

GRUBS AND BILLBUGS NOT A PROBLEM – HEALTHY GRASS IS THE RESULT

White grubs and billbugs can commonly devastate Kentucky bluegrass turf. Turf Blue HGT varieties, led by Barvette HGT’s #1 ranked performance against white grubs in the 2006-10 NTEP trial, provide excellent tolerance to turfgrass insect pests.

**NTEP Billbug Trial**  
*Utah State University, Salt Lake City, UT, 2008*

NAME	JULY
4-SEASON	7.7
<b>BARVETTE HGT</b>	<b>7.0</b>
PROSPERITY	6.7
MIDNIGHT	4.7
GREENTeam	4.3
BANDERA TEXAS HYBRID	2.7
REVEILLE	2.0
LSD VALUE	2.8

9 = No Damage

With more communities and facilities reducing or eliminating the use of turfgrass insect controls, Barenbrug’s Turf Blue HGT blend provides safe, natural, “green” protection.

**NTEP White Grub Trial**  
*University of Tennessee, Knoxville, TN, 2010*

NAME	JULY	AUGUST	MEAN
<b>BARVETTE HGT</b>	<b>25.0%</b>	<b>21.0%</b>	<b>23.0%</b>
MIDNIGHT	31.7%	40.0%	35.6%
BANDERA	41.7%	56.7%	49.2%
SUDDEN IMPACT	46.7%	62.7%	54.7%
PROSPERITY	50.0%	75.0%	62.5%
4-SEASON	60.0%	71.7%	65.8%
GLENMONT	68.3%	86.7%	77.5%
LSD VALUE	23.2%	25.4%	22.3%

*The lower the percent, the less damage on the variety*

GERMINATION & ESTABLISHMENT

Quick germination and rapid establishment are terms rarely associated with Kentucky bluegrass. Barvette HGT, however, didn’t get the memo. With germination typically fewer than 10 days and aggressive, rapid establishment, Barvette HGT is a ‘game changer.’ Fields can now be played on

faster, fairways can now be successfully renovated and tees more quickly brought back in use. Weeds are also successfully competed against with Turf Blue HGT’s aggressive growth habit. For bluegrass sod production, fields establish more quickly, field yields increase and pallet quality shines.

YELLOW JACKET® ENHANCED SEED COATING

Yellow Jacket®, Barenbrug’s proprietary, enhanced 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 during establishment. Using ‘super absorbent’ technology, Yellow Jacket also includes Dormbreaker™, a Barenbrug exclusive that stimulates faster, stronger seed germination. Turf Blue HGT thrives with enhanced Yellow Jacket coating and is strongly recommended.

“We here at Maryland SoccerPlex are HGT’s biggest fans! Germination speed and seedling development made it possible for us to fully rebuild, seed and re-open our stadium field in 35 days using HGT. Under stress from professional soccer, youth soccer, lacrosse and rugby, the HGT never really showed wear.”

Jerad Minnick • Agronomic Specialist, Maryland SoccerPlex

WHERE TO PURCHASE HGT

Barvette HGT is the primary component of Turf Blue HGT and is also a component of Barenbrug mixtures – with either RPR® regenerating perennial ryegrass or Turf Saver RTF®, rhizomatous tall fescue. Most effective in blends and mixes, Barvette HGT creates a synergy with other varieties providing stronger, healthier turf. HGT is available through approved Barenbrug distributors.

Now available in Turf Blue - Premium Bluegrass Blends



HGT BLUEGRASS SOD: A GAME CHANGER AT HARVEST AND INSTALLATION

HGT bluegrass blends are ideal for Kentucky bluegrass sod production. Vigorous to germinate and establish, HGT quickly forms strong rhizomatous growth with an extensive root system. This growth allows for excellent ‘sod strength,’ reduced field waste, great pallet appearance and quality ‘big roll’ installations. When Kentucky bluegrass is the game, HGT is the bluegrass of choice.



*To determine whether a cultivar’s performance is significantly different from other entries, subtract one entry’s mean from another entry’s mean. If this value is larger than the LSD value, the observed difference in cultivar performance is significant and did not happen by chance. Complete tables are available upon request.*

**Distributed by:**

Healthy Grass Technology Exclusively From

Kentucky Bluegrass Engineered  
for Turf Health



Fast Germination and Establishment  
Excellent Sod Formation  
Superior Summer Patch Resistance  
Early Spring Green-Up  
Excellent Summer Performance

PATENT PENDING



INTRODUCTION

Slow establishment, diseases, insect pests and excessive traffic can significantly weaken and damage turf grass. With Barenbrug’s new HGT® mixes of Kentucky bluegrass featuring Barvette HGT Kentucky bluegrass you’ll find professional turf solutions against these common bluegrass challenges.

