

TURF GRASS

Professional Seeds



fito
Your seeds



COMPANY

Keys	4
Our commitment to the environment	5
Corporate information	6
Production centers	8
Quality control	9
Trials, research and results	10
Cabrera de Mar Research Station	11
Seed Treatments	12

COOL-SEASON GRASSES (C3)

Perennial Ryegrass	14
Annual Ryegrass	20
Fine Fescues	22
Tall Fescues	26
Kentucky Bluegrass	32
Poa Trivialis	36
Creeping Bentgrass	40
Other bents	46
Other cool-season species (C3)	48

WARM-SEASON GRASSES (C4)

Bermudagrass	50
Seashore Paspalum	57
Kikuyu	58
Zoysiagrass	59
American grass	60
Buffalo grass	61
Dichondra Repens	61

MIXTURES

Grass mixtures	64
Jardín Florido (Wild Flower)	78
Césped Florido (Meadow Mix)	79

HYDROSEEDING AND REVEGETATION MIXTURES FOR SOIL CONSERVATION

Covering formulas	83
Hydroseeding-revegetation	84
Fitó Cover	86
FitóMix Permanent	87

USES

Golf	88
Sports, soccer, racetracks, polo	90
Sod production	92
Landscape, public and private lawns	94
Eco turf	96
Hydroseeding and revegetation	98

Keys

Establishment



1 week



2 weeks



3 weeks

Water needs



Very low



Low



Moderate



Medium



High

Maintenance



No mowing



Less mowing



Lower fertilization needs



Lower maintenance needs



High maintenance needs

Other



Heat tolerance



Traffic tolerance



Shade tolerance



Salt tolerance



Disease tolerance



Brown patch resistance



Crowing out Poa annua



High density



Stolons



Rhizomes



Persistence



Strong



Drought resistant



Cold tolerance



Fine-leaf texture



No NTEP



Environmentally friendly



Mowing height



Aesthetic grass



Active in fall and winter



Dark colored grass

Our commitment to the environment



- SEMILLAS FITÓ focuses closely on customer demands, breeding varieties with high endophyte levels to increase drought tolerance and insect resistance.
- Our varieties are highly suited to Mediterranean conditions, use less water and are more stress-tolerant.
- Our dark green varieties are environmentally friendly, using less water, less nitrogen and fewer phytosanitary products.
- SEMILLAS FITÓ has been a pioneer in introducing warm-season species with high environmental value such as Seashore paspalum MARINA, extremely high salt-tolerant, or GOBI bermudagrass, extremely drought-tolerant.
- Our varieties have slow-growing habits in order to reduce mowing needs.

Our team

Turf Grass Director



Josep Cirera

tel. (+34) 606 398 861
jcirera@semillasfito.com

Key Account Manager Export



Burcu Belge

tel. (+34) 690 046 518
bbelge@semillasfito.com

Sales Representatives

SOUTH OF SPAIN AND PORTUGAL



Paco Molina

tel. (+34) 609 446 641
fjmolina@semillasfito.com

CATALONIA, BALEARIC ISLANDS, VALÈNCIA, CASTELLÓN



Marc Perelló

(+34) 620 689 113
mperello@semillasfito.com

CENTER AND NORTH OF SPAIN AND PORTUGAL



John Stewart

(+34) 699 890 287
jstewart@semillasfito.com

FRANCE & MAGREB



Thibaut Maroniez

tel. (+33) (0) 6 42 37 33 96
tmaroniez@semillasfito.com

ITALIA



Giovanni Benzoni

tel. (+39) 348 715 76 51
giobenzoni@libero.it

AREA MANAGER TÜRKIYE AND CENTRAL ASIA



Cemal Etli

tel. (+90) 532 310 45 85
cetli@semillasfito.com

Customer Service



Paquita Martínez

tel. (+34) 933 036 360
pmartinez@semillasfito.com



Alicia Pajares

tel. (+34) 933 036 360
apajares@semillasfito.com



Adriana Yusta

tel. (+34) 973 320 163
ayusta@semillasfito.com



Imma Mateu

tel. (+34) 973 320 163
imateu@semillasfito.com



Cristina Alcoverro

tel. (+34) 933 036 360
calcoverro@semillasfito.com

The Spanish multinational leader in the Mediterranean region



MULTINATIONAL Different since 1880

As a multinational, SEMILLAS FITÓ is different from others because since 1992 it has been working side by side with distributors, greenkeepers, groundsman and end users in each area and use, assessing people on site, studying the best varietal options and giving them all the technical support in order to maximize the turf result in the Mediterranean region, where turfgrass is always a difficult crop.



EXPERIENCE Always offering top quality

Turfgrass users ask for the best products: weed free, with the highest germination and adapted to specific use needs and particular soils, climates and water.



R&D+INNOVATION Investing in innovation

SEMILLAS FITÓ, the Mediterranean turfgrass leader, invests 13% of total sales in R&D + innovation.

The SEMILLAS FITÓ research stations are managed by highly qualified professional teams, with the most up-to-date technology to evaluate every variety in any stress situation.

Our agreement with the world's best turfgrass universities and breeding stations ensures the most suitable materials for our customers.

Once the new material is released, the stress controls are very tough in order to ensure the variety's success.



PROXIMITY Working together

All varieties and blends have been developed over years of experience and research in trials and field tests with the help of technicians, greenkeepers, groundsman, specialists and end users.

Our focus is on the end customer, on society at large, maximizing our respect for the environment, making it more sustainable.

More than 130 years of experience adding value to our landscape and sports fields, improving our living standards.



Efforts and dedication to turfgrass

PRODUCTION Centers

The Turf Grass division of Semillas Fitó has two production centers, one in Anglesola (Lleida) and another one in Antalya (Turkey).

The new processing and logistic center in Les Cases de Barbens (Anglesola), with 27,000 m² built and more than 250,000 m³ capacity, is already the largest in southern Europe.

This new installation handles the reception, cleaning, treatment, conditioning of mixtures, packaging and shipping.



