Small Grains
2013 Summary

September 2013
All wheat production totaled 2.13 billion bushels in 2013, down 6 percent from 2012. Grain area totaled 45.2 million acres, down 8 percent from the previous year. The United States yield is estimated at a record high of 47.1 bushels per acre, up 0.8 bushel from the previous year. The levels of production and changes from 2012 by type are winter wheat, 1.53 billion bushels, down 7 percent; other spring wheat, 532 million bushels, down 2 percent, and Durum wheat, 61.5 million bushels, down 26 percent.

Oat production is estimated at 66.0 million bushels, up 3 percent from 2012 but the third lowest production on record. Yield is estimated at 64.0 bushels per acre, up 2.7 bushels from the previous year. Harvested area, at 1.03 million acres, is slightly below last year. This is the second lowest acreage harvested for grain on record.

Barley production is estimated at 215 million bushels, down 2 percent from 2012. Average yield per acre, at 71.7 bushels, is up 3.8 bushels from the previous year. Producers seeded 3.48 million acres in 2013, down 4 percent from last year. Harvested area, at 3.00 million acres, is down 8 percent from 2012.

This report was approved on September 30, 2013.

Acting Secretary of Agriculture
Robert Johansson

Agricultural Statistics Board Chairperson
Hubert Hamer
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## Oat Area Planted and Harvested, Yield, and Production – States and United States: 2011-2013

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United States: 2,496, 2,760, 3,010, 939, 1,045, 1,031

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1 Includes area planted in preceding fall.
Barley Area Planted and Harvested, Yield, and Production – States and United States: 2011-2013

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*1Includes area planted in preceding fall.*
### All Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2011-2013

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1 Includes area planted in preceding fall.
## Winter Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2011-2013

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United States:

|                    | 40,646       | 41,224     | 43,090     | 32,314     | 34,734     | 32,402     |

See footnote(s) at end of table. --continued
## Winter Wheat Planted and Harvested, Yield, and Production – States and United States: 2011-2013 (continued)

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1 Includes area planted in preceding fall.
### Other Spring Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2011-2013

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### Durum Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2011-2013

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| Crop            | 2011              | 2012              | 2013        |
|                 | (1,000 bushels)   | (1,000 bushels)   | (1,000 bushels) |
| Winter          |                   |                   |             |
| Hard red        | 780,089           | 1,000,005         | 744,029     |
| Soft red        | 457,535           | 419,801           | 564,907     |
| Hard white      | 12,368            | 13,171            | 11,154      |
| Soft white      | 243,685           | 208,295           | 214,163     |
| Spring          |                   |                   |             |
| Hard red        | 397,689           | 504,520           | 488,604     |
| Hard white      | 11,875            | 8,465             | 10,502      |
| Soft white      | 45,621            | 28,974            | 32,633      |
| Durum           | 50,482            | 82,796            | 61,528      |
| Total           | 1,999,347         | 2,266,027         | 2,127,520   |

### Wheat Production by Class – United States: 2011-2013

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

The following percentages are the basis for the United States wheat production by class estimates each year. These estimates are based on the latest varietal or class survey data available. These end-of-season percentages will be used during the 2014 forecast season. However, if an unusual situation significantly distorts a State’s usual distribution, then updated percentages will be used to forecast the production by class. (Note: The Idaho, Oregon, and Washington percentages are based on their estimates of production by class.)

#### Winter Wheat Production Distribution by Class – States: 2012 and 2013

<table>
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<tr>
<th>State</th>
<th>Hard red</th>
<th>Soft red</th>
<th>Hard white</th>
<th>Soft white</th>
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- Represents zero.
Other Spring Wheat (excluding Durum) Production Distribution by Class – States: 2012 and 2013

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<th>Hard red 2013 (percent)</th>
<th>Hard white 2012 (percent)</th>
<th>Hard white 2013 (percent)</th>
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- Represents zero.
Winter Wheat Head Population

The National Agricultural Statistics Service conducted objective yield surveys in 10 winter wheat estimating States during 2013. Randomly selected plots in winter wheat fields were visited monthly from May through harvest to obtain specific counts and measurements. Data in this table are actual field counts from this survey.

