

Kentucky Bluegrass Engineered for Turf Health



healthy grass

TECHNOLOGY

Eliminate Summer Patch
Thrives in Heat
Unrivaled Traffic Tolerance
Exceptional Spring Green Up
Defeat Billbug and White Grubs



PATENT PENDING

INTRODUCTION

Diseases, pests and excessive traffic wreak havoc on turf grass. With Barenbrug's Barvette HGT™ bluegrass, you'll find no better friend against those challenges.

HGT stands for Healthy Grass Technology, a tough and disease resistant Kentucky bluegrass. We developed HGT in harsh climatic conditions, specifically to withstand diseases, pests and traffic. Extensive testing in various climates and conditions has proven HGT a winner. No other Kentucky bluegrass has been found to outperform HGT.

The parent stock for HGT came from hearty Kentucky bluegrass plants which had survived intense artificial traffic applications in 2001. Beyond their traffic tolerance, however, the plants also showed rapid recovery afterwards.

But Barenbrug wasn't satisfied with those traits alone. So, with three more years of work – subjecting the



plants to heavy disease pressure in Mid-Atlantic States – we came up with a bluegrass plant that was ready for seed production. After more than a decade of experience, HGT is legendary for its durability and recovery properties. HGT is remarkably disease tolerant to Summer Patch and equally resistant to damage from billbugs and white grubs.

After sowing, HGT establishes quickly, making it ideal for sod farms, golf courses, sports fields, landscapes and lawns.

NTEP Kentucky Bluegrass Trial *Oklahoma State University, Stillwater, OK, 2010**

NAME	Spring Green-Up	Percent Cover Spring	Percent Cover Summer	Percent Cover Fall	Summer Patch
Barvette HGT	6.0	99.0	99.0	99.0	8.0
MIDNIGHT	4.3	80.0	86.0	97.3	6.7
REVELLE <i>Texas Hybrid</i>	4.0	45.0	38.3	46.7	4.7
BANDERA <i>Texas Hybrid</i>	4.7	90.0	81.0	81.7	4.3
RUGBY II	5.7	96.0	93.3	90.0	4.0
SOMBRERO	5.3	73.3	71.0	80.0	4.0
PROSPERITY	4.3	76.7	68.3	71.7	3.7
GREENTeam	5.3	75.0	64.3	70.0	3.7
MOONLIGHT SLT	4.7	58.3	48.3	88.3	3.7
DIVA	5.7	83.3	70.0	78.3	3.3
EMBLEM	4.7	60.0	60.0	68.3	3.0
LSD VALUE	1.6				2.4

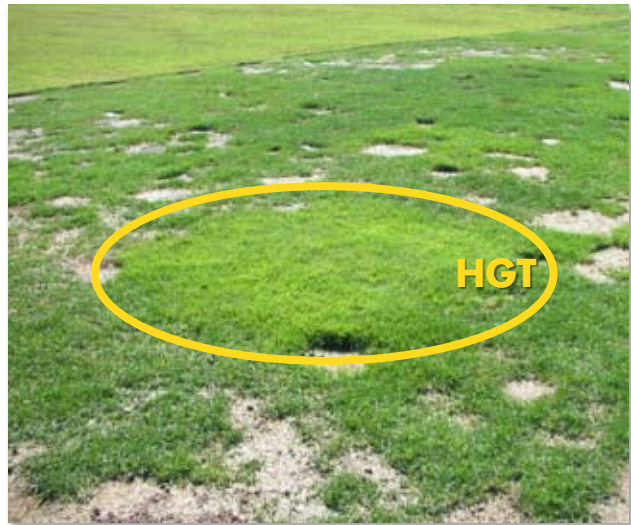
Ratings: 1-9; 9=Best

“Barenbrug USA's Barvette is an aggressive Kentucky bluegrass that demonstrated excellent stand persistence, very good stem rust tolerance and good summer patch tolerance during the 2005-2010 NTEP Kentucky bluegrass trial at Stillwater, OK. I am excited about its commercial release and look forward to hearing of the experiences and feedback from end users in the turfgrass industry.”

