          | 52.7          |
| Montana <sup>1</sup> .....      | -             | -             | (NA)          | -              | -             | (NA)          |
| Nebraska .....                  | (D)           | 3.5           | (D)           | (D)            | 3.4           | (D)           |
| North Dakota .....              | 89.0          | 93.0          | 130.0         | 85.0           | 90.0          | 121.0         |
| Texas <sup>1</sup> .....        | -             | -             | (NA)          | -              | -             | (NA)          |
| Washington .....                | 2.9           | 3.9           | 5.0           | 2.8            | 3.8           | 5.0           |
| Wyoming .....                   | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Other States <sup>2</sup> ..... | 9.5           | 3.1           | 6.2           | 8.4            | 2.7           | 5.2           |
| United States .....             | 267.2         | 249.1         | 296.7         | 259.9          | 242.8         | 282.1         |
| <b>Blackeye</b>                 |               |               |               |                |               |               |
| California .....                | 8.6           | 6.7           | 6.2           | 8.5            | 6.7           | 6.2           |
| Colorado .....                  | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Idaho .....                     | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Michigan .....                  | -             | -             | -             | -              | -             | -             |
| Minnesota .....                 | -             | -             | -             | -              | -             | -             |
| Montana <sup>1</sup> .....      | -             | -             | (NA)          | -              | -             | (NA)          |
| Nebraska .....                  | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| North Dakota .....              | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Texas <sup>1</sup> .....        | 18.0          | 16.0          | (NA)          | 17.0           | 14.0          | (NA)          |
| Washington .....                | (D)           | (D)           | (D)           | (D)            | (D)           | (D)           |
| Wyoming .....                   | -             | -             | -             | -              | -             | -             |
| Other States <sup>2</sup> ..... | 3.7           | 9.9           | 7.5           | 3.3            | 9.2           | 6.7           |
| United States .....             | 30.3          | 32.6          | 13.7          | 28.8           | 29.9          | 12.9          |

See footnote(s) at end of table.

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**Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2017-2019 (continued)**

| Class and State                 | Yield per acre <sup>3</sup> |          |          | Production <sup>3</sup> |             |             |
|---------------------------------|-----------------------------|----------|----------|-------------------------|-------------|-------------|
|                                 | 2017                        | 2018     | 2019     | 2017                    | 2018        | 2019        |
|                                 | (pounds)                    | (pounds) | (pounds) | (1,000 cwt)             | (1,000 cwt) | (1,000 cwt) |
| <b>Black</b>                    |                             |          |          |                         |             |             |
| California .....                | 2,500                       | (D)      | (D)      | 5                       | (D)         | (D)         |
| Colorado .....                  | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Idaho .....                     | 2,700                       | 2,540    | 2,810    | 108                     | 86          | 146         |
| Michigan .....                  | 2,040                       | 2,440    | 2,080    | 2,456                   | 2,416       | 1,934       |
| Minnesota .....                 | 2,110                       | 2,310    | 1,970    | 825                     | 936         | 1,038       |
| Montana <sup>1</sup> .....      | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Nebraska .....                  | (D)                         | 2,860    | (D)      | (D)                     | 97          | (D)         |
| North Dakota .....              | 1,700                       | 1,660    | 1,410    | 1,445                   | 1,494       | 1,706       |
| Texas <sup>1</sup> .....        | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Washington .....                | 2,950                       | 2,900    | 2,890    | 83                      | 110         | 145         |
| Wyoming .....                   | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Other States <sup>2</sup> ..... | 2,357                       | 2,704    | 1,923    | 198                     | 73          | 100         |
| United States .....             | 1,970                       | 2,147    | 1,797    | 5,120                   | 5,212       | 5,069       |
| <b>Blackeye</b>                 |                             |          |          |                         |             |             |
| California .....                | 2,120                       | 2,460    | 2,630    | 180                     | 165         | 163         |
| Colorado .....                  | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Idaho .....                     | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Michigan .....                  | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Minnesota .....                 | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Montana <sup>1</sup> .....      | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Nebraska .....                  | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| North Dakota .....              | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Texas <sup>1</sup> .....        | 1,100                       | 1,100    | (NA)     | 187                     | 154         | (NA)        |
| Washington .....                | (D)                         | (D)      | (D)      | (D)                     | (D)         | (D)         |
| Wyoming .....                   | (X)                         | (X)      | (X)      | -                       | -           | -           |
| Other States <sup>2</sup> ..... | 2,121                       | 2,272    | 1,433    | 70                      | 209         | 96          |
| United States .....             | 1,517                       | 1,766    | 2,008    | 437                     | 528         | 259         |

See footnote(s) at end of table.

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**Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2017-2019 (continued)**

| Class and State                     | Area planted  |               |               | Area harvested |               |               |
|-------------------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                                     | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                                     | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| <b>Small chickpeas</b> <sup>4</sup> |               |               |               |                |               |               |
| California .....                    | -             | (D)           | (D)           | -              | (D)           | (D)           |
| Colorado <sup>1</sup> .....         | -             | (D)           | (NA)          | -              | (D)           | (NA)          |
| Idaho .....                         | 46.0          | 62.0          | 20.0          | 45.8           | 61.7          | 18.8          |
| Michigan <sup>1</sup> .....         | -             | -             | (NA)          | -              | -             | (NA)          |
| Minnesota <sup>1</sup> .....        | -             | -             | (NA)          | -              | -             | (NA)          |
| Montana .....                       | (D)           | (D)           | 51.0          | (D)            | (D)           | 47.0          |
| Nebraska <sup>1</sup> .....         | (D)           | (D)           | (NA)          | (D)            | (D)           | (NA)          |
| North Dakota .....                  | 13.2          | 18.4          | (D)           | 13.0           | 17.8          | (D)           |
| Texas <sup>1</sup> .....            | -             | (D)           | (NA)          | -              | (D)           | (NA)          |
| Washington .....                    | 52.0          | 70.0          | 25.0          | 51.8           | 69.8          | 22.5          |
| Wyoming <sup>1</sup> .....          | -             | -             | (NA)          | -              | -             | (NA)          |
| Other States <sup>2</sup> .....     | 68.3          | 75.3          | 9.0           | 65.2           | 73.3          | 5.0           |
| United States .....                 | 179.5         | 225.7         | 105.0         | 175.8          | 222.6         | 93.3          |
| <b>Large chickpeas</b> <sup>5</sup> |               |               |               |                |               |               |
| California .....                    | 15.4          | (D)           | (D)           | 15.3           | (D)           | (D)           |
| Colorado <sup>1</sup> .....         | (D)           | (D)           | (NA)          | (D)            | (D)           | (NA)          |
| Idaho .....                         | 71.0          | 72.0          | 68.0          | 70.5           | 71.5          | 67.5          |
| Michigan <sup>1</sup> .....         | -             | -             | (NA)          | -              | -             | (NA)          |
| Minnesota <sup>1</sup> .....        | (D)           | (D)           | (NA)          | (D)            | (D)           | (NA)          |
| Montana .....                       | (D)           | (D)           | 148.0         | (D)            | (D)           | 132.0         |
| Nebraska <sup>1</sup> .....         | (D)           | (D)           | (NA)          | (D)            | (D)           | (NA)          |
| North Dakota .....                  | 30.6          | 96.0          | (D)           | 28.7           | 90.0          | (D)           |
| Texas <sup>1</sup> .....            | -             | (D)           | (NA)          | -              | (D)           | (NA)          |
| Washington .....                    | 120.0         | 120.0         | 85.0          | 119.5          | 119.5         | 84.0          |
| Wyoming <sup>1</sup> .....          | (D)           | (D)           | (NA)          | (D)            | (D)           | (NA)          |
| Other States <sup>2</sup> .....     | 209.0         | 349.5         | 45.4          | 201.2          | 342.9         | 27.2          |
| United States .....                 | 446.0         | 637.5         | 346.4         | 435.2          | 623.9         | 310.7         |
| <b>All chickpeas</b>                |               |               |               |                |               |               |
| California .....                    | 15.4          | 15.1          | 13.4          | 15.3           | 15.0          | 13.2          |
| Colorado <sup>1</sup> .....         | (D)           | (D)           | (NA)          | (D)            | (D)           | (NA)          |
| Idaho .....                         | 117.0         | 134.0         | 88.0          | 116.3          | 133.2         | 86.3          |
| Michigan <sup>1</sup> .....         | -             | -             | (NA)          | -              | -             | (NA)          |
| Minnesota <sup>1</sup> .....        | (D)           | (D)           | (NA)          | (D)            | (D)           | (NA)          |
| Montana .....                       | 269.0         | 390.0         | 199.0         | 259.0          | 382.0         | 179.0         |
| Nebraska <sup>1</sup> .....         | (D)           | 12.7          | (NA)          | (D)            | 12.2          | (NA)          |
| North Dakota .....                  | 43.8          | 114.4         | 41.0          | 41.7           | 107.8         | 19.0          |
| Texas <sup>5</sup> .....            | -             | (D)           | (NA)          | -              | (D)           | (NA)          |
| Washington .....                    | 172.0         | 190.0         | 110.0         | 171.3          | 189.3         | 106.5         |
| Wyoming <sup>1</sup> .....          | (D)           | (D)           | (NA)          | (D)            | (D)           | (NA)          |
| Other States <sup>2</sup> .....     | 8.3           | 7.0           | -             | 7.4            | 7.0           | -             |
| United States .....                 | 625.5         | 863.2         | 451.4         | 611.0          | 846.5         | 404.0         |

See footnote(s) at end of table.

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**Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2017-2019 (continued)**

| Class and State                     | Yield per acre <sup>3</sup> |          |          | Production <sup>3</sup> |             |             |
|-------------------------------------|-----------------------------|----------|----------|-------------------------|-------------|-------------|
|                                     | 2017                        | 2018     | 2019     | 2017                    | 2018        | 2019        |
|                                     | (pounds)                    | (pounds) | (pounds) | (1,000 cwt)             | (1,000 cwt) | (1,000 cwt) |
| <b>Small chickpeas <sup>4</sup></b> |                             |          |          |                         |             |             |
| California .....                    | (X)                         | (D)      | (D)      | -                       | (D)         | (D)         |
| Colorado <sup>1</sup> .....         | (X)                         | (D)      | (NA)     | -                       | (D)         | (NA)        |
| Idaho .....                         | 1,240                       | 1,550    | 1,360    | 568                     | 956         | 256         |
| Michigan <sup>1</sup> .....         | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Minnesota <sup>1</sup> .....        | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Montana .....                       | (D)                         | (D)      | 1,370    | (D)                     | (D)         | 644         |
| Nebraska <sup>1</sup> .....         | (D)                         | (D)      | (NA)     | (D)                     | (D)         | (NA)        |
| North Dakota .....                  | 1,200                       | 1,850    | (D)      | 156                     | 329         | (D)         |
| Texas <sup>1</sup> .....            | (X)                         | (D)      | (NA)     | -                       | (D)         | (NA)        |
| Washington .....                    | 1,330                       | 1,730    | 1,850    | 689                     | 1,208       | 416         |
| Wyoming <sup>1</sup> .....          | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Other States <sup>2</sup> .....     | 853                         | 1,164    | 2,140    | 556                     | 853         | 107         |
| United States .....                 | 1,120                       | 1,503    | 1,525    | 1,969                   | 3,346       | 1,423       |
| <b>Large chickpeas <sup>5</sup></b> |                             |          |          |                         |             |             |
| California .....                    | 2,130                       | (D)      | (D)      | 326                     | (D)         | (D)         |
| Colorado <sup>1</sup> .....         | (D)                         | (D)      | (NA)     | (D)                     | (D)         | (NA)        |
| Idaho .....                         | 1,040                       | 1,280    | 1,460    | 733                     | 915         | 1,242       |
| Michigan <sup>1</sup> .....         | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Minnesota <sup>1</sup> .....        | (D)                         | (D)      | (NA)     | (D)                     | (D)         | (NA)        |
| Montana .....                       | (D)                         | (D)      | 1,410    | (D)                     | (D)         | 2,505       |
| Nebraska <sup>1</sup> .....         | (D)                         | (D)      | (NA)     | (D)                     | (D)         | (NA)        |
| North Dakota .....                  | 1,310                       | 1,720    | (D)      | 376                     | 1,548       | (D)         |
| Texas <sup>1</sup> .....            | (X)                         | (D)      | (NA)     | -                       | (D)         | (NA)        |
| Washington .....                    | 1,350                       | 1,650    | 1,660    | 1,613                   | 1,972       | 1,810       |
| Wyoming <sup>1</sup> .....          | (D)                         | (D)      | (NA)     | (D)                     | (D)         | (NA)        |
| Other States <sup>2</sup> .....     | 1,014                       | 1,460    | 2,107    | 2,040                   | 5,006       | 573         |
| United States .....                 | 1,169                       | 1,513    | 1,549    | 5,088                   | 9,441       | 4,814       |
| <b>All chickpeas</b>                |                             |          |          |                         |             |             |
| California .....                    | 2,130                       | 2,770    | 2,690    | 326                     | 415         | 355         |
| Colorado <sup>1</sup> .....         | (D)                         | (D)      | (NA)     | (D)                     | (D)         | (NA)        |
| Idaho .....                         | 1,120                       | 1,400    | 1,440    | 1,301                   | 1,871       | 1,242       |
| Michigan <sup>1</sup> .....         | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Minnesota <sup>1</sup> .....        | (D)                         | (D)      | (NA)     | (D)                     | (D)         | (NA)        |
| Montana .....                       | 960                         | 1,350    | 1,400    | 2,493                   | 5,138       | 2,505       |
| Nebraska <sup>1</sup> .....         | (D)                         | 1,950    | (NA)     | (D)                     | 238         | (NA)        |
| North Dakota .....                  | 1,280                       | 1,740    | 1,710    | 532                     | 1,877       | 325         |
| Texas <sup>1</sup> .....            | (X)                         | (D)      | (NA)     | -                       | (D)         | (NA)        |
| Washington .....                    | 1,340                       | 1,680    | 1,700    | 2,302                   | 3,180       | 1,810       |
| Wyoming <sup>1</sup> .....          | (D)                         | (D)      | (NA)     | (D)                     | (D)         | (NA)        |
| Other States <sup>2</sup> .....     | 1,392                       | 971      | (X)      | 103                     | 68          | -           |
| United States .....                 | 1,155                       | 1,511    | 1,544    | 7,057                   | 12,787      | 6,237       |

See footnote(s) at end of table.

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**Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2017-2019 (continued)**

| Class and State                 | Area planted  |               |               | Area harvested |               |               |
|---------------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                                 | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                                 | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| <b>Other</b>                    |               |               |               |                |               |               |
| California .....                | 4.3           | 3.8           | 4.3           | 4.3            | 3.8           | 4.3           |
| Colorado .....                  | 2.1           | 2.8           | 2.2           | 2.0            | 2.1           | 2.2           |
| Idaho .....                     | 3.5           | (D)           | 5.0           | 3.4            | (D)           | 4.8           |
| Michigan .....                  | 3.7           | 5.2           | (D)           | 3.7            | 5.2           | (D)           |
| Minnesota .....                 | 3.9           | (D)           | (D)           | 3.8            | (D)           | (D)           |
| Montana <sup>1</sup> .....      | -             | (D)           | (NA)          | -              | (D)           | (NA)          |
| Nebraska .....                  | 0.3           | (D)           | (D)           | 0.3            | (D)           | (D)           |
| North Dakota .....              | 4.6           | (D)           | 9.6           | 4.4            | (D)           | 5.5           |
| Texas <sup>1</sup> .....        | 2.0           | (D)           | (NA)          | 1.0            | (D)           | (NA)          |
| Washington .....                | 2.0           | 1.9           | 1.6           | 1.9            | 1.8           | 1.6           |
| Wyoming .....                   | 3.5           | (D)           | (D)           | 3.2            | (D)           | (D)           |
| Other States <sup>2</sup> ..... | -             | 13.1          | 14.1          | -              | 12.3          | 13.0          |
| United States .....             | 29.9          | 26.8          | 36.8          | 28.0           | 25.2          | 31.4          |

See footnote(s) at end of table.

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**Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2017-2019 (continued)**

| Class and State                 | Yield per acre <sup>3</sup> |          |          | Production <sup>3</sup> |             |             |
|---------------------------------|-----------------------------|----------|----------|-------------------------|-------------|-------------|
|                                 | 2017                        | 2018     | 2019     | 2017                    | 2018        | 2019        |
|                                 | (pounds)                    | (pounds) | (pounds) | (1,000 cwt)             | (1,000 cwt) | (1,000 cwt) |
| <b>Other</b>                    |                             |          |          |                         |             |             |
| California .....                | 2,000                       | 2,170    | 2,570    | 86                      | 82          | 111         |
| Colorado .....                  | 2,900                       | 2,800    | 2,620    | 58                      | 59          | 58          |
| Idaho .....                     | 2,530                       | (D)      | 1,990    | 86                      | (D)         | 96          |
| Michigan .....                  | 1,430                       | 1,600    | (D)      | 53                      | 83          | (D)         |
| Minnesota .....                 | 2,000                       | (D)      | (D)      | 76                      | (D)         | (D)         |
| Montana <sup>1</sup> .....      | (X)                         | (D)      | (NA)     | -                       | (D)         | (NA)        |
| Nebraska .....                  | 1,670                       | (D)      | (D)      | 5                       | (D)         | (D)         |
| North Dakota .....              | 1,840                       | (D)      | 1,570    | 81                      | (D)         | 86          |
| Texas <sup>1</sup> .....        | 1,100                       | (D)      | (NA)     | 11                      | (D)         | (NA)        |
| Washington .....                | 2,320                       | 2,620    | 2,690    | 44                      | 47          | 43          |
| Wyoming .....                   | 2,590                       | (D)      | (D)      | 83                      | (D)         | (D)         |
| Other States <sup>2</sup> ..... | (X)                         | 2,122    | 1,908    | -                       | 261         | 248         |
| United States .....             | 2,082                       | 2,111    | 2,045    | 583                     | 532         | 642         |

- Represents zero.

(D) Withheld to avoid disclosing data for individual operations.

(NA) Not available.

(X) Not applicable.

<sup>1</sup> Estimates discontinued in 2019.

<sup>2</sup> Includes data withheld above.

<sup>3</sup> Clean basis.

<sup>4</sup> Chickpeas 20/64 inches or smaller.

<sup>5</sup> Chickpeas larger than 20/64 inches.

### Lentil Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

| State               | Area planted   |               |               | Area harvested |               |               |
|---------------------|----------------|---------------|---------------|----------------|---------------|---------------|
|                     | 2017           | 2018          | 2019          | 2017           | 2018          | 2019          |
|                     | (1,000 acres)  | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| Idaho .....         | 36.0           | 35.0          | 34.0          | 35.0           | 34.0          | 33.0          |
| Montana .....       | 730.0          | 500.0         | 295.0         | 670.0          | 450.0         | 255.0         |
| North Dakota .....  | 270.0          | 185.0         | 95.0          | 250.0          | 175.0         | 81.0          |
| Washington .....    | 68.0           | 60.0          | 62.0          | 67.0           | 59.0          | 62.0          |
| United States ..... | 1,104.0        | 780.0         | 486.0         | 1,022.0        | 718.0         | 431.0         |
| State               | Yield per acre |               |               | Production     |               |               |
|                     | 2017           | 2018          | 2019          | 2017           | 2018          | 2019          |
|                     | (pounds)       | (pounds)      | (pounds)      | (1,000 cwt)    | (1,000 cwt)   | (1,000 cwt)   |
| Idaho .....         | 900            | 1,300         | 1,100         | 315            | 442           | 363           |
| Montana .....       | 650            | 1,080         | 1,290         | 4,355          | 4,860         | 3,290         |
| North Dakota .....  | 870            | 1,370         | 1,300         | 2,175          | 2,398         | 1,053         |
| Washington .....    | 950            | 1,200         | 1,100         | 637            | 708           | 682           |
| United States ..... | 732            | 1,171         | 1,250         | 7,482          | 8,408         | 5,388         |

### Wrinkled Seed Pea Production – States and United States: 2017-2019

[Beginning in 2019, wrinkled seed pea production is included in dry edible peas]

| State               | Production  |             |             |
|---------------------|-------------|-------------|-------------|
|                     | 2017        | 2018        | 2019        |
|                     | (1,000 cwt) | (1,000 cwt) | (1,000 cwt) |
| Idaho .....         | 108         | 116         | (NA)        |
| Washington .....    | 249         | 273         | (NA)        |
| United States ..... | 357         | 389         | (NA)        |

(NA) Not available.

