Wahoo is an awned, white-glumed cultivar. Its field appearance is most similar to Arapahoe. After heading, the canopy is moderately open and upright. The flag leaf is erect and twisted at the boot stage. The foliage is green with a waxy bloom at anthesis. The leaves are pubescent. The spike is oblong in shape, midlong, and middense. The glume is long and narrow, and the glume shoulder is narrow and square. The beak is medium long in length with an acuminate tip. The spike is usually nodding at maturity. Kernels are red colored, hard textured, midlong, and ovate in shape. The kernel has no collar, a large brush of long length, rounded cheeks, midsize germ, and a midwide and shallow crease.

Wahoo is moderately resistant to stem rust (caused by 
Puccinia graminis Pers.: Pers. f. sp. tritici Eriks & E. Henn; most likely possessing 
Sr6 and Sr24; data provided by D. McVey, USDA Cereal Disease Laboratory), leaf rust (caused by 
P. triticina Eriks.; most likely possesses 
Lr16, Lr24, and possibly other leaf rust resistance genes; data provided by D. McVey at 
the USDA Cereal Disease Laboratory), and Hessian fly 
[Mayetiola destructor Say, similar to Arapahoe, and most likely 
confounded by the Marquillo-Kawvale genes (H18 and another 
unknown gene) for resistance; data provided by J. Hatchett, 
USDA and Kansas State University]. It is susceptible to Wheat 
soilborne mosaic virus, Wheat streak mosaic virus, and 
Barley yellow dwarf virus (data obtained from the Uniform Winter 
Wheat Northern Regional Performance Nursery, 1998-1999 and 
field observations in NE).

Wahoo is genetically low in grain volume weight (73.8 kg 
hL\(^{-1}\)) being similar to Arapahoe (74.1 kg hL\(^{-1}\)) and Wesley 
(74.3 kg hL\(^{-1}\)), but lower than Culver (74.9 kg hL\(^{-1}\)), Millennium 
(75.6 kg hL\(^{-1}\)), Alliance (75.6 kg hL\(^{-1}\)), and Pronghorn 
(76.6 kg hL\(^{-1}\)). The milling and baking properties of Wahoo 
were determined for 6 yr by the Nebraska Wheat Quality 
Laboratory. In these tests, Arapahoe and ‘Scout 66’ were 
used as check cultivars. The average wheat and flour protein 
content of Wahoo (126 and 114 g kg\(^{-1}\)) was similar to Scout 
66 (126 and 117 g kg\(^{-1}\)) and lower than Arapahoe (131 and 
118 g kg\(^{-1}\)). The average flour extraction on the Buhler Labora-

atory Mill for Wahoo (728 g kg\(^{-1}\)) was similar to Scout 66 
(729 g kg\(^{-1}\)), and higher than Arapahoe (720 g kg\(^{-1}\)). The 
flour ash content (42 g kg\(^{-1}\)) was higher than Scout 66 and 
Arapahoe (37 g kg\(^{-1}\) and 39 g kg\(^{-1}\), respectively). Dough 
mixing properties of Wahoo were similar to Arapahoe and stronger than Scout 66. Average baking water absorption was 
slightly less than the check varieties. The average loaf volume 
of Wahoo (888 cm\(^{-3}\)) was similar to Scout 66 (888 cm\(^{-3}\), and 
less than Arapahoe (911 cm\(^{-3}\)). The scores for the internal 
crumb grain and texture were good, and similar to Arapahoe, 
but less than Scout 66. The overall end-use quality charac-
teristics for Wahoo should be acceptable to the milling and baking 
industries. In preliminary noodle quality tests, noodle 
from Wahoo discolor less over time than noodles made 
from flour from Arapahoe, Scout 66, and most other hard red 
soft wheat varieties.

Wahoo has been uniform and stable since 1999. 
0.5% of the plants were rogued from the Breeder seed 
in 1999. The rogued variant plants were taller in height 
(100 cm) or were awnless with red chaff. Up to 1% (10:1000) 
plants may be encountered in subsequent generations.

The Nebraska Crop Improvement Association provided 
technical assistance in describing the cultivar character 
and accomplishing technology transfer. The Nebraska 
Foundation Seed Division, Department of Agronomy and 
Plant Science, University of Nebraska-Lincoln, Lincoln, NE 68508. 
The Foundation seed available to qualified certified seed producers in 1999. The U.S. Department of Agriculture, 
have the seed available for distribution. The seed classes will be: 
Foundation, Registered, and Certified. The Registered 
class will be a nonsalable seed class. Wahoo will be eligible 
for registration and U.S. Plant Variety Protection under 
105777 with the certification option. Small quantities for 
research purposes may be obtained from the corresponding 
author and the Department of Agronomy and Horticulture, University of Nebraska-Lincoln for at least 5 yr from 
the date of this publication.

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