



SAMPLING AND COLLECTION METHODS



U.S. WHEAT ASSOCIATES
Dependable People. Reliable Wheat.





HARD RED WINTER



SAMPLING AND COLLECTION METHODS

COLLECTION ORGANIZATIONS

- Plains Grains Inc.
- Wheat Marketing Center
- State wheat commissions
- State departments of agriculture

TESTING AGENCIES

- USDA-ARS Hard Winter Wheat Quality Lab
- Federal Grain Inspection Service
- Great Plains Analytical Laboratories

SAMPLING AND COLLECTION

U.S. NORTHERN PLAINS LOCATION: 100% ELEVATOR

Collection occurs when harvest is 30% complete in the grainshed. Follow-up sampling is done if a major weather event occurs that impacts quality.

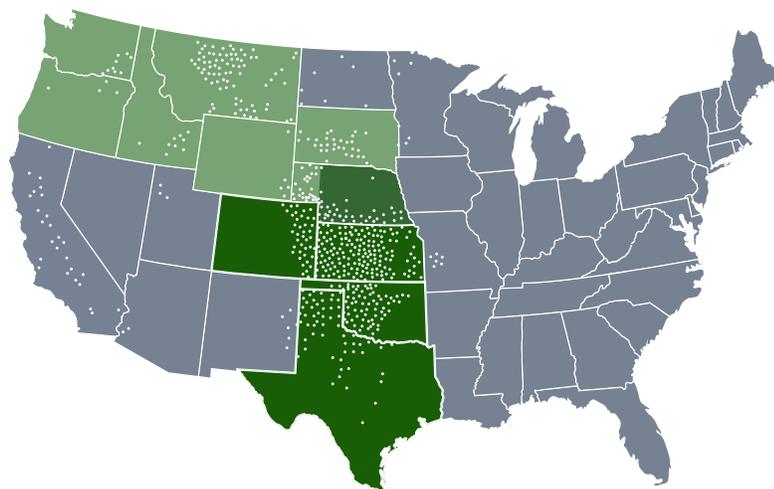
U.S. PACIFIC NORTHWEST LOCATION: 100% ELEVATOR

Collection begins the third week of July.

100
Average number of composites, which are based on geographic area collected.

515
AVERAGE NUMBER OF SAMPLES

300-6,800 grams
SAMPLE SIZE



Data shown in the USW Crop Quality Report is based on composite sample averages. The overall average values are weighted by export tributary. Individual samples are used to create the distributions shown in the USW Crop Quality Report.





CALIFORNIA HRW

SAMPLING AND COLLECTION METHODS



COLLECTION ORGANIZATIONS

- California Wheat Commission Laboratory

All samples are tested.

TESTING AGENCIES

- Federal Grain Inspection Service
- California Wheat Commission Laboratory

150

AVERAGE NUMBER OF SAMPLES

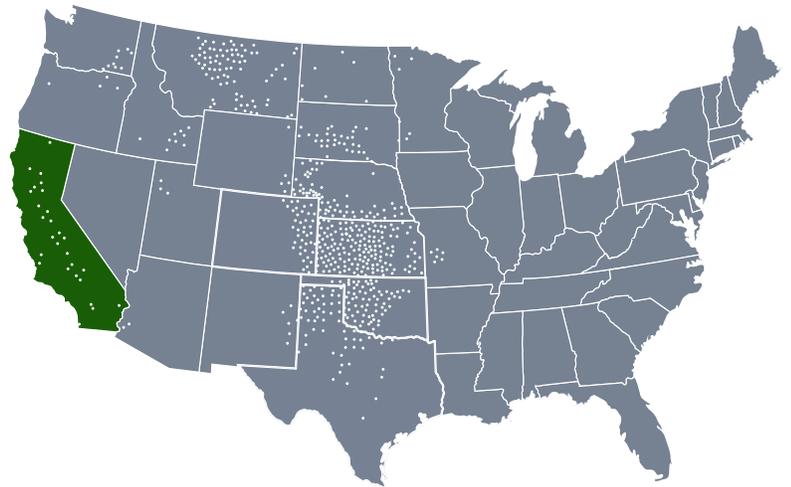
SAMPLING AND COLLECTION

CALIFORNIA
LOCATION: 100% ELEVATOR

2,300-2,700 grams

SAMPLE SIZE

Collection begins and ends when harvest does.