### Winter Wheat Heads per Square Foot – Selected States: 2009-2013

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<th>2010 (number)</th>
<th>2011 (number)</th>
<th>2012 (number)</th>
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### Rye Area Planted and Harvested, Yield, and Production – States and United States: 2011-2013

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<th>Area harvested</th>
<th>Yield</th>
<th>Production</th>
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<td>260</td>
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<td>1,446</td>
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</table>

¹ Includes area planted in preceding fall.
² Other States include Illinois, Kansas, Michigan, Minnesota, Nebraska, New York, North Carolina, North Dakota, Pennsylvania, South Carolina, South Dakota, Texas, and Wisconsin.
# Small Grain Annual Summary Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2012-2013

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<th>Crop</th>
<th>Area planted (1,000 acres)</th>
<th>Area harvested (1,000 acres)</th>
<th>Yield per acre (bushels)</th>
<th>Production (1,000 bushels)</th>
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<table>
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<th>Crop</th>
<th>Area planted (hectares)</th>
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<th>Yield per hectare (metric tons)</th>
<th>Production (metric tons)</th>
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Crop Comments

Oats: The 2013 production is estimated at 66.0 million bushels, up 3 percent from 2012 but the third lowest production on record. Yield is estimated at 64.0 bushels per acre, up 2.7 bushels from the previous year. Harvested area, at 1.03 million acres, is slightly below last year. This is the second lowest acreage harvested for grain on record. Record low acres were planted in California, Georgia, North Carolina, Ohio, Oregon, South Carolina, Texas, and Virginia. Producers harvested record low acreage in Kansas, Idaho, Minnesota, North Carolina, Ohio, Pennsylvania, South Carolina, Wisconsin, and Virginia.

Favorable growing conditions in the Northern Great Plains and the Ohio Valley promoted significant yield increases compared with 2012. Drought conditions in the Southern Great Plains led to a large decline in yield from last year. During early spring, planting and emergence of the oat crop was behind the normal pace. By April 14, producers Nationwide had sown 39 percent of this year’s oat crop, 33 percentage points behind last year and 10 percentage points behind the 5-year average. Cold temperatures and above average precipitation hampered fieldwork in many areas. Fifty-seven percent of this year’s oat crop was seeded by May 5, thirty-six percentage points behind last year and 19 percentage points behind the 5-year average. In Minnesota and North Dakota, two of the three largest oat-producing States, producers maximized a limited number of days suitable for fieldwork as they tried to seed their crop. Through June, crop development remained behind normal in most major oat-producing States. As of June 24, fifty-three percent of the oat acreage was headed, 12 percentage points behind the 5-year average. At the end of July, 27 percent of the oat acreage was harvested, 6 percentage points behind the normal pace. By August 26, eighty-three percent of the oat acreage was harvested, 5 percentage points ahead of the five-year average.

Barley: Production is estimated at 215 million bushels, down 2 percent from 2012. Average yield per acre, at 71.7 bushels, is up 3.8 bushels from the previous year. Producers seeded 3.48 million acres in 2013, down 4 percent from last year. Harvested area, at 3.00 million acres, is down 8 percent from 2012.