# Chickpea Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

| Size and State                  | Area planted  |               |               | Area harvested |               |               |
|---------------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                                 | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                                 | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| <b>Small <sup>1</sup></b>       |               |               |               |                |               |               |
| California .....                | -             | (D)           | (D)           | -              | (D)           | (D)           |
| Colorado <sup>5</sup> .....     | -             | (D)           | (NA)          | -              | (D)           | (NA)          |
| Idaho .....                     | 46.0          | 62.0          | 20.0          | 45.8           | 61.7          | 18.8          |
| Michigan <sup>5</sup> .....     | -             | -             | (NA)          | -              | -             | (NA)          |
| Minnesota <sup>5</sup> .....    | -             | -             | (NA)          | -              | -             | (NA)          |
| Montana .....                   | (D)           | (D)           | 51.0          | (D)            | (D)           | 47.0          |
| Nebraska <sup>5</sup> .....     | (D)           | (D)           | (NA)          | (D)            | (D)           | (NA)          |
| North Dakota .....              | 13.2          | 18.4          | (D)           | 13.0           | 17.8          | (D)           |
| Texas <sup>5</sup> .....        | -             | (D)           | (NA)          | -              | (D)           | (NA)          |
| Washington .....                | 52.0          | 70.0          | 25.0          | 51.8           | 69.8          | 22.5          |
| Wyoming <sup>5</sup> .....      | -             | -             | (NA)          | -              | -             | (NA)          |
| Other States <sup>4</sup> ..... | 68.3          | 75.3          | 9.0           | 65.2           | 73.3          | 5.0           |
| United States .....             | 179.5         | 225.7         | 105.0         | 175.8          | 222.6         | 93.3          |
| <b>Large <sup>2</sup></b>       |               |               |               |                |               |               |
| California .....                | 15.4          | (D)           | (D)           | 15.3           | (D)           | (D)           |
| Colorado <sup>5</sup> .....     | (D)           | (D)           | (NA)          | (D)            | (D)           | (NA)          |
| Idaho .....                     | 71.0          | 72.0          | 68.0          | 70.5           | 71.5          | 67.5          |
| Michigan <sup>5</sup> .....     | -             | -             | (NA)          | -              | -             | (NA)          |
| Minnesota <sup>5</sup> .....    | (D)           | (D)           | (NA)          | (D)            | (D)           | (NA)          |
| Montana .....                   | (D)           | (D)           | 148.0         | (D)            | (D)           | 132.0         |
| Nebraska <sup>5</sup> .....     | (D)           | (D)           | (NA)          | (D)            | (D)           | (NA)          |
| North Dakota .....              | 30.6          | 96.0          | (D)           | 28.7           | 90.0          | (D)           |
| Texas <sup>5</sup> .....        | -             | (D)           | (NA)          | -              | (D)           | (NA)          |
| Washington .....                | 120.0         | 120.0         | 85.0          | 119.5          | 119.5         | 84.0          |
| Wyoming <sup>5</sup> .....      | (D)           | (D)           | (NA)          | (D)            | (D)           | (NA)          |
| Other States <sup>4</sup> ..... | 209.0         | 349.5         | 45.4          | 201.2          | 342.9         | 27.2          |
| United States .....             | 446.0         | 637.5         | 346.4         | 435.2          | 623.9         | 310.7         |
| <b>All</b>                      |               |               |               |                |               |               |
| California .....                | 15.4          | 15.1          | 13.4          | 15.3           | 15.0          | 13.2          |
| Colorado <sup>5</sup> .....     | (D)           | (D)           | (NA)          | (D)            | (D)           | (NA)          |
| Idaho .....                     | 117.0         | 134.0         | 88.0          | 116.3          | 133.2         | 86.3          |
| Michigan <sup>5</sup> .....     | -             | -             | (NA)          | -              | -             | (NA)          |
| Minnesota <sup>5</sup> .....    | (D)           | (D)           | (NA)          | (D)            | (D)           | (NA)          |
| Montana .....                   | 269.0         | 390.0         | 199.0         | 259.0          | 382.0         | 179.0         |
| Nebraska <sup>5</sup> .....     | (D)           | 12.7          | (NA)          | (D)            | 12.2          | (NA)          |
| North Dakota .....              | 43.8          | 114.4         | 41.0          | 41.7           | 107.8         | 19.0          |
| Texas <sup>5</sup> .....        | -             | (D)           | (NA)          | -              | (D)           | (NA)          |
| Washington .....                | 172.0         | 190.0         | 110.0         | 171.3          | 189.3         | 106.5         |
| Wyoming <sup>5</sup> .....      | (D)           | (D)           | (NA)          | (D)            | (D)           | (NA)          |
| Other States <sup>4</sup> ..... | 8.3           | 7.0           | -             | 7.4            | 7.0           | -             |
| United States .....             | 625.5         | 863.2         | 451.4         | 611.0          | 846.5         | 404.0         |

See footnote(s) at end of table.

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**Chickpea Area Planted and Harvested, Yield, and Production – States and United States:  
2017-2019 (continued)**

| Size and State                  | Yield per acre <sup>3</sup> |          |          | Production <sup>3</sup> |             |             |
|---------------------------------|-----------------------------|----------|----------|-------------------------|-------------|-------------|
|                                 | 2017                        | 2018     | 2019     | 2017                    | 2018        | 2019        |
|                                 | (pounds)                    | (pounds) | (pounds) | (1,000 cwt)             | (1,000 cwt) | (1,000 cwt) |
| <b>Small <sup>1</sup></b>       |                             |          |          |                         |             |             |
| California .....                | (X)                         | (D)      | (D)      | -                       | (D)         | (D)         |
| Colorado <sup>5</sup> .....     | (X)                         | (D)      | (NA)     | -                       | (D)         | (NA)        |
| Idaho .....                     | 1,240                       | 1,550    | 1,360    | 568                     | 956         | 256         |
| Michigan <sup>5</sup> .....     | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Minnesota <sup>5</sup> .....    | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Montana .....                   | (D)                         | (D)      | 1,370    | (D)                     | (D)         | 644         |
| Nebraska <sup>5</sup> .....     | (D)                         | (D)      | (NA)     | (D)                     | (D)         | (NA)        |
| North Dakota .....              | 1,200                       | 1,850    | (D)      | 156                     | 329         | (D)         |
| Texas <sup>5</sup> .....        | (X)                         | (D)      | (NA)     | -                       | (D)         | (NA)        |
| Washington .....                | 1,330                       | 1,730    | 1,850    | 689                     | 1,208       | 416         |
| Wyoming <sup>5</sup> .....      | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Other States <sup>4</sup> ..... | 853                         | 1,164    | 2,140    | 556                     | 853         | 107         |
| United States .....             | 1,120                       | 1,503    | 1,525    | 1,969                   | 3,346       | 1,423       |
| <b>Large <sup>2</sup></b>       |                             |          |          |                         |             |             |
| California .....                | 2,130                       | (D)      | (D)      | 326                     | (D)         | (D)         |
| Colorado <sup>5</sup> .....     | (D)                         | (D)      | (NA)     | (D)                     | (D)         | (NA)        |
| Idaho .....                     | 1,040                       | 1,280    | 1,460    | 733                     | 915         | 986         |
| Michigan <sup>5</sup> .....     | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Minnesota <sup>5</sup> .....    | (D)                         | (D)      | (NA)     | (D)                     | (D)         | (NA)        |
| Montana .....                   | (D)                         | (D)      | 1,410    | (D)                     | (D)         | 1,861       |
| Nebraska <sup>5</sup> .....     | (D)                         | (D)      | (NA)     | (D)                     | (D)         | (NA)        |
| North Dakota .....              | 1,310                       | 1,720    | (D)      | 376                     | 1,548       | (D)         |
| Texas <sup>5</sup> .....        | (X)                         | (D)      | (NA)     | -                       | (D)         | (NA)        |
| Washington .....                | 1,350                       | 1,650    | 1,660    | 1,613                   | 1,972       | 1,394       |
| Wyoming <sup>5</sup> .....      | (D)                         | (D)      | (NA)     | (D)                     | (D)         | (NA)        |
| Other States <sup>4</sup> ..... | 1,014                       | 1,460    | 2,107    | 2,040                   | 5,006       | 573         |
| United States .....             | 1,169                       | 1,513    | 1,549    | 5,088                   | 9,441       | 4,814       |
| <b>All</b>                      |                             |          |          |                         |             |             |
| California .....                | 2,130                       | 2,770    | 2,690    | 326                     | 415         | 355         |
| Colorado <sup>5</sup> .....     | (D)                         | (D)      | (NA)     | (D)                     | (D)         | (NA)        |
| Idaho .....                     | 1,120                       | 1,400    | 1,440    | 1,301                   | 1,871       | 1,242       |
| Michigan <sup>5</sup> .....     | (X)                         | (X)      | (NA)     | -                       | -           | (NA)        |
| Minnesota <sup>5</sup> .....    | (D)                         | (D)      | (NA)     | (D)                     | (D)         | (NA)        |
| Montana .....                   | 960                         | 1,350    | 1,400    | 2,493                   | 5,138       | 2,505       |
| Nebraska <sup>5</sup> .....     | (D)                         | 1,950    | (NA)     | (D)                     | 238         | (NA)        |
| North Dakota .....              | 1,280                       | 1,740    | 1,710    | 532                     | 1,877       | 325         |
| Texas <sup>5</sup> .....        | (X)                         | (D)      | (NA)     | -                       | (D)         | (NA)        |
| Washington .....                | 1,340                       | 1,680    | 1,700    | 2,302                   | 3,180       | 1,810       |
| Wyoming <sup>5</sup> .....      | (D)                         | (D)      | (NA)     | (D)                     | (D)         | (NA)        |
| Other States <sup>4</sup> ..... | 1,392                       | 971      | (X)      | 103                     | 68          | -           |
| United States .....             | 1,155                       | 1,511    | 1,544    | 7,057                   | 12,787      | 6,237       |

- Represents zero.

(D) Withheld to avoid disclosing data for individual operations.

(NA) Not available.

(X) Not applicable.

<sup>1</sup> Chickpeas 20/64 inches or smaller.

<sup>2</sup> Chickpeas larger than 20/64 inches.

<sup>3</sup> Clean basis.

<sup>4</sup> Includes data withheld above.

<sup>5</sup> Estimates discontinued in 2019.

## Dry Edible Pea Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

[Beginning in 2019, wrinkled seed peas and Austrian winter peas included]

| State                     | Area planted  |               |               | Area harvested |               |               |
|---------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                           | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                           | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| Idaho .....               | 14.0          | 8.0           | 29.0          | 14.0           | 7.6           | 27.0          |
| Montana .....             | 525.0         | 335.0         | 530.0         | 470.0          | 310.0         | 500.0         |
| Nebraska .....            | 58.0          | 58.0          | 31.0          | 56.0           | 49.0          | 29.0          |
| North Dakota .....        | 425.0         | 375.0         | 425.0         | 410.0          | 365.0         | 410.0         |
| Oregon <sup>1</sup> ..... | 7.0           | 6.5           | (NA)          | 6.5            | 6.3           | (NA)          |
| South Dakota .....        | 38.0          | 22.0          | 16.0          | 35.0           | 19.0          | 15.0          |
| Washington .....          | 61.0          | 52.0          | 72.0          | 60.0           | 51.0          | 71.0          |
| United States .....       | 1,128.0       | 856.5         | 1,103.0       | 1,051.5        | 807.9         | 1,052.0       |

| State                     | Yield per acre |          |          | Production  |             |             |
|---------------------------|----------------|----------|----------|-------------|-------------|-------------|
|                           | 2017           | 2018     | 2019     | 2017        | 2018        | 2019        |
|                           | (pounds)       | (pounds) | (pounds) | (1,000 cwt) | (1,000 cwt) | (1,000 cwt) |
| Idaho .....               | 1,800          | 2,300    | 1,900    | 252         | 175         | 513         |
| Montana .....             | 820            | 1,620    | 2,030    | 3,854       | 5,022       | 10,150      |
| Nebraska .....            | 1,420          | 1,840    | 2,300    | 795         | 902         | 667         |
| North Dakota .....        | 1,800          | 2,200    | 2,260    | 7,380       | 8,030       | 9,266       |
| Oregon <sup>1</sup> ..... | 2,900          | 2,000    | (NA)     | 189         | 126         | (NA)        |
| South Dakota .....        | 1,500          | 2,100    | 2,200    | 525         | 399         | 330         |
| Washington .....          | 2,000          | 2,500    | 2,000    | 1,200       | 1,275       | 1,420       |
| United States .....       | 1,350          | 1,972    | 2,124    | 14,195      | 15,929      | 22,346      |

(NA) Not available.

<sup>1</sup> Estimates discontinued in 2019.

## Austrian Winter Pea Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

[Beginning in 2019, Austrian winter peas are included in dry edible peas]

| State               | Area planted  |               |               | Area harvested |               |               |
|---------------------|---------------|---------------|---------------|----------------|---------------|---------------|
|                     | 2017          | 2018          | 2019          | 2017           | 2018          | 2019          |
|                     | (1,000 acres) | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) | (1,000 acres) |
| Idaho .....         | 3.0           | 1.4           | (NA)          | 2.0            | 0.8           | (NA)          |
| Montana .....       | 20.0          | 12.0          | (NA)          | 4.0            | 8.0           | (NA)          |
| Oregon .....        | 2.5           | 3.0           | (NA)          | 2.0            | 2.1           | (NA)          |
| United States ..... | 25.5          | 16.4          | (NA)          | 8.0            | 10.9          | (NA)          |

| State               | Yield per acre |          |          | Production  |             |             |
|---------------------|----------------|----------|----------|-------------|-------------|-------------|
|                     | 2017           | 2018     | 2019     | 2017        | 2018        | 2019        |
|                     | (pounds)       | (pounds) | (pounds) | (1,000 cwt) | (1,000 cwt) | (1,000 cwt) |
| Idaho .....         | 1,300          | 1,300    | (NA)     | 26          | 10          | (NA)        |
| Montana .....       | 710            | 950      | (NA)     | 28          | 76          | (NA)        |
| Oregon .....        | 2,300          | 1,800    | (NA)     | 46          | 38          | (NA)        |
| United States ..... | 1,250          | 1,138    | (NA)     | 100         | 124         | (NA)        |

(NA) Not available.

# Hop Area Harvested, Yield, and Production by Variety – States and United States: 2017-2019

| State and variety                    | Area harvested |         |         | Yield per acre |          |          |
|--------------------------------------|----------------|---------|---------|----------------|----------|----------|
|                                      | 2017           | 2018    | 2019    | 2017           | 2018     | 2019     |
|                                      | (acres)        | (acres) | (acres) | (pounds)       | (pounds) | (pounds) |
| <b>Idaho</b>                         |                |         |         |                |          |          |
| Amarillo <sup>R</sup> , VGXP01 ..... | 983            | 825     | 561     | 1,569          | 2,009    | 1,560    |
| Apollo <sup>TM</sup> .....           | 228            | 232     | (D)     | 1,798          | 1,951    | (D)      |
| Bravo <sup>TM</sup> .....            | 149            | 87      | (D)     | 2,799          | 2,226    | (D)      |
| Calypso <sup>TM</sup> .....          | 81             | 81      | 81      | 2,159          | 2,138    | 1,901    |
| Cascade .....                        | 882            | 836     | 710     | 1,771          | 1,716    | 1,823    |
| Centennial .....                     | 255            | (D)     | (D)     | 2,028          | (D)      | (D)      |
| Chinook .....                        | 699            | 962     | 786     | 1,665          | 1,873    | 2,215    |
| Citra <sup>R</sup> , HBC 394 .....   | 759            | 855     | 973     | 1,657          | 1,438    | 1,532    |
| Cluster .....                        | (D)            | 63      | (D)     | (D)            | 2,126    | (D)      |
| C/T/Z <sup>R</sup> .....             | (D)            | (D)     | 991     | (D)            | (D)      | 3,002    |
| Comet .....                          | (D)            | (D)     | 112     | (D)            | (D)      | 1,970    |
| Crystal .....                        | 182            | 150     | 131     | 2,084          | 1,927    | 1,971    |
| El Dorado <sup>R</sup> .....         | 219            | 120     | 352     | 2,163          | 1,463    | 1,352    |
| Eureka <sup>TM</sup> .....           | (D)            | 133     | 185     | (D)            | 2,299    | 2,243    |
| Galena .....                         | (D)            | 109     | 113     | (D)            | 1,715    | 1,773    |
| Hallertauer .....                    | (D)            | (D)     | (D)     | (D)            | (D)      | (D)      |
| Idaho 7 <sup>TM</sup> .....          | (D)            | (D)     | 388     | (D)            | (D)      | 2,562    |
| Mosaic <sup>R</sup> , HBC 369 .....  | 500            | 506     | 801     | 2,581          | 2,333    | 2,296    |
| Northern Brewer .....                | (D)            | (D)     | (D)     | (D)            | (D)      | (D)      |
| Saaz .....                           | (D)            | (D)     | 140     | (D)            | (D)      | 771      |
| Simcoe <sup>R</sup> , YCR 14 .....   | 394            | 449     | 469     | 1,494          | 1,245    | 1,164    |
| Super Galena <sup>TM</sup> .....     | (D)            | 84      | (D)     | (D)            | 2,493    | (D)      |
| Willamette .....                     | 128            | (D)     | 170     | 1,689          | (D)      | 1,695    |
| Zeus .....                           | 1,061          | 1,496   | 611     | 2,756          | 2,764    | 2,672    |
| Experimental .....                   | 26             | (D)     | (D)     | 611            | (D)      | (D)      |
| Other varieties <sup>1</sup> .....   | 579            | 1,152   | 784     | 1,959          | 1,845    | 1,907    |
| Total .....                          | 7,125          | 8,140   | 8,358   | 1,974          | 1,995    | 2,034    |
| <b>Oregon</b>                        |                |         |         |                |          |          |
| Amarillo <sup>R</sup> , VGXP01 ..... | (D)            | (D)     | 212     | (D)            | (D)      | 2,312    |
| Cascade .....                        | 1,247          | 1,064   | 1,039   | 1,425          | 1,623    | 1,620    |
| Centennial .....                     | 789            | 698     | 614     | 1,273          | 1,277    | 1,661    |
| Chinook .....                        | 124            | 129     | 114     | 1,667          | 1,674    | 1,733    |
| Citra <sup>R</sup> , HBC 394 .....   | 766            | 690     | 998     | 1,475          | 1,600    | 1,476    |
| Crystal .....                        | 407            | 354     | 247     | 1,772          | 1,819    | 1,943    |
| Fuggle .....                         | 86             | 59      | 63      | 1,251          | 1,034    | 1,243    |
| Golding .....                        | 215            | 121     | 92      | 1,181          | 1,160    | 1,351    |
| Magnum .....                         | 47             | 105     | (D)     | 1,714          | 1,284    | (D)      |
| Meridian .....                       | (NA)           | (D)     | (D)     | (NA)           | (D)      | (D)      |
| Mosaic <sup>R</sup> , HBC 369 .....  | 337            | (D)     | 478     | 1,875          | (D)      | 2,113    |
| Mt. Hood .....                       | 318            | 311     | 295     | 1,439          | 1,411    | 1,538    |
| Nugget .....                         | 1,467          | 1,307   | 1,059   | 1,820          | 1,946    | 2,130    |
| Perle .....                          | 76             | 77      | (D)     | 1,164          | 1,093    | (D)      |
| Simcoe <sup>R</sup> , YCR 14 .....   | 461            | 436     | 440     | 1,421          | 1,588    | 1,845    |
| Sterling .....                       | 227            | 191     | 147     | 1,407          | 1,760    | 1,643    |
| Strata <sup>TM</sup> OR 91331 .....  | (NA)           | (NA)    | 253     | (NA)           | (NA)     | 2,066    |
| Super Galena <sup>TM</sup> .....     | 67             | 84      | 78      | 2,096          | 2,216    | 2,580    |
| Tettnanger .....                     | 72             | 72      | (D)     | 1,013          | 1,027    | (D)      |
| Willamette .....                     | 892            | 913     | 619     | 1,324          | 1,489    | 1,717    |
| Experimental .....                   | (D)            | (D)     | (D)     | (D)            | (D)      | (D)      |
| Other varieties <sup>1</sup> .....   | 618            | 1,114   | 558     | 1,573          | 2,068    | 1,644    |
| Total .....                          | 8,216          | 7,725   | 7,306   | 1,518          | 1,675    | 1,783    |

See footnote(s) at end of table.

