

VILLA 1

Agrostis canina

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SEEDS & SCIENCE



VILLA 1

Excellent putting surface with low fertiliser requirements.

Velvet bentgrass (*Agrostis canina*) produces exceptionally dense turf and has the finest texture of all the bentgrasses. In general it has better disease resistance and drought tolerance than other bentgrass species. Nitrogen requirements for this species are exceptionally low compared to other bentgrass species. Velvet bent has better tolerance to prolonged snow cover.

As it is so dense and tillers so vigourously it may need a regular verticutting programme to control thatch. The colour is a little lighter compared to other bent species.

- Exceptionally dense
- Adapted to low maintenance conditions
- Top ranked for turf quality
- Vibrant, medium green colour
- Excellent winter colour
- Top ranked for brown patch disease
- Shade tolerant



Usage

VILLA 1 was bred for golf course greens, but can also be used for bowling greens, golf tees, fairways, croquet lawns and tennis courts.

TECH FACTS

Growth habit	Stolons
Establishment rate (days)	Medium 14-21
12 mm cut tolerance	Excellent
Mowing frequency	Daily
Traffic tolerance (Brinkman)	Good
Disease resistance	Very good
Nitrogen required	Low/medium
Shade tolerance	Fair
Cold tolerance	Good
Drought tolerance	Good

High quality

VILLA 1 is an elite velvet bentgrass used primarily on golf course putting greens. VILLA's turf quality is outstanding, and its overall resistance to diseases and pests is excellent.

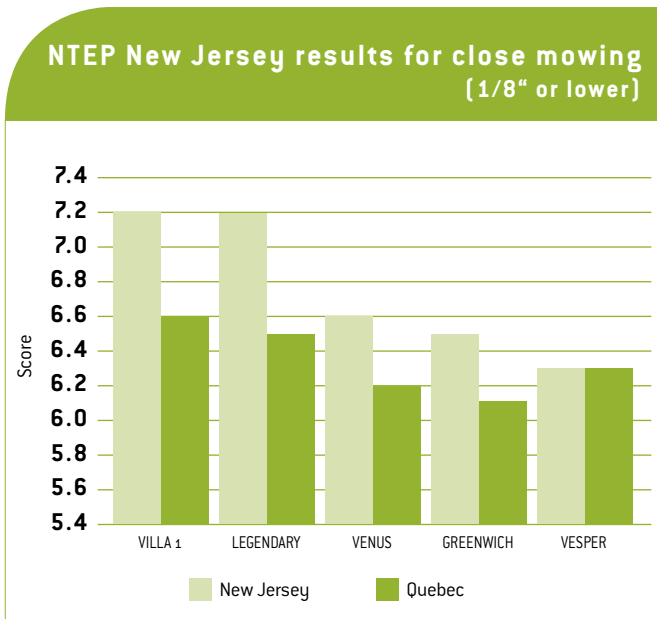
VILLA 1 also ranked #1 overall for creeping and velvet bent turfgrass quality under low maintenance. In addition VILLA 1 is number one under close mowing, 1/8" or lower.



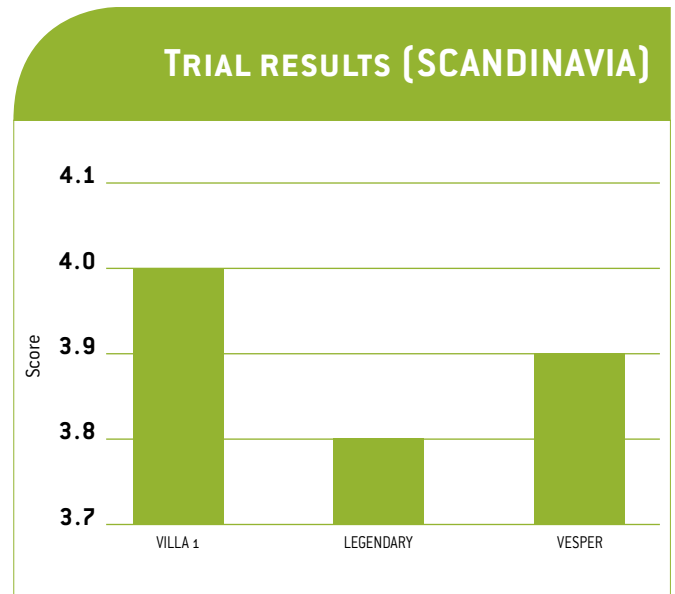
Preliminary results from UK-STRI-Bingley and from Scandinavian trials confirm these excellent results.

