



### FOR MORE INFORMATION ON BILLINGS CONTACT

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Oklahoma Foundation Seed Stocks 2902 West 6th Ave. Stillwater, OK 74074 (405) 744-7741 www.oklahomaseed.com

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# Billings

HARD RED WINTER WHEAT





## BILLINGS HARD RED WINTER WHEAT

#### HISTORY

Billings was one of 14 head rows selected from a cross between two experimental lines in 1996. Both experimental lines contained significant Eastern European germplasm. To have this number of head rows make it through the initial culling process is unusual and speaks to the strength of the lines resulting from this initial cross.

Billings was first tested in the OSU wheat variety testing program in 2003 as the experimental line OK03522. The grain-only yield potential of this experimental line quickly made it a standout and Billings was released as a variety in 2009. Billings is marketed and sold by Oklahoma Genetics Inc. through a licensing agreement with OSU.

#### Yield Potential

Billings has shown good yield potential in its area of adaptation and can serve well as a disease-resistant, acid-soil-tolerant replacement for Jagger or OK Bullet in this area (Table 1). Billings especially shines in environments with high yield potential, and data indicate the higher the yield potential of the environment, the greater the advantage for Billings.

#### Table 1. Two-year average yield (bu/ac) and test weight (lb/bu) for Northcentral Oklahoma grain-only variety trials in 2008 & 2009

Variety	Alva	Kildare	Lamont	Lahoma	Average test weight
Billings	53	38	50	63	57
Jagger	52	37	44	49	55
Fuller	55	47	54	62	57
OK Bullet	50	35	43	50	57

Current yield data available at www.wheat.okstate.edu

#### **UNIQUE TRAITS**

A shift in leaf rust races has lessened the efficacy of the leaf rust resistance packages of OK Bullet, Jagger, and Overley. This left producers in Northcentral Oklahoma needing a disease-resistant, early-to-medium maturity variety with good acid soil tolerance. Billings fills this need.

Spring weather patterns in northcentral Oklahoma can be unpredictable and harvest is sometimes delayed. The strong shattering tolerance of Billings will assist in ensuring the grain winds up in the combine and not on the ground in these situations.

A larger-than-average kernel size makes Billings an aesthetically pleasing wheat post-harvest. Billings has delivered average protein content but has scored well above average for other milling and baking quality parameters.

#### DISEASE PACKAGE

Billings is resistant to current strains of leaf rust, stripe rust, wheat soilborne mosaic virus, and wheat spindle streak mosaic virus. Billings provides moderate protection against powdery mildew and

the septoria leaf disease complex. Billings has shown a susceptible reaction to barley yellow dwarf virus, so aphids should be monitored and controlled when they reach threshold levels in Billings.

#### MANAGEMENT

Billings shines in grain-only systems in Northcentral Oklahoma and Southcentral Kansas. Irrigation will allow Billings to move west into grain-only systems in the Panhandle. Resistance to current strains of leaf and stripe rust and good stay-green mean that Billings will perform well in environments where foliar disease is a major yield-limiting factor. Test weight of Billings has been above average in OSU variety performance tests.

While Billings shines in grain-only systems, it does not perform as well in dual-purpose systems. Variety tests have shown that forage production of Billings is average, but recovery from grazing is not as good as other Oklahoma-bred wheats, such as Duster or Endurance.



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