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**Hop Area Harvested, Yield, and Production by Variety – States and United States:  
2017-2019 (continued)**

| State and variety                    | Production     |                |                |
|--------------------------------------|----------------|----------------|----------------|
|                                      | 2017           | 2018           | 2019           |
|                                      | (1,000 pounds) | (1,000 pounds) | (1,000 pounds) |
| <b>Idaho</b>                         |                |                |                |
| Amarillo <sup>R</sup> , VGXP01 ..... | 1,542.3        | 1,657.4        | 875.2          |
| Apollo <sup>TM</sup> .....           | 409.9          | 452.6          | (D)            |
| Bravo <sup>TM</sup> .....            | 417.1          | 193.7          | (D)            |
| Calypso <sup>TM</sup> .....          | 174.9          | 173.2          | 154.0          |
| Cascade .....                        | 1,562.0        | 1,434.6        | 1,294.3        |
| Centennial .....                     | 517.1          | (D)            | (D)            |
| Chinook .....                        | 1,163.8        | 1,801.8        | 1,741.0        |
| Citra <sup>R</sup> , HBC 394 .....   | 1,257.7        | 1,229.5        | 1,490.6        |
| Cluster .....                        | (D)            | 133.9          | (D)            |
| C/T/Z <sup>R</sup> .....             | (D)            | (D)            | 2,975.0        |
| Comet .....                          | (D)            | (D)            | 220.6          |
| Crystal .....                        | 379.3          | 289.1          | 258.2          |
| El Dorado <sup>R</sup> .....         | 473.7          | 175.6          | 475.9          |
| Eureka <sup>TM</sup> .....           | (D)            | 305.8          | 415.0          |
| Galena .....                         | (D)            | 186.9          | 200.3          |
| Hallertauer .....                    | (D)            | (D)            | (D)            |
| Idaho 7 <sup>TM</sup> .....          | (D)            | (D)            | 994.1          |
| Mosaic <sup>R</sup> , HBC 369 .....  | 1,290.5        | 1,180.5        | 1,839.1        |
| Northern Brewer .....                | (D)            | (D)            | (D)            |
| Saaz .....                           | (D)            | (D)            | 107.9          |
| Simcoe <sup>R</sup> , YCR 14 .....   | 588.6          | 559.0          | 545.9          |
| Super Galena <sup>TM</sup> .....     | (D)            | 209.4          | (D)            |
| Willamette .....                     | 216.2          | (D)            | 288.2          |
| Zeus .....                           | 2,924.1        | 4,134.9        | 1,632.6        |
| Experimental .....                   | 15.9           | (D)            | (D)            |
| Other varieties <sup>1</sup> .....   | 1,134.2        | 2,124.9        | 1,495.2        |
| Total .....                          | 14,067.3       | 16,242.8       | 17,003.1       |
| <b>Oregon</b>                        |                |                |                |
| Amarillo <sup>R</sup> , VGXP01 ..... | (D)            | (D)            | 490.1          |
| Cascade .....                        | 1,777.0        | 1,726.9        | 1,683.2        |
| Centennial .....                     | 1,004.4        | 891.3          | 1,019.9        |
| Chinook .....                        | 206.7          | 215.9          | 197.6          |
| Citra <sup>R</sup> , HBC 394 .....   | 1,129.9        | 1,104.0        | 1,473.0        |
| Crystal .....                        | 721.2          | 643.9          | 479.9          |
| Fuggle .....                         | 107.6          | 61.0           | 78.3           |
| Golding .....                        | 253.9          | 140.4          | 124.3          |
| Magnum .....                         | 80.6           | 134.8          | (D)            |
| Meridian .....                       | (NA)           | (D)            | (D)            |
| Mosaic <sup>R</sup> , HBC 369 .....  | 631.9          | (D)            | 1,010.0        |
| Mt. Hood .....                       | 457.6          | 438.8          | 453.7          |
| Nugget .....                         | 2,669.9        | 2,543.4        | 2,255.7        |
| Perle .....                          | 88.5           | 84.2           | (D)            |
| Simcoe <sup>R</sup> , YCR 14 .....   | 655.1          | 692.4          | 811.8          |
| Sterling .....                       | 319.4          | 336.2          | 241.5          |
| Strata <sup>TM</sup> OR 91331 .....  | (NA)           | (NA)           | 522.7          |
| Super Galena <sup>TM</sup> .....     | 140.4          | 186.1          | 201.2          |
| Tettnanger .....                     | 72.9           | 73.9           | (D)            |
| Willamette .....                     | 1,181.0        | 1,359.5        | 1,062.8        |
| Experimental .....                   | (D)            | (D)            | (D)            |
| Other varieties <sup>1</sup> .....   | 972.4          | 2,303.5        | 917.5          |
| Total .....                          | 12,470.4       | 12,936.2       | 13,023.2       |

See footnote(s) at end of table.

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**Hop Area Harvested, Yield, and Production by Variety – States and United States:  
2017-2019 (continued)**

| State and variety                       | Area harvested |         |         | Yield per acre |          |          |
|-----------------------------------------|----------------|---------|---------|----------------|----------|----------|
|                                         | 2017           | 2018    | 2019    | 2017           | 2018     | 2019     |
|                                         | (acres)        | (acres) | (acres) | (pounds)       | (pounds) | (pounds) |
| <b>Washington</b>                       |                |         |         |                |          |          |
| Ahtanum <sup>TM</sup> , YCR 1 .....     | 371            | 255     | 261     | 1,052          | 2,730    | 2,820    |
| Amarillo <sup>R</sup> , VGXP01 .....    | 1,984          | 1,895   | 1,597   | 1,687          | 1,868    | 1,946    |
| Apollo <sup>TM</sup> .....              | 684            | 795     | 851     | 2,729          | 2,848    | 2,735    |
| Azacca <sup>TM</sup> , ADHA-483 .....   | 578            | 546     | 589     | 2,463          | 2,491    | 2,441    |
| Bravo <sup>TM</sup> .....               | 486            | 280     | 236     | 2,973          | 3,258    | 3,216    |
| Cascade .....                           | 4,966          | 4,274   | 3,718   | 2,124          | 1,972    | 1,920    |
| Cashmere .....                          | (D)            | 195     | 310     | (D)            | 1,519    | 1,699    |
| Centennial .....                        | 4,375          | 3,875   | 3,031   | 1,703          | 1,364    | 1,820    |
| Chinook .....                           | 1,632          | 1,734   | 1,437   | 1,784          | 1,875    | 1,942    |
| Citra <sup>R</sup> , HBC 394 .....      | 3,715          | 4,837   | 6,720   | 1,748          | 1,611    | 1,424    |
| Cluster .....                           | 621            | 610     | 470     | 1,937          | 1,813    | 1,815    |
| C/T/Z <sup>R</sup> .....                | 1,659          | 2,034   | 2,323   | 2,646          | 2,482    | 2,584    |
| Comet .....                             | 205            | 218     | 210     | 1,855          | 1,750    | 1,311    |
| Crystal .....                           | 122            | 114     | 66      | 2,063          | 2,357    | 1,989    |
| Ekuanot <sup>TM</sup> , HBC 366 .....   | 890            | 865     | 632     | 2,740          | 2,583    | 2,483    |
| El Dorado <sup>R</sup> .....            | 463            | 418     | 641     | 1,946          | 1,880    | 2,032    |
| Eureka <sup>TM</sup> .....              | 362            | 409     | 425     | 2,244          | 2,954    | 3,188    |
| Galena .....                            | 378            | 390     | 297     | 2,134          | 2,149    | 2,045    |
| Glacier .....                           | (D)            | (D)     | (D)     | (D)            | (D)      | (D)      |
| Idaho 7 <sup>TM</sup> .....             | (D)            | (D)     | 85      | (D)            | (D)      | 1,544    |
| Jarrylo <sup>TM</sup> , ADHA-881 .....  | (D)            | (D)     | (D)     | (D)            | (D)      | (D)      |
| Loral <sup>TM</sup> , HBC 291 .....     | 186            | 172     | 125     | 2,295          | 2,349    | 2,515    |
| Mosaic <sup>R</sup> , HBC 369 .....     | 1,877          | 1,932   | 2,829   | 2,439          | 2,351    | 2,054    |
| Mt. Hood .....                          | 87             | 104     | 53      | 1,043          | 1,454    | 1,037    |
| Mt. Rainier .....                       | (D)            | 306     | 239     | (D)            | 1,899    | 2,149    |
| Nugget .....                            | 125            | 126     | 104     | 1,950          | 1,498    | 2,313    |
| Pahto <sup>TM</sup> , HBC 682 .....     | (NA)           | 1,721   | 2,109   | (NA)           | 2,087    | 2,398    |
| Palisade <sup>R</sup> , YCR 4 .....     | 571            | 515     | 477     | 2,209          | 2,441    | 2,520    |
| Pekko <sup>TM</sup> , ADHA-871 .....    | (D)            | 92      | (D)     | (D)            | 1,889    | (D)      |
| Sabro <sup>TM</sup> , HBC 438 .....     | (NA)           | (NA)    | 724     | (NA)           | (NA)     | 1,612    |
| Simcoe <sup>R</sup> , YCR 14 .....      | 3,753          | 3,103   | 3,367   | 1,792          | 1,642    | 1,788    |
| Sorachi Ace .....                       | (D)            | 146     | (D)     | (D)            | 1,042    | (D)      |
| Summit <sup>TM</sup> .....              | 1,617          | 1,574   | 1,072   | 2,067          | 1,826    | 1,816    |
| Super Galena <sup>TM</sup> .....        | 435            | 500     | 473     | 2,647          | 3,133    | 2,871    |
| Tahoma .....                            | 217            | 209     | 230     | 1,752          | 2,147    | 1,958    |
| Tettnanger .....                        | 38             | (D)     | (D)     | 1,202          | (D)      | (D)      |
| Willamette .....                        | 571            | 376     | 270     | 1,446          | 1,348    | 1,596    |
| Zeus .....                              | 2,214          | 2,592   | 2,612   | 3,088          | 2,619    | 2,620    |
| Experimental .....                      | 421            | 374     | 360     | 1,901          | 1,889    | 2,251    |
| Other varieties <sup>1</sup> .....      | 3,045          | 1,584   | 1,937   | 1,746          | 1,896    | 1,888    |
| Total .....                             | 38,648         | 39,170  | 40,880  | 2,046          | 1,984    | 2,006    |
| <b>United States <sup>2</sup></b> ..... | 53,989         | 55,035  | 56,544  | 1,956          | 1,943    | 1,981    |

See footnote(s) at end of table.

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**Hop Area Harvested, Yield, and Production by Variety – States and United States:  
2017-2019 (continued)**

| State and variety                       | Production     |                |                |
|-----------------------------------------|----------------|----------------|----------------|
|                                         | 2017           | 2018           | 2019           |
|                                         | (1,000 pounds) | (1,000 pounds) | (1,000 pounds) |
| <b>Washington</b>                       |                |                |                |
| Ahtanum <sup>TM</sup> , YCR 1 .....     | 390.3          | 696.2          | 736.0          |
| Amarillo <sup>R</sup> , VGXP01 .....    | 3,347.0        | 3,539.9        | 3,107.8        |
| Apollo <sup>TM</sup> .....              | 1,866.6        | 2,264.2        | 2,327.5        |
| Azacca <sup>TM</sup> , ADHA-483 .....   | 1,423.6        | 1,360.1        | 1,437.7        |
| Bravo <sup>TM</sup> .....               | 1,444.9        | 912.2          | 759.0          |
| Cascade .....                           | 10,547.8       | 8,428.3        | 7,138.6        |
| Cashmere .....                          | (D)            | 296.2          | 526.7          |
| Centennial .....                        | 7,450.6        | 5,285.5        | 5,516.4        |
| Chinook .....                           | 2,911.5        | 3,251.3        | 2,790.7        |
| Citra <sup>R</sup> , HBC 394 .....      | 6,493.8        | 7,792.4        | 9,569.3        |
| Cluster .....                           | 1,202.9        | 1,105.9        | 853.1          |
| C/T/Z <sup>R</sup> .....                | 4,389.7        | 5,048.4        | 6,002.6        |
| Comet .....                             | 380.3          | 381.5          | 275.3          |
| Crystal .....                           | 251.7          | 268.7          | 131.3          |
| Ekuanot <sup>TM</sup> , HBC 366 .....   | 2,438.6        | 2,234.3        | 1,569.3        |
| El Dorado <sup>R</sup> .....            | 901.0          | 785.8          | 1,302.5        |
| Eureka <sup>TM</sup> .....              | 812.3          | 1,208.2        | 1,354.9        |
| Galena .....                            | 806.7          | 838.1          | 607.4          |
| Glacier .....                           | (D)            | (D)            | (D)            |
| Idaho 7 <sup>TM</sup> .....             | (D)            | (D)            | 131.2          |
| Jarrylo <sup>TM</sup> , ADHA-881 .....  | (D)            | (D)            | (D)            |
| Loral <sup>TM</sup> , HBC 291 .....     | 426.9          | 404.0          | 314.4          |
| Mosaic <sup>R</sup> , HBC 369 .....     | 4,578.0        | 4,542.1        | 5,810.8        |
| Mt. Hood .....                          | 90.7           | 151.2          | 55.0           |
| Mt. Rainier .....                       | (D)            | 581.1          | 513.6          |
| Nugget .....                            | 243.8          | 188.7          | 240.6          |
| Pahto <sup>TM</sup> , HBC 682 .....     | (NA)           | 3,591.7        | 5,057.4        |
| Palisade <sup>R</sup> , YCR 4 .....     | 1,261.3        | 1,257.1        | 1,202.0        |
| Pekko <sup>TM</sup> , ADHA-871 .....    | (D)            | 173.8          | (D)            |
| Sabro <sup>TM</sup> , HBC 438 .....     | (NA)           | (NA)           | 1,167.1        |
| Simcoe <sup>R</sup> , YCR 14 .....      | 6,725.4        | 5,095.1        | 6,020.2        |
| Sorachi Ace .....                       | (D)            | 152.1          | (D)            |
| Summit <sup>TM</sup> .....              | 3,342.3        | 2,874.1        | 1,946.8        |
| Super Galena <sup>TM</sup> .....        | 1,151.4        | 1,566.5        | 1,358.0        |
| Tahoma .....                            | 380.2          | 448.7          | 450.3          |
| Tettnanger .....                        | 45.7           | (D)            | (D)            |
| Willamette .....                        | 825.7          | 506.8          | 430.9          |
| Zeus .....                              | 6,836.8        | 6,788.4        | 6,843.4        |
| Experimental .....                      | 800.3          | 706.5          | 810.4          |
| Other varieties <sup>1</sup> .....      | 5,316.0        | 3,002.6        | 3,656.7        |
| Total .....                             | 79,083.8       | 77,727.7       | 82,014.9       |
| <b>United States <sup>2</sup></b> ..... | 105,621.5      | 106,906.7      | 112,041.2      |

(D) Withheld to avoid disclosing data for individual operations.

(NA) Not available.

<sup>R</sup> Registered

<sup>TM</sup> Trademark

<sup>1</sup> Includes data withheld to avoid disclosure of individual operations and varieties not listed.

<sup>2</sup> Includes 532 acres of organic hops for 2019 with yield equal to 1,255 pounds per acre and production at 667,660 pounds.

# Mint for Oil Area Harvested, Yield, and Production by Crop – States and United States: 2017-2019

| Crop, State,<br>and variety     | Area harvested |                |                | Yield per acre |          |          |
|---------------------------------|----------------|----------------|----------------|----------------|----------|----------|
|                                 | 2017           | 2018           | 2019           | 2017           | 2018     | 2019     |
|                                 | (1,000 acres)  | (1,000 acres)  | (1,000 acres)  | (pounds)       | (pounds) | (pounds) |
| <b>Peppermint</b>               |                |                |                |                |          |          |
| California <sup>1</sup> .....   | 1.5            | 1.6            | (NA)           | 82             | 85       | (NA)     |
| Idaho .....                     | 18.0           | 17.0           | 17.0           | 105            | 105      | 120      |
| Indiana .....                   | 8.5            | 7.0            | 6.4            | 45             | 50       | 48       |
| Oregon .....                    | 18.0           | 19.0           | 19.0           | 95             | 85       | 95       |
| Washington .....                | 12.0           | 11.0           | 10.0           | 120            | 120      | 130      |
| Wisconsin <sup>1</sup> .....    | 2.8            | 2.9            | (NA)           | 73             | 59       | (NA)     |
| United States .....             | 60.8           | 58.5           | 52.4           | 95             | 92       | 104      |
| <b>Spearmint</b>                |                |                |                |                |          |          |
| Idaho .....                     | (D)            | (D)            | 1.1            | (D)            | (D)      | 140      |
| Indiana .....                   | 3.1            | 2.8            | 3.9            | 54             | 77       | 72       |
| Michigan <sup>1</sup> .....     | (D)            | (D)            | (NA)           | (D)            | (D)      | (NA)     |
| Oregon .....                    | 2.5            | 2.5            | 2.5            | 105            | 125      | 125      |
| Washington .....                | 14.0           | 12.3           | 11.0           | 150            | 142      | 151      |
| Native .....                    | 8.0            | 7.9            | (D)            | 165            | 160      | (D)      |
| Scotch .....                    | 6.0            | 4.4            | (D)            | 130            | 110      | (D)      |
| Other States <sup>2</sup> ..... | 2.7            | 3.2            | -              | 99             | 92       | (X)      |
| United States .....             | 22.3           | 20.8           | 18.5           | 125            | 124      | 130      |
| Crop, State,<br>and variety     | Production     |                |                |                |          |          |
|                                 | 2017           | 2018           | 2019           |                |          |          |
|                                 | (1,000 pounds) | (1,000 pounds) | (1,000 pounds) |                |          |          |
| <b>Peppermint</b>               |                |                |                |                |          |          |
| California <sup>1</sup> .....   | 123            | 136            | (NA)           |                |          |          |
| Idaho .....                     | 1,890          | 1,785          | 2,040          |                |          |          |
| Indiana .....                   | 383            | 350            | 307            |                |          |          |
| Oregon .....                    | 1,710          | 1,615          | 1,805          |                |          |          |
| Washington .....                | 1,440          | 1,320          | 1,300          |                |          |          |
| Wisconsin <sup>1</sup> .....    | 204            | 171            | (NA)           |                |          |          |
| United States .....             | 5,750          | 5,377          | 5,452          |                |          |          |
| <b>Spearmint</b>                |                |                |                |                |          |          |
| Idaho .....                     | (D)            | (D)            | 154            |                |          |          |
| Indiana .....                   | 167            | 216            | 281            |                |          |          |
| Michigan <sup>1</sup> .....     | (D)            | (D)            | (NA)           |                |          |          |
| Oregon .....                    | 263            | 313            | 313            |                |          |          |
| Washington .....                | 2,100          | 1,748          | 1,665          |                |          |          |
| Native .....                    | 1,320          | 1,264          | (D)            |                |          |          |
| Scotch .....                    | 780            | 484            | (D)            |                |          |          |
| Other States <sup>2</sup> ..... | 266            | 294            | -              |                |          |          |
| United States .....             | 2,796          | 2,571          | 2,413          |                |          |          |

- Represents zero.

(D) Withheld to avoid disclosing data for individual operations.

(NA) Not available.

(X) Not applicable.

<sup>1</sup> Estimates discontinued in 2019.

<sup>2</sup> Includes data withheld above.