By Mid-April, barley seeding was ahead of normal in the Pacific Northwest, while cool weather and poor field conditions delayed planting in Minnesota and North Dakota. By the end of April, barley planting was 30 percent complete, 32 percentage points behind 2012 and 7 percentage points behind the 5-year average. By mid-May, high winds and drier weather helped growers in Minnesota and North Dakota catch up on their planting progress. Barley was 35 percent emerged by May 19, twelve percentage points behind the 5-year average. Heavy rainfall in the Great Lakes region limited fieldwork to only 4 days during the last two weeks of May. By the end of May, North Dakota emergence was behind due to flooding and crusted fields. By June 2, sixty-six percent of the crop was in good to excellent condition, 3 percentage points behind the previous year. Drier weather by mid-June helped North Dakota growers get additional acres planted; however, progress remained 3 weeks behind normal on June 16. Nationally, 97 percent of the barley was sown and 94 percent had emerged by June 30. Warm, mostly dry weather helped the crop mature quickly in the Pacific Northwest by the end of June. Hot, dry weather extended across the Great Plains through the end of July allowing for 98 percent of the crop to be at or beyond the heading stage by July 28. By August 11, barley producers had harvested 17 percent of this year’s crop, 34 percentage points behind last year and 4 percentage points behind the 5-year average. Harvest advanced most rapidly in Idaho and Montana. By the end of August, 76 percent of the Nation’s barley crop was harvested, 14 percentage points behind last year but 5 percentage points ahead of the 5-year average.

Winter wheat: The 2013 winter wheat production totaled 1.53 billion bushels, down 7 percent from the previous year. The United States yield, at 47.4 bushels per acre, is up slightly from 2012 and represents the second highest yield on record, 0.4 bushel below 1999. Area harvested for grain is estimated at 32.4 million acres, down 7 percent from the previous year.

Planted acres were up from 2012 in most of the major Hard Red Winter (HRW) growing States. Particularly large acreage increases were experienced in Kansas, Nebraska, Oklahoma, and Texas. Conversely, Montana and North Dakota had large decreases in planted acres from the previous year. Harvested acres were down substantially across the HRW region, with large decreases in Colorado, the Dakotas, Kansas, Montana, Nebraska, Oklahoma, and Texas. A record high yield is estimated in New Mexico. Nationally, HRW production totaled 744 million bushels, down 26 percent from 2012. Record high production is estimated in Nevada, up 17 percent from last year.
In the Soft Red Winter (SRW) growing area, planted and harvested acreage increases from 2012 were experienced throughout the region, with producers in North Carolina seeding and harvesting the largest acreage on record. Record high yields were realized in Arkansas, Florida, Georgia, Illinois, Indiana, Kentucky, New York, Pennsylvania, and Tennessee. SRW production totaled 565 million bushels, up 35 percent from 2012. Record production was recorded in Kentucky, Maryland, North Carolina, and Tennessee.

White winter production totaled 225 million bushels, up 2 percent from the previous year. Harvested acreage in the Pacific Northwest (Idaho, Oregon, and Washington) was below 2012’s level. Yields were also down from last year in most Pacific Northwest States.

Other spring wheat: Production for 2013 is estimated at 532 million bushels, down 2 percent from 2012. Harvested area totaled 11.4 million acres, down 6 percent from last year. The United States yield is estimated at a record high 46.8 bushels per acre, up 1.8 bushels from last year.

Due to wet spring conditions, planting got off to a slow start in North Dakota and Minnesota. By April 14, producers had sown 6 percent of the Nation’s spring wheat crop, 27 percentage points behind last year and 7 percentage points behind the 5-year average. By May 12, seeding delays of over three weeks and over two weeks were evident in Minnesota and North Dakota respectively, due to unseasonable weather conditions and limited fieldwork. Crop maturation continued behind normal throughout the growing season for all States. As a result, sixty-four percent of the spring wheat crop was harvested by September 1, twenty-nine percentage points behind last year and 5 percentage points behind the 5-year average.

Durum wheat: Production for 2013 is estimated at 61.5 million bushels, down 26 percent from 2012. Grain area harvested totaled 1.42 million acres, down 33 percent from the previous year. The United States yield is estimated at 43.3 bushels per acre, up 4.5 bushels from 2012 and the second highest yield on record. Production in Idaho is down 15 percent from last year and represents a record low for the State.