Aerial view of Les Cases de Barbens logistics center

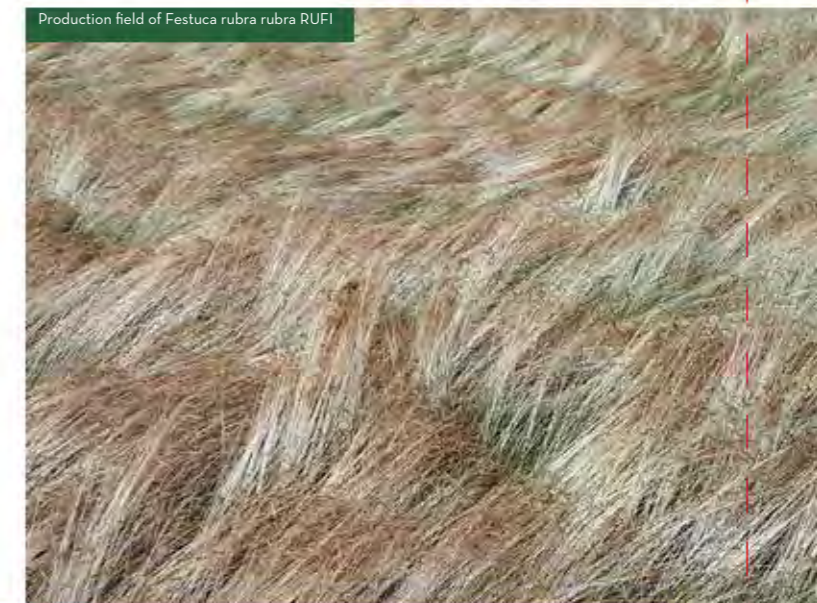


QUALITY Control

Seed quality control is essential at Semillas Fitó.

Purity, germination, vigour and resistance are controlled in every seed lot from seed receipt to packing and shipment.

SPECIES	MINIMUM GERMINATION (%)	MINIMUM SPECIFIC PURITY (% in weight)
GRASS	1	2
<i>Agrostis stolonifera</i>	75	90
<i>Agrostis tenuis</i>	75	90
<i>Cynodon dactylon</i>	70	90
<i>Festuca arundinacea</i>	80	95
<i>Festuca ovina</i>	75	85
<i>Festuca pratensis</i>	80	95
<i>Festuca rubra</i>	75	90
<i>Lolium perenne</i>	80	96
<i>Poa nemoralis</i>	75	85
<i>Poa palustris</i>	75	85
<i>Poa pratensis</i>	75	85
<i>Poa trivialis</i>	75	85
<i>Paspalum Vaginatatum</i>	75	99



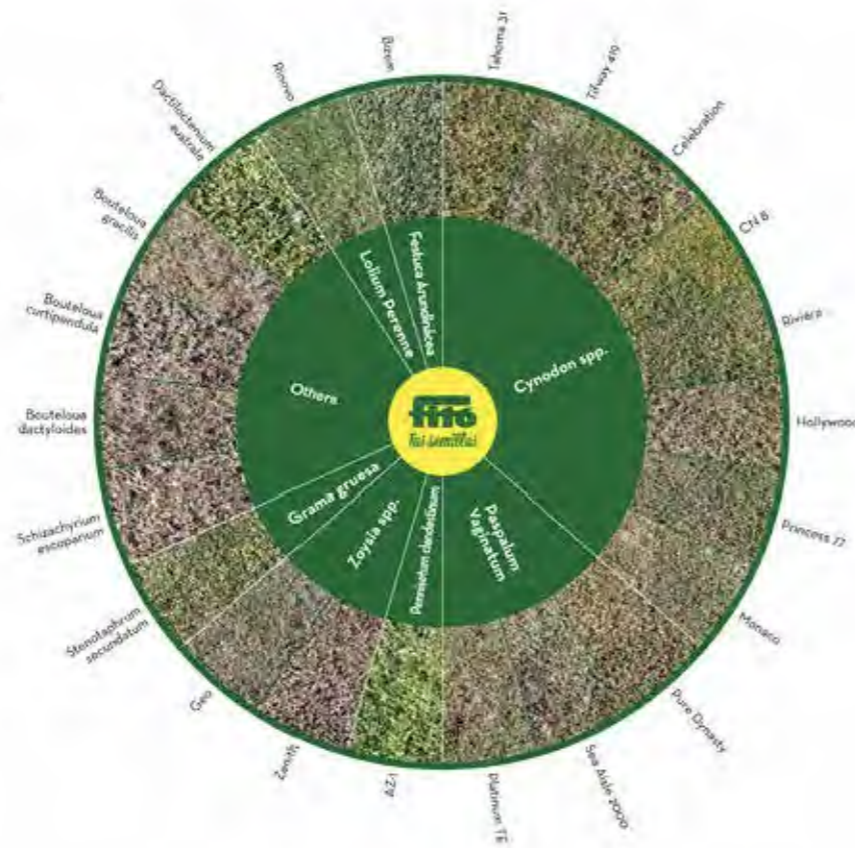
WINTER COLORS WHEAL

TRIALS

Research and results

Before being launched, SEMILLAS FITÓ varieties must fulfil the following requirements:

1. Genetics suited to conditions in the Mediterranean area.
2. Tested for at least two years with trials under real conditions in order to evaluate strengths and weaknesses; e.g. Cabrera de Mar turf trials.
3. Meeting customer needs.
4. Gaining (if possible) the best marks at international official trials; e.g. US National Turfgrass Evaluation Program (NTEP).



RESEARCH

station in Cabrera de Mar

Our Turfgrass Research Station located in Cabrera de Mar is the biggest in the Iberian Peninsula dedicated to turfgrasses.

The newest material from all over the world is included in the plots.

Its excellent location by the Mediterranean sea and in a high-humidity area where winters are mild, summers are hot and water irrigation with high electrical conductivity ensures that varieties working in this situation will perform well in any area of the Mediterranean.

All varieties spend a minimum of two years under non-spraying conditions before being launched to the market.

The plots are divided into areas with different irrigation quantities and treatments for their evaluation.



