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Moses Lake Irrigated Soft White Winter Wheat

1. Grain yield in the 2014 Moses Lake Irrigated soft white winter wheat trial averaged 156 bushels/acre, higher than the five-year average of 144 bushels/acre. The Moses Lake nursery was located about seven miles southeast of Moses Lake, WA (G. Burkholder, Cooperator).

2. This nursery was seeded on 6 October, 2013 following potatoes. Seed was placed at a 95#/acre seeding rate using a double-disc plot drill with 6-inch row spacing. Base fertilizer was 145#N/acre applied before planting and 80#N/acre applied with irrigation. Soil test results showed 254#N/acre soil available in the spring. Fall seeding conditions were good as were emergence and stand establishment in the fall. Ratings of spring stands are presented in the data table as an evaluation range from 0 (all appeared dead) to 9 (full survival). Fall establishment, cold tolerance and winter survival were factors in the spring stand values.

3. Yields reported ranged from 118 to 185 bushels/acre. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 6 of the 60 entries in this trial. The variety ‘Puma’, a newly released variety from WSU, was the highest yielding named entry in the trial. ‘Mary’ had the highest yield over 5 years at this location. There was inconsequential stripe rust observed at this location and no fungicide was applied.

4. Test weights averaged 59.9 lbs/bu and ranged from 56.5 to 63.2 lbs/bu. Grain protein at 11.5% averaged lower than in 2013 with a range of 10.3 to 12.7%. Plant height averaged 39 inches and some entries lodged.