Dayton Soft White Spring Wheat – Preliminary Data

1. Grain yield in the Dayton soft white spring wheat trial averaged 51 bushels/acre, 5 bushel/acre lower than the 5-year average. The Dayton nursery was located 6 miles north of Dayton, WA (Jay Penner, cooperater).

2. This nursery was seeded on 19 March, 2010 following winter wheat. Seed was placed at an 80#/acre seeding rate using a double disk plot drill set on 6-inch spacing. Base fertilizer was 100#N/acre. Spring seeding conditions were good, but early spring conditions were dry until unusually prolific rainfall started in May. At the field tour for this location, on June 29, the leaves of susceptible varieties were covered with stripe rust and enough spores were shed to color the soil reddish. This severe stripe rust infestation reduced yields and test weights.

3. Yields ranged from 40 bu/ac to 63 bu/ac. Yield values within the LSD range of the highest yield are shown in bold and 3 of the 24 entries are in this group. Wakanz was the highest yielding named variety and the club varieties followed. The lattice RCBBD experimental design improved variation allocation during statistical analysis and the CV by 9% for yield.

4. Test weights were low due to stripe rust and averaged 56.1 lb/bu and ranged from 54.4 to 57.9 lb/bu. Grain protein averaged 11.8% with a range of 11.0 to 13.0%. The average plant height was 37 inches.