**Durum Wheats**

**BEN** - Developed from the cross of D8024/Monroe by the North Dakota Agricultural Experiment Station. Ben is a high-yielding, high-test weight, stiffed-strawed variety. It is a day length-sensitive durum. Ben has long erect spikes, is awned, mid-dense and oblong. Ben is a medium tall, medium maturing variety. It has three per 10,000 plants which are taller than the average height of the crop. Depending on the environment Ben may have one per 1000 bronze-colored chaffed plants in a field. Ben is resistant to stem rust, leaf rust and tan spot. It is moderately resistant to Fusarium head blight. Ben is protected under the Plant Variety Protection Act of 1994 and can only be sold or advertised by variety name as a class of certified seed.

**KYLE** - Developed from the cross of Wakooma/2/(DT322, Blue Giant/4*Lakota)/3/Wakooma/2/(DT320, Blue Giant/2*Lakota) by Agriculture Canada Research Station, Swift Current, Saskatchewan. It was released in 1984. Kyle has a white glumed, glabrous spike, with long spreading awns that turn black at maturity. It has medium-sized kernels. Kyle is resistant to prevalent races of leaf and stem rust. It is moderately susceptible to tan spot and septoria leaf spot and susceptible to loose smut.

**LEBSOCK** – Lebsock was released in 1999 by the North Dakota Agricultural Experiment Station. It has good yield, high test weight and a high semolina extract. Lebsock is a stiff-strawed durum with medium height and maturity with day length sensitivity. It is resistant to stem and leaf rust and moderately resistant to Tan spot and Fusarium head blight. Lebsock is protected under the Plant Variety Protection Act with Title V.

**LLOYD** - Developed from the cross of Cando/Edmore by the North Dakota Agricultural Experiment Station in cooperation with the Agricultural Research Service, USDA. It was released in 1983. It is a semidwarf spring durum. The spike has white awns and glumes. Lloyd is resistant to most stem rust races, moderately resistant to leaf rust and black point, and moderately susceptible to stripe rust. It has satisfactory milling characteristics and a strong gluten similar to Vic. Spaghetti made from Lloyd has significantly greater firmness when cooked compared to Cando durum.

**MAIER** – The North Dakota Agricultural Experiment Station released Maier durum wheat in 1999. Maier is a late maturing, stiff-strawed, day length sensitive durum with a medium height. Maier has a good semolina extraction with strong gluten. Maier is resistant to stem and leaf rust diseases. Maier is protected under the Plant Variety Protection Act with Title V.

**MEDORA** - Developed from the cross of Ward/Macoun by Agriculture Canada Research Station, Winnipeg, Manitoba, Canada. It was released in 1982. It is a spring durum wheat. The spike is awned and white chaffed, tapered, mid-long, mid-dense and erect. The glumes are glabrous, narrow, mid-long and mid-wide. The shoulder is square to elevated, beak mid-wide, short and acuminate. The kernels are hard amber, mid-sized, mid-wide, medium to short and ovate. The cheeks are angular, crease mid-wide, mid-deep, with mid-sized brush and mid-long hairs. The germ is oval, mid-sized to large. Medora is distributed by SeCan Association, Ottawa, Ontario, Canada.
MONROE - Developed from the cross of (D6771/Rugby)/Vic by the North Dakota Agriculture Experiment Station. It was released in 1985. It is early maturing with white chaff. The kernels are large. Monroe is resistant to prevalent races of stem rust and moderately resistant to prevalent races of leaf rust. The combination of earliness and high yield makes Monroe well suited for growing in all durum areas of the state.

MOUNTRAIL – Developed from the cross D8479/Renville made by the North Dakota Agricultural Experiment Station which was released in 1999. Mountrail is a medium height, late maturing, stiff-strawed, day-length sensitive durum wheat. It is resistant to both leaf and stem rusts, but only moderately resistant to Tan spot and Fusarium head blight. Mountrail has a high semolina extract with strong gluten. Mountrail is protected under the Plant Variety Protection Act with Title V.