OFFICIAL

Tag specs

1. Official organization that takes care of seed quality control.
2. Name of the mixture and ingredients.
3. Percentage in weight of each component detailing species and variety.
4. Official tag number.
5. Packaging date.
6. Lot number.



Future

The prospects are excellent for new materials that will be available in Semillas Fitó during the next years. The new generation of varieties of Lolium perenne and Festuca arundinacea that are detailed below, with extraordinary characteristics, will be available soon.

- Lolium perenne **LONDON, SGP4, PST 2E6, SALTY, SUN PRO, DARK MATTER, PPG PR 670, TIURANA, BARBENS, SAVANT II, TREK**
- Lolium multiflorum **TOURS**
- Festuca arundinacea **FES PRO**



SEED TREATMENTS

Fitó Optima and Fitó Power are solutions based on optimizing and improving the germination efficiency by enhancing the seed with a coating technology that guarantees:

- Improved nitrogen fertilization, promoting faster growth and increasing protein protection.
- Reduced insect and bird predation
- Reduced loss of seeds by wind, because the seed weighs more.
- Reducing mechanical stress during planting, which results in less seed breakage.



Fitó Power is a solution based on enhancing plant growth. Fitó Power seed treatments stand out for their capacity to enhance lawn yield, ensuring greater quality and visual appearance.

The aim is to boost vigour and improve nutrition.



This technology coating technology ensures better hydration and less loss of seed during planting and until germination.

The aim is to achieve better efficiency during planting and reduce seed loss.



Perennial Ryegrass

(Lolium perenne)

Did you know that, on a sunny summer day, the surface of the lawn maintains a temperature of 8 to 10°C lower than that of an asphalt surface in Mediterranean conditions?



Cool-season grass (C3), fast growing bunch type that spreads by stems. The leaves are dark green and glossy on the underside, tapered, pointed with a folded vernation.



Uses:

- High-quality lawns, tees, fairways rough, interseeding and overseeding purposes, soccer, football, racetracks, polo fields...
- Overseeding and interseeding in any lawn.

Highest persistence and lateral growth

Dark green color

GREENLAND (PPG - PR196)



Excellent leaf density and fineness

- High tillering capacity.
- Lateral growth.
- Maximum persistence in salinity conditions.
- Maximum resistance to Gray leaf spot, Rust and winter Fusarium.
- Intense dark green color.
- Maximum traffic tolerant.
- Mowing height 10 mm.

Ideal for football pitches and sports lawns where maximum persistence and density are desired.



PROCESS (PPG-PR422)



High density, persistence and maximum resistance to intensive use

- High density all year round.
- Maximum quality and density in summer.
- Salinity resistant.
- Mowing from 10 mm in certain situations.
- Maximum resistance to Pythium and Gray leaf spot.
- With lateral growth capacity.
- Intense dark green color.
- Maximum traffic tolerant.
- Maximum persistence.

Ideal for sowing and re-sowing on football fields, tees, sports fields in general.





Total average quality (Oregon)	
HIGH	7,1
PROCESS (PPG-PR422)	7,0
HOMERUN LS (PPG-PR419)	6,8
SILVER SPORT (PST-2CRP)	6,7
GRAND SLAM GLD	6,7
FIESTA CINCO (DLFPS-236/3554)	6,4
LOW	5,5
LSD Value	0,4

NTEP Data, 2020

Growth under traffic stress	
HIGH	7,1
PROCESS (PPG-PR422)	7,0
HOMERUN LS (PPG-PR419)	6,8
SILVER SPORT (PST-2CRP)	6,7
GRAND SLAM GLD	6,7
FIESTA CINCO (DLFPS-236/3554)	6,4
LOW	5,5
LSD Value	0,4

NTEP Data, 2020

Growth under drought stress	
HIGH	6,5
PROCESS (PPG-PR422)	6,1
GRAND SLAM GLD	6,0
HOMERUN LS (PPG-PR419)	6,0
SILVER SPORT (PST-2CRP)	5,9
FIESTA CINCO (DLFPS-236/3554)	5,9
LOW	2,6
LSD Value	0,7

NTEP Data, 2020

Color	
HIGH	7,6
FIESTA CINCO (DLFPS-236/3554)	6,9
PROCESS (PPG-PR422)	6,8
GRAND SLAM GLD	6,8
SILVER SPORT (PST-2CRP)	6,8
HOMERUN LS (PPG-PR419)	6,6
LOW	3,8
LSD Value	0,4

NTEP Data, 2020

Spring Greenup	
HIGH	7,0
PROCESS (PPG-PR422)	6,2
GRAND SLAM GLD	6,1
HOMERUN LS (PPG-PR419)	6,1
SILVER SPORT (PST-2CRP)	5,8
FIESTA CINCO (DLFPS-236/3554)	5,4
LOW	4,4
LSD Value	0,8

NTEP Data, 2020

Brown Patch Resistance (summer Rhizoctonia)	
HIGH	7,3
PROCESS (PPG-PR422)	6,7
HOMERUN LS (PPG-PR419)	6,0
SILVER SPORT (PST-2CRP)	5,7
FIESTA CINCO (DLFPS-236/3554)	5,0
GRAND SLAM GLD	4,3
LOW	2,7
LSD Value	1,8

NTEP Data, 2020

Pink Snow Mold Resistance (Fusarium)	
HIGH	7,0
SILVER SPORT (PST-2CRP)	6,7
PROCESS (PPG-PR422)	6,3
HOMERUN LS (PPG-PR419)	6,0
FIESTA CINCO (DLFPS-236/3554)	5,7
GRAND SLAM GLD	5,0
LOW	2,3
LSD Value	1,9

NTEP Data, 2020

Overall average quality	
HIGH	6,3
PROCESS (PPG-PR422)	6,1
FIESTA CINCO (DLFPS-236/3554)	6,1
HOMERUN LS (PPG-PR419)	6,1
SILVER SPORT (PST-2CRP)	6,0
GRAND SLAM GLD	5,8
LOW	2,3
LSD Value	0,3

NTEP Data, 2020

Maximum in TOP 25%	
HIGH	88,2
FIESTA CINCO (DLFPS-236/3554)	41,2
PROCESS (PPG-PR422)	35,3
SILVER SPORT (PST-2CRP)	35,3
GRAND SLAM GLD	23,5
LOW	0

NTEP Data, 2020

Gray leaf spot-Pyricularia resistance

* Results of selected Perennial Ryegrass varieties in August seeding trials in Adelphia, New Jersey.