VILLA 1 out-performs many other varieties with its abundant summer and autumn density, remarkable winter colour and fine texture. If you're looking for top quality turf that will be both beautiful and durable all year long, VILLA 1 is unsurpassed.

It is rated #1 velvet bent in the 2004-2007 NTEP Trials on sand and soil greens. In addition VILLA 1 is number one under close mowing, <3 mm. VILLA 1 also ranked #1 overall for creeping and velvet bent turfgrass quality under low maintenance.



(Source: NTEP 2004 - 2007)



Varieties of velvet (*Agrostis canina*) - mean of four sites Sown in 2007, first green year results of 2008. (Source: Bioforsk Rapport Vol. 3 Nr. 170 2008)

TRIAL RESULTS (BINGLEY, UK)

VARIETY	SHOOT DENSITY	VISUAL MERIT	MEAN	DISEASE RESISTANCE MICROCHUIM	DISEASE RESISTANCE RED THREAD
VILLA 1	7.6	7.2	7.4	3.7	6.9
LEGENDARY	7.7	7.3	7.5	2.8	6.9
AVALON	7.2	6.5	6.8	4.2	6.6

Summary of assessments made during 2007 and 2008: *Agrostis canina* (Source: Breeders report 2009 Bingley)

TRIAL RESULTS (NTEP, USA)

VARIETY	RATING-SAND	RATING-SOIL	CLOSE MOWING	LOW MAINTENANCE
VILLA 1	5.2	5.4	5.6	6.6
LEGENDARY	5.1	5.4	5.5	6.4
VENUS (EFD)	5.1	5.3	5.5	6.3
GREENWICH	5.0	5.3	5.4	6.3
VESPER	4.9	5.0	5.1	6.1
SR 7200	4.9	4.9	5.0	5.7

Mean turfgrass quality ratings of creeping bentgrass cultivars grown on a sand green (eleven locations) and a soil green (thirteen locations), and under close mowing to 3-4 mm (thirteen locations) in the USA and Canada, 2004-2007 final data. (Turfgrass quality ratings 1-9, 9 = ideal turf)

Maintenance of velvet bentgrass (*Agrostis canina*)

Seeding rates (sown as straight on golf green):

New plantings: 100 kg/ha

Overseeding: 50 kg/ha.

Seeding date: Spring or autumn

Fertilisation (pre-sowing and sowing)

Normal seed: pre-plant incorporated: 70 kg N/ha

pre-plant topdressed: 35 kg N/ha

iSeed®: if iSeed® is used no starter fertilization is necessary



Fertilisation (season)

Nitrogen (N): < 80 kg/ha/yr

Phosphorus (P): < 50 kg/ha/yr

Potassium (K): < 250 kg/ha/yr

Micronutrients: depending on soil analysis or plant tissue tests during the year.

Mowing

First mowing at plant heights of 4 - 5 cm

Get to the desired mowing height within seven weeks

Normal 4 - 12 mm, good durability at 4 mm with 3 mm for special tournaments

Irrigation

Irrigate only when necessary

Keep intervals between irrigation cycles as long as possible

Topdressing and verticutting

Frequent verticutting according to seasonal growth, followed by topdressing

DLF-TRIFOLIUM focuses closely on the demands of customers as well as on the market trends of clover and grass seed. Offering one of the world's largest research and breeding programmes for both turf and forage, DLF-TRIFOLIUM is working continually to improve the quality and reliability of all varieties. To meet market expectations, these varieties are tested through a worldwide trialling network for adaptation to different climatic and environmental conditions.

DLF-TRIFOLIUM is the world's largest producer and distributor of grass seed. With subsidiaries in Denmark, Sweden, Holland, Belgium, UK, France, Germany, Czech Republic, Russia, China, New Zealand, South America and United States, an extended distributor and customer network serves the markets worldwide.