Data shown in the USW Crop Quality Report is based on composite sample averages.





HARD RED SPRING



SAMPLING AND COLLECTION METHODS

COLLECTION ORGANIZATIONS

- USDA National Agricultural Statistics Service
- Wheat Marketing Center
- State wheat commissions

TESTING AGENCIES

- North Dakota State University Hard Red Spring Wheat Quality Lab
- Federal Grain Inspection Service

SAMPLING AND COLLECTION

U.S. NORTHERN PLAINS

LOCATION: 30% ELEVATOR; 70% FARM

Collection occurs when harvest is 15% complete in each county. Collection ends the last week of September in order to meet publication deadlines.

U.S. PACIFIC NORTHWEST

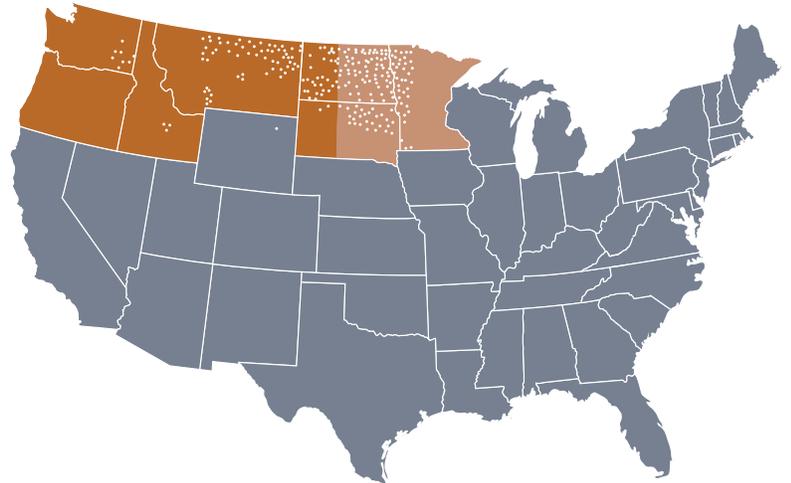
LOCATION: 100% ELEVATOR

Collection begins the third week of July.

6
Average number of composites, which are based on protein and export tributary region.

800
AVERAGE NUMBER OF SAMPLES

900-1,400 grams
SAMPLE SIZE



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HARD WHITE

SAMPLING AND COLLECTION METHODS



COLLECTION ORGANIZATIONS

- Plains Grains Inc.
- Wheat Marketing Center
- California Wheat Commission Laboratory
- State wheat commissions
- Private and state grain grading labs

TESTING AGENCIES

- Federal Grain Inspection Service
- Wheat Marketing Center

SAMPLING AND COLLECTION

U.S. SOUTHERN PLAINS LOCATION: 100% ELEVATOR

Collection occurs when harvest is 30% complete in the grainshed. Follow-up sampling is done if a major weather event occurs that impacts quality.

U.S. PACIFIC NORTHWEST LOCATION: 100% ELEVATOR

Collection begins the third week of July.

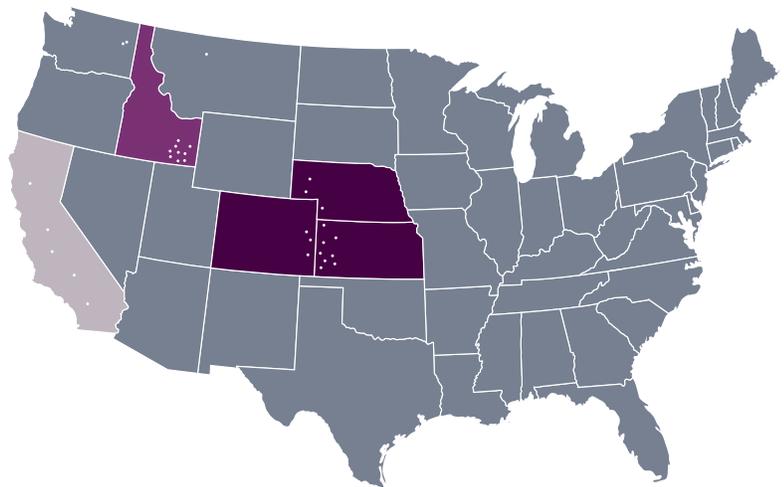
CALIFORNIA LOCATION: 100% ELEVATOR

Collection begins and ends when harvest does.