2016 (NTEP)	
HIGH	9,0
PROCESS (PPG-PR422)	8,3
SILVER SPORT (PST-2CRP)	8,0
HOMERUN LS (PPG-PR419)	6,7
FIESTA CINCO (DLFPS-236/3554)	5,7
GRAND SLAM GLD	4,7
LOW	1,0
LSD Value	1,5

2020 Turfgrass Proceedings: Research Report, Vol. 52
Published July 2021; RUTGERS TURFGRASS PROCEEDINGS

2018	
HIGH	9,0
PROCESS (PPG-PR422)	8,0
SILVER SPORT (PST-2CRP)	7,3
HOMERUN LS (PPG-PR419)	7,3
FIESTA CINCO (DLFPS-236/3554)	ND
GRAND SLAM GLD	5,0
LOW	1,0
LSD Value	1,4

2020 Turfgrass Proceedings: Research Report, Vol. 52
Published July 2021; RUTGERS TURFGRASS PROCEEDINGS

2019	
HIGH	9,0
SILVER SPORT (PST-2CRP)	8,1
PROCESS (PPG-PR422)	8,0
HOMERUN LS (PPG-PR419)	7,3
FIESTA CINCO (DLFPS-236/3554)	ND
GRAND SLAM GLD	7,3
LOW	2,1
LSD Value	1,3

2020 Turfgrass Proceedings: Research Report, Vol. 52
Published July 2021; RUTGERS TURFGRASS PROCEEDINGS

2018	
HIGH	9,0
GREENLAND (PPG-PR196)	6,0
THRIVE	5,0
GRAND SLAM GLD	5,0
FIESTA CUATRO	4,7
TORSION	2,0
LOW	1,0
LSD Value	1,4

2020 Turfgrass Proceedings: Research Report, Vol. 52
Published July 2021; RUTGERS TURFGRASS PROCEEDINGS

2019	
HIGH	9,0
RINOVO	7,8
GREENLAND (PPG-PR196)	7,5
HOMERUN LS (PPG-PR419)	7,3
GRAND SLAM GLD	7,3
TORSION	3,0
LOW	1,0
LSD Value	1,4

2020 Turfgrass Proceedings: Research Report, Vol. 52
Published July 2021; RUTGERS TURFGRASS PROCEEDINGS



RINOVO (GL-74)

Persistent and dense

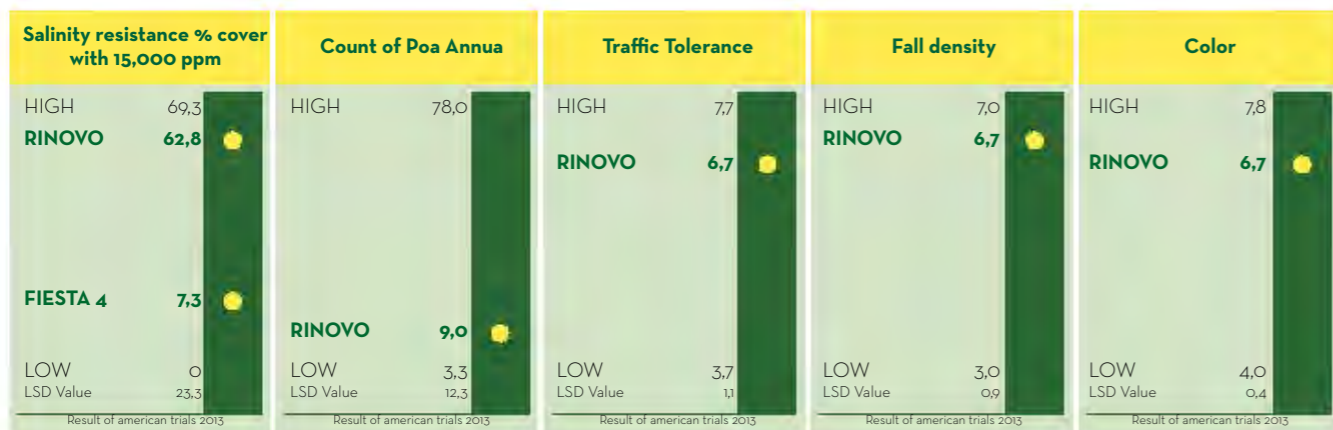
- Ear very late, which avoids the straw effect that affects other varieties in summer.
- It stands out for its maximum persistence, density and resistance to diseases, especially Gray leaf spot.
- Exceptional heat/drought/salt tolerance.
- Maximum recovery capacity thanks to its extreme resistance to traffic and its capacity for lateral growth.
- Mowing from 10 mm

Ideal for surfaces where you want maximum persistence and resistance to use such as golf courses, sports fields, public and private gardening...



Variety	Turf Quality Mean	Turf Quality New Jersey	Turf Quality Riverside (California)	Turf Quality in group 1 LPI	% of locations where the variety is in the top 25%
High	6.0	7.4	7.7	6.2	85.7
RINOVO	5.7	6.9	6.9	5.8	42.9
Fiesta 4	5.6	6.4	7.0	5.6	35.7
Palmer V	5.7	6.1	6.9	5.5	14.3
Manhattan 6	5.4	5.4	6.8	5.6	14.3
Sienna	5.3	6.7	6.7	5.4	21.4
Vantage/Brightstar Slt	5.2	4.5	6.5	4.9	0
Mach 1	5.1	6.0	6.7	4.9	0
Linn	3.1	-	5.3	2.6	0
LSD Value at 5%	0.3	0.8	0.4	1.1	-

Results of American trials 2011-2014; 1-9, 9 best



Varieties of maximum persistence and lateral growth

Bright-green color

ZURICH (PPG-PR 124)

Self-regenerates through stolons

- It diffuses the contamination of the Poa annua of the ground.
- Maximum persistence.
- Excellent winter growth.
- Low mowing height 10 mm.
- Excellent traffic tolerant.