Dennis Martin, PhD • Professor & Turfgrass Extension/Research Specialist, Oklahoma State University

SUMMER PATCH WON'T FAZE HGT

Summer Patch can wipe out Kentucky bluegrass completely. HGT is a different story altogether. Tested intensively on many locations across the country and in university trials, HGT stood out for its resistance to Summer Patch. In the National Turfgrass Evaluation Program (NTEP) tests, HGT actually took over some heavily affected neighboring plots. "Barvette HGT (BAR W 0709) was the top TQ entry in the transition zone region, probably because of its excellent Summer Patch tolerance" (Kevin Morris, Executive Director NTEP, *TPI Turf News* July/August 2011). HGT is the first bluegrass that can withstand or recover very quickly from this disease.



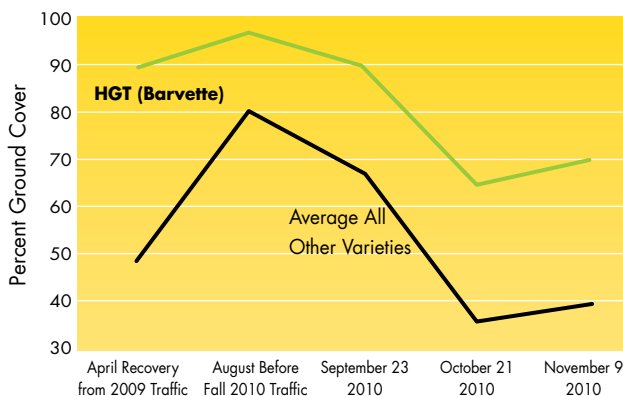
NTEP Kentucky bluegrass trial North Carolina, May 2010

TRAFFIC RESILIENT AND RAPID RECOVERY

As mentioned, HGT not only tolerates traffic but it recovers very quickly from traffic damage. In research studies at Michigan State University, HGT was compared to other high-ranked Kentucky bluegrasses. In every trial, HGT did considerably better than other popular varieties, like Midnight, Prosperity and Jumpstart. Likewise in the NTEP traffic stress tests, HGT came out head and shoulders above other entries both at Michigan State University and Rutgers University trials.

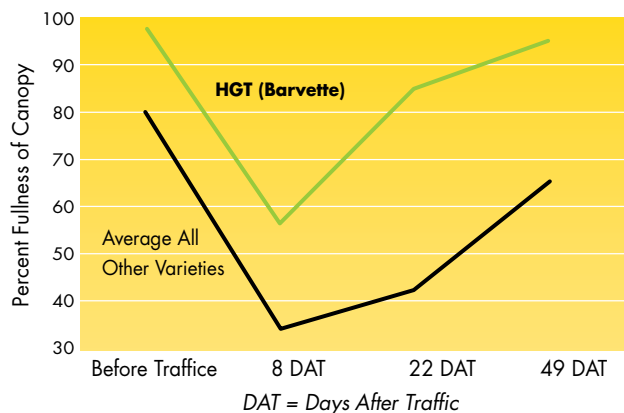
NTEP Traffic Stress Trial

Michigan State University, East Lansing, MI, 2010*



NTEP Traffic Stress Trial

Rutgers University, North Brunswick, NJ, 2010*



Of all of the NTEP-rated grasses, HGT is the highest ranked for tolerance against wear. Six other Barenbrug grasses are ranked in the top ten of that same list.

*All data from 2010 NTEP report. 2010 was the last year of the Kentucky bluegrass trial and this data set demonstrates how a variety improves or fails through the life of the trial.



Michigan State University Wear Trial, October 2010



Michigan State University Wear Trial, May 2011



Kentucky Bluegrass Trial Kentucky, May 2010

NTEP Kentucky Bluegrass Trial - North Carolina State University, Raleigh, NC, 2010*