7
Average number of composites, which are based on protein and growing area.

110
AVERAGE NUMBER OF SAMPLES

300-6,800 grams
SAMPLE SIZE



Data shown in the USW Crop Quality Report is based on composite sample averages.





SOFT WHITE

SAMPLING AND COLLECTION METHODS



COLLECTION ORGANIZATIONS

- Wheat Marketing Center
- State wheat commissions
- Private and state grain grading organizations

TESTING AGENCIES

- Wheat Marketing Center
- Federal Grain Inspection Service

SAMPLING AND COLLECTION

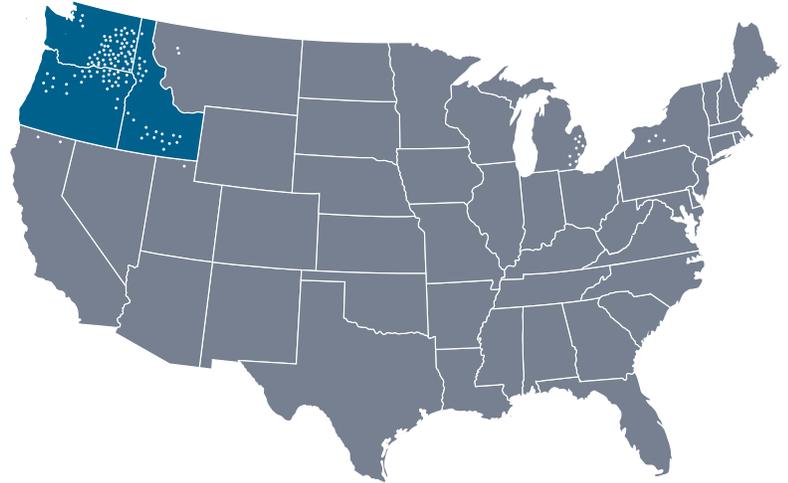
U.S. PACIFIC NORTHWEST
LOCATION: 100% ELEVATOR

Collection begins the third week of July.

3
 Average number of composites, which are based on geographic area collected.

500
 AVERAGE NUMBER OF SAMPLES

600-1,500 grams
 SAMPLE SIZE



Data shown in the USW Crop Quality Report is based on composite sample averages. The overall average values are weighted by the number of samples received from each region. Sampling in the PNW is generally correlated to regional production. Individual samples are used to create the distributions shown in the USW Crop Quality Report.





SOFT RED WINTER



SAMPLING AND COLLECTION METHODS

COLLECTION ORGANIZATIONS

- Great Plains Analytical Laboratories

TESTING AGENCIES

- Great Plains Analytical Laboratories

SAMPLING AND COLLECTION

U.S. GULF

LOCATION: 100% ELEVATOR

Collection begins in early June and concludes after all locations have been sampled. Follow-up sampling is done if a major weather event occurs that impacts quality.

U.S. EAST COAST

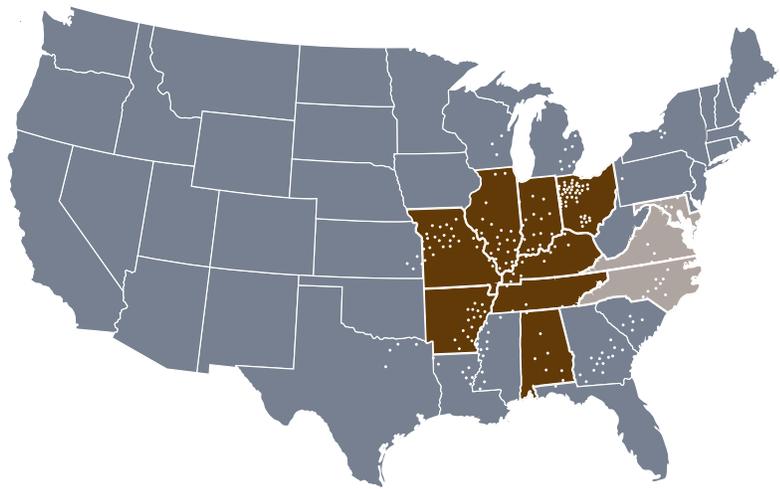
LOCATION: 100% ELEVATOR

Collection begins in early June and concludes after all locations have been sampled. Follow-up sampling is done if a major weather event occurs that impacts quality.

