

**Date:** February 1, 2004

**Plant Breeder:** Marcus Jacobson

**A: Identification:**

**1) Crop Kind and Market Class:** Soft White Common Winter Wheat

**2) Selection No's.** 93-1 x 9000

**3) Name** MJ-9

**4) Pedigree:** Madsen/W-11

**B: General Situation**

**1) Use Type:** Soft white common cookie, cake and pastry wheat

**2) Description:** MJ-9 is a semi dwarf, stiff straw, white winter wheat originating from a selection of a cross of Madsen and a selection of the breeder called W-11. MJ-9 has a white glume with white awn and white or light colored straw. MJ-9 contains an awnless variant in a less than 1% frequency through out the crop

**3) Intention:** Targeted to the intermediate to high rainfall zone as supplement and or a replacement for Madsen winter wheat with better end use quality than Madsen.

**C: General Agronomics:**

**1) Agronomic performance:** The average yield in the replicated WSU Cereal Variety Evaluations in two years, 2004 and 2005 was 106% of Madsen in high production areas. In the same trials under irrigation MJ-9 was 107% of Madsen. In lower rain fall or 60 bu. or less production areas MJ-9 yield was 83% of Madsen.

**2) Other Agronomic Traits:** MJ-9 contains an awnless variant in a less than 1% frequency through out the crop

**a) Plant Height:** 34 inches

**b) Heading Date:** MJ-9 is three days later in heading than Stephens and two days earlier in heading than Cashup

**c) Test Weight:** 57.5 in 2003 57.8 in 2004 (WSU Variety Testing Program)

**d) Grain Protein Content:** Grain protein content of MJ-9 is typically average for a soft white winter wheat with an average protein content of approximately 10%

**3) Quality:** Quality data from USDA/ARS Western Wheat Quality Lab has shown MJ-9 to have quality that maintains the quality of PNW wheat.

**4) Resistance to Disease and Insects:**

**a) Stripe Rust:** MJ-9 shows moderate resistance to stripe rust

**b) Leaf Rust:** MJ-9 shows resistance to leaf rust

**c) Powdery Mildew:** No data is available for assessment

**d) Snow Mold:** MJ-9 shows susceptibility to snow mold

**5) Area of Adaptation:** MJ-9 has broad adaptation to higher rainfall production areas in Oregon, southwestern Washington and northern Idaho.

**6) Weaknesses:**

**7) Seed Source, Status, Availability:** Breeder and Foundation seed stocks will be maintained by the breeder. MJ-9 will be sold as Foundation, Registered and Certified Seed class. Foundation, Registered and Certified seed stocks are available from the breeder and MJ-9 license holders.

Marcus Jacobson



Pullman, Washington