## Maple Syrup Taps, Yield, and Production – States and United States: 2017-2019

[Estimates for 2019 are carried forward from the June 2019 *Crop Production*. Any revisions will appear in the June 2020 *Crop Production*]

| State                            | Number of taps |              |              | Yield per tap |           |           | Production      |                 |                 |
|----------------------------------|----------------|--------------|--------------|---------------|-----------|-----------|-----------------|-----------------|-----------------|
|                                  | 2017           | 2018         | 2019         | 2017          | 2018      | 2019      | 2017            | 2018            | 2019            |
|                                  | (1,000 taps)   | (1,000 taps) | (1,000 taps) | (gallons)     | (gallons) | (gallons) | (1,000 gallons) | (1,000 gallons) | (1,000 gallons) |
| Connecticut <sup>1</sup> .....   | 78             | 73           | (NA)         | 0.231         | 0.247     | (NA)      | 18              | 18              | (NA)            |
| Indiana <sup>1</sup> .....       | 70             | 70           | (NA)         | 0.200         | 0.257     | (NA)      | 14              | 18              | (NA)            |
| Maine .....                      | 1,900          | 1,870        | 1,900        | 0.376         | 0.288     | 0.305     | 715             | 539             | 580             |
| Massachusetts <sup>1</sup> ..... | 320            | 320          | (NA)         | 0.263         | 0.225     | (NA)      | 84              | 72              | (NA)            |
| Michigan .....                   | 600            | 600          | 620          | 0.250         | 0.275     | 0.315     | 150             | 165             | 195             |
| Minnesota <sup>1</sup> .....     | 83             | 65           | (NA)         | 0.205         | 0.200     | (NA)      | 17              | 13              | (NA)            |
| New Hampshire .....              | 570            | 560          | 540          | 0.281         | 0.291     | 0.274     | 160             | 163             | 148             |
| New York .....                   | 2,650          | 2,730        | 2,800        | 0.287         | 0.295     | 0.293     | 760             | 806             | 820             |
| Ohio <sup>1</sup> .....          | 420            | 400          | (NA)         | 0.200         | 0.225     | (NA)      | 84              | 90              | (NA)            |
| Pennsylvania .....               | 780            | 670          | 680          | 0.212         | 0.212     | 0.231     | 165             | 142             | 157             |
| Vermont .....                    | 5,900          | 5,670        | 6,000        | 0.339         | 0.342     | 0.345     | 2,000           | 1,940           | 2,070           |
| West Virginia <sup>1</sup> ..... | 70             | 66           | (NA)         | 0.157         | 0.121     | (NA)      | 11              | 8               | (NA)            |
| Wisconsin .....                  | 760            | 750          | 800          | 0.272         | 0.300     | 0.338     | 207             | 225             | 270             |
| United States .....              | 14,201         | 13,844       | 13,340       | 0.309         | 0.303     | 0.318     | 4,385           | 4,199           | 4,240           |

(NA) Not available.

<sup>1</sup> Estimates discontinued in 2019.

## Taro Area Harvested, Yield, and Production – State and United States: 2017-2019

[Estimates discontinued beginning in 2019]

| State               | Area harvested |         |         | Yield per acre |          |          | Production     |                |                |
|---------------------|----------------|---------|---------|----------------|----------|----------|----------------|----------------|----------------|
|                     | 2017           | 2018    | 2019    | 2017           | 2018     | 2019     | 2017           | 2018           | 2019           |
|                     | (acres)        | (acres) | (acres) | (pounds)       | (pounds) | (pounds) | (1,000 pounds) | (1,000 pounds) | (1,000 pounds) |
| Hawaii .....        | 350            | 310     | (NA)    | 10,530         | 9,630    | (NA)     | 3,686          | 2,985          | (NA)           |
| United States ..... | 350            | 310     | (NA)    | 10,530         | 9,630    | (NA)     | 3,686          | 2,985          | (NA)           |

(NA) Not available.

## Alaska Area Planted and Harvested, Yield, and Production: 2017-2019

[Estimates are provided to meet special needs of crop and livestock production statistics users]

| Crop                        | Area planted for all purposes |                   |                   | Area harvested |                   |                   |
|-----------------------------|-------------------------------|-------------------|-------------------|----------------|-------------------|-------------------|
|                             | 2017                          | 2018 <sup>1</sup> | 2019 <sup>1</sup> | 2017           | 2018 <sup>1</sup> | 2019 <sup>1</sup> |
|                             | (acres)                       | (acres)           | (acres)           | (acres)        | (acres)           | (acres)           |
| Barley .....                | 5,500                         | 5,000             | 6,000             | 5,200          | 4,000             | 5,000             |
| Hay, all .....              | (NA)                          | (NA)              | (NA)              | 21,000         | 22,000            | 22,000            |
| Oats <sup>2</sup> .....     | 1,700                         | (NA)              | (NA)              | 900            | (NA)              | (NA)              |
| Potatoes <sup>3</sup> ..... | 560                           | 500               | (NA)              | 540            | 500               | (NA)              |
| Crop                        | Yield per acre                |                   |                   | Production     |                   |                   |
|                             | 2017                          | 2018 <sup>1</sup> | 2019 <sup>1</sup> | 2017           | 2018 <sup>1</sup> | 2019 <sup>1</sup> |
| Barley .....                | 46.0                          | 43.0              | 38.0              | 239,000        | 172,000           | 190,000           |
| Hay, all .....              | 1.20                          | 1.30              | 1.30              | 25,000         | 29,000            | 29,000            |
| Oats <sup>2</sup> .....     | 73.0                          | (NA)              | (NA)              | 66,000         | (NA)              | (NA)              |
| Potatoes <sup>3</sup> ..... | 270                           | 280               | (NA)              | 146,000        | 140,000           | (NA)              |

(NA) Not available.

<sup>1</sup> Beginning in 2018, estimates for Alaska barley, hay, and potatoes are included in the United States totals and therefore subject to the publication rules of the respective crop tables.

<sup>2</sup> Estimates discontinued in 2018.

<sup>3</sup> Estimates discontinued in 2019.

# Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2018 and 2019

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2019 crop year]

| Crop                                    | Area planted  |               | Area harvested |               |
|-----------------------------------------|---------------|---------------|----------------|---------------|
|                                         | 2018          | 2019          | 2018           | 2019          |
|                                         | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) |
| <b>Grains and hay</b>                   |               |               |                |               |
| Barley .....                            | 2,548         | 2,721         | 1,982          | 2,182         |
| Corn for grain <sup>1</sup> .....       | 88,871        | 89,700        | 81,276         | 81,482        |
| Corn for silage .....                   | (NA)          | (NA)          | 6,120          | 6,587         |
| Hay, all .....                          | (NA)          | (NA)          | 52,839         | 52,425        |
| Alfalfa .....                           | (NA)          | (NA)          | 16,608         | 16,743        |
| All other .....                         | (NA)          | (NA)          | 36,231         | 35,682        |
| Oats .....                              | 2,746         | 2,810         | 865            | 826           |
| Proso millet .....                      | 443           | 506           | 390            | 465           |
| Rice .....                              | 2,946         | 2,540         | 2,910          | 2,472         |
| Rye .....                               | 2,011         | 1,865         | 273            | 310           |
| Sorghum for grain <sup>1</sup> .....    | 5,690         | 5,265         | 5,061          | 4,675         |
| Sorghum for silage .....                | (NA)          | (NA)          | 264            | 339           |
| Wheat, all .....                        | 47,815        | 45,158        | 39,612         | 37,162        |
| Winter .....                            | 32,542        | 31,159        | 24,742         | 24,327        |
| Durum .....                             | 2,073         | 1,339         | 1,974          | 1,175         |
| Other spring .....                      | 13,200        | 12,660        | 12,896         | 11,660        |
| <b>Oilseeds</b>                         |               |               |                |               |
| Canola .....                            | 1,990.7       | 2,040.0       | 1,942.5        | 1,910.0       |
| Cottonseed .....                        | (X)           | (X)           | (X)            | (X)           |
| Flaxseed .....                          | 208           | 374           | 198            | 319           |
| Mustard seed .....                      | 102.5         | 98.0          | 97.8           | 90.0          |
| Peanuts .....                           | 1,425.5       | 1,427.7       | 1,373.5        | 1,391.7       |
| Rapeseed .....                          | 5.7           | 11.3          | 5.4            | 10.4          |
| Safflower .....                         | 167.5         | 165.8         | 156.3          | 152.7         |
| Soybeans for beans .....                | 89,167        | 76,100        | 87,594         | 75,021        |
| Sunflower .....                         | 1,301.0       | 1,350.6       | 1,217.4        | 1,244.5       |
| <b>Cotton, tobacco, and sugar crops</b> |               |               |                |               |
| Cotton, all .....                       | 14,100.3      | 13,737.8      | 10,205.8       | 11,804.5      |
| Upland .....                            | 13,850.0      | 13,508.0      | 9,957.0        | 11,580.0      |
| American Pima .....                     | 250.3         | 229.8         | 248.8          | 224.5         |
| Sugarbeets .....                        | 1,113.1       | 1,132.0       | 1,096.4        | 979.3         |
| Sugarcane .....                         | (NA)          | (NA)          | 899.7          | 912.0         |
| Tobacco .....                           | (NA)          | (NA)          | 291.4          | 227.1         |
| <b>Dry beans, peas, and lentils</b>     |               |               |                |               |
| Austrian winter peas <sup>2</sup> ..... | 16.4          | (NA)          | 10.9           | (NA)          |
| Chickpeas <sup>3</sup> .....            | 863.2         | 451.4         | 846.5          | 404.0         |
| Dry edible beans <sup>3</sup> .....     | 2,094.5       | 1,287.4       | 2,028.2        | 1,176.5       |
| Dry edible peas <sup>2</sup> .....      | 856.5         | 1,103.0       | 807.9          | 1,052.0       |
| Lentils .....                           | 780.0         | 486.0         | 718.0          | 431.0         |
| Wrinkled seed peas <sup>2</sup> .....   | (NA)          | (NA)          | (NA)           | (NA)          |
| <b>Potatoes and miscellaneous</b>       |               |               |                |               |
| Hops .....                              | (NA)          | (NA)          | 55.0           | 56.5          |
| Maple syrup .....                       | (NA)          | (NA)          | (NA)           | (NA)          |
| Mushrooms .....                         | (NA)          | (NA)          | (NA)           | (NA)          |
| Peppermint oil .....                    | (NA)          | (NA)          | 58.5           | 52.4          |
| Potatoes .....                          | 1,026.5       | 968.3         | 1,014.8        | 942.2         |
| Spearmint oil .....                     | (NA)          | (NA)          | 20.8           | 18.5          |
| Taro (Hawaii) <sup>4</sup> .....        | (NA)          | (NA)          | 0.3            | (NA)          |

See footnote(s) at end of table.

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# Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2018 and 2019 (continued)

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2019 crop year]

| Crop                                          | Yield per acre |       | Production |            |
|-----------------------------------------------|----------------|-------|------------|------------|
|                                               | 2018           | 2019  | 2018       | 2019       |
|                                               |                |       | (1,000)    | (1,000)    |
| <b>Grains and hay</b>                         |                |       |            |            |
| Barley .....bushels                           | 77.5           | 77.7  | 153,527    | 169,566    |
| Corn for grain .....bushels                   | 176.4          | 168.0 | 14,340,369 | 13,691,561 |
| Corn for silage ..... tons                    | 19.9           | 20.2  | 121,564    | 132,807    |
| Hay, all ..... tons                           | 2.34           | 2.46  | 123,600    | 128,864    |
| Alfalfa ..... tons                            | 3.17           | 3.28  | 52,634     | 54,875     |
| All other ..... tons                          | 1.96           | 2.07  | 70,966     | 73,989     |
| Oats .....bushels                             | 64.9           | 64.3  | 56,130     | 53,148     |
| Proso millet .....bushels                     | 29.7           | 35.7  | 11,595     | 16,608     |
| Rice <sup>5</sup> ..... cwt                   | 7,692          | 7,471 | 223,833    | 184,675    |
| Rye .....bushels                              | 30.9           | 34.3  | 8,432      | 10,622     |
| Sorghum for grain .....bushels                | 72.1           | 73.0  | 364,986    | 341,460    |
| Sorghum for silage ..... tons                 | 12.6           | 11.9  | 3,326      | 4,019      |
| Wheat, all .....bushels                       | 47.6           | 51.7  | 1,885,156  | 1,920,139  |
| Winter .....bushels                           | 47.9           | 53.6  | 1,183,939  | 1,304,003  |
| Durum .....bushels                            | 39.5           | 45.7  | 77,985     | 53,756     |
| Other spring .....bushels                     | 48.3           | 48.2  | 623,232    | 562,380    |
| <b>Oilseeds</b>                               |                |       |            |            |
| Canola ..... pounds                           | 1,861          | 1,781 | 3,615,440  | 3,402,000  |
| Cottonseed ..... tons                         | (X)            | (X)   | 5,631.0    | 6,232.0    |
| Flaxseed .....bushels                         | 22.6           | 20.0  | 4,466      | 6,395      |
| Mustard seed ..... pounds                     | 749            | 706   | 73,297     | 63,580     |
| Peanuts ..... pounds                          | 4,001          | 3,949 | 5,495,935  | 5,496,087  |
| Rapeseed ..... pounds                         | 1,524          | 2,160 | 8,230      | 22,464     |
| Safflower ..... pounds                        | 1,512          | 1,272 | 236,270    | 194,295    |
| Soybeans for beans .....bushels               | 50.6           | 47.4  | 4,428,150  | 3,558,281  |
| Sunflower ..... pounds                        | 1,731          | 1,562 | 2,107,045  | 1,943,435  |
| <b>Cotton, tobacco, and sugar crops</b>       |                |       |            |            |
| Cotton, all <sup>5</sup> ..... bales          | 864            | 817   | 18,367.0   | 20,102.0   |
| Upland <sup>5</sup> ..... bales               | 847            | 803   | 17,566.0   | 19,380.0   |
| American Pima <sup>5</sup> ..... bales        | 1,545          | 1,544 | 801.0      | 722.0      |
| Sugarbeets ..... tons                         | 30.4           | 29.2  | 33,282     | 28,600     |
| Sugarcane ..... tons                          | 38.4           | 34.9  | 34,542     | 31,798     |
| Tobacco ..... pounds                          | 1,830          | 2,060 | 533,241    | 467,956    |
| <b>Dry beans, peas, and lentils</b>           |                |       |            |            |
| Austrian winter peas <sup>2 5</sup> ..... cwt | 1,138          | (NA)  | 124        | (NA)       |
| Chickpeas <sup>3 5</sup> ..... cwt            | 1,511          | 1,544 | 12,787     | 6,237      |
| Dry edible beans <sup>3 5</sup> ..... cwt     | 1,861          | 1,769 | 37,745     | 20,811     |
| Dry edible peas <sup>2 5</sup> ..... cwt      | 1,972          | 2,124 | 15,929     | 22,346     |
| Lentils <sup>5</sup> ..... cwt                | 1,171          | 1,250 | 8,408      | 5,388      |
| Wrinkled seed peas <sup>2</sup> ..... cwt     | (NA)           | (NA)  | 389        | (NA)       |
| <b>Potatoes and miscellaneous</b>             |                |       |            |            |
| Hops ..... pounds                             | 1,943          | 1,981 | 106,906.7  | 112,041.2  |
| Maple syrup ..... gallons                     | (NA)           | (NA)  | 4,199      | 4,240      |
| Mushrooms ..... pounds                        | (NA)           | (NA)  | 917,235    | 846,491    |
| Peppermint oil ..... pounds                   | 92             | 104   | 5,377      | 5,452      |
| Potatoes ..... cwt                            | 443            | 449   | 450,020    | 422,890    |
| Spearmint oil ..... pounds                    | 124            | 130   | 2,571      | 2,413      |
| Taro (Hawaii) <sup>4</sup> ..... pounds       | 9,630          | (NA)  | 2,985      | (NA)       |

(NA) Not available.

(X) Not applicable.

<sup>1</sup> Area planted for all purposes.

<sup>2</sup> Beginning in 2019, Austrian winter peas and wrinkled seed peas are included in dry edible peas.

<sup>3</sup> Beginning in 2019, chickpeas are excluded from dry edible beans.

<sup>4</sup> Estimates discontinued in 2019.

<sup>5</sup> Yield in pounds.

# Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2018 and 2019

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2019 crop year]

| Crop                                    | Area planted |            | Area harvested |            |
|-----------------------------------------|--------------|------------|----------------|------------|
|                                         | 2018         | 2019       | 2018           | 2019       |
|                                         | (hectares)   | (hectares) | (hectares)     | (hectares) |
| <b>Grains and hay</b>                   |              |            |                |            |
| Barley .....                            | 1,031,150    | 1,101,160  | 802,100        | 883,030    |
| Corn for grain <sup>1</sup> .....       | 35,965,200   | 36,300,690 | 32,891,580     | 32,974,950 |
| Corn for silage .....                   | (NA)         | (NA)       | 2,476,700      | 2,665,690  |
| Hay, all <sup>2</sup> .....             | (NA)         | (NA)       | 21,383,410     | 21,215,870 |
| Alfalfa .....                           | (NA)         | (NA)       | 6,721,090      | 6,775,720  |
| All other .....                         | (NA)         | (NA)       | 14,662,320     | 14,440,150 |
| Oats .....                              | 1,111,280    | 1,137,180  | 350,060        | 334,270    |
| Proso millet .....                      | 179,280      | 204,770    | 157,830        | 188,180    |
| Rice .....                              | 1,192,220    | 1,027,910  | 1,177,650      | 1,000,390  |
| Rye .....                               | 813,830      | 754,750    | 110,480        | 125,450    |
| Sorghum for grain <sup>1</sup> .....    | 2,302,690    | 2,130,690  | 2,048,140      | 1,891,930  |
| Sorghum for silage .....                | (NA)         | (NA)       | 106,840        | 137,190    |
| Wheat, all <sup>2</sup> .....           | 19,350,250   | 18,274,990 | 16,030,580     | 15,039,090 |
| Winter .....                            | 13,169,420   | 12,609,740 | 10,012,840     | 9,844,890  |
| Durum .....                             | 838,920      | 541,880    | 798,860        | 475,510    |
| Other spring .....                      | 5,341,910    | 5,123,380  | 5,218,880      | 4,718,690  |
| <b>Oilseeds</b>                         |              |            |                |            |
| Canola .....                            | 805,620      | 825,570    | 786,110        | 772,960    |
| Cottonseed .....                        | (X)          | (X)        | (X)            | (X)        |
| Flaxseed .....                          | 84,180       | 151,350    | 80,130         | 129,100    |
| Mustard seed .....                      | 41,480       | 39,660     | 39,580         | 36,420     |
| Peanuts .....                           | 576,890      | 577,780    | 555,840        | 563,210    |
| Rapeseed .....                          | 2,310        | 4,570      | 2,190          | 4,210      |
| Safflower .....                         | 67,790       | 67,100     | 63,250         | 61,800     |
| Soybeans for beans .....                | 36,084,990   | 30,796,910 | 35,448,420     | 30,360,250 |
| Sunflower .....                         | 526,500      | 546,570    | 492,670        | 503,640    |
| <b>Cotton, tobacco, and sugar crops</b> |              |            |                |            |
| Cotton, all <sup>2</sup> .....          | 5,706,250    | 5,559,550  | 4,130,190      | 4,777,160  |
| Upland .....                            | 5,604,960    | 5,466,550  | 4,029,500      | 4,686,310  |
| American Pima .....                     | 101,290      | 93,000     | 100,690        | 90,850     |
| Sugarbeets .....                        | 450,460      | 458,110    | 443,700        | 396,310    |
| Sugarcane .....                         | (NA)         | (NA)       | 364,100        | 369,080    |
| Tobacco .....                           | (NA)         | (NA)       | 117,940        | 91,910     |
| <b>Dry beans, peas, and lentils</b>     |              |            |                |            |
| Austrian winter peas <sup>3</sup> ..... | 6,640        | (NA)       | 4,410          | (NA)       |
| Chickpeas <sup>4</sup> .....            | 349,330      | 182,680    | 342,570        | 163,490    |
| Dry edible beans <sup>4</sup> .....     | 847,620      | 521,000    | 820,790        | 476,120    |
| Dry edible peas <sup>3</sup> .....      | 346,620      | 446,370    | 326,950        | 425,730    |
| Lentils .....                           | 315,660      | 196,680    | 290,570        | 174,420    |
| Wrinkled seed peas <sup>3</sup> .....   | (NA)         | (NA)       | (NA)           | (NA)       |
| <b>Potatoes and miscellaneous</b>       |              |            |                |            |
| Hops .....                              | (NA)         | (NA)       | 22,270         | 22,880     |
| Maple syrup .....                       | (NA)         | (NA)       | (NA)           | (NA)       |
| Mushrooms .....                         | (NA)         | (NA)       | (NA)           | (NA)       |
| Peppermint oil .....                    | (NA)         | (NA)       | 23,670         | 21,210     |
| Potatoes .....                          | 415,410      | 391,860    | 410,680        | 381,300    |
| Spearmint oil .....                     | (NA)         | (NA)       | 8,420          | 7,490      |
| Taro (Hawaii) <sup>5</sup> .....        | (NA)         | (NA)       | 130            | (NA)       |

See footnote(s) at end of table.