18
Average number of composites, which are based on grainshed districts in each state.

500
AVERAGE NUMBER OF SAMPLES

6,800-9,000 grams
SAMPLE SIZE



Data shown in the USW Crop Quality Report is based on composite sample averages. The overall average values are based on composite results weighted by production of the states surveyed. Individual samples are used to create the distributions shown in the USW Crop Quality Report.





NORTHERN DURUM

SAMPLING AND COLLECTION METHODS



COLLECTION ORGANIZATIONS

- USDA National Agricultural Statistics Service
- State wheat commissions

TESTING AGENCIES

- North Dakota State University Durum Wheat/Pasta Quality Lab

SAMPLING AND COLLECTION

U.S. NORTHERN PLAINS

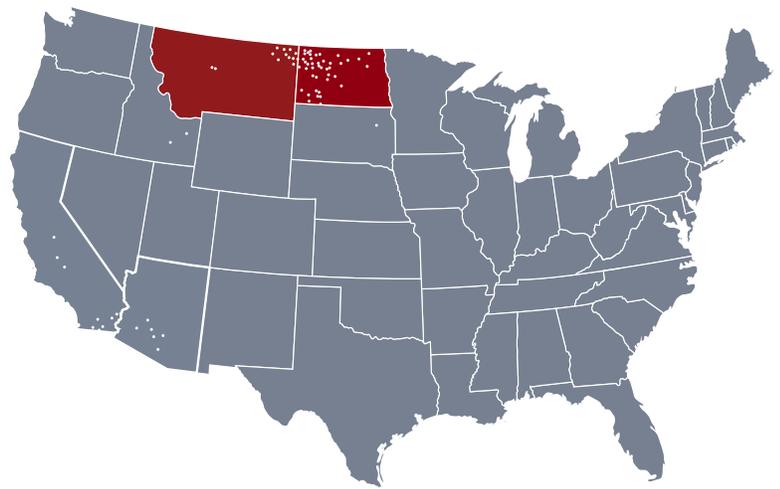
LOCATION: 30% ELEVATOR; 70% FARM

Collection begins when harvest is 10% complete in each county. Collection ends by October 4 in order to meet publication deadline.

6
Average number of composites, which are based on geographic area collected.

210
AVERAGE NUMBER OF SAMPLES

1,200 grams
SAMPLE SIZE



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DESERT DURUM®

SAMPLING AND COLLECTION METHODS



COLLECTION ORGANIZATIONS

- California Wheat Commission Laboratory
- Arizona Grain Research and Promotion Council

TESTING AGENCIES

- California Wheat Commission Laboratory
- Federal Grain Inspection Service

SAMPLING AND COLLECTION

U.S. SOUTHWEST
LOCATION: 100% ELEVATOR

Collection begins and ends when harvest does.

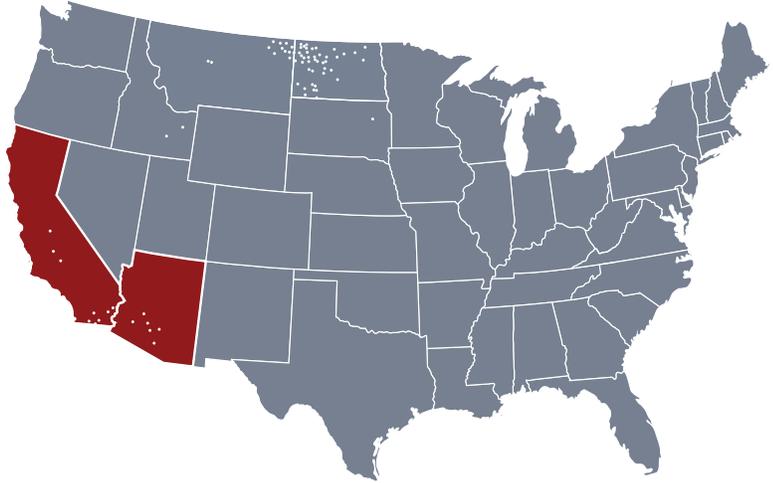
All samples are tested.

75

AVERAGE NUMBER OF SAMPLES

4,500 to 6,800g

SAMPLE SIZE



Data shown in the USW Crop Quality Report is based on the individual samples from California and Arizona weighted by production.