NAME	Spring Green-Up	Leaf Texture	Density Summer	Density Fall	Summer Patch	Mean
Barvette HGT	8.0	9.0	9.0	9.0	9.0	8.0
REVEILLE <i>Texas Hybrid</i>	6.3	6.3	6.7	7.3	8.8	6.8
ALEXA II	5.3	6.3	5.7	6.3	7.7	6.7
SOLAR ECLIPSE	5.3	6.7	5.3	6.3	8.0	6.3
DIVA	7.3	6.3	5.0	6.3	7.0	5.7
BANDERA <i>Texas Hybrid</i>	3.7	6.3	5.3	6.0	7.7	5.5
PROSPERITY	6.7	6.7	4.7	5.0	7.0	5.0
GREENTEAM	3.3	7.0	5.3	5.7	6.0	4.1
EMBLEM	5.7	6.0	2.7	3.7	4.3	4.0
SOMBRERO	2.7	6.7	3.7	3.7	3.7	3.2
LSD VALUE	1.7	0.9	4.7	5.0	5.4	2.7

Ratings: 1-9; 9=Best

GREEN-UP LIKE NO OTHER BLUEGRASS

Spring green-up is challenging for most Kentucky bluegrass varieties. HGT breaks the barrier on that account. It greens up in the spring like no other bluegrass, even on sports fields that are used all winter long. HGT is a blessing for turf managers needing an early spring season with healthy, green grass.



Early spring green-up in Minnesota trial

GRUBS 'N BUGS DON'T LIKE HGT – HEALTHY GRASS IS THE RESULT

White grubs and billbugs can devastate Kentucky bluegrass. That's not the case with HGT. The NTEP

tests acknowledged HGT for having the highest tolerance against these bluegrass foes.

NTEP Billbug Trial

Utah State University, Salt Lake City, UT, 2008

NAME	JULY
4-Season	7.7
Barvette HGT	7.0
Prosperity	6.7
Midnight	4.7
GreenTeam	4.3
Bandera Texas Hybrid	2.7
Reveille	2.0
LSD Value	2.8

9 = No Damage

NTEP White Grub Trial

University of Tennessee, Knoxville, TN, 2010*

NAME	JULY	AUGUST	MEAN
Barvette HGT	25.0	21.0	23.0
Midnight	31.7	40.0	35.8
Reveille Texas Hybrid	37.3	56.7	47.0
Bandera Texas Hybrid	41.7	56.7	49.2
Prosperity	50.0	75.0	62.5
GreenTeam	51.7	79.0	65.3
Diva	71.7	80.7	76.2
LSD Value	23.2	25.4	22.3

The lower the percent, the less damage on the variety

GERMINATION & ESTABLISHMENT

An important part of HGT is its quick germination and establishment. Whether you need your sports field ready quicker, to harvest sod faster or just to have your fairway ready for golfers sooner, HGT will get the job done. Count on HGT to germinate in as few as seven days, depending on weather conditions.



Philadelphia Eagles trial plot after eight weeks

YELLOW JACKET® COATED

Yellow Jacket®, Barenbrug's proprietary seed coating technology, holds up to 600 times its own weight in water. Research trials at the University of New Mexico proved that seed coated with Yellow Jacket established faster and required less water. Using



ZEBA® technology for super absorbency, Yellow Jacket also includes Dormbreaker™, a Barenbrug invention that stimulates quicker seed germination.

HGT thrives with a Yellow Jacket coating and we strongly recommend its use for optimum, dependable results.

“The HGT we seeded in late April germinated and filled in tremendously compared to the other bluegrasses used. Despite hot, humid summers in Philadelphia, HGT survived without any dieback. I was very pleased with HGT and see a fit for this grass in the future on sports fields.”

Tony Leonard • Director of Grounds, Philadelphia Eagles

WHERE TO PURCHASE HGT

HGT is sold in blends as TURF BLUE HGT or in mixtures – with perennial ryegrass or tall fescue, for example. HGT is most effective with blends, as it creates a synergy with other varieties that provides stronger and healthier stands. HGT is available through approved Barenbrug distributors.

Now available in Turf Blue - Premium Bluegrass Blends



HGT SOD – WHERE TO FIND A QUALIFIED GROWER

HGT is also available in sod, from licensed sod growers. Sod Solutions, a specialist in managing high quality turf grass growers, licenses and monitors our network of HGT growers. This level of quality control is necessary to guarantee the best HGT sod. For a list of HGT sod growers or for information about growing HGT sod, please contact Sod Solutions – 843.849.1288 – or visit sodsolutions.com.



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