Ideal for soccer fields, fairways and golf course tees, and landscaping in general where the objective is a light color that masks the Poa annua.



High persistence varieties. Reseeding. Overseeding.

Dark green color

RINGLES

Maximum drought tolerance

- Dwarf variety. Upright growth and fine leaf texture.
- Excellent seedling vigour with low maintenance.
- Highly tolerant to heat and salinity conditions (up to 15,000 ppm).
- Dark green color.

Ideal for reseeding in areas with salinity problems.



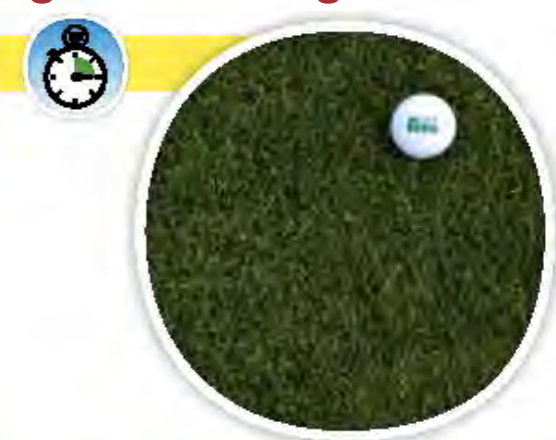
Varieties with easy transition, Reseeding, Overseeding.

SUN

Versatile. The fastest one

- Ideal for low-maintenance situations.
- The best establishment rate.
- Moderate shade tolerance.
- Excellent winter growing variety with an easy spring transition.
- Dark-colored.

Ideal for overseeding where rapid establishment is desired and a smooth transition.



Medium green color

LOVER

Recover quickly

- It stands out especially for being a fine variety and fast establishment.
- Excellent summer performance with maximum drought tolerance.
- Excellent traffic tolerance and very high recovering ability.
- Resistant to Pythium and Gray leaf spot.

Ideal for overseeding where a functional ryegrass is desired with an excellent quality/price ratio.



Tetraploid varieties (4N)

Dark green color

DOUBLE

Great establishment vigor

- Fast establishment.
- Resistant to drought and salinity.
- Medium leaf texture.
- Dark green colour.
- Combines perfectly with Festuca arundinacea.
- Less dense, so allows the installation of other species and varieties.

Recommended for reseeding in cold moments.



Annual Ryegrass (*Lolium multiflorum*)

Cool-season annual gramineae (C3), of growth forming clusters and traditionally fodder. It is starting to be used as grass because of its quick and easy transition.

Uses:

- Fall reseeding on warm climate species. Where a rapid transition in summer without agrochemicals is desired.
- Winter sowing and reseeding with low temperatures.



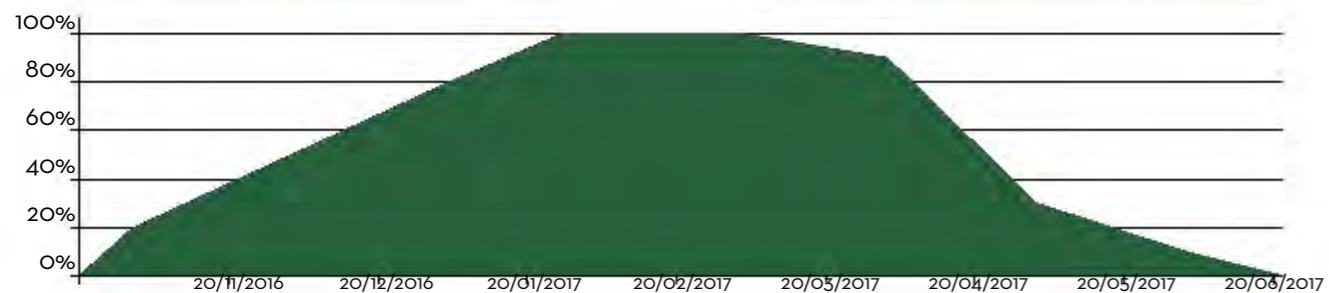
THUNDER

The new generation with smooth transition

- Germination and establishment very fast at low temperatures.
- Medium dark color comparable to a Lolium perenne.
- Fine leaf texture and maximum density.
- Genetically programmed summer transition.
- Maximum density and traffic tolerant.



% THUNDER cover on Bermudagrass from sowing until disappearance



Overseeding trial of Lolium multiflorum THUNDER on Bermudagrass, Cabrera de Mar (Spain) 2016/2017

PERENNIAL RYEGRASS	Highest persistence and lateral growth				Easy transition to seedbed	
	RINOVO	PROCESS	GREENLAND	ZURICH (PPG-PR 124)	SUN	LOVER
Seeding rate g/m ²	20	35	35	35	35	35
Overseeding rate on bermuda greens g/m ²	130	150	150-200	140	-	140
Dose overseeding tees, fairways, rough, lawns g/m ²	30-40	50	50	50	50	50
Seeds per gram	662	520	570	580	614	568
Days to germination	3-7	5-7	5-7	3-8	3-7	3-8
Recommended seeding dates	Spring-fall				Spring-fall	
Color	Dark green		Dark green	Bright green	Dark green	Medium green
Establishment	Very fast	Medium	Medium fast	Very fast	Very fast	Very fast
Growth	Medium	Slow	Slow	Fast	Medium	Medium
Leaf texture	Very fine				Fine	Fine
Maintenance	Low	Low	Low	Medium	Low	Medium
Fertilizing needs	Medium to low	High	High	Low	Medium	Low
Shade tolerance	Medium	Medium	Medium	Low	Low	Low
Winter dormancy	No	No	No	No	No	No
Disease resistance	Dollar spot, Brown patch, Gray leaf spot, others...	Gray leaf spot, Pythium, Brown patch	Broad spectrum, especially Gray Leaf Spot	Pythium, Red thread	Brown patch, Leaf spot	Pythium, Red thread
Glyphosate resistance	No	No	No	No	No	No
Recovery capacity	Excellent	Excellent	Excellent	Very good	Very good	Very good
Traffic tolerance	Excellent	Excellent	Excellent	Excellent	Excellent	High
Heat tolerance	Excellent	Excellent	Excellent	High	Medium	Excellent
Mowing height	From 10 mm				From 10 mm	
Mowing frequency	Medium	Low	Low	Medium	Medium	Medium
Creeping ability	Yes	Yes	Yes	Yes	No	No
Salt tolerance	Maximum	Maximum	Maximum	Medium	Medium	Medium
Irrigation needs	Medium	High	High	High	Medium	High
Endophyte-enhanced	No	Yes	Yes	Yes	Yes	Yes

