

1 auricles. Meridian's spike is mid-dense and awned. The basal florets of Meridian's spike have glumes with
2 wanting shoulders. The shoulder shape becomes more elevated in apical florets; terminal florets have
3 square shoulders. The glumes are glabrous with acuminate beaks. The chaff color of Meridian is white.
4 Meridian's kernels are elliptical with angular cheeks, a mid-deep crease, and a mid-long brush. Meridian
5 is moderately resistant to stripe rust (*Puccinia striiformis*, West.) field races at Aberdeen and susceptible
6 to field races at Pullman, WA. Meridian is moderately susceptible to dwarf bunt (*Tilletia controversa*, Kuhn
7 in Rabenh) and moderately resistant to snow mold (*Microdochium nivale* (Fr.) Samuels & I.C. Hallet, and
8 *Typhula* spp.). Meridian is susceptible to the Russian wheat aphid (*Diuraphis noxia*, Mordvilko).

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10 Meridian, Ute, 'Stephens', and 'Madsen' have had average yields of 8.7, 8.5, 8.1, and 8.7 Mg ha⁻¹,
11 respectively, in intensively managed irrigated trials at Aberdeen from 1986 to 1991. In the same trials the
12 seed weight per volume of Meridian, Ute, Stephens, and Madsen was 792, 771, 755, and 767 g l⁻¹,
13 respectively. Average yields of Meridian, Stephens, and Neeley were 6.8, 7.4, and 5.5 Mg ha⁻¹,
14 respectively, in 2 yr of Tri-state HRW Nursery testing. In 3 yr of irrigated extension trials in southern Idaho,
15 Meridian had an average yield of 7.8 Mg ha⁻¹ and Ute an average yield of 7.3 Mg ha⁻¹. In 16 of the 19
16 (85%) extension trials, Meridian had higher yields than Ute. The seed weight per volume of Meridian in
17 extension trials was consistently higher than Ute (95% of trials) with averages of 797 g l⁻¹ and 769 g l⁻¹,
18 respectively. Meridian is more susceptible to lodging than Ute, similar to 'Daws', Nugaines, and 'Dusty',
19 and superior to Neeley. In 4 of 17 southern Idaho extension trials, Meridian had more severe lodging
20 ratings than Ute. Winter hardiness of Meridian is comparable to other HRW wheats adapted to
21 southeastern Idaho but superior to Stephens soft white winter. Meridian had an average spring stand of
22 96% and Stephens had an average spring stand of 59% in 6 location/yr of trials where low-temperature
23 winter injury occurred. Meridian has good milling, excellent mixing, and acceptable baking characteristics.
24 In 2 yr of trials in the Western Regional Nursery, Meridian had optimum dough mixing times 0.3, 0.4, and
25 0.7 min longer than 'Wanser', 'Judith', and 'Buchanan', respectively. In the same trials, Meridian, Wanser,
26 Judith, and Buchanan had times to Farinograph peaks of 9.4, 8.8, 9.9, and 6.9 min, respectively. The
27 same cultivars had Farinograph stability times of 16.0, 10.4, 16.8, and 8.6 min, respectively. Loaf volume

1 of Meridian is similar to Neeley but smaller than Ute in trials at Aberdeen.

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3 Seed of Meridian will be maintained by the Idaho Agricultural Experiment Station. Seed may be obtained
4 by writing to the Foundation Seed Director, IAES, University of Idaho, Moscow.

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