WHEAT 96WV53620

"BLANCA GRANDE"

B. Origin and breeding history of 96WV53620

Experimental wheat 96WV53620 is the result of hybridization, individual plant and bulk selection from the cross Cleo/2Inia/3/PB775/4/Klasic/5/Express. Cleo/2Inia is a Septoria leaf blotch resistant line obtained from the University of California, Davis. Probrand 775 and Klasic are wheats from the once existant Northrup King, Co. breeding program. Express is a variety from Western Plant Breeders.

The last cross involving Express as a parent was made in 1992 at Woodland, Ca. and the F1 was grown in Gonzales, Ca. All even numbered plant selection generations were grown at Woodland while all odd numbered ones were grown at Gonzales. In 1994 the F4 generation was bulk harvested and in 1995 the F5 seed was entered into a preliminary yield trial. In all subsequent years, this line was tested for agronomic performance in California yield trials. In 1996 spike samples were taken from the bulk population and grown as head rows. This procedure of head to row selection continued until 1999 whereupon a single head row bulk selected for uniformity to type was advanced to our Gonzales location for a breeder seed increase. Breeder will produce foundation seed in year 2000.

It has been noted during seed multiplication that taller variants can be found in this variety at a frequency of no more than 0.5%.

C. Description of 96WV53620.

96WV53620 appears to be a single gene dwarf being about 40" in height and about 4" taller than the variety Klasic (table 1). It is, like Klasic, a hard white spring type. It has erect juvenile growth.

D. A two year data summary shows 96WV53620 to be a good performer in both the Sacramento and San Joaquin valleys (table 39, U.C. Agronomy Progress Report 265, October, 1999).

E. This wheat is best adapted to the San Joaquin valley where it may possibly be released. It compares most favorably with Klasic for both yield and bread quality (tables 38 and 39, U.C. Agronomy Progress Report 265, October, 1999). The test weight data from table 2 is also quite favorable for 96WV53620.

F. 96WV53620 will be maintained as a pure-line by periodic bulk increases from breeder seed. Certified classes will be restricted to two consecutive foundation seed increases but one generation of registered and certified. RSI will carry out breeder and in some instances foundation seed increases, but licensees will be responsible for registered and certified production.