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# Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2018 and 2019 (continued)

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2019 crop year]

| Crop                                    | Yield per hectare |               | Production    |               |
|-----------------------------------------|-------------------|---------------|---------------|---------------|
|                                         | 2018              | 2019          | 2018          | 2019          |
|                                         | (metric tons)     | (metric tons) | (metric tons) | (metric tons) |
| <b>Grains and hay</b>                   |                   |               |               |               |
| Barley .....                            | 4.17              | 4.18          | 3,342,660     | 3,691,860     |
| Corn for grain .....                    | 11.07             | 10.55         | 364,262,150   | 347,781,670   |
| Corn for silage .....                   | 44.53             | 45.20         | 110,281,010   | 120,480,480   |
| Hay, all <sup>2</sup> .....             | 5.24              | 5.51          | 112,128,030   | 116,903,450   |
| Alfalfa .....                           | 7.10              | 7.35          | 47,748,760    | 49,781,760    |
| All other .....                         | 4.39              | 4.65          | 64,379,270    | 67,121,690    |
| Oats .....                              | 2.33              | 2.31          | 814,720       | 771,440       |
| Proso millet .....                      | 1.67              | 2.00          | 262,970       | 376,660       |
| Rice .....                              | 8.62              | 8.37          | 10,152,890    | 8,376,720     |
| Rye .....                               | 1.94              | 2.15          | 214,180       | 269,810       |
| Sorghum for grain .....                 | 4.53              | 4.58          | 9,271,070     | 8,673,480     |
| Sorghum for silage .....                | 28.24             | 26.58         | 3,017,300     | 3,645,980     |
| Wheat, all <sup>2</sup> .....           | 3.20              | 3.47          | 51,305,540    | 52,257,620    |
| Winter .....                            | 3.22              | 3.60          | 32,221,540    | 35,489,150    |
| Durum .....                             | 2.66              | 3.08          | 2,122,400     | 1,463,000     |
| Other spring .....                      | 3.25              | 3.24          | 16,961,600    | 15,305,480    |
| <b>Oilseeds</b>                         |                   |               |               |               |
| Canola .....                            | 2.09              | 2.00          | 1,639,940     | 1,543,120     |
| Cottonseed .....                        | (X)               | (X)           | 5,108,360     | 5,653,580     |
| Flaxseed .....                          | 1.42              | 1.26          | 113,440       | 162,440       |
| Mustard seed .....                      | 0.84              | 0.79          | 33,250        | 28,840        |
| Peanuts .....                           | 4.48              | 4.43          | 2,492,910     | 2,492,980     |
| Rapeseed .....                          | 1.71              | 2.42          | 3,730         | 10,190        |
| Safflower .....                         | 1.69              | 1.43          | 107,170       | 88,130        |
| Soybeans for beans .....                | 3.40              | 3.19          | 120,514,490   | 96,840,540    |
| Sunflower .....                         | 1.94              | 1.75          | 955,740       | 881,530       |
| <b>Cotton, tobacco, and sugar crops</b> |                   |               |               |               |
| Cotton, all <sup>2</sup> .....          | 0.97              | 0.92          | 3,998,940     | 4,376,690     |
| Upland .....                            | 0.95              | 0.90          | 3,824,550     | 4,219,500     |
| American Pima .....                     | 1.73              | 1.73          | 174,400       | 157,200       |
| Sugarbeets .....                        | 68.05             | 65.47         | 30,192,920    | 25,945,480    |
| Sugarcane .....                         | 86.06             | 78.16         | 31,335,980    | 28,846,660    |
| Tobacco .....                           | 2.05              | 2.31          | 241,870       | 212,260       |
| <b>Dry beans, peas, and lentils</b>     |                   |               |               |               |
| Austrian winter peas <sup>3</sup> ..... | 1.28              | (NA)          | 5,620         | (NA)          |
| Chickpeas <sup>4</sup> .....            | 1.69              | 1.73          | 580,010       | 282,910       |
| Dry edible beans <sup>4</sup> .....     | 2.09              | 1.98          | 1,712,080     | 943,970       |
| Dry edible peas <sup>3</sup> .....      | 2.21              | 2.38          | 722,530       | 1,013,600     |
| Lentils .....                           | 1.21              | 1.40          | 381,380       | 244,400       |
| Wrinkled seed peas <sup>3</sup> .....   | (NA)              | (NA)          | 17,640        | (NA)          |
| <b>Potatoes and miscellaneous</b>       |                   |               |               |               |
| Hops .....                              | 2.18              | 2.22          | 48,490        | 50,820        |
| Maple syrup .....                       | (NA)              | (NA)          | 21,000        | 21,200        |
| Mushrooms .....                         | (NA)              | (NA)          | 416,090       | 383,960       |
| Peppermint oil .....                    | 0.10              | 0.12          | 2,440         | 2,470         |
| Potatoes <sup>2</sup> .....             | 49.70             | 50.31         | 204,125,640   | 19,181,970    |
| Spearmint oil .....                     | 0.14              | 0.15          | 1,170         | 1,090         |
| Taro (Hawaii) <sup>5</sup> .....        | 10.80             | (NA)          | 1,350         | (NA)          |

(NA) Not available.

(X) Not applicable.

<sup>1</sup> Area planted for all purposes.

<sup>2</sup> Total may not add due to rounding.

<sup>3</sup> Beginning in 2019, Austrian winter peas and wrinkled seed peas are included in dry edible peas.

<sup>4</sup> Beginning in 2019, chickpeas are excluded from dry edible beans.

<sup>5</sup> Estimates discontinued in 2019.

## 2019 Annual Weather Summary

**Highlights:** Despite the mid-year demise of El Niño, wet conditions were a hallmark of the 2019 growing season across large sections of the Plains and Midwest. Midwestern wetness, which intensified in March and persisted through spring and into summer, caused significant planting delays and subsequently slowed the development of crops such as corn and soybeans. Planting and developmental delays extended to other crops, including sugarbeets, sunflowers, and spring wheat.

The 2019 growing season across the Plains and Midwest ended with widespread freezes by mid-October, when some corn and soybeans were not yet fully mature. In fact, 4 percent of the Nation's corn had not denting by October 13, with state-level numbers on that date as high as 16 percent in Wisconsin and 13 percent in Michigan. Nationally, 73 percent of the corn was fully mature by October 13, while 85 percent of the soybeans were dropping leaves. Less than one-half of the corn was mature on that date in North Dakota (42 percent), Michigan (44 percent), and Wisconsin (49 percent). As autumn progressed, Midwestern harvest activities were delayed by muddy or snow-covered fields, as well as the need for some grains and oilseeds to shed excess moisture before being stored or processed.

Fieldwork delays were not nearly as pronounced across the South, where harvest activities for crops such as cotton, peanuts, rice, and soybeans proceeded at a pace that was mostly at or ahead of schedule. Autumn heat and dryness in the Southeast stressed pastures but contributed to the rapid pace of crop maturation and harvesting, despite some earlier planting delays. Farther west, autumn drought development across portions of the central and southern High Plains adversely affected some rangeland, pastures, and winter wheat. Stress on winter wheat was aggravated by several sharp autumn cold outbreaks.

Meanwhile, the western United States experienced an interesting year of weather, which included abundant precipitation during the winter of 2018-19; a sub-par summer monsoon season; and a delayed onset of widespread precipitation in autumn 2019. The wet winter of 2018-19 brought a significant decrease in Western drought coverage, which—according to the United States Drought Monitor—fell from 53 to 4 percent between early January and late April. Subsequently, Western drought coverage increased to nearly 25 percent by November 19 before dropping again.

Unlike 2018, when Hurricanes Florence and Michael caused great destruction, most of the country escaped the year with minimal tropical impacts. Official landfalls in the United States occurred with Hurricanes Barry and Dorian, as well as Tropical Storms Imelda and Nestor. Barry, a minimal (Category 1) hurricane upon arrival in Louisiana on July 13, quickly weakened after moving inland and produced only local downpours. After grazing the southern Atlantic Coast with heavy rain and high winds, Dorian crossed Cape Hatteras, North Carolina, on September 6 as a Category 1 hurricane. Later in the month, Imelda sparked torrential rain in southeastern Texas after moving ashore on September 17 near Freeport. Finally, Tropical Storms Nestor and Olga formed during October in the Gulf of Mexico. Only Nestor, which crossed Florida's panhandle on October 19, officially made landfall. Nevertheless, Nestor and Olga—along with non-tropical disturbances—delivered much-needed moisture, greatly reducing the coverage and intensity of Southeastern drought.

During 2019, the Nation's drought coverage ranged from 21.90 percent at the beginning of the year to a Drought Monitor-era record low of 2.28 percent on April 23. During the first half of autumn, a sharp but short-lived Southeastern drought contributed to a secondary spike in coverage, which peaked at 21.19 percent on October 15. During the autumn peak, drought also covered the Four Corners region, portions of the south-central United States, and the lower Ohio Valley.

Western wildfires were much less active in 2019 compared to the previous year. Nationally, wildfires charred about 4.6 million acres of vegetation, versus nearly 8.8 million acres in 2018 and the 10-year average of just under 7.0 million acres. Alaska, which experienced a very active wildfire season, accounted for nearly 55 percent of the annual national total, with 2.5 million acres burned in 2019. Nevertheless, several autumn wildfires caused significant damage while the West awaited cold-season precipitation to begin. Notably, a rash of late-October wildfires in California included the 78,000-acre Kincade Fire in Sonoma County; that blaze, propelled by high winds and abetted by low humidity levels and seasonally cured vegetation, destroyed 374 structures.

**Winter 2018-19:** Amid a developing El Niño, the Nation experienced its wettest winter during the 124-year period of record, according to the National Centers for Environmental Information. While the stormy regime extended into nearly every corner of the country, wetness was most acute in the central and eastern United States. For much of the winter,

heavy precipitation was distributed well enough, spatially and temporally, to prevent major flooding. During February, however, severe flash flooding affected parts of California, while significant river flooding developed across portions of the mid-South and lower Midwest.

Near- or above-normal winter temperatures belied the fact that a severe cold outbreak engulfed the northern Plains and Midwest, starting in late January. The cold weather, accompanied by frequently heavy snow, persisted through the remainder of winter, helping to set the stage for major, mid- to late-March flooding in the western Corn Belt. The snowy, cold weather stretched into the Northwest, especially during the first half of February, leading to an increase in livestock stress and mortality.

For the West as a whole, it was the second time in 3 years that widespread winter precipitation resulted in significant reductions in drought coverage. Across the eleven Western States, drought coverage according to the United States Drought Monitor decreased from 55 to 25 percent between mid-December and early March. National drought coverage fell from 23 to 12 percent during the same period, and there was no drought at winter's end east of the Mississippi River.

**Spring:** The continuation of El Niño through the Northern Hemisphere spring contributed to an excessively wet pattern across much of the United States. Drought coverage dipped to a Drought Monitor-era record low of 2.28 percent on April 23. Subsequently, drought coverage in the continental United States increased to 5.28 percent by June 4, courtesy of increasingly dry conditions in parts of the Southeast and Pacific Northwest. By the end of spring, developing drought also extended south of the Canadian border into parts of Montana and North Dakota.

However, the more significant agricultural and hydrological story during the spring of 2019 was the incessant wetness across large sections of the mid-South, Midwest, Plains, and West. Flooding began early in the spring, when a mid-March storm delivered heavy precipitation across the western Corn Belt atop frozen soils and an extensive snow cover. In parts of the middle Missouri Valley and environs, record-high water levels engulfed communities and agricultural land—and led to the March 14 destruction of the Spencer Dam along the Niobrara River in northern Nebraska.

Flooding returned to parts of the Plains and Midwest starting in late April, as frequent storms dumped copious rainfall. Major flooding persisted for 2 months (62 days from March 16 – May 16) along the Mississippi River at Burlington, IA, breaking the 1993 record of 41 consecutive days. In late May and early June, record flooding affected the Arkansas River in Oklahoma and Arkansas, while the Mississippi River between Quincy, IL, and Chester, MO, climbed to its second-highest level on record, behind 1993.

In addition to the high river levels, which caused extensive closings and delays for barges and other waterway traffic, extensive wetness resulted in a record-slow planting pace for the Nation's corn, soybeans, and rice. By June 2, only 67 percent of the intended corn acreage and 39 percent of the soybeans had been planted, compared to the 1995 records of 77 and 40 percent, respectively.

Across the Plains and upper Midwest, cool spring weather (as much as 2 to 4°F below normal) accompanied the relentless precipitation. In fact, some northern crop production areas experienced frequent snow through the end of April. In contrast, spring temperatures averaged more than 2°F above normal in the southern Atlantic States.

**Summer:** Despite an absence of extreme heat, agricultural issues developed in parts of the Corn Belt due to soil compaction, shallow-rooted crops, and a mid- to late-summer drying trend. Late-planted, late-developing crops experienced the greatest impacts, with 22 to 27 percent of the corn rated in very poor to poor condition by September 1 in Indiana, Michigan, Missouri, and Ohio. Similarly, more than one-fifth of the soybeans in Indiana and Ohio were rated very poor to poor on that date.

Following a brief hot spell in July, the Midwest experienced a protracted period with near- or below-normal temperatures, maintaining a slow corn and soybean development pace. However, those delays were mostly specific to the Corn Belt, as well as the northern Plains, where spring wheat and other small grains matured behind schedule due to a slow spring planting pace. As a result, some the northern Plains' small grains were still in the field and vulnerable to reductions in quality when torrential rain arrived in early September.

Farther south, a dreadful monsoon season resulted in a record-dry summer in Arizona and unfavorable dryness in other parts of the Southwest. The Southwestern heat and dryness led to stress on rangeland and pastures. However, much of the West escaped significant summer wildfire activity, in part due to the bountifully wet winter of 2018-19. By September 10, wildfires had burned 4.25 million acres of vegetation, well below the 10-year average of 5.92 million acres. More than 60 percent of the total, or 2.59 million acres, occurred in Alaska, which experienced an active wildfire season.

The mainland of the United States experienced only one named tropical system during the summer: Hurricane Barry. A minimal hurricane, Barry crossed the Louisiana coast on July 13 and subsequently produced pockets of heavy rain and flash flooding in the lower Mississippi Valley and neighboring areas. In late August, Dorian became a hurricane while traversing the United States Virgin Islands. Dorian, which utterly devastated the northwestern Bahamas as a Category 5 storm on September 1-2, later grazed the southern Atlantic coast of the United States, making landfall on Cape Hatteras, NC, as a Category 1 hurricane on September 6.

During much of the summer of 2019, drought coverage in the contiguous United States ranged from 3 to 5 percent. During August, however, drought development across the southern Plains and Southwest resulted in an increase in coverage to 10 percent by September 3. In addition, pockets of drought in the central and eastern Corn Belt aggravated the effects of late planting and soil compaction on corn and soybeans. In mid- to late August, extreme drought (D3) returned to the continental United States for the first time since March 2019. However, D3 was confined to 3 percent of Texas and 2 percent of Oklahoma.

**Autumn:** The Nation's slowest corn harvest since 2009 was one of many agricultural weather highlights in an active autumn. Plains and Midwestern harvest disruptions, which extended to other crops such as soybeans, sugarbeets, sunflowers, and spring wheat, were not only due to adverse autumn weather, but also because of crop developmental delays mostly related to late planting. In addition, the growing season ended amid a mid-October cold snap across much of the Midwest, leaving some grains and oilseeds with unusually high moisture content and not yet ready to harvest. By October 13, only 73 percent of the Nation's corn was fully mature, while 85 percent of the soybeans were dropping leaves.

Farther south, record-setting heat gripped the Southeast in September and early October. The heat, accompanied by mostly dry weather, extended as far north as the Ohio Valley, hastening crop maturation and harvest activities, but depleting topsoil moisture and stressing pastures. The Southeastern hot, dry spell abruptly ended in mid to late October, partly due to surges of moisture from the Gulf of Mexico that included the remnants of Tropical Storms Nestor and Olga.

Earlier, Hurricane Dorian and Tropical Storm Imelda had made landfalls in the United States. Dorian, significantly weakened in the wake of its catastrophic encounter with the northwestern Bahamas, grazed the southern Atlantic Coast in early September. Officially, Dorian made landfall on September 6 on Cape Hatteras, North Carolina, as a Category 1 hurricane. Less than 2 weeks later, on September 17, Imelda suddenly formed while approaching Freeport, Texas. Although inundating rain fell across southeastern Texas, agricultural impacts were relatively minor.

Elsewhere, cool-season precipitation was slow to arrive across the western United States, which—following a sub-par Southwestern monsoon—led to autumn drought intensification in the Four Corners States. Major changes occurred, however, during the second half of November, when two storm systems crossed the Southwest. The swift Southwestern drought improvement stood in contrast to short-term dryness in the Northwest.

During much of the autumn of 2019, drought coverage in the contiguous United States ranged from 10 to 20 percent. Coverage across the Lower 48 States peaked at 21 percent on October 15, when the Southeastern drought reached its maximum intensity. Other areas of drought included the central and southern Plains, where some rangeland, pastures, and winter wheat suffered due to a lack of topsoil moisture, and the Southwest, which experienced significant late-November relief. According to the United States Drought Monitor, exceptional drought (D4) has been absent from the country since March 2019.

**December:** Active December weather prevailed across most of the country, especially in the Southeast and a broad area stretching from California and the Southwest to the northern Plains and upper Great Lakes region. From the Dakotas to Upper Michigan, a persistently deep snow cover hampered final harvest efforts for crops such as corn and sunflowers. In

the last national report, dated December 8, only 92 percent of the Nation's corn and 73 percent of the sunflowers had been harvested. In North Dakota, 43 percent of the corn had been cut on that date, while 60 percent of the sunflowers had been harvested. Snow also remained on the ground for much (or all) of the month in parts of the Northeast, where an early-December storm dumped heavy snow.

In contrast, drier-than-normal weather covered portions of the southern Plains, as well as the western Gulf Coast region. Several factors, including drought and periodic cold snaps, continued to adversely affect winter wheat in parts of Colorado, Kansas, Oklahoma, and Texas. During December, as much as 15 percent of the Nation's winter wheat production area was in drought, according to the United States Drought Monitor. However, a late-month storm system provided some of the Plains' driest wheat areas with highly beneficial moisture.

Portions of the Northwest also experienced drier-than-normal conditions, despite a late-month increase in precipitation. In addition, Northwestern snow accumulations were limited by mild weather, leaving high-elevation snowpack 25 to 75 percent of the late-December average in much of Idaho, Oregon, and Washington. Elsewhere, near- or above-average snowpack dominated areas from the Sierra Nevada to the central and southern Rockies, as well as the eastern slopes of the northern Rockies, courtesy of multiple storms in late November and throughout December.

## 2019 Annual Crop Summary

**April:** Cooler than average temperatures were recorded for much of the Corn Belt, Delta, New England, northern Rocky Mountains, and Texas. In the upper Midwest, average temperatures were 3°F or more below normal in many areas. However, temperatures were slightly warmer in the mid-Atlantic, California, Florida, central Great Plains, Pacific Northwest, and Southwest averaging 3°F or more above normal in some areas. Beneficial rain showers were recorded in the Delta, Pacific Northwest, Southeast, and central Texas during the month. In parts of the Delta, Pacific Northwest, and Texas, 9 or more inches of rain fell during the month. Snow fell across parts of the Great Lakes, northern Great Plains, New England, and Rocky Mountains which caused delays in fieldwork. By April 7, producers had planted 2 percent of the Nation's corn acreage, equal to the previous year and equal to the 5-year average. Producers had planted 15 percent of the 2019 corn acreage as of April 28, equal to the previous year, but 12 percentage points behind the 5-year average. All States were behind their respective 5-year average planting pace, except Texas, which had 65 percent of the 2019 corn acreage planted. Cotton producers planted 11 percent of the cotton acreage by April 28, one percentage point behind the previous year and 2 percentage points behind the 5-year average. In Texas, 13 percent of the 2019 cotton acreage was planted by April 28, two percentage points behind the previous year but equal to the 5-year average.