PERENNIAL RYEGRASS	Lolium perenne tetraploide	High persistence, Sowing and reseeding
	DOUBLE	RINGLES
Seeding rate g/m ²	40	35
Overseeding rate on bermuda greens g/m ²	-	-
Dose overseeding tees, fairways, rough, lawns g/m ²	50-60	50
Seeds per gram	400	546
Days to germination	5-7	4-8
Recommended seeding dates	Fall	Spring-fall
Color	Dark green	Dark green
Establishment	Fast	Fast
Growth	Fast	Slow
Leaf texture	Medium	Fine
Maintenance	Medium	Low
Fertilizing needs	Medium	Medium
Shade tolerance	Medium	Medium
Winter dormancy	No	No
Disease resistance	Red thread, Rust	Pythium, Gray leaf spot, Dollar spot
Glyphosate resistance	No	No
Recovery capacity	Excellent	Excellent
Traffic tolerance	Excellent	Excellent
Heat tolerance	Medium	High
Mowing height	From 10 mm	8-20 mm
Mowing frequency	High	Medium
Creeping ability	No	No
Salt tolerance	High	High
Irrigation needs	High	Medium
Endophyte-enhanced	No	Yes

ANNUAL RYEGRASS	THUNDER
Seeding rate g/m ²	35-70
Overseeding rate on bermuda greens g/m ²	-
Dose overseeding tees, fairways, rough, lawns g/m ²	40-50
Seeds per gram	420
Days to germination	3
Recommended seeding dates	Autum
Color	Medium-dark
Establishment	Very fast
Growth	Fast
Leaf texture	Medium
Maintenance	Medium
Fertilizing needs	Medium
Shade tolerance	Low
Winter dormancy	No
Disease resistance	Leaf spot, Dollar spot, Rust
Glyphosate resistance	No
Recovery capacity	Excellent
Traffic tolerance	Maximum
Heat tolerance	Low
Mowing height	From 20 mm
Mowing frequency	High
Creeping ability	No
Salt tolerance	Medium
Irrigation needs	High
Endophyte-enhanced	No

Fine Fescues

Did you know the Earth's grass surfaces are able to catch up to 12,000,000 metric tons of dust. That means six times more than bare soil.

This genus includes several species and subspecies of temperate climate (C3) characterized for its very fine leaf texture and ornamental and for its growth in the form of clumps (*Festuca rubra commutata* and *Festuca ovina*) or rhizomes that adapt to poor soils and mild climates.

Uses:

- Shady areas, landscaping of high aesthetic value and minimal maintenance, rough and slopes of golf courses.



With long and powerful rhizomes

JOPPA

Festuca Rubra Trichophylla

Traffic tolerant

- Dark green semi-creeping.
- Excellent winter growth.
- Very resistant to leaf diseases.
- It tolerates to mowing height from 6 mm.
- Resistant to salinity.



With short and numerous rhizomes

FINE PRO

Festuca rubra rubra

High density and maximum disease resistant

- New generation creeping *Festuca rubra* variety, perfectly adapted to Mediterranean summers.
- High resistance to salinity.
- Excellent persistence in summer.
- Recovers perfectly in low maintenance conditions.
- Tolerates drought very well.



RUFI

Festuca rubra rubra

Elegant and traffic tolerant

- Top rated for drought and heat tolerance.
- Low maintenance needs.
- Mowing height from 10 mm.
- Dollar spot- and brown patch-resistant.
- Shade-tolerant.



Chewing fescue

ZODIAC

Festuca rubra commutata

Ideal for shade

- Top level starter.
- Mowing height from 8 mm.
- It does not form stains in mixtures, which gives fineness to the mixtures.
- Very stable and non-encroaching.
- Minimum maintenance.



ABERFLEECE

Festuca ovina

Low maintenance

- Minimum maintenance needs.
- Vigorous during establishment.
- Tolerates low doses of glyphosate.
- Maintains density in summer.
- Maximum resistance to heat and drought.
- It blends perfectly with wild flowers.



SPARTAN 2

Festuca brevipila

Low-maintenance sustainable grass

- Excellent behaviour in summer.
- Tolerates the shadow very well.
- Minimum mowing and fertilization needs.
- Good tolerance to trampling.
- It combines perfectly with wild flowers.



	<i>Festuca Rubra Trichophylla</i>	<i>Festuca Rubra Rubra</i>		<i>Festuca Rubra Commutata</i>	<i>Festuca Ovina</i>	<i>Festuca Brevipila</i>
FINE FESCUES	JOPPA	FINEPRO	RUFI	ZODIAC	ABERFLEECE	SPARTAN 2
Seeding rate g/m ²	20	20-25	15-25	15-25	15-25	15-25
Overseeding rate g/m ²	30	30	30	20	25	25
Seeds per gram	990	790	770	1,060	1,042	1,122
Days to germination	7-10	10-12	10-12	10-12	18-21	18-21
Recommended planting dates	Spring-Fall	Spring-fall		Spring-fall	Spring-fall	Spring-fall
Color	Dark	Dark	Dark	Dark	Bluish-green	Medium dark
Establishment	Fast	Medium	Medium	Medium	Slow	Slow
Growth	Slow	Slow	Medium	Slow	Medium	Slow
Leaf texture	Fine	Fine	Fine	Very fine	Very fine	Very fine
Spreading activity	Rhizomes	Abundant rhizomes	Abundant rhizomes	No	No	No
Maintenance	Low	Low	Low	Very low	Very low	Very low
Fertilizing needs	Medium	Low	Low	Low	Very low	Very low
Shade tolerance	High	High	High	High	High	High
Winter dormancy	No	No	No	No	No	No
Disease resistance	Dollar spot, Rust, Dreschlera	Brown patch, Leaf spot	Brown patch, Dollar spot	Dollar spot, Summer patch, Leaf spot, Dreschlera	Brown patch, Dollar spot	Brown patch, Summer patch, Red thread, Dollar spot, Leaf spot
Recovery capacity	Medium	Good	Good	Low	Low	Low
Traffic tolerance	High	Medium	Medium	Low	Low	Low
Heat tolerance	High	High	High	High	High	High
Mowing height	6-15 mm	From 12 mm	From 10 mm	From 10 mm	From 30 mm	From 10 mm
Mowing frequency	Low	Low	Low	Low	Very low	Very low
Irrigation needs	Medium	Low	Low	Low	Very low	Very low
Salt tolerance	Excellent	High	High	Medium	Low	Low
Endophyte-enhanced	Yes	Yes	Yes	Yes	Yes	Yes