MUNICH - Developed from the cross D8030/D8016 by the North Dakota Agricultural Experiment Station and released in 1995. It is a day length sensitive durum wheat. Munich is a strong gluten durum variety. It is resistant to leaf rust and stem rust. It has a moderate resistance to scab. This variety is protected under the Plant Variety Protection act of 1994 and can only be sold or advertised by variety name as a class of certified seed.

PLAZA – Derived from the cross, DT606/D8291, and released in 1999 by the North Dakota Agricultural Experiment Station. It is a late maturing semi-dwarf durum. Plaza has an average protein with strong gluten. It is resistant to leaf and stem rusts. Plaza is protected under the Plant Variety Protection Act with Title V.

PLENTY - Developed from the cross of (Vic/Wascana//Hercules/DT 310) by University of Saskatchewan, Saskatoon, Saskatchewan and released in 1990.

RENVILLE - A durum wheat variety developed from the cross of Rolette/Vic by the North Dakota Agricultural Experiment Station in cooperation with the United States Department of Agriculture and released in 1988. Renville has yielded significantly more than Vic in North Dakota trials. The plant height is similar to Vic, however lodging may occur under high moisture and high fertility conditions. The maturity is later than Vic and similar to Lloyd. Test weight has been good, with kernel weight less than Vic and Monroe, but similar to Cando. Renville has shown good resistance to stem rust and leaf rust. Milling characteristics are good, the gluten is strong, and spaghetti color and cooking characteristics are acceptable.

UTOPIA - Utopia was derived from exploitation of a "one irrigation" low input Male Sterile Facilitate Recurrent Selection population established at the University of Arizona, Mesa Experimental Station in 1982. Utopia is a semi-dwarf spring durum. Spikes are mid-dense, slightly tapered and incline at a 15 degree angle. At maturity, the stem and spike are white to tan with black awns. Glumes are large, long and glabrous with rounded to elevated shoulders. Seeds of Utopia are yellow amber, large, long, elliptical with shallow creases and rounded cheeks. Breeder seed will be maintained by World Wide Wheat, L.L.C. Utopia is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

VIC - Developed from the cross, Edmore/Ward, by the North Dakota Agricultural Experiment Station cooperatively with Agricultural Research, Science and Education Administration, USDA.
This variety was released to growers in 1979. It is a standard height, day length-sensitive spring durum. It has white awns and glumes. Vic is resistant to stem rust and moderately resistant to leaf rust and blackpoint. The milling, processing and cooking properties of this variety are satisfactory.

WARD  - Developed from the cross, Langdon/3/Ld 357//CI 7780/Ld 362/4/Br 180/Wells. It was developed by the North Dakota Agricultural Experiment Station in cooperation with the Agricultural Research Service, USDA. Ward was released in 1972. It is an awned variety with yellow glumes, with high yield potential, good straw and disease resistance and a low incidence of leaf spotting. According to North Dakota its quality characteristics are satisfactory.

WESTBRED LAKER  - Developed by Western Plant Breeders from a three-way composite cross of Mexicali, WestBred 1000D and Calvin, crossed with a combination of ten Italian and CIMMYT lines. Registered seed was released in 1986. This variety is day length sensitive, semidwarf, spring durum. The spikes are awned, erect, dense and oblong. It is white chaffed and white awned. The kernels are amber, hard, long, elliptical, with rounded cheeks and a shallow, narrow crease. The germ is mid-sized, brush small, short, without a collar. WestBred Laker is resistant to prevalent races of leaf and stem rust. It has moderate tolerance to *Septoria tritici* and tan spot, but is moderately susceptible to stripe rust. Its sedimentation and semolina evaluations are acceptable to industry. WestBred Laker is protected under the Plant Variety Protection Act and can only be sold or advertised by variety name as a class of certified seed.

* The asterisk is used as a part of the formulation to indicate the number of backcrosses of parents constituting the variety.