Due to excessive moisture this season, crop development has progressed significantly behind normal in Montana and North Dakota, the two largest Durum-producing States. As a result, harvest progress in North Dakota and Montana as of September 1 was well behind last year and the 5-year average.

Rye: Production for 2013 is estimated at 7.67 million bushels, up 10 percent from 2012. Harvested area totaled 278,000 acres, up 30,000 acres from 2012. The United States yield, at 27.6 bushels per acre, is down 0.4 bushel from the previous year. Favorable growing conditions in the Southern Great Plains and the Southeast led to increases in harvested acres from a year earlier.
Statistical Methodology

Survey procedures: Objective yield and farm operator surveys were conducted to gather information on small grain acreage, yield, and production. The objective yield survey was conducted in 10 States that accounted for over 60 percent of the 2013 winter wheat production. Early in the growing season, farm operators were interviewed to seek permission to randomly locate two sample plots in selected winter wheat fields. Throughout the growing season, counts such as number of stalks, heads in late boot, and number of emerged heads were collected from these plots. The plots were revisited each month until crop maturity when the heads were clipped, threshed, and weighed. After the farm operator harvested the sample field, enumerators revisited the sample to obtain harvesting loss.

The farm operator survey was conducted primarily by telephone with some use of mail, internet, and personal interviewer. Approximately 66,000 producers were interviewed between August 28 and September 16 and asked questions pertaining to planted and harvested area as well as yield and production.

Estimating Procedures: National and State level objective yield and grower reported data 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 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 in the Crop Production Annual Summary report published in January should new information become available. Previous year acreage, yield, and production estimates can be revised in the Small Grain Summary published 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 are subject to sampling variability because all acres of winter wheat are not included in the sample.

The farm operator survey indications are also subject to sampling variability because all operations with small grains are not included in the sample. This variability, as measured by the relative standard error at the National level, is approximately 1.5 percent for winter wheat, 5.7 percent for Durum wheat, and 2.5 percent for other spring wheat. This means that chances are approximately 95 out of 100 that survey estimates for production will be within plus or minus 3.0 percent for winter wheat, 11.4 percent for Durum wheat, and 5.0 percent for other spring wheat of the value that could be developed by averaging the estimates produced from all possible samples selected from the same population and surveyed using the same procedures. The relative standard errors for barley, oats and rye are 2.5, 3.5, and 8.9 percent, respectively.

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.
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@nass.usda.gov

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  Angie Considine – Peanuts, Rice .......................................................................................................... (202) 720-7688
  Angie Considine – Cotton, Cotton Ginnings, Sorghum .................................................................. (202) 720-5944
  Chris Hawthorn – Corn, Flaxseed, Proso Millet ................................................................................ (202) 720-9526
  Brent Chittenden – Crop Weather, Barley, Hay .................................................................................. (202) 720-8068
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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.

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The USDA’s National Agricultural Statistics Service will be organizing an open forum for data users. The purpose will be to provide updates on pending changes in the various statistical and information programs and seek comments and input from data users. Other USDA agencies to be represented will include the Agricultural Marketing Service, the Economic Research Service, the Foreign Agricultural Service, and the World Agricultural Outlook Board. The Foreign Trade Division from the Census Bureau will also be included in the meeting.

For registration details or additional information for the Data Users’ Meeting, see the NASS homepage at [http://www.nass.usda.gov/meeting/](http://www.nass.usda.gov/meeting/) or contact Rose Armstrong (NASS) at 202-690-8141 or at rose.armstrong@nass.usda.gov.

This Data Users’ Meeting precedes the Industry Outlook Conference that will be held at the same location on Tuesday, October 22, 2013. The outlook meeting brings together analysts from various commodity sectors to discuss the outlook situation. For registration details or additional information for the Industry Outlook Conference, see the conference webpage on the LMIC website: [http://www.lmic.info/IOC/](http://www.lmic.info/IOC/). Or call the Livestock Marketing Information Center (LMIC) at 303-236-0460.