Tall Fescues

Did you know that 230 m² of lawn absorb carbon dioxide and release enough oxygen for a family of four?

Cool-season (C3), very rustic, with clump-forming growth and adapted to a wide range of soils and uses.

Fibrous and deep root system.

Applications:

- Lawns with maximum rusticity and saving irrigation water.
- Sod production, rough and slopes of golf courses, soccer fields, racetracks and polo fields.
- A minimum of 70% Festuca arundinacea must be included in mixes containing the species in question.



COOL-SEASON (C3)

Varieties with fine leaf texture and maximum density

HONEYMOON (RHL2)



The new generation with the highest NTEP rating

- The finest leaf texture.
- Top shade tolerance.
- Extreme high turf density.
- Maximum Brown patch resistance.
- Medium colour. Ideal for hiding Poa annua.
- Maximum aggressiveness against weeds.
- Presence of rhizomes.



GENIUS (RC4)



Maximum resistance to Brown patch and Pyricularia

- No 1 NTEP in quality.
- Very aggressive growth based on lateral stems.
- Magnificent winter colour.
- Excellent resistance to Brown patch, shade and drought.
- Quick recovery of growth in spring.



Highest density, fine leaf and low mowing varieties

BIZEM

Ideal for sports fields

- The best exponent of the new generation of Festucas for sports use.
- Fine leaf texture comparable to Lolium perenne and Poa pratensis.
- Maximum density and intense dark color.
- Extremely resistant to traffic and with maximum recovery capacity.
- Accepts 10 mm cuts continuously.
- It grows very well in winter.
- Spreading ability.



FESNOVA

Excellent behavior in summer

- Exceptional variety with a wide crown and maximum density.
- Dark green color kept also in wintertime.
- Slow-growing with very fine leaf texture.
- Consumes 30% less water than a standard variety.
- Great establishment vigor allows to use the grass in advance.
- Maximum resistance to Brown patch.



TERRANO

Maximum tolerance to heat and drought

- Brown patch resistant.
- Extremely traffic tolerant.
- Salinity tolerant.
- Best growing in winter time.
- Maximum density for sod production and sports uses.
- Excellent for sod cultivation.



Turf quality mean	Leaf texture	Summer density	Color	Summer resistance to Brown Patch
HIGH 6,7	HIGH 6,5	KY-31 7,3	HIGH 7,3	HIGH 7,8
BIZEM 6,4	BIZEM 6,2	TERRANO 6,1	FESNOVA 6,8	BIZEM 6,9
FESNOVA 6,2	FESNOVA 5,9	FESNOVA 6,1	BIZEM 6,7	FESNOVA 6,6
TERRANO 6,0	TERRANO 5,7	BIZEM 5,8	TERRANO 6,7	TERRANO 6,5
KY-31 3,7	KY-31 3,5	LOW 4,8	KY-31 3,8	LOW 4,1
LSD 0,7	LSD 0,3	LSD 0,5	LSD 0,3	LSD 1,1

NTEP Data

Turf quality mean	Leaf texture	Color	Summer resistance to Brown Patch	Color in winter
HIGH 6,9	HIGH 6,8	HIGH 6,7	HIGH 7,4	HIGH 6,3
GENIUS 6,6	GENIUS 6,6	TANK 6,4	HONEYMOON 7,1	GENIUS 6,0
TANK 6,4	TANK 6,4	GENIUS 6,1	TANK 6,4	HONEYMOON 6,0
HONEYMOON 6,2	HONEYMOON 6,4	HONEYMOON 6,1	GENIUS 5,4	TANK 5,8
LOW 4,8	LOW 4,1	LOW 3,8	LOW 4,2	LOW 4,8
LSD 0,8	LSD 0,3	LSD 0,2	LSD 1,0	LSD 0,4

Drought tolerance	Overall average quality	Maximum in TOP 25%
HIGH 6,9	HIGH 6,4	HIGH 68,2
HONEYMOON 6,6	TANK 6,3	TANK 50,0
TANK 6,4	GENIUS 6,2	GENIUS 40,9
GENIUS 6,3	HONEYMOON 6,1	HONEYMOON 31,8
LOW 5,7	LOW 4,2	LOW 0%
LSD 1,4	LSD 0,2	

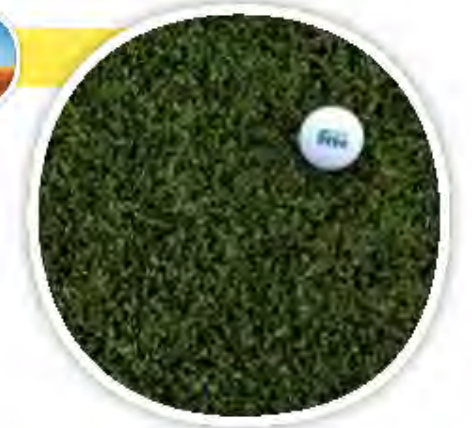
2020 NTEP data

Semidwarf varieties with fine leaf texture

FIRACES

Easy and resistant

- Minimum maintenance needs in scarifying and punctured.
- Superb traffic tolerance and maximum recovery ability.
- Low fertilizer needs.
- Low mowing frequency.
- Best growing in winter time.