**May:** Monthly temperatures were cooler than normal for parts of California, the Corn Belt, Great Plains, New England, Rocky Mountains, and Southwest with temperatures averaging 4°F or more below normal. However, temperatures averaged 2°F or more above normal in the mid-Atlantic, Florida, southern Great Lakes, Mississippi Valley, and Pacific Northwest. Higher than normal precipitation was experienced across the United States during the month of May. Parts of the Corn Belt, Delta, and the Great Plains received more than 10 inches of rain during the month. However, portions of States along the Canadian border, the Pacific Southwest, Pacific Northwest, and Southeast remained dry. By May 12, thirty percent of the 2019 corn acreage was planted, 29 percentage points behind the previous year and 36 percentage points behind the 5-year average. Ten percent of the Nation's corn acreage emerged by May 12, fifteen percentage points behind the previous year and 19 percentage points behind the 5-year average. Nationally, 26 percent of the cotton acreage was planted by May 12, eight percentage points behind the previous year and 6 percentage points behind the 5-year average. Producers planted 24 percent of the 2019 sorghum acreage by May 12, eight percentage points behind the previous year and 9 percentage points behind the 5-year average. By May 12, fifty-nine percent of the barley acreage was seeded, equal to the previous year but 13 percentage points behind the 5-year average. By May 26, twenty-nine percent of the Nation's soybean acreage was planted, 45 percentage points behind the previous year and 37 percentage points behind the 5-year average. Eighty-four percent of the Nation's spring wheat acreage was seeded by May 26, five percentage points behind the previous year and 7 percentage points behind the 5-year average.

**June:** During the month, cooler than normal temperatures were experienced across much of the Nation. In the mid-Atlantic, Delta, Great Lakes, Great Plains, northern Mississippi Valley, Northeast, Rocky Mountains, and Southwest, temperatures averaged 2°F or more below normal. However, in Alabama, California, Georgia, Florida, Pacific Northwest, and southern Texas, temperatures averaged 4°F or more above normal in some areas. The eastern half of United States

had above normal precipitation during the month of June. Parts of Kansas, the mid-Atlantic, Mississippi Valley, Ohio Valley, Oklahoma, Southeast, and eastern Texas received more than 10 inches of rain during the month. However, California, the Pacific Northwest, Rocky Mountains, and Southwest remained dry. By June 2, sixty-seven percent of the 2019 corn acreage was planted, 29 percentage points behind both the previous year and the 5-year average.

Thirty-nine percent of the Nation's soybean acreage was planted by June 2, forty-seven percentage points behind the previous year and 40 percentage points behind the 5-year average. By June 2, ninety-four percent of the barley acreage was seeded, two percentage points behind the previous year and 3 percentage points behind the 5-year average. Peanut planting advanced to 86 percent complete by June 2, four percentage points ahead of the previous year and 1 percentage point ahead of the 5-year average. The Nation's spring wheat was 69 percent emerged by June 2, nine percentage points behind the previous year and 15 percentage points behind the 5-year average. Seventy-six percent of the rice acreage emerged by June 2, eighteen percentage points behind the previous year and 15 percentage points behind the 5-year average. Seventy-nine percent of the corn acreage was emerged by June 16, eighteen percentage points behind both the previous year and the 5-year average. Nationwide, 92 percent of the barley acreage had emerged by June 16, three percentage points behind the previous year and four percentage points behind the 5-year average. Nationally, 89 percent of the cotton acreage was planted by June 16, six percentage points behind the previous year and 5 percentage points behind the 5-year average. Nationally, 71 percent of the soybean acreage emerged by June 23, twenty-three percentage points behind last year and 20 percentage points behind the 5-year average. As of June 23, eighty-four percent of the Nation's sorghum was planted, 10 percentage points behind the previous year and 7 percentage points behind the 5-year average.

**July:** Temperatures were cooler than average for the month in parts of the Great Plains, Mississippi Valley, northern Rocky Mountains, and Pacific Northwest with temperatures averaging 2°F or more below normal. However, temperatures were warmer in the Great Lakes, New England, New Mexico, and Utah averaging 4°F or more above normal in some areas. During the month of July, parts of the Delta received more than 8 inches of rain. However, parts of California, the Pacific Northwest, Southwest, Southern Plains, and Southeast remained dry. Heading of this year's oat acreage advanced to 74 percent complete by July 7, sixteen percentage points behind both the previous year and the 5-year average. Heading of the Nation's barley acreage advanced to 55 percent complete by July 7, nineteen percentage points behind the previous year and 20 percentage points behind the 5-year average. By July 7, fifty-six percent of the spring wheat acreage was at or beyond the heading stage, 22 percentage points behind the previous year and 17 percentage points behind the 5-year average. Nationally, 22 percent of the United States soybean acreage was at or beyond the blooming stage by July 14, forty percentage points behind the previous year and 27 percentage points behind the 5-year average. Twenty-four percent of the 2019 rice acreage was at or beyond the heading stage by July 14, six percentage points behind the previous year and 7 percentage points behind the 5-year average. By July 28, twenty-one percent of the 2019 soybean acreage was at or beyond the pod-setting stage, 37 percentage points behind the previous year and 24 percentage points behind the 5-year average. Nationally, 86 percent of the cotton acreage was at or beyond the squaring stage by July 28, one percentage point behind both the previous year and the 5-year average. By July 28, bolls were setting on 45 percent of the Nation's cotton acreage, 3 percentage points behind both the previous year and the 5-year average. Fifty-eight percent of the corn acreage was at or beyond the silking stage by July 28, thirty-two percentage points behind the previous year and 25 percentage points behind the 5-year average. By July 28, thirty-three percent of the Nation's sorghum acreage was at or beyond the heading stage, 19 percentage points behind the previous year and 17 percentage points behind the 5-year average. Eighty-four percent of the Nation's peanut acreage was pegging by July 28, one percentage point behind both the previous year and the 5-year average.

**August:** Temperatures were cooler than average in parts of the Great Lakes and Great Plains, with temperatures averaging 4°F or more below normal. However, temperatures were warmer in the Southwest averaging 6°F or more above normal in some locations. During the month of August, parts of the Delta, Florida, and southern Great Plains received more than 10 inches of rain. However, parts of California, Michigan, the Pacific Northwest, Rocky Mountains, and Southwest remained dry. By August 4, seventy-eight percent of the corn was at or beyond the silking stage, 17 percentage points behind the previous year and 15 percentage points behind the 5-year average. Nationally, 23 percent of the corn acreage was at or beyond the dough stage by August 4, thirty-one percentage points behind the previous year and 19 percentage points behind the 5-year average. As of August 11, eighty-two percent of the soybean acreage was at or beyond the blooming stage, 13 percentage points behind the previous year and 11 percentage points behind the 5-year average. By August 11, barley producers had harvested 15 percent of the 2019 acreage, 22 percentage points behind the previous year and 24 percentage points behind the 5-year average. Overall, 74 percent of the barley was reported in good to excellent

condition on August 11, compared with 81 percent at the same time in 2018. By August 18, spring wheat producers had harvested 16 percent of the Nation's acreage, 40 percentage points behind the previous year and 33 percentage points behind the 5-year average. Overall, 70 percent of the spring wheat was reported in good to excellent condition on August 18, four percentage points lower than at the same time in 2018. Heading of the 2019 sorghum acreage was 75 percent complete by August 18, eleven percentage points behind the previous year and 8 percentage points behind the 5-year average. The Nation's rice acreage was 88 percent headed by August 18, six percentage points behind the previous year and 5 percentage points behind the 5-year average. Sixty percent of the oat acreage was harvested by August 18, eighteen percentage points behind both the previous year and the 5-year average. Seventy-nine percent of the Nation's soybeans were at or beyond the pod setting stage by August 25, fifteen percentage points behind the previous year and 12 percentage points behind the 5-year average. Ninety percent of the Nation's cotton acreage was at or beyond the boll setting stage by August 25, equal to the previous year but 1 percentage point behind the 5-year average.

**September:** Average monthly temperatures were warmer than average for parts of Colorado, Illinois, Indiana, the Mississippi Valley, New Mexico, North Carolina, Ohio, the southern Great Plains, Virginia, and West Virginia with temperatures averaging 6°F or more above normal. However, temperatures were cooler in parts of Arizona, California, Idaho, Montana, Nevada, New England, and the Pacific Northwest. During the month of September, the United States remained extremely dry, except along the Carolina coastline, northern Illinois, western North Dakota, southeast Texas, and southern Wisconsin. Nationally, 41 percent of the corn acreage was at or beyond the dent stage by September 1, thirty-two percentage points behind the previous year and 22 percentage points behind the 5-year average. By September 8, eighty-two percent of the barley acreage was harvested, 9 percentage points behind the previous year and 10 percentage points behind the 5-year average. Spring wheat producers harvested 71 percent of the 2019 acreage by September 8, twenty-one percentage points behind the previous year and 16 percentage points behind the 5-year average. Oat producers had harvested 89 percent of the 2019 acreage by September 8, seven percentage points behind the previous year and 6 percentage points behind the 5-year average. Nationally, producers had harvested 46 percent of the 2019 rice acreage by September 15, two percentage points behind both the previous year and the 5-year average. Overall, 69 percent of the rice acreage was rated in good to excellent condition on September 15, compared with 74 percent at the same time in 2018. Fifteen percent of the 2019 soybean acreage was at or beyond the leaf dropping stage by September 15, thirty-five percentage points behind the previous year and 23 percentage points behind the 5-year average. By September 15, seventy-nine percent of the sorghum acreage was at or beyond the coloring stage, 8 percentage points behind the previous year and 5 percentage points behind the 5-year average. Twenty-nine percent of the corn acreage was mature by September 22, forty percentage points behind the previous year and 28 percentage points behind the 5-year average. By September 22, producers had sown 22 percent of the Nation's 2020 winter wheat acreage, 4 percentage points behind the previous year and 2 percentage points behind the 5-year average. By September 22, sixty-four percent of the 2019 cotton acreage was at or beyond the boll opening stage, 7 percentage points ahead of both the previous year and the 5-year average.

**October:** Temperatures were cooler than normal for parts of the Great Plains, Nevada, Oregon, and the Rocky Mountains with temperatures averaging 6°F or more below normal. However, temperatures were 6°F or more above normal along the Indiana and Ohio border and in parts of the Southeast. During the month of October, the western half of the United States remained extremely dry. In contrast, areas in the Mississippi Valley, Oklahoma, and Washington received 10 inches of rain or more. Soybean producers had harvested 26 percent of the Nation's acreage by October 13, eleven percentage points behind the previous year and 23 percentage points behind the 5-year average. Overall, 54 percent of the soybean acreage was reported in good to excellent condition as of October 13, twelve percentage points lower than at the same time in 2018. By October 13, fifty-five percent of the Nation's peanut acreage was harvested, 12 percentage points ahead of the previous year and 13 percentage points ahead of the 5-year average. Overall, 54 percent of the peanut acreage was reported in good to excellent condition as of October 13, four percentage points lower than at the same time in 2018. By October 20, ninety-three percent of the rice acreage was harvested, 3 percentage points ahead of the previous year but 1 percentage point behind the 5-year average. Forty-one percent of the 2019 corn acreage was harvested by October 27, twenty percentage points behind both the previous year and the 5-year average. Sorghum producers had harvested 65 percent of the acreage by October 27, thirteen percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. Producers had sown 85 percent of the 2020 winter wheat acreage by October 27, eight percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. Nationally, producers harvested 46 percent of the cotton acreage by October 27, three percentage points ahead of both the previous year and the 5-year average. Overall, 40 percent of the cotton acreage was reported in good to excellent condition as of

October 27, five percentage points ahead of the same time in 2018. Producers harvested 58 percent of the sugarbeet acreage by October 27, twenty-two percentage points behind the previous year and 26 percentage points behind the 5-year average.

**November:** Temperatures were cooler than average for most of the eastern half of the Nation, with the exception of Central and Southern Florida. Temperatures averaged 5°F or more below normal for much of the Great Lakes, Northeast, middle Mississippi Valley, and Ohio Valley. In contrast, much of the western part of the Nation was warmer than average with temperatures averaging 5°F or more above normal in parts of California, Idaho, Oregon, Texas, and Utah. During the month of November, much of the western half of the United States remained dry, except for areas of the Pacific Northwest and the Southwest. Parts of Arizona and Washington received 6 inches of rain or more during the month. Much of the eastern half of the Nation received 2 inches or more of rain, with parts of Arkansas, Kentucky, Missouri, Oklahoma, and Tennessee receiving more than 6 inches of rain. Ninety-two percent of the 2020 winter wheat acreage was sown by November 10, four percentage points ahead of the previous year but equal to the 5-year average. Nationally, winter wheat emergence had advanced to 78 percent complete by November 10, two percentage points ahead of the previous year but 3 percentage points behind the 5-year average. By November 10, ninety-six percent of the Nation's sugarbeet acreage was harvested, 1 percentage point ahead of the previous year but equal to the 5-year average. Producers harvested 91 percent of the soybean acreage by November 17, equal to the previous year but 4 percentage points behind the 5-year average. Producers harvested 93 percent of the 2019 peanut acreage by November 17, eight percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. Eighty-four percent of the 2019 corn acreage was harvested by November 24, nine percentage points behind the previous year and 12 percentage points behind the 5-year average. As of November 24, ninety-seven percent of the 2019 sorghum acreage was harvested, 9 percentage points ahead of the previous year and 5 percentage points ahead of the 5-year average. Producers harvested 78 percent of the cotton acreage by November 24, ten percentage points ahead of the previous year and 4 percentage points ahead of the 5-year average. By November 24, fifty-six percent of the 2019 sunflower acreage was harvested, 20 percentage points behind the previous year and 33 percentage points behind the 5-year average. Fifty-two percent of the 2020 winter wheat acreage was reported in good to excellent condition for the week ending November 24, compared with 55 percent rated in these two categories during the same week in 2018.

## Crop Comments

**Corn:** Corn for grain production in the United States is estimated at 13.7 billion bushels, down 5 percent from the revised 2018 estimate. The average yield in the United States is estimated at 168.0 bushels per acre, 8.4 bushels below the 2018 yield of 176.4 bushels per acre.

Estimated yields in 2019 are down from the previous year across most of the Northern Plains and Eastern Corn Belt. Record yields are estimated in Arizona, Florida, Oregon, Tennessee, Washington, and West Virginia.

Corn planted area, at 89.7 million acres, was up 1 percent from the revised 2018 estimate. Area harvested for grain was estimated at 81.5 million acres, up less than 1 percent from the revised 2018 estimate.

The 2018 corn objective yield data indicated the lowest number of ears per acre since 2012 for the combined 10 objective yield States (Iowa, Illinois, Indiana, Kansas, Minnesota, Missouri, Nebraska, Ohio, South Dakota, and Wisconsin).

Corn silage production was estimated at 133 million tons for 2019, up 9 percent from the revised 2018 estimate. The United States silage yield was estimated at 20.2 tons per acre, up 0.3 ton from 2018. Area harvested for silage was estimated at 6.59 million acres, up 8 percent from the revised 2018 estimate.

Most of the country was abnormally wet in April, disrupting planting activities in a multitude of regions, including the northern and southern Plains, Mississippi Delta, and much of the Midwest and Northwest. In addition, runoff from rain and melting snow led to widespread lowland flooding, especially in the eastern Dakotas and Mississippi Valley. By April 28, only 15 percent of the Nation's intended corn acreage had been planted—the slowest early-season planting pace since 2013, when 5 percent had been sown by that date.

Rainfall continued into May causing new rounds of flooding which further hampered fieldwork throughout the month. By May 5, producers had planted 23 percent of the Nation's corn acreage, 13 percentage points behind last year and 23 percentage points behind the 5-year average. Six percent of the Nation's corn acreage had emerged by May 5, one percentage point behind last year and 7 percentage points behind the 5-year average. By May 26, producers had planted 58 percent of the Nation's corn acreage, 32 percentage points behind both last year and the 5-year average. Thirty-two percent of the Nation's corn acreage had emerged by May 26, thirty-seven percentage points behind both last year and the 5-year average.

Due to the wet field conditions throughout much of the spring planting season, producers had planted just 83 percent of the Nation's corn acreage by June 9, sixteen percentage points behind both last year and the 5-year average. Sixty-two percent of the corn acreage had emerged by June 9, thirty-one percentage points behind both last year and the 5-year average. By June 23, producers had planted 96 percent of the Nation's corn acreage, 4 percentage points behind both last year and the 5-year average. Eighty-nine percent of the corn acreage had emerged by June 23, eleven percentage points behind last year and 10 percentage points behind the 5-year average.

Eight percent of the corn acreage had reached the silking stage by July 7, twenty-six percentage points behind last year and 14 percentage points behind the 5-year average. Thirty-five percent of the Nation's corn acreage was at or beyond the silking stage by July 21, forty-three percentage points behind last year and 31 percentage points behind the 5-year average. By July 21, five percent of the Nation's corn was at or beyond the dough stage, 11 percentage points behind last year and 5 percentage points behind the 5-year average.

Seventy-eight percent of the Nation's corn acreage was at or beyond the silking stage by August 4, seventeen percentage points behind last year and 15 percentage points behind the 5-year average. By August 4, twenty-three percent of the corn was at or beyond the dough stage, 31 percentage points behind last year and 19 percentage points behind the 5-year average. By August 18, fifty-five percent of the corn was at or beyond the dough stage, 28 percentage points behind last year and 21 percentage points behind the 5-year average. By August 18, fifteen percent of the corn acreage was dented, 26 percentage points behind last year and 15 percentage points behind the 5-year average.

By September 1, eighty-one percent of the corn acreage was at or beyond the dough stage, 14 percentage points behind last year and 12 percentage points behind the 5-year average. By September 1, forty-one percent of the corn acreage was dented, 32 percentage points behind last year and 22 percentage points behind the 5-year average. All of the estimating States, except Texas, were behind their respective 5-year averages for denting progress on September 1. Eighteen percent of the 2019 corn acreage had reached maturity as of September 15, thirty-three percentage points behind last year and 21 percentage points behind the 5-year average. By September 29, eighty-eight percent of the corn acreage was dented, 12 percentage points behind last year and 10 percentage points behind the 5-year average. Forty-three percent of the 2019 corn acreage had reached maturity by September 29, forty-one percentage points behind last year and 30 percentage points behind the 5-year average. Eleven percent of the corn acreage was harvested by September 29, fourteen percentage points behind last year and 8 percentage points behind the 5-year average. Overall, 57 percent of the Nation's corn was rated in good to excellent condition as of September 29, twelve percentage points below the same time last year.

As of October 6, ninety-three percent of this year's corn acreage was dented, 7 percentage points behind last year and 6 percentage points behind the 5-year average. Fifty-eight percent of the corn acreage had matured by October 6, thirty-four percentage points behind last year and 27 percentage points behind the 5-year average. Fifteen percent of the 2019 acreage was harvested by October 6, eighteen percentage points behind last year and 12 percentage points behind the 5-year average. Eighty-six percent of the 2019 corn acreage had reached maturity as of October 20, thirteen percentage points behind last year and 11 percentage points behind the 5-year average. Thirty percent of the 2019 acreage was harvested by October 20, eighteen percentage points behind last year and 17 percentage points behind the 5-year average.

Fifty-two percent of the corn acreage was harvested by November 3, twenty-two percentage points behind last year and 23 percentage points behind the 5-year average. Eighty-four percent of the 2019 acreage was harvested by November 24, nine percentage points behind last year and 12 percentage points behind the 5-year average.

Eighty-nine percent of the acreage was harvested by December 1, eight percentage points behind last year and 9 percentage points behind the 5-year average. Harvest progress was behind the 5-year average pace by 18 percentage

points or more in Michigan, North Dakota, South Dakota, and Wisconsin. Ninety-two percent of the 2019 acreage was harvested by December 8, eight percentage points behind both last year and the 5-year average.

**Sorghum:** Grain production in 2019 was estimated at 341 million bushels, down 6 percent from the 2018 total. Planted area for 2019 was estimated at a record low 5.27 million acres, down 7 percent from the previous year. Area harvested for grain, at 4.68 million acres, was down 8 percent from 2018. Grain yield was estimated at 73.0 bushels per acre, up 0.9 bushel from 2018.

