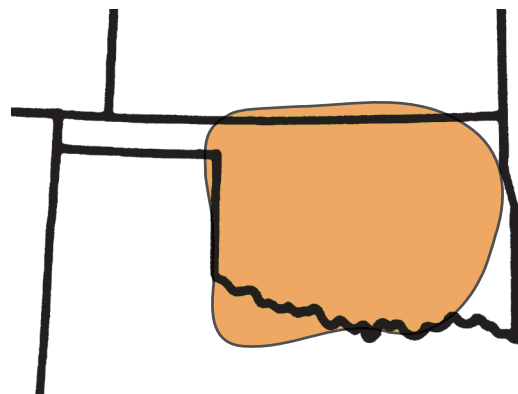
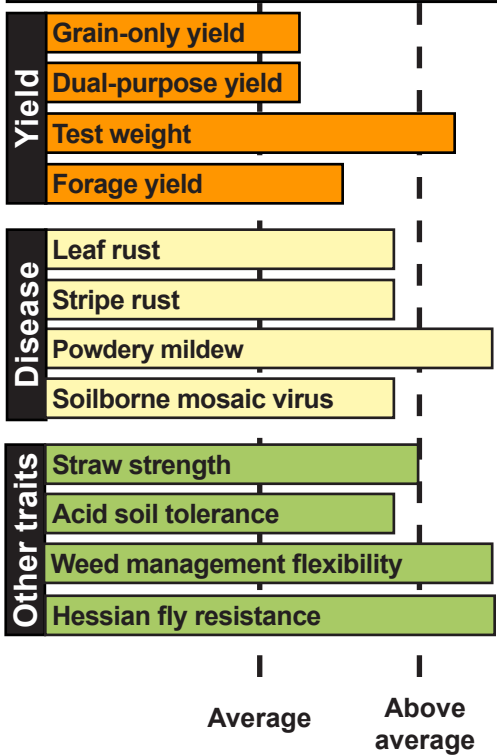


Centerfield Characteristics



Centerfield area of adaptation

FOR MORE INFORMATION ON
CENTERFIELD CONTACT



Oklahoma Foundation
Seed Stocks
2902 West 6th Ave.
Stillwater, OK 74074
(405) 744-7741
<http://www.ofssinc.com>

Oklahoma State University, in compliance with Title VI and VII of the Civil Rights Act of 1964, Executive Order 11246 as amended, Title IX of the Education Amendments of 1972, Americans with Disabilities Act of 1990, and other federal laws and regulations, does not discriminate on the basis of race, color, national origin, gender, age, religion, disability, or status as a veteran in any of its policies, practices or procedures. This includes but is not limited to admissions, employment, financial aid, and educational services.

Issued in furtherance of Cooperative Extension work, acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture, Robert E. Whitson, Director of Oklahoma Cooperative Extension Service, Oklahoma State University, Stillwater, Oklahoma. This publication is printed and issued by Oklahoma State University as authorized by the Vice President, Dean, and Director of the Division of Agricultural Sciences and Natural Resources and has been prepared and distributed at a cost of 000 cents per copy.

CENTERFIELD

HERBICIDE-TOLERANT
HARD RED WINTER WHEAT



L-334

Graze n Grain
breeding system



CENTERFIELD HERBICIDE-TOLERANT HARD RED WINTER WHEAT

HISTORY

Wheat farmers in the southern Great Plains wishing to use the Clearfield® wheat production system have had limited variety choices. Centerfield improves this list of choices by providing an agronomic package that fits the needs of central Oklahoma wheat farmers.

The Clearfield® trait was initially introduced into hard red winter wheat through the variety TAM 110. So, many early Clearfield® varieties had similar areas of adaptation as TAM 110. Centerfield broke this mold with parentage that is 75% 2174 and 25% TAM 110. The strong 2174 influence in Centerfield means better adaptation to central Oklahoma and improved agronomics. Centerfield has a single-gene that confers resistance to Clearfield® herbicides. Centerfield is marketed and sold by Oklahoma Genetics Inc. through a licensing agreement with OSU.

YIELD POTENTIAL

Centerfield's yield performance was better than other Clearfield® varieties tested by OSU in 2006, which was the last year the

OSU wheat variety testing program evaluated multiple Clearfield® varieties (Table 1). The good performance in the dual-purpose test in El Reno showcases Centerfield's better fit in locations with low soil pH.

Test weight of Centerfield has consistently been better than other Clearfield® varieties tested. This makes Centerfield one of the first Clearfield® varieties with test weight that is comparable to its non-Clearfield® counterparts like 2174.

UNIQUE TRAITS

Centerfield is tolerant to herbicides used in the Clearfield® system, and offers the unique ability manage hard-to-control weeds such as jointed goatgrass. Earlier sowing can create a dense crop canopy and aid in weed control. Early sowing can also increase the risk of Hessian fly damage. Fortunately, Centerfield is resistant to Hessian fly.

DISEASE PACKAGE

Centerfield is resistant to wheat soil-borne mosaic virus and wheat spindle streak mosaic virus. Centerfield is moderately resistant to current races of leaf rust

and stripe rust. Centerfield shows resistance to powdery mildew but is susceptible to tan spot. So careful attention must be paid to disease management in no-till continuous wheat.

MANAGEMENT

Centerfield's unique resistance to soil-borne diseases and improved test weight make it a good fit for central Oklahoma. Centerfield's forage production is comparable to other Clearfield® varieties on the market, but it is important to consider the negative impact that grazing might have on weed control in the Clearfield® system.

The strong 2174 influence in Centerfield resulted in heat-sensitive seed dormancy. So, Centerfield is a variety that is better sown after soil temperatures cool in late September. Centerfield closely resembles 2174 in plant maturity and is rated as very late to first hollow stem and medium over-all plant maturity.

Table 1. Yield (bu/ac) and average test weight (lb/bu) for Clearfield® wheat varieties in the 2006 Oklahoma variety trials.

Variety	Haskell	Kingfisher	Lamont	El Reno dual purpose	Average test weight
Centerfield	44	27	40	42	61
Okfield	42	29	39	40	60
AP502CL	38	22	43	37	59

Current yield data for these and other varieties are available at www.wheat.okstate.edu



Partial financial support for the development of Centerfield was provided by the Oklahoma Wheat Commission



Updated 04/12/2010