Test Site Information - SRPN

Clovis, NM -- The irrigated nursery was planted on 9/21/93 in fallow land that was in sorghum during 1991. Plots were irrigated on 9/20/93, 11/91/93, 12/10/93, 1/17/94, 3/21/94, 4/18/94, 5/20/94 and 6/2/94. Fertilizer rates consisted of 180 lbs/a N and 30 lbs/a P_2O_5. Seeding rate was 90 lbs/a. Harvested on June 21, 1994. The dryland nursery was planted on 9/15/93 at a rate of 40 lbs/a. Fertilizer rates were 6 lb/a N and 30 lb/a P_2O_5. Harvested on June 16. A freeze on April 6 resulted in lower yields in both dryland and irrigated trials.

Farmington, NM -- Electrical problems with a center pivot irrigation system during heading resulted in highly variable plots. Yield data was considered unusable and is not included in the report.

Bushland, TX -- No additional information.

Chillicothe, TX -- No additional information.

Prosper, TX -- No additional information.

Oklahoma Sites -- No additional information.

Hutchinson, KS -- Good fall stands with no winter damage. Spring temperatures and moisture allowed for average development and minimal disease pressure. Hot winds on June 2nd prematurely shortened the grain filling period and hastened ripening.

Manhattan, KS -- Good fall stands with no winter damage. Spring conditions were good with average development and yield potential. A late infection of leaf rust was adequate for notes but likely did not reduce yields. Lodging was a problem for taller, weak strawed selections. Hot winds on June 2-3 prematurely ripened the wheat and reduced an otherwise promising crop.

Hays, KS -- No additional information.

Garden City, KS -- No additional information.

Colby, KS -- No additional information.

Colorado Sites -- Data were not very 'normal' due to extreme drought during grain fill. Test weights were very low and yields unusually low at Akron and Julesburg. Later entries were at a considerable disadvantage.

Nebraska Sites -- Winterkilling was minimal throughout the state. The growing season was considered cooler in fall and early spring, followed by warmer than normal conditions with less moisture. Drought and heat, especially in early June, were primary limitations to production. Insect and disease pressures were minor. Wind damaged the nursery at Sidney and rep 3 of the SRPN was dropped from analyses.

Brookings, SD -- (Brookings County, Aurora Farm)
Planted on 9/23/93 and harvested on 8/2/94. The nursery was planted into chem-fallow ground with above-optimal soil moisture. No supplemental fertilizer was applied. Fall stands were excellent but insufficient snow cover caused significant winter-kill in both the NRPN and SRPN. Unseasonably warm, dry, and windy weather from approximately 5/16-5/27 hastened heading and caused some sterility problems. Excessive weed pressure from reduced stands also contributed to excessive variability within the nurseries.

Pierre, SD -- (Hughes County, Dakota Lakes No-Till Research Farm)
Planted on 9/15/93 and harvested on 7/12/94. The nursery was planted into lentil stubble on no-till ground. Soil moisture at planting was below optimal, yet light rains were experienced one day after planting. Fertilizer applications, for a 60 bushel yield goal, included 70 lbs 18-46-0 (diammonium phoshpate) at seeding and 200 lbs 46-0-0 (urea) in late fall. Fall stands were excellent and no differential winter-kill was recorded. Unseasonably warm, dry, and windy weather from approximately 5/16-5/27 hastened heading and caused some sterility problems. Seasonal precipitation (from April-June) at the site was about 50% of the long-term average, which resulted in significantly depressed yield levels in both the NRPN and SRPN.

Winner, SD -- (Tripp County, Farmer-Cooperator)
Planted on 9/16/93 and harvested on 7/19/94. The nursery was planted into summer fallow ground with extremely good soil moisture. No supplemental fertilizer was applied. Fall stands were excellent. Blowing soil caused some damage in certain parts of the field, especially that portion of the field where the NRPN and SRPN were sown. Unseasonably warm, dry, and windy weather from approximately 5/16-5/27 hastened heading and caused some sterility problems. Damage from this pre-anthesis stress was partially offset with good rains in early June that carried the crop toward maturity

Columbia, MO -- Relatively mild winter and cool early spring. Septoria leaf blotch and BYDV was present in mid-spring. Some scab and Septoria glume blotch occured late. Planted on 10/13/93 with seeding rate of 1.5 bu/a. Fall fertilizer consisted of 40-40-40, with additional 80 lbs/a N applied in spring. Harvested on 6/30/94.

Lind, WA -- The nursery was abandoned.

Aberdeen, ID -- Entries from private companies were excluded from the trial due to a shortage of irrigated nursery land. The SRPN was irrigated to full replacement of evapo-transpiration and received a total of 28.9 inches of moisture. Planted on 9/10/93 and harvested on 7/16/94.