Silage production was estimated at 4.02 million tons, up 21 percent from 2018. Area harvested for silage was estimated at 339,000 acres, up 28 percent from the previous year. Silage yield averaged 11.9 tons per acre, down 0.7 ton per acre from 2018.

Beginning in 2019, sorghum estimates were discontinued in Arkansas, Georgia, Illinois, Louisiana, Mississippi, Missouri, New Mexico, and North Carolina.

**Oats:** Production in 2019 was estimated at 53.1 million bushels, down 1 percent from 2018 for comparable States. Yield was estimated at 64.3 bushels per acre, down 1.0 bushel from the previous year for comparable States. Harvested area, at 826,000 acres, was less than 1 percent above last year for comparable States. Record low acres were harvested in Arkansas, California, Georgia, Illinois, Maine, Missouri, and North Carolina.

Record high yields were estimated in Idaho and North Dakota.

Nationally, oat producers seeded 50 percent of the 2019 acreage by May 5, four percentage points behind the previous year and 22 percentage points behind the 5-year average. Fifty-three percent of the oat acreage had emerged by May 19, eleven percentage points behind the previous year and 23 percentage points behind the 5-year average. Heading of the oat acreage advanced to 58 percent complete by June 30, twenty-two percentage points behind the previous year and 23 percentage points behind the 5-year average. Oat producers harvested 32 percent of the acreage by August 4, seventeen percentage points behind both last year and the 5-year average. At that time, harvest progress was at or behind the 5-year average in 8 of the 9 weekly *Crop Progress* estimating States. Eighty-four percent of the Nation's oat acreage was harvested by September 1, nine percentage points behind the previous year and 7 percentage points behind the 5-year average.

Beginning in 2019, oat estimates were discontinued in Alabama, Colorado, South Carolina, Washington, and Wyoming.

**Barley:** Production was estimated at 170 million bushels, up 10 percent from the 2018 total of 154 million bushels. The average yield, at 77.7 bushels per acre, was up 0.2 bushel from the previous year. Producers seeded 2.72 million acres in 2019, up 7 percent from 2018. Harvested area, at 2.18 million acres, was up 10 percent from 2018.

Record high yields were estimated in Oregon, Utah, and Wyoming.

Two percent of the Nation's barley acreage was planted by April 7, one percentage point behind the previous year and 7 percentage points behind the 5-year average. Nationwide, barley producers seeded 28 percent of the Nation's acreage by April 28, four percentage points ahead of the previous year but 13 percentage points behind the 5-year average. By April 28, emergence was evident in 6 percent of the Nation's barley acreage, equal to the previous year but 9 percentage points behind the 5-year average. Nationally, 94 percent of the barley acreage was sown by June 2, two percentage points behind the previous year and 3 percentage points behind the 5-year average. Seventy-three percent of the barley acreage emerged by June 2, seven percentage points behind the previous year and 12 percentage points behind the 5-year average. Heading of the Nation's barley acreage advanced to 55 percent complete by July 7, nineteen percentage points behind the previous year and 20 percentage points behind the 5-year average. By August 4, barley producers harvested 3 percent of the Nation's acreage, 11 percentage points behind the previous year and 15 percentage points behind the 5-year average. Overall, 74 percent of the barley acreage was reported in good to excellent condition on August 11, compared with 81 percent at the same time last year. By September 22, ninety-two percent of the barley acreage was harvested, 7 percentage points behind both the previous year and 5-year average.

**All wheat:** Production totaled 1.92 billion bushels in 2019, up 2 percent from the 2018 total of 1.89 billion bushels. Area harvested for grain totaled 37.2 million acres, down 6 percent from the previous year. The United States yield was estimated at 51.7 bushels per acre, up 4.1 bushels from the previous year. The levels of production and changes from 2018 by type were: winter wheat, 1.30 billion bushels, up 10 percent; other spring wheat, 562 million bushels, down 10 percent; and Durum wheat, 53.8 million bushels, down 31 percent.

**Winter wheat:** Winter wheat production for 2019 totaled 1.30 billion bushels, up 10 percent from the 2018 total of 1.18 billion bushels. The United States yield, at 53.6 bushels per acre, was up 5.7 bushels from 2018. Area harvested for grain was estimated at a record low 24.3 million acres, down 2 percent from the previous year. Record high yields were estimated in Colorado, Maryland, Montana, Nebraska, New Jersey, Oklahoma, Pennsylvania, and Wyoming for 2019.

Compared with 2018, harvested acreage was up 1 percent in the major Hard Red Winter (HRW) growing States, the primary winter wheat producing area. As a result of the increased harvested acreage and higher yields in 2019, HRW production totaled 833 million bushels, up 26 percent from 2018.

In the Soft Red Winter (SRW) growing area, planted and harvested acreage decreased from 2018. SRW production totaled 239 million bushels, down 16 percent from 2018.

White winter wheat production totaled 232 million bushels, down 2 percent from the previous year. Harvested acreage in the Pacific Northwest (Idaho, Oregon, and Washington) was up 3 percent from 2018. Yields were up in Oregon but down in Idaho and Washington compared with the previous year.

Seeding of the 2019 winter wheat acreage began in early September with 5 percent of the intended 2019 acreage sown by September 9, equal to both the previous year and the 5-year average. Winter wheat planting progress was most advanced in the Pacific Northwest as of September 9. By the end of September, producers had sown 43 percent of the Nation's winter wheat acreage, 9 percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. Nationwide, 14 percent of the winter wheat crop was emerged by September 30, four percentage points ahead of the previous year but unchanged from the 5-year average. Emergence was at or behind the 5-year average pace in 11 of the 18 weekly *Crop Progress* estimating States.

By October 7, producers had sown 57 percent of the Nation's winter wheat acreage, 11 percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. By October 28, producers had sown 78 percent of the Nation's winter wheat acreage, 5 percentage points behind the previous year and 7 percentage points behind the 5-year average. Winter wheat planting was nearing completion in 6 of the 18 weekly *Crop Progress* estimating States at that time. Nationally, emergence was 63 percent complete by October 28, unchanged from the previous year but 4 percentage points behind the 5-year average. Overall, 53 percent of the 2019 winter wheat acreage was reported in good to excellent condition on October 28, compared with 52 percent at the same time the previous year.

By November 4, producers had sown 84 percent of the Nation's winter wheat acreage, 6 percentage points behind both the previous year and the 5-year average. Nationally, emergence was 70 percent complete by November 4, four percentage points behind the previous year and 7 percentage points behind the 5-year average. Overall, 51 percent of the 2019 winter wheat acreage was rated in good to excellent condition on November 4, 2018, four percentage points below the same time the previous year. By November 25, winter wheat planting was complete or nearing completion in all weekly *Crop Progress* estimating States except Arkansas, California, Missouri, and North Carolina, with 95 percent of the Nation's winter wheat acreage sown, 4 percentage points behind both the previous year and the 5-year average. Nationally, winter wheat emergence was 86 percent complete by November 25, five percentage points behind the previous year and 6 percentage points behind the 5-year average. Overall, 55 percent of the 2019 winter wheat acreage was rated in good to excellent condition on November 25, five percentage points above the same time the previous year.

On March 31, fifty-six percent of the 2019 winter wheat acreage was reported in good to excellent condition, compared with 32 percent at the same time last year.

By April 7, three percent of the Nation's winter wheat acreage had reached the headed stage, equal to last year but 1 percentage point behind the 5-year average. Sixty percent of the 2019 winter wheat acres was reported in good to

excellent condition as of April 7, thirty percentage points above the same time last year. In Kansas, the largest winter wheat-producing State, 58 percent of the acreage was rated in good to excellent condition at that time. In Texas, where areas of the State had been abnormally to moderately dry, 47 percent of the winter wheat acreage was in rated good to excellent condition.

By May 12, forty-two percent of the Nation's winter wheat acreage had reached the headed stage, 1 percentage point behind last year and 12 percentage points behind the 5-year average. For the week ending May 12, sixty-four percent of the 2019 winter wheat acreage was reported in good to excellent condition, 28 percentage points above the same time last year. In Kansas, 56 percent of the winter wheat crop was rated in good to excellent condition at that time, a decrease of 2 percentage point from the previous week.

As of June 2, seventy-six percent of the Nation's winter wheat acreage had reached the headed stage, 6 percentage points behind last year and 8 percentage points behind the 5-year average. Heading progress was behind by 30 percentage points or more compared with the 5-year average in Michigan, Nebraska, and South Dakota at that time. On June 2, sixty-four percent of the 2019 winter wheat acreage was reported in good to excellent condition, 27 percentage points above the same time last year. Harvest of the 2019 acreage began in early June with eight percent harvested by June 16, seventeen percentage points behind last year and 12 percentage points behind the 5-year average. Harvest was at or behind the 5-year average in all of the weekly *Crop Progress* estimating States at that time. By June 30, ninety-seven percent of the Nation's winter wheat acreage had reached the headed stage, 3 percentage points behind both last year and the 5-year average. Twenty-eight percent of Kansas's winter wheat acreage was harvested by June 30, forty percentage points behind last year and 33 percentage points behind the 5-year average. On June 30, sixty-three percent of the 2019 winter wheat acreage was reported in good to excellent condition, 26 percentage points above the same time last year.

Forty-seven percent of the 2019 winter wheat acreage was harvested by July 7, fourteen percentage points behind both last year and the 5-year average. Eighty-two percent of the 2019 winter wheat acreage was harvested by August 4, seven percentage points behind last year and 10 percentage points behind the 5-year average. Winter wheat harvest progress continued with advances of 16 percentage points or more reported in Michigan, Montana, Nebraska, Oregon, South Dakota, and Washington during the week ending August 4.

Harvest of the 2019 acreage was wrapping up by late August. Ninety-six percent was harvested by August 25, four percentage points behind last year and 3 percentage points behind the 5-year average. Winter wheat harvest progress was complete or nearing completion in all weekly *Crop Progress* estimating States except Idaho, Montana, South Dakota, and Washington.

Beginning in 2019, winter wheat estimates were discontinued in Arizona, Florida, Iowa, Louisiana, Minnesota, Nevada, and West Virginia.

**Other spring wheat:** Production for 2019 was estimated at 562 million bushels, down 10 percent from the 2018 total of 623 million bushels. Harvested area totaled 11.7 million acres, down 10 percent from 2018. The United States yield was estimated at 48.2 bushels per acre, down 0.1 bushel from the 2018 record high of 48.3 bushels per acre. A record high yield was estimated in North Dakota for 2019. Of the total production, 552 million bushels were Hard Red Spring wheat, down 11 percent from the 2018 total.

Seeding of the 2019 spring wheat acreage began in early April. Spring wheat planting progress was behind the 5-year average pace in all 6 weekly *Crop Progress* estimating States and planting had not yet begun in the Northern Plains as of April 7. By April 28, thirteen percent of the spring wheat acreage was seeded, 4 percentage points ahead of last year but 20 percentage points behind the 5-year average. Spring wheat planting progress was behind the 5-year average pace in all weekly *Crop Progress* estimating States at that time.

By May 12, forty-five percent of the spring wheat acreage was seeded, 9 percentage points behind last year and 22 percentage points behind the 5-year average. Spring wheat planting progress was behind the 5-year average pace in all weekly *Crop Progress* estimating States. By May 12, ten percent of the Nation's spring wheat acreage had emerged, 3 percentage points behind the previous year and 24 percentage points behind the 5-year average.

By June 2, ninety-three percent of the spring wheat acreage was seeded, 3 percentage points behind both last year and the 5-year average. South Dakota was the furthest behind compared with the State's 5-year average pace. Sixty-nine percent of the Nation's spring wheat acreage had emerged by June 2, nine percentage points behind the previous year and 15 percentage points behind the 5-year average. On June 2, eighty-three percent of the Nation's spring wheat acreage was rated in good to excellent condition, 13 percentage points above the same time last year.

Fifty-six percent of the Nation's spring wheat acres had reached the headed stage by July 7, twenty-two percentage points behind last year and 17 percentage points behind the 5-year average. Based on conditions as of July 7, seventy-eight percent of the Nation's spring wheat acreage was rated in good to excellent condition, 3 percentage points above the previous week but 2 percentage points below the same time last year.

Harvest of the 2019 spring wheat acreage began during the week ending August 4. At that time, two percent of the spring wheat was harvested, 10 percentage points behind last year and 12 percentage points behind the 5-year average. Harvest progress was behind the 5-year average in all 6 weekly *Crop Progress* estimating States. On August 4, seventy-three percent of the Nation's spring wheat acreage was rated in good to excellent condition, 1 percentage point below the same time last year.

As of September 1, fifty-five percent of the spring wheat acreage was harvested, 31 percentage points behind last year and 23 percentage points behind the 5-year average. On September 1, sixty-seven percent of the Nation's spring wheat acreage was rated in good to excellent condition, 7 percentage points below the same time last year. By September 22, eighty-seven percent of the spring wheat acreage was harvested, 12 percentage points behind last year and 10 percentage points behind the 5-year average. Spring wheat harvest progress was complete or nearing completion in all weekly *Crop Progress* estimating States, except Montana and North Dakota.

By October 6, ninety-one percent of the spring wheat acreage was harvested, 9 percentage points behind last year and 8 percentage points behind the 5-year average. By October 20, ninety-six percent of the spring wheat acreage was harvested, 4 percentage points behind both last year and the 5-year average. Spring wheat harvest progress was complete or nearing completion in all estimating States, except Montana which was 92 percent complete by October 20.

Beginning in 2019, spring wheat estimates were discontinued in Colorado, Nevada, Oregon, and Utah.

**Durum wheat:** Production for 2019 was estimated at 53.8 million bushels, down 31 percent from the 2018 total of 78.0 million bushels. Area harvested for grain totaled 1.18 million acres, down 40 percent from the previous year. The United States yield was estimated at a record high 45.7 bushels per acre, up 6.2 bushels from the 2018 yield. Record high yields were estimated in Montana and North Dakota for 2019. Production in North Dakota, the largest Durum wheat-producing State, was down 40 percent from 2018. Declines in production are attributed to declines in harvested acres across the Nation. Harvest began in the two major Durum-wheat producing States of Montana and North Dakota in early August. Harvest in 97 percent complete in North Dakota by November 3 and 95 percent complete in Montana by November 17.

Beginning in 2019, Durum wheat estimates were discontinued in South Dakota.

**Rice:** Production in 2019 totaled 185 million cwt, down 17 percent from the 2018 total. Planted area for 2019 was estimated at 2.54 million acres, down 14 percent from 2018. Area harvested, at 2.47 million acres, was down 15 percent from the previous crop year. The average yield for all rice for the Nation was estimated at 7,471 pounds per acre, down 221 pounds from the 2018 average yield of 7,692 pounds per acre.

Yields decreased from the previous year in all States except Mississippi.

**Rye:** Production for 2019 was estimated at 10.6 million bushels, up 41 percent from the 2018 total for comparable States. Harvested area totaled 310,000 acres, up 65,000 acres from 2018 for comparable States. The United States yield, at 34.3 bushels per acre, was up 3.5 bushels from the previous year for comparable States.

Beginning in 2019, rye estimates were discontinued in Maine, Maryland, New Jersey, South Carolina, and Virginia.

**Proso millet:** Production of proso millet in 2019 totaled 16.6 million bushels, up 43 percent from the revised 2018 production of 11.6 million bushels. Area planted to proso millet in the United States was estimated at 506,000 acres, up 63,000 acres from 2018. Area harvested in the United States, at 465,000 acres, was up 75,000 acres from the revised 2018 harvested estimate. The average yield for 2018 was estimated at 35.7 bushels per acre, up 6.0 bushels from 2018.

**All hay:** Production of all dry hay for 2019 was estimated at 128.9 million tons, up 4 percent from the 2018 total. Area harvested was estimated at 52.4 million acres, down 1 percent from 2018. The average yield, at 2.46 tons per acre, was up 0.12 ton from the previous year.

Precipitation was generally up across the Nation encouraging forage growth resulting in yield increases over last year.

**Alfalfa and alfalfa mixtures:** Production in 2019 was estimated at 54.9 million tons, up 4 percent from the 2018 total. Harvested area, at 16.7 million acres, was 1 percent above the previous year. Average yield was estimated at 3.28 tons per acre, up 0.11 ton from 2018.

Record high yields were estimated in Idaho and Nevada.

**All other hay:** Production in 2019 totaled 74.0 million tons, up 4 percent from the 2018 total. Harvested area, at 35.7 million acres, was down 2 percent from the previous year. Average yield was estimated at 2.07 tons per acre, up 0.11 ton from 2018.

Record high yields were estimated in California, Kansas, Maine, Missouri, Montana, Nevada, and Utah.

**Forage:** In 2019, seventeen States were included in the forage estimation program, which measures annual production of forage crops. Haylage and greenchop production was converted to 13 percent moisture and combined with dry hay production to derive the total forage production. The total 2019 all haylage and greenchop production for the 17 States in the forage program was 29.0 million tons, of which 18.3 million tons were from alfalfa and alfalfa mixtures. The 17 State total for all forage production was 83.2 million tons. Of this total, 42.3 million tons were produced from alfalfa and alfalfa mixtures.

**New seedings of alfalfa and alfalfa mixtures:** Growers seeded 2.47 million acres of alfalfa and alfalfa mixtures during 2019, up 11 percent from 2018. Wisconsin had a significant increase in alfalfa seedings as a result of winterkill from the previous winter. New seedings of alfalfa and alfalfa mixtures are normally harvested for the first time in the year following planting.

**Peanuts:** Production was estimated at 5.50 billion pounds, up slightly from 2018. Planted area was estimated at 1.43 million acres, up less than 1 percent from 2018. Harvested area was estimated at 1.39 million acres, up 1 percent from 2018. The average yield was estimated at 3,949 pounds per acre, down 52 pounds from 2018.

Record high production was estimated in Arkansas. Record high yields were estimated in North Carolina, Oklahoma, and Virginia.

**Canola:** Production in 2019 was estimated at 3.40 billion pounds, down 6 percent from 2018. Despite the decline from last year, production for the Nation represents the second largest total on record. The average yield, at 1,781 pounds per acre, is down 80 pounds from last year's average yield but is the fourth highest average yield on record for the Nation. Planted area was estimated at 2.04 million acres, 2 percent above the previous year's acreage. Harvested area, at 1.91 million acres, was down 2 percent from 2018.

Production in North Dakota, the leading canola-producing State, was estimated at 2.90 billion pounds. This represents the second largest production for North Dakota on record, trailing last year's record production by 6 percent. Planted and harvested area in North Dakota were both record highs.

The average yield in Minnesota was the highest on record at 2,270 pounds per acre. In Washington, planted area,

harvested area, and production were all record highs.

Beginning in 2019, canola estimates were discontinued in Idaho and Oregon.

**Sunflower:** The 2019 sunflower production totaled 1.94 billion pounds, down 8 percent from 2018. The United States average yield per acre of 1,562 pounds decreased 169 pounds from 2018. Planted area, at 1.35 million acres, was 4 percent above the previous year. Area harvested increased 2 percent from 2018 to 1.24 million acres.

South Dakota, the leading sunflower-producing State during 2019, produced 832 million pounds, a decrease of 14 percent from 2018. Compared with 2018, planted area in South Dakota decreased 7 percent and yield decreased 146 pounds to 1,694 pounds per acre. Meanwhile, production in North Dakota increased slightly primarily due to planted acreage, which increased 23 percent from the previous year. The average yield in North Dakota decreased 242 pounds from 2018 to 1,518 pounds per acre.

United States production of oil-type sunflower varieties, at 1.75 billion pounds, decreased 7 percent from 2018. Compared with the previous year, harvested acres were up 2 percent but the average yield decreased by 163 pounds to 1,562 pounds per acre.

Production of non-oil sunflower varieties was estimated at 197 million pounds, a decrease of 10 percent from 2018. Area harvested, at 126,500 acres, was up 3 percent from 2018. The average yield decreased by 223 pounds from 2018 to 1,558 pounds per acre.

Harvest of sunflowers began in early October and progressed mostly behind normal throughout October in the Dakotas. As of October 27, seventeen percent of the crop was harvested, 14 percentage points behind the previous year and 28 percentage points behind the 5-year average. By November 24, harvest progress had reached 56 percent complete. Nationally, 20 percentage points behind the previous year and 33 percentage points behind the 5-year average.

