1. Grain yield in the St. John spring barley trial averaged 4760 lb/ac, 5% higher than the average 5-year yield for this location. The St. John nursery was located about 3 miles east of St. John, WA (Mac Mills, cooperator).

2. This nursery was seeded on 20 April, 2009 following winter wheat. Seed was placed at a 90#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer was applied at 70#N and 10#S per acre. Spring seeding conditions were good with moisture rated 7 out of 10 and spring rain made the early outlook good for the spring crop. For grain yield, the alpha lattice experimental design improved variation allocation during statistical analysis and the CV by 51% compared to an RCBD design.

3. Yields ranged from 3680 lb/ac to 5620 lb/ac, with a CV of 8%. Yield values within the LSD range of the highest yield are shown in bold and 9 of the 36 entries are in this group. Six-row barley entries are listed in italicized print and hulless cultivars are noted.

4. Test weights were good with an average of 49.9 lb/bu. Plump grain (>6/64" screen) averaged 90%. Grain protein was high and averaged 13.3%. The average plant height was 23 inches. No lodging occurred.