

A. Variety Name: Utopia- (DOI 933)

- B. Utopia is a black awned, short durum derived from exploitation of a " one irrigation " low input Male Sterile Facilitated Recurrent Selection population established at the University of Arizona, Mesa Experimental Station in 1982. The MSFRS population was developed by R. K. Thompson until his retirement. It was continued by R.T. Ramage from 1988 until his retirement.

Utopia was increased from a single F-2 head selection. Present foundation seed was grown at Maricopa, Arizona in 1996 from increases from a single F-7 " best plant " grown at Moscow, Idaho in 1993. Utopia was entered into the Morocco National Trials in 1995. In 1997, foundation seed is being grown at Quincy , Washington from 1996 head rows harvested at Maricopa, AZ. In 1996.

Utopia has shown uniformity and yield stability within cultural regimes, high input fully irrigated and low input with limited irrigation. In the 1996 foundation seed increase plants with white awns were rogued at approximately 1 in 500. Recessive male sterility was utilized in the variety development . Black awns are dominant. Because of the possibility of seed set on unidentified male sterile plants and failure to identify recessive white awns, Male sterile plants and / or white awns may appear in the next generation at .001 percent.

- C. Utopia is most similar to Mexicali 75 except for the following differences:
1. Mexicali 75 has white glumes and awns, DOI 933 has white tanish glumes with black, semi- deciduous awns.
 2. The back of Utopia glume beaks is black and to a lesser extent the ridge of the shoulder is black.

Utopia is a semidwarf spring durum. Juvenile growth is erect. The flag leaf at booting is erect, dark green and recurved. At maturity, stem and spike are white to tan with black awns. Spikes are mid- dense, slightly tapered and incline at 15° angle. Lodging susceptibility is somewhat less than for Mexicali 75. Plant height ranges from 6 inches shorter under full irrigation and fertilization to 1 to 2 inches shorter than Mexicali 75 under more stringent low input conditions. Maturity is very early, similar to Mexicali 75.

Seeds of Utopia are large and long, elliptical, yellow amber and free of black point with shallow creases and rounded cheeks. Seed size and weight at 61 grams per 1000 kernels is usually greater than that for Mexicali 75 at 58 grams. Test weights are similar. Glumes are large, long and glabrous with rounded to elevated shoulders. The glume beak is 3mm long and black. The shoulder ridge is black. Awns are long, Black and semi-deciduous.