**Soybeans:** Production in 2019 totaled 3.56 billion bushels, down 20 percent from 2018. The average yield was estimated at 47.4 bushels per acre, 3.2 bushels below 2018. Planted area for the Nation, at 76.1 million acres, was down 15 percent from the 2018 planted acreage. Soybean growers harvested 75.0 million acres, down 14 percent from last year.

A record high yield occurred in Pennsylvania.

The 2019 soybean objective yield survey data indicated that final average pod counts were lower than last year in the combined eleven objective yield States. Compared with final counts for 2018, pod counts were down in 10 of the 11 published States. A decrease of more than 400 pods per 18 square feet from 2018's final pod count occurred in Illinois, Indiana, Iowa, Nebraska, and Ohio.

Nationwide, planting was underway by the start of May in 16 of the 18 major soybean-producing States. Six percent of the acreage was planted by May 5, eight percentage points behind both last year and the 5-year average. Heavy rains in the Plains and Midwest lead to a record-slow planting pace for soybeans with 39 percent of the acreage planted by June 2, forty percentage points behind the 5-year average. Nationally, 55 percent of the soybean acreage was emerged by June 16, thirty-four percentage points behind last year and 29 percentage points behind the 5-year average. Soybean emergence in Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Ohio, South Dakota, and Wisconsin was at least 20 percentage points behind the 5-year average as of June 16. By July 7, ten percent of the soybean acreage was blooming, 34 percentage points behind last year and 22 percentage points behind the 5-year average. Twenty-two percent of the Nation's soybeans were blooming by July 14, forty percentage points behind last year and 27 percentage points behind the 5-year average. By July 21, seven percent of the Nation's soybeans were at or beyond the pod-setting stage, 34 percentage points behind last year and 21 percentage points behind the 5-year average. Fifty-seven percent of the soybeans were at or beyond the blooming stage by July 28, twenty-eight percentage points behind last year and 22 percentage points behind the 5-year average. By July 28, twenty-one percent of the Nation's soybeans were setting pods, 37 percentage points behind last year and 24 percentage points behind the 5-year average.

As of August 4, thirty-seven percent of the soybean acreage was setting pods, 36 percentage points behind last year and 26 percentage points behind the 5-year average. Sixty-eight percent of the acreage was at or beyond the pod setting stage on August 18, twenty-two percentage points behind last year and 17 percentage points behind the 5-year average. By September 1, eighty-six percent of the soybean acreage was setting pods, 12 percentage points behind last year and 10 percentage points behind the 5-year average.

As of September 29, fifty-five percent of the United States soybean acreage was at or beyond the leaf dropping stage, 26 percentage points behind last year and 21 percentage points behind the 5-year average. Soybean harvest was 7 percent complete as of September 29, fifteen percentage points behind last year and 13 percentage points behind the 5-year average. At that time, harvest progress was at or behind the respective State 5-year average pace in 15 of the 18 estimating States.

By October 6, the soybean crop was 14 percent harvested, 17 percentage points behind last year and 20 percentage points behind the 5-year average. As of November 3, harvest was 75 percent complete Nationwide, 6 percentage points behind last year and 12 percent behind the 5-year average. By November 3, harvest progress was behind the respective State 5-year average pace in Arkansas, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Mississippi, Missouri, North Dakota, Ohio, South Dakota, and Wisconsin.

Beginning in 2019, soybean estimates were discontinued in Florida and West Virginia.

**Flaxseed:** Production of flaxseed in 2019 totaled 6.40 million bushels, up 43 percent from the previous year. Harvested area totaled 319,000 acres in 2019, up 61 percent from the previous year. Harvested acreage in North Dakota, the largest flaxseed-producing State, was estimated at 230,000 acres, up 46 percent from 2018. The average United States yield for 2019, at 22.0 bushels per acre, was down 2.6 bushels from 2018.

Beginning in 2019, flaxseed estimates were discontinued in South Dakota.

**Safflower:** Production of safflower in 2019, at 194 million pounds, was down 14 percent from 2018 in comparable States. Growers planted 165,800 acres in 2019, an increase of 5 percent from 2018 in comparable States. Harvested area, at 152,700 acres, was up 4 percent from the previous year for comparable States. Average yield, at 1,272 pounds per acre, a decline of 266 pounds from the 2018 average yield for comparable States of 1,538 pounds per acre.

Record high yields were estimated in Idaho and Utah.

Beginning in 2019, safflower estimates were discontinued in North Dakota.

**Other Oilseeds:** Mustard seed production for 2019 decreased 13 percent from the previous year to 63.6 million pounds. This represents the sixth largest production for the Nation on record. Planted area, at 98,000 acres, was down just 4,500 acres from 2018. Harvested area, at 90,000 acres, was down 8 percent, or 7,800 acres, from last year. Planted and harvested acreage both represented the seventh highest area for the Nation since records began in 1991. The average yield, at 706 pounds per acre, was 43 pounds below the 2018 average yield.

Beginning in 2019, estimates for mustard seed were discontinued in Oregon and Washington.

Rapeseed production was estimated at 22.5 million pounds, up 173 percent from last year's production level and the represents the largest production for the Nation since records began in 1991. Growers planted 11,300 acres of rapeseed in 2019, an increase of 5,600 acres from 2018. Harvested area, at 10,400 acres, was up 5,000 acres from last year. The average yield in 2019 was 2,160 pounds per acre, an increase of 636 pounds from 2018 and is the second highest yield on record.

Beginning in 2019, estimates for rapeseed were discontinued in Montana, North Dakota, Oregon, and Washington. Estimates began for rapeseed in 2019 for Delaware, Kentucky, Pennsylvania, South Carolina, Tennessee, and Virginia.

**Cotton:** Upland cotton production was estimated at 19.4 million 480-pound bales, up 10 percent from the previous year. The United States yield for Upland cotton is estimated at 803 pounds per acre, down 44 pounds from 2018. Upland planted area, estimated at 13.5 million acres, was down 2 percent from last year. Harvested area, at 11.6 million acres, was up 16 percent from the previous year. In Kansas, planted and harvested area were at record highs. Record high yields were estimated in New Mexico and Tennessee for 2019. In Missouri, production was at an all-time high.

In the Southeast States (Alabama, Florida, Georgia, North Carolina, South Carolina, and Virginia), planting was completed by the end of June. The crop was rated in mostly fair to good condition throughout the growing season. Hot and dry weather would cause variable yields for the dryland cotton.

In the Delta region, a rainy planting season was complete by the end of June. Some areas within the region struggled with excessive moisture throughout the season. The crop progressed slower than usual but the harvest period was shorter than last year.

In Texas, rainfall caused planting delays. Overall, many growers reported having a very disappointing crop. The crop started out looking very promising but a very hot summer caused the dryland portion of the crop to struggle since the heat units accumulated very quickly. Many growers had to make decisions about harvesting dryland acreage.

American Pima producers planted 229,800 acres in 2019, down 8 percent from 2018. Harvested area, at 224,500 acres, was down 10 percent from the previous year. Production was estimated at 722 thousand 480-pound bales, down 10 percent from 2018. The United States yield was estimated at 1,544 pounds per acre, down 1 pound from the previous year.

Ginnings totaled 17,484,150 running bales prior to January 1.

**Cottonseed:** Production for 2019, based on a 3-year average lint-seed ratio, is expected to total 6.23 million tons, up 11 percent from last year.

**Tobacco:** United States all tobacco production for 2019 was estimated at 468 million pounds, down 12 percent from the previous year. Growers harvested a record low 227,120 acres, down 22 percent from a year earlier. Yield per acre averaged 2,060 pounds, up 230 pounds per acre from 2018.

Flue-cured tobacco production was estimated at 297 million pounds, down 12 percent from the previous year. Harvested acres totaled 149,300 in 2019, twenty-five percent below a year earlier. Average yield, at 1,990 pounds per acre, was up 278 pounds from 2018. Burley production totaled 92.8 million pounds, down 8 percent from the previous year. Growers harvested 48,600 acres, down 20 percent from 2018. Reported yields averaged 1,910 pounds per acre, up 265 pounds from a year earlier. Record low harvested acres and production were estimated for flue-cured tobacco and burley tobacco.

**Sugarbeets:** Production for 2019 was estimated at 28.6 million tons, down 14 percent from the previous year's revised production. Growers in the 11 major sugarbeet-producing States planted 1.13 million acres, up 2 percent from the 2018 revised area. Harvested area, at 979,300 acres, was down 11 percent from the previous year. Estimated yield, at 29.2 tons per acre, was down 1.2 tons from last year.

Harvest progress in Minnesota and North Dakota was delayed in October due to excessive rainfall. This combined with freezing temperatures resulted in some abandoned fields. Early snowstorms in Colorado, Montana, Nebraska, and Wyoming negatively impacted yield. Michigan's harvest was completed the second week of November despite cold and snowy conditions.

**Sugarcane:** Production of sugarcane for sugar and seed in 2019 was estimated at 31.8 million tons, of which 30.2 million tons were utilized for sugar and 1.63 million tons for seed. Total production for sugar and seed was down 8 percent from 2018. Sugarcane producers harvested 912,000 acres for sugar and seed in 2019, up 1 percent from the previous year. Yield for sugar and seed was estimated at 34.9 tons per acre, down 3.5 tons from 2018.

**Dry edible beans:** United States dry edible bean production was estimated at 20.8 million cwt for 2019, down 16 percent from the previous year for comparable States. Planted area was estimated at 1.29 million acres, up 7 percent from 2018 for comparable States. Harvested area was estimated at 1.18 million acres, up 1 percent from the previous year for comparable States. The average United States yield for dry edible beans for the 2019 season is 1,769 pounds per acre.

Beginning in 2019, dry edible bean estimates were discontinued in Montana and Texas. Also beginning in 2019, estimates no longer include chickpeas.

**Lentils:** Production of lentils is estimated at 5.39 million cwt, down 36 percent from a year ago. Planted area, at 486,000 acres, is down 38 percent from last year, while harvested acreage, at 431,000 acres, is down 40 percent from 2018. The average yield is expected to be 1,250 pounds per acre, up 79 pounds from last year. This is the lowest production on record since 2015.

In Montana, planting began late as spring precipitation persisted and many fields had standing water until the final week of May. Harvest reached 95 percent completed by the week ending September 29. Hail and wet conditions were reported throughout the season. In North Dakota, harvest started in early to mid-August and by October 20, harvest was 95 percent complete.

**Wrinkled seed peas:** Beginning in 2019, wrinkled seed peas were included with dry edible peas.

**Dry edible peas:** Production of dry edible peas was estimated at 22.3 million cwt, up 37 percent for comparable States from last year. Planted area, at 1.10 million acres, and harvested area, at 1.05 million acres, increased by 26 percent and 28 percent, respectively, for comparable States. The average United States yield is expected to total 2,124 pounds per acre, up 143 pounds from 2018 for the comparable States. This is the highest yield on record since 2004.

In Montana, plantings began late as spring precipitation persisted and many fields had standing water until the final week of May. Harvest reached 96 percent complete the week ending September 29. Comparatively, in 2018, harvest reached 95 percent complete the week ending September 8.

In North Dakota, planting was slightly delayed this year due to cold and wet spring weather. Crop development lagged behind both last year's and the 5-year average pace during the entire growing season. As of September 22, ninety-six percent of the crop was harvested.

Beginning in 2019, estimates were discontinued in Oregon.

**Austrian winter peas:** Beginning in 2019, Austrian winter peas were included with dry edible peas.

**Potatoes:** Production in 2019 was estimated at 423 million cwt, down 2 percent from the 2018 crop for comparable States. The average yield, at 449 cwt per acre, was down 5 cwt for comparable States from the previous year. Planted acres, at 968,300 acres, was up 1 percent from last year for comparable States. Harvested area, at 942,200 acres, was down 1 percent for comparable States from the previous year.

Idaho's good weather in May kept planting on schedule. By the end of September, heavy moisture and cooler temperatures throughout the month delayed harvest. Early freeze and additional moisture raised quality concerns. Growers were able to complete harvest in October. Washington planting was delayed but was completed by the first week of June. Excessive rain and hail storms affected some fields in western Washington, while the eastern part of the State recorded temperatures in the triple digits during the growing season. Even with planting lagging behind normal, harvest was only slightly behind schedule in August. Harvest was 95 percent complete as of November 3. North Dakota's harvest began in September. Prolonged wet conditions during late September and early October, in combination with cold conditions during the remainder of October, hampered harvest progress. Potato harvest was only 70 percent complete by October 27, in contrast to the previous year where harvest was virtually complete by the same date.

Beginning in 2019, potato estimates were discontinued in Alaska, Illinois, Kansas, Maryland, Missouri, Montana, New Jersey, New York, North Carolina, and Virginia.

**Sweet potatoes:** Beginning in 2019, estimates will be published in *Vegetable Summary* released in February 2020.

Beginning in 2019, sweet potato estimates were discontinued in Arkansas, Florida, and Louisiana.

**Peppermint oil:** Production in 2019 totaled 5.45 million pounds, up 1 percent from the previous year. Harvested area was estimated at 52,400 acres, down 10 percent from 2018. Average yield was estimated at 104 pounds of oil per acre, up 12 pounds from a year earlier.

Beginning in 2019, peppermint oil estimates were discontinued in California and Wisconsin.

**Spearmint oil:** Production totaled 2.41 million pounds in 2019, down 6 percent from the previous year. Harvested area was estimated at 18,500 acres, down 2,300 acres from a year earlier. The average yield was estimated at 130 pounds of oil per acre, up 6 pounds from 2018.

Beginning in 2019, spearmint oil estimates were discontinued in Michigan.

**Hops:** Production for Idaho, Oregon, and Washington in 2019 totaled a record high 112 million pounds, up 5 percent from the 2018 crop of 107 million pounds. Combined area harvested for Idaho, Oregon, and Washington in 2019 totaled a record high 56,544 acres, up 3 percent from the 2018 level of 55,035 acres. Harvested acreage increased in Idaho and Washington but declined in Oregon. The United States hop yield, at 1,981 pounds per acre, was up 38 pounds from a year ago.

Washington produced 73 percent of the United States hop crop for 2019; while Idaho accounted for 15 percent and Oregon accounted for the remaining 12 percent. Citra<sup>R</sup>, Cascade, Zeus, Simcoe<sup>R</sup>, C/T/Z<sup>R</sup>, and Mosaic<sup>R</sup> were the six leading varieties in Washington, accounting for 50 percent of the State's hop production. In Idaho, C/T/Z<sup>R</sup>, Mosaic<sup>R</sup>, Chinook, Zeus, Citra<sup>R</sup>, and Cascade were the major varieties, accounting for 65 percent of the State's hop production. In Oregon, Nugget, Cascade, Citra<sup>R</sup>, and Willamette were the major varieties, accounting for 50 percent of the State's hop production.

**Maple syrup:** The 2019 United States maple syrup production totaled 4.24 million gallons, up 1 percent from the revised previous year. The number of taps totaled 13.3 million, down 4 percent from the 2018 total. Yield per tap was 0.318 gallon, up 0.015 gallon from the previous season.

Beginning in 2019, maple syrup estimates were discontinued in Connecticut, Indiana, Massachusetts, Minnesota, Ohio, and West Virginia.

**Taro:** Beginning in 2019, taro estimates were discontinued.

## Statistical Methodology

**Survey procedures:** The estimates in this report are based primarily on surveys conducted the first two weeks of December. The December Agricultural Survey (DAS) is a probability survey that includes a sample of approximately 79,000 farm operators selected from a list of producers that ensures all operations in the United States have a chance to be selected. Data from operators was collected by mail, internet, telephone, or personal interview to obtain information on crop acreage, yield and production for the 2019 crop year.

**Estimating procedures:** National and State level objective yield and farm operator reported data (DAS) were reviewed for reasonableness and consistency with historical estimates. The survey data were also reviewed considering weather patterns and crop progress compared with previous years. Each Regional Field Office submits an estimate and written analysis for their State to the Agricultural Statistics Board (ASB). The ASB uses the survey data, administrative data, and the State analysis to prepare the estimates published in this report.

**Revision policy:** Estimates contained in this report may be revised the following year, if new information is available that would justify a change. Estimates will also be reviewed after data for the 5-year Census of Agriculture are available. No revisions will be made after that date.

**Reliability:** The surveys used to make the acreage, yield, and production estimates contained in this report are subject to sampling and non-sampling type errors that are common to all surveys. Reliability of the objective yield and farmer survey must be treated separately because the survey designs for the two surveys are different. The objective yield indications (corn, cotton, and soybeans) are subject to sampling variability because all acres of a given commodity are not included in the sample.

The farm operator survey indications are also subject to sampling variability because not all operations with commodities of interest are included in the sample. This variability, as measured by the relative standard error at the National level, is approximately 1.3 for corn, 2.2 for Upland cotton and 1.2 for soybeans. This means that chances are approximately 95 out of 100 that survey estimates for production will be within plus or minus 2.6 percent for corn, 4.4 percent for Upland cotton, and 2.4 percent for soybeans.

Survey indications are also subject to non-sampling errors such as omission, duplication, imputation for missing data, and mistakes in reporting, recording, and processing the data. These errors cannot be measured directly, but they are minimized through rigid quality controls in the data collection process and a careful review of all reported data for consistency and reasonableness.

## USDA, National Agricultural Statistics Service Information Contacts

Listed below are the commodity statisticians in the Crops Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to [nass@usda.gov](mailto:nass@usda.gov)

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
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| Travis Thorson, Head, Field Crops Section .....                                                                                                                                                 | (202) 720-7369 |
| David Colwell – Current Agricultural Industrial Reports .....                                                                                                                                   | (202) 720-3338 |
| Chris Hawthorn – Corn, Flaxseed, Proso Millet .....                                                                                                                                             | (202) 720-9526 |
| James Johanson – County Estimates, Hay .....                                                                                                                                                    | (202) 690-8533 |
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| Irwin Anolik – Crop Weather, Barley .....                                                                                                                                                       | (202) 720-7621 |
| Jean Porter – Rye, Wheat .....                                                                                                                                                                  | (202) 720-8068 |
| Chris Singh – Cotton, Cotton Ginnings, Sorghum .....                                                                                                                                            | (202) 720-5944 |
| Travis Thorson – Sunflower, Other Oilseeds .....                                                                                                                                                | (202) 720-7369 |
| Jorge Garcia-Pratts, Head, Fruits, Vegetables and Special Crops Section .....                                                                                                                   | (202) 720-2127 |
| Joshua Bates – Almonds, Apples, Apricots, Asparagus, Carrots, Coffee, Onions,<br>Plums, Prunes, Sweet Corn, Tobacco .....                                                                       | (202) 720-4288 |
| Jorge Garcia-Pratts – Dry Beans, Garlic, Hazelnuts, Honeydews, Kiwifruit, Lettuce,<br>Maple Syrup, Mint, Pears, Sweet Cherries, Tart Cherries, Tomatoes .....                                   | (202) 720-2127 |
| Fleming Gibson – Cauliflower, Celery, Grapefruit, Lemons, Macadamia,<br>Mandarins and tangerines, Mushrooms, Olives, Oranges .....                                                              | (202) 720-5412 |
| Greg Lemmons – Cranberries, Cucumbers, Pistachios, Potatoes, Pumpkins,<br>Raspberries, Squash, Strawberries, Sugarbeets, Sugarcane, Sweet Potatoes,<br>Tame Blueberries, Wild Blueberries ..... | (202) 720-4285 |
| Dan Norris – Artichokes, Cantaloupes, Dry Edible Peas, Green Peas, Lentils,<br>Nectarines, Papayas, Peaches, Snap Beans, Spinach, Walnuts, Watermelons .....                                    | (202) 720-3250 |
| Dawn Smoker – Avocados, Bell Peppers, Broccoli, Cabbage, Chickpeas,<br>Chile Peppers, Dates, Floriculture, Grapes, Hops, Pecans .....                                                           | (202) 720-4215 |

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- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist [notifications@usda-esmis.library.cornell.edu](mailto:notifications@usda-esmis.library.cornell.edu) in your email client to avoid the emails going into spam/junk folders.

For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: [nass@nass.usda.gov](mailto:nass@nass.usda.gov).

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