

Manhattan 5 GLR

July of 2006 will bring the latest advancement in the most successful line of Perennial Ryegrass germplasm in the world!!

MANHATTAN 5 GLR (PST-2AM) promises to set the standard for another long run of high quality seed and top performance. Produced by the Manhattan Ryegrass Growers Association, this new cultivar will continue to build on the laurels created by the 40-year history of this program.

While bred to withstand attacks of Gray Leaf Spot, **Manhattan 5 GLR** also possesses salt tolerance, and resistance to not only stem rust, but also leaf spot. It's dark green color and fine texture will insure it continues to be prominent in overseeding programs and permanent turf programs across North America. It's excellent yield potential guarantees good availability at competitive prices.

2005 Mean Stem Rust Ratings		
Hubbard, Oregon		
9 = no disease		
	Fungicide Applied	No Fungicide Applied
PST-2AG4	8.0	6.8
Manhattan 5	7.8	5.5
Silver Dollar	7.3	5.0
Brightstar SLT	7.0	4.8
Applaud	6.8	3.0
Palmer III	5.8	3.0
Pinnacle	6.0	1.0
LSD		1.9

2005 Mean germination rates for entries in a perennial ryegrass laboratory trial in which seeds were germinated in 0 and 7000 ppm NaCl.

Entry	7 Days			13 Days		
	0 NaCl % germ	7000 ppm NaCl % germ	% of control	0 NaCl % germ	7000 ppm NaCl % germ	% of control
PST-2MNG	72.0	86.0	123.2	82.0	91.0	114.8
PST-2AG4	79.0	78.5	99.4	81.0	90.0	111.0
PST-2BLACK	67.0	75.5	113.5	78.5	84.0	109.5
PST-2AM	89.0	86.0	96.6	91.0	92.0	101.2
PST-2GSM	83.0	82.0	99.1	87.0	86.0	99.2
Quickstart II	82.5	77.0	93.3	85.5	84.0	98.3
PST-2LAN	89.5	66.0	73.7	94.5	87.5	92.6
PST-217	87.5	47.5	54.2	90.0	78.0	86.5
PST-2LGS	78.0	56.0	76.0	86.0	69.0	82.7
PST-2J15	93.0	56.0	60.2	97.0	78.5	80.7
LSD (0.05)	19.7	19.4	43.6	NS	NS	NS

Performance of perennial ryegrass cultivars and selection in a turf trial established in August 2004 at New Brunswick, NJ		
	Gray Leaf Spot Jun-05 Average	Turf Quality 2004 Average
Manhattan 5 GLR	7.0	5.9
Mach 1	4.3	4.0
Pinnacle II	4.3	3.8
Affinity	3.7	2.2
Palmer III	3.0	2.8
Manhattan II	0	1.0

Performance of perennial ryegrass cultivars and selection in a turf trial established in August 2004 at New Brunswick, NJ		
	Gray Leaf Spot Oct-04 Average	Turf Quality 2004 Average
Manhattan 5 GLR	8.0	6.8
Paragon GLR	7.7	7.3
Palmer IV	7.3	7.0
Pinnacle II	4.3	3.3
Mach I	3.0	2.5
Manhattan II	0	0

Entered into the **2004 National Perennial Ryegrass** Trials, we are expecting GREAT things from **Manhattan 5 GLR**