1. Grain yield in the Almira spring barley trial averaged 3710 lb/ac, just 2% higher than the average 5-year yield for this location. The Almira nursery was located about 10 miles north of Almira, WA (Dan McKay, cooperator).

2. This nursery was seeded on 20 April, 2009 following summer fallow. Seed was placed at a 70#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer was applied in the fall as 80#N and 10#S per acre, and a spring soil test showed more than adequate available nutrients. Spring seeding conditions were rated 7 on a 1-10 scale and spring rain made the outlook good for the spring crop. The alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by 50% compared to an RCBD design.

3. Yields ranged from 2760 lb/ac to 4520 lb/ac, with a CV of 11%. Yield values within the LSD range of the highest yield are shown in bold and 10 of the 36 entries are in this group. Six-row entries are listed in italicized print and hulless cultivars are noted. Test weights were good with an average of 48.8 lb/bu. Plump grain (>6/64” screen) averaged 82%. Grain protein was high averaging 14.1% and is higher than desired due to high available N at this site. The average plant height was only 25 inches.