HGT stands for Healthy Grass Technology and features proven durable, disease resistant Kentucky bluegrasses, including Barvette HGT. Developed in harsh climatic conditions, specifically to establish quickly, withstand diseases, insect pests and traffic, extensive testing in NTEP under various climates and conditions has proven Barvette HGT a winner. Barvette HGT ranked #1 or in the top statistical group in 16 different bluegrass traits in the recently completed 2005-10 Kentucky bluegrass NTEP trials.

Developed from extremely traffic tolerant parent stock, Barvette HGT was subjected to intense multiple

traffic simulation studies for years prior to release. These studies proved not only traffic tolerance, but also the unique ability for strong, rapid recovery from traffic damage.

An additional three years of studies in the Mid-Atlantic region proved outstanding disease resistance, especially to summer patch and stem rust. With more than a decade of turfgrass breeding and three years of professional use, Barvette HGT’s popularity and use grows annually. With exceptionally fast establishment, durability and recovery properties, Barenbrug’s Turf Blue HGT mixture has become a ‘standard’ for Kentucky bluegrass sports turf, bluegrass sod production and golf fairways and tees.



NTEP Kentucky bluegrass Trial Oklahoma State University, Stillwater, OK, 2010

NAME	Spring Green-Up	NAME	Summer Patch	NAME	Percent Cover Summer
WASHINGTON	6.3	<b>BARVETTE HGT</b>	<b>8.0</b>	<b>BARVETTE HGT</b>	<b>99.0%</b>
<b>BARVETTE HGT</b>	<b>6.0</b>	MIDNIGHT	6.7	BARDUKE	86.0%
RUGBY	5.7	ALEXA II	6.3	RHAPSODY	76.7%
BARRARI	5.3	BARDUKE	5.7	ZINFANDEL	71.7%
BARON	5.3	RHYTHM	5.3	IMPACT	68.3%
BARRISTER	5.0	BELISSIMO	5.0	WASHINGTON II	56.7%
BANDERA	4.7	BANDERA	4.3	GRANITE	48.3%
BEYOND	4.7	GLADSTONE	3.5	HARMONIE	38.3%
MIDNIGHT	4.3	4-SEASON	2.7	WILD HORSE	21.7%
AWARD	4.0	WILD HORSE	2.3	RUBICON	5.0%
		LSD VALUE	2.0	LSD VALUE	46.7%

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.”

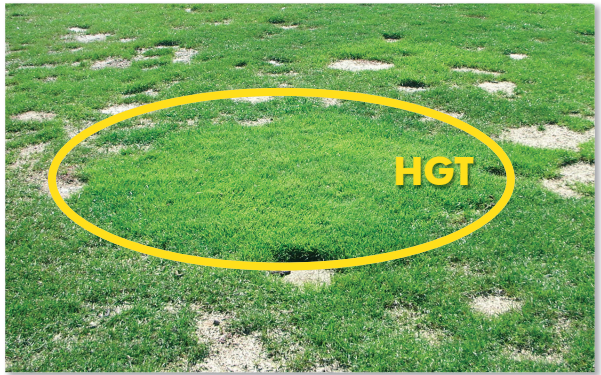
Dennis Martin, PhD • Professor & Turfgrass Extension/Research Specialist, Oklahoma State University

RESISTANCE TO SUMMER PATCH AND RUST

Summer patch is a serious turf disease that causes significant damage to most Kentucky bluegrass varieties. Tested intensively at many locations across the country and in university trials, Barvette HGT has shown excellent resistance to summer patch. At all three test sites for the National Turfgrass Evaluation Program (NTEP), Barvette HGT ranked number one and actually took over some heavily damaged neighboring bluegrass plots

“Barvette HGT (BAR VV 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).

During this same NTEP trial, 2005-10, Barvette HGT also exhibited outstanding stem rust resistance, topping the first statistical grouping for the five locations reporting data.



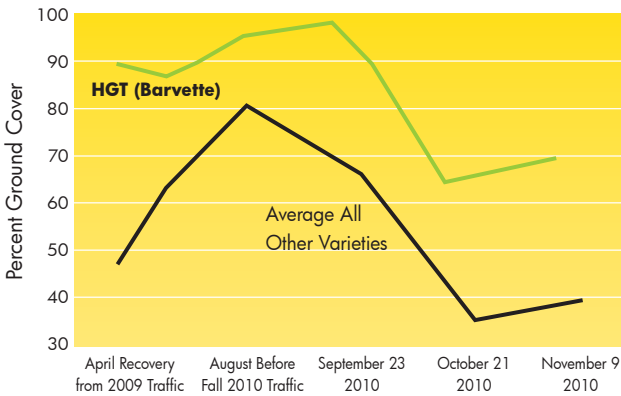
NTEP Kentucky bluegrass trial North Carolina, May 2010

TRAFFIC RESILIENT, RAPID RECOVERY, TENSILE STRENGTH

Barenbrug’s Turf Blue HGT blend of Kentucky bluegrasses offers outstanding traffic tolerance and wear recovery. In research studies at Michigan State University, Barvette HGT was trialed with other high-ranked Kentucky bluegrasses. In the 2010 study of 109 commercial varieties and experimentals, Barvette HGT was the top rated variety for wear recovery, percent ground covered and turf quality. Likewise in the NTEP traffic stress tests, Barvette HGT topped all other entries at both Michigan State University and Rutgers University trials.

