

REPORT OF THE NATIONAL CERTIFIED SMALL GRAIN VARIETY REVIEW BOARD

The National Certified Small Grain Variety Review Board has considered the application for certification of Prodax Hard Red Spring Wheat and has concluded that this variety is eligible for certification.

VARIETY: Prodax

APPLICANT: Northrup, King & Co., 13410 Research Road, Eden Prairie, Minn. 55343

VARIETY NAME PROPOSED: Prodax                      EXPERIMENTAL DESIGNATION: 73Y313

Information pertinent to certifying agencies which was requested on the application and the information submitted by the applicant are given below. The applicant should be contacted if additional information is desired.

PRODAX HARD RED SPRING WHEAT

- I. The kernels of Prodax are free threshing, mid-long, hard, red and ovate. The cheeks are rounded with a deep narrow crease. The brush is long and not collared. The phenol reaction of the pericarp is brown.

The coleoptile is white and seedling anthocyanin is absent. Juvenile growth habit is erect. Plant color at booting is blue-green. The flag leaf at booting is recurved and not twisted. Waxy bloom is present on the flag leaf sheaths and on the peduncle. Leaf blades and sheaths are not hairy. The auricles are not hairy and have no anthocyanin. The stem is hollow. Usually three stem-nodes originate from the node above ground.

The spike is fully awned, oblong, lax and inclined. Glumes are glabrous, white, long and wide, with a well defined keel. Shoulders are elevated; beaks are acuminate. The awns are white, the anthers yellow.

Prodax is of spring growth habit. It is well adapted in the southwestern, northwestern and northcentral spring wheat areas of the United States. Prodax is a mid-season variety in Arizona and California, with a maturity slightly later than that of Cajeme. In the northwest, Prodax matures slightly later than the spring wheat varieties Protor and Prospur. In the midwest, Prodax has a maturity equal to or slightly earlier than Era.

Prodax is a short wheat with a height slightly taller than Cajeme in Arizona and California, slightly shorter than Prospur in the northwest, and slightly shorter than Era in the northcentral region. The stems are strong and resistance to lodging is good. Prodax combines good resistance to shattering with good threshability.

- II. Prodax is adapted in the Red River Valley, the Columbia Basin, Eastern Idaho and in the irrigated areas of Arizona and Southern California. Judging from its yield performance in these areas, it appears to have an unusually wide range of adaptation.

- III. The distinguishing characteristics of this "single dwarf" spring wheat useful for field identification are a deep blue-green color at heading, a long, lax awned head with white glumes, which have a long beak and a well-defined keel.
- IV. Breeder seed will be maintained by Northrup, King & Co. Certification classes of seed of Prodax shall be restricted to Breeder, Foundation, Registered and one generation of Certified. Procedures to be followed for obtaining any of the stated certification classes shall conform to the regulations of the Crop Improvement Association where seed is being produced.
- V. Application will be made to the Plant Variety Protection office, specifying that the variety is to be sold by variety name only as a class of certified seed.
- VI. Certified seed will first be offered for sale in the fall of 1974 in Arizona and California.