

CY 2

Agrostis stolonifera

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CY 2

The tournament variety for golf greens.

The main use of creeping bentgrass (*Agrostis stolonifera* L.) is on golf greens. This is due to its ability to withstand very close mowing and produce a very high quality putting surface.

Creeping bentgrass can also be used in high quality lawn mixtures for private gardens. The species is best at mowing heights of 10 mm or less.

- Highest turf quality
- Rapid establishment
- High density
- Excellent tolerance to close mowing
- Good disease resistance
- Excellent winter colour
- Good wear tolerance



Usage

CY 2 was bred for golf course greens, but can also be used for bowling greens, golf tees, fairways, croquet lawns and tennis courts.

CY 2 can also be used as a component in mixtures for the winter over-seeding of warm season greens, when combined with *Poa trivialis*.

TECH FACTS

Growth habit	Stolons
Establishment rate	Medium 14-21
3-4 mm cut tolerance	Excellent
Mowing frequency	Daily
Traffic tolerance	Good
Nitrogen required	Low/medium
Shade tolerance	Fair
Cold tolerance	Good
Disease resistance	Very good

CY 2: the tournament variety





CY 2 is an elite creeping bentgrass variety that was originally bred to withstand the high temperatures and humidity of Japan. It shows excellent turf quality, winter colour, heat tolerance and disease resistance. It is a dense variety that is easy to establish and it will keep its bright green uniform colour all year long. It has a strong resistance to dollar spot and brown patch.

In the most recent NTEP trials in the USA, CY 2 ranked first for turf quality on sand-based greens, and first in the 1/8" mowing height tests. Preliminary results from UK and Scandinavian field trials confirm these results.

The excellent behaviour under extreme close mowing (< 3 mm) makes CY 2 the ultimate variety for all top greens.



TRIAL RESULTS (STRI - BINGLEY, UK)

VARIETY	SHOOT DENSITY	VISUAL MERIT	MEAN	DISEASE RESISTANCE MICRODOCHIUM	DISEASE RESISTANCE RED THREAD	WINTER GREENNESS
 CY 2	6.4	6.9	6.6	6.3	7.2	6.6
 <i>COBRA NOVA</i>	7.0	7.4	7.2	6.5	7.2	6.3
 <i>INDEPENDENCE 1</i>	6.5	6.6	6.5	6.5	6.2	6.5
 <i>RUNNER</i>	6.6	6.3	6.4	6.5	5.2	5.7
007	6.8	6.9	6.8	6.5	6.5	7.1
PENN A-1	6.4	6.8	6.6	6.3	6.8	6.6
MACKENZIE	6.3	6.4	6.3	6.0	6.1	7.0
TYEE	6.4	6.2	6.3	6.5	5.5	5.7
SR1150	6.0	6.0	6.0	6.5	5.6	4.6
CRENSHAW	5.5	5.4	5.4	6.0	5.2	7.3
BUENO	5.4	5.3	5.4	6.3	4.6	6.0
PROVIDENCE	5.0	5.2	5.1	6.5	5.7	7.0




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

TRIAL RESULTS (NTEP, USA)

VARIETY	RATING-SAND	CLOSE MOWING (3-4 MM)	EXTREME CLOSE MOWING (< 3 MM)	DOLLAR SPOT	ANTHRACNOSE
 CY 2	6.4	6.3	6.6	7.3	5.7
 <i>COBRA NOVA</i>	6.1	6.4	6.1	6.9	4.0
 <i>INDEPENDENCE 1</i>	6.2	6.1	6.3	4.2	7.3
007 (DSB)	6.3	6.3	6.5	6.9	5.7
TYEE (SRX 1GD)	6.3	6.1	6.6	5.5	2.3
DECLARATION	6.3	6.3	6.6	8.1	5.7
SHARK (23R)	6.3	6.2	6.6	5.3	5.7
AUTHORITY (235050)	6.2	6.2	6.6	6.4	6.3
PENN A-1	6.2	6.0	6.4	6.9	6.3
MEMORIAL (A03-EDI)	6.2	6.4	6.2	7.9	4.7
LS-44	6.2	6.2	6.2	6.2	6.3
BENCHMARK DSR	6.0	6.1	6.1	7.6	5.0
13-M	5.9	6.2	6.2	7.5	5.0
PENNCROSS	5.0	5.2	5.0	6.5	5.7

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

TRIAL RESULTS (SCANDINAVIA)

VARIETY	VISUAL MERIT (1 - 9) OVERALL MEAN	TILLER DENSITY (1 - 9)	DORMANCY COLOUR (1 - 9)	LEAF FINENESS (1 - 9)
 CY 2	3.8	4.1	4.8	4.8
 <i>INDEPENDENCE 1</i>	3.8	4.3	4.2	5.3
 <i>RUNNER</i>	3.7	4.2	3.8	5.3
NORDLYS	4.0	4.3	3.3	4.5
DECLARATION	3.7	4.2	4.4	5.4
SANDHILL	3.7	4.1	4.3	4.5
MACKENZIE	3.7	4.1	4.1	5.1
L93	3.6	4.0	3.6	4.1

Varieties of creeping bentgrass - mean of four sites, sown in 2007, first green year results of 2008. (Source: Bioforsk Rapport Vol. 3 Nr. 170 2008)

Maintenance of creeping bentgrass (*Agrostis stolonifera*)

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): 100-200 kg/ha/yr

Phosphorus (P): 50-75 kg/ha/yr

Potassium (K): 250-400 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

Excellent appearance at mowing heights of 3 - 12 mm

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

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