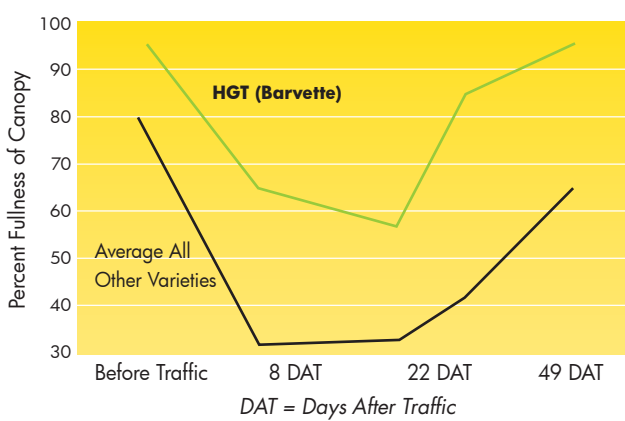
NTEP Traffic Stress Trial

Michigan State University, East Lansing, MI, 2010\*



NTEP Traffic Stress Trial

Rutgers University, North Brunswick, NJ, 2010\*



Of all NTEP-rated Kentucky bluegrasses in the 2005-10 trial, Barvette HGT was the highest ranked for wear tolerance. Six other Barenbrug bluegrasses were also ranked in the top ten.

\*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

NAME	Summer Patch	NAME	After Traffic % Living Cover	NAME	Mean Turfgrass Quality
<b>BARVETTE HGT</b>	<b>9.0</b>	<b>BARVETTE HGT</b>	<b>70.0%</b>	<b>BARVETTE HGT</b>	<b>6.6</b>
EMPIRE	7.3	WASHINGTON	60.0%	MIDNIGHT	6.3
BARRARI	7.3	JULIET	53.3%	EXCURSION	6.1
BARDUKE	6.7	BARRARI	48.3%	SUDDEN IMPACT	5.9
BARRISTER	6.7	VOLT	43.3%	BEWITCHED	5.7
DYNAMO	6.0	BANDERA	38.3%	DIVA	5.4
JULIA	5.3	PROSPERITY	33.3%	4-SEASON	5.2
BLUESTONE	4.7	MIDNIGHT	30.0%	WASHINGTON II	5
EMBLEM	4.3	DIVA	28.3%	BANDERA	4.8
ARIEA	3.7	GLADSTONE	21.7%	SOMBRERO	4.3
LSD VALUE	3.3	LSD VALUE	30.7%	LSD VALUE	0.5

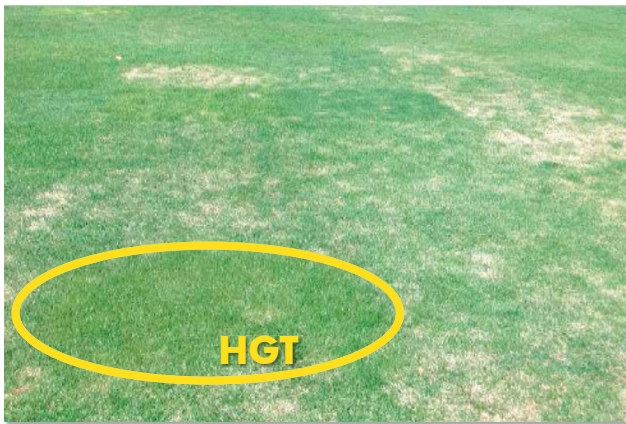
Ratings: 1-9; 9=Best  
Raleigh, NC, 2010

East Lansing, MI, 2010

Ratings: 1-9; 9=Best  
Transition zone, six locations

EXCEPTIONALLY STRONG SPRING GREEN-UP

Spring green-up is an important trait sought after when developing new Kentucky bluegrasses. While most bluegrasses are very slow to break winter dormancy, Barvette HGT exhibits very early spring green-up. In the recently completed 2005 NTEP study, Barvette HGT finished in the top statistical group. This allows our Turf Blue HGT blend to come back early and strong when spring play is needed and field regrowth is required.



Early spring green-up in Minnesota trial