MÉRIDA

The most vigorous dwarf

- Outstanding fine leaf texture and slow growing.
- Excellent summer performance.
- Maximum drought tolerance.
- Excellent traffic tolerance and recovery.
- Salt tolerance.



TALL FESCUES	Varieties with fine leaf texture and maximum density, Top NTEP		Varieties with fine leaf texture and lateral growth		
	HONEYMOON	GENIUS	BIZEM	FESNOVA	TERRANO
Seeding rate g/m ²	40	40	40	40	50
Overseeding rate g/m ²	50	50	50	50	50
Seeds per gram	416	495	416	484	484
Days to germination	7-12	7-10	7-12	7-12	10-12
Recommended planting dates	Spring-fall		Spring-fall		
Color	Very dark	Very dark	Very dark	Very dark	Dark
Establishment	Fast	Fast	Fast	Fast	Fast
Growth	Slow	Slow	Slow	Slow	Slow
Leaf texture	Fine	Fine	Fine	Fine	Medium
Spreading activity	Rhizomes	Rhizomes	Rhizomes	No	Rhizomes
Maintenance	Low	Low	Low	Low	Low
Fertilizing needs	Moderate	Moderate	Moderate	Moderate	Low
Shade tolerance	High	High	High	High	High
Winter dormancy	No	No	No	No	No
Disease resistance	<i>Brown patch, Pythium, Leaf spot</i>	<i>Brown patch y Pyricularia</i>	<i>Brown patch, Pythium, Leaf spot</i>	<i>Brown patch, Pythium, Leaf spot</i>	<i>Brown patch, Leaf spot</i>
Recovery capacity	Very high	Very high	Very high	Very high	Excellent
Traffic tolerance	Extraordinary	Extraordinary	Extraordinary	Excellent	Excellent
Heat tolerance	Excellent	Excellent	Excellent	Excellent	Excellent
Mowing height	From 10 mm	From 10 mm	From 10 mm	From 10 mm	From 15 mm
Mowing frequency	Low	Low	Low	Low	Low
Irrigation needs	Low	Low	Low	Low	Low
Salt tolerance	Excellent	Excellent	Excellent	Excellent	High
Endophyte-enhanced	Yes	Yes	Yes	Yes	Yes



TALL FESCUES	Semidwarf varieties with fine leaf texture	
	FIRACES	MÉRIDA
Seeding rate g/m ²	40-50	40
Overseeding rate g/m ²	50	50
Seeds per gram	523	490
Days to germination	7-12	7-12
Recommended planting dates	Spring-fall	
Color	Dark	Dark
Establishment	Fast	Fast
Growth	Slow	Slow
Leaf texture	Medium	Medium
Spreading activity	No	No
Maintenance	Low	Low
Fertilizing needs	Low	Moderate
Shade tolerance	High	High
Winter dormancy	Limited	No
Disease resistance	<i>Brown patch</i>	<i>Brown patch, Leaf spot</i>
Recovery capacity	Excellent	Very high
Traffic tolerance	Excellent	Excellent
Heat tolerance	High	Excellent
Mowing height	20-30 mm	From 10 mm
Mowing frequency	Low	Low
Irrigation needs	Low	Low
Salt tolerance	High	Excellent
Endophyte-enhanced	Yes	Yes



Kentucky Bluegrass

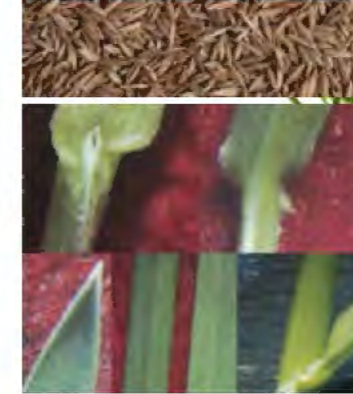
(*Poa pratensis*)

Did you know that a football field of 10,000 m² absorbs around 12,000 kg of carbon dioxide a year?

Cool-season grass (C3), medium-fine leaf texture and growth with rhizome formation. Very tolerant to trampling and sensitive to leaf diseases in mild weather conditions. Recommended in mixtures for its lateral growth.

Applications:

- Sports fields, soccer, polo, horse riding, fairways and golf course tees, top-quality gardening, sod production with high quality standards.
- They should only be used in mixtures.



COOL-SEASON (C3)

Midnight Type Varieties

PRAFIN (BLUEDEVIL)

Excellent under stress situations

- MIDNIGHT type with best heat tolerance to summer heat.
- Less prone to thatch.
- Drought and salt-tolerant.
- Low mowing frequency.
- It tolerates mowing from 12 mm.



General aspect		Color		Density		Summer resistance to Brown Patch	
HIGH	6,4	HIGH	7,5	HIGH	7,5	HIGH	9,0
JERSEY	6,1 ★	MIDNIGHT	7,2 ★	PRAFIN	6,4 ★	MIDNIGHT	8,4 ★
PRAFIN	6,0 ★	PRAFIN	6,9 ★	PRAFIN	6,4 ★	PRAFIN	8,0 ★
MIDNIGHT	5,9 ★	JERSEY	5,7 ★	JERSEY	5,9 ★	JERSEY	8,0 ★
LOW	4,6	LOW	4,5	LOW	5,2	LOW	7,3
LSD	1,3	LSD	0,3	LSD	0,6	LSD	1,5

1-9: 9 Best

1-9: 9 Fine-leaf texture

1-9: 9 Max. density

1-9: 9 Resistant

2013-2017 NTEP data

Compact-America type variety

JERSEY

NEW



Kentucky bluegrass

- Elite turf quality
- Great heat tolerance
- Excellent wear tolerance.
- Medium dark green.
- Good disease resistance.
- Fine leaf texture.
- Performs well at Golf Course fairway mowing height



FIELD PRO

NEW



Germinates in 7 days

- Very fast to set.
- Maximum resistance to Rust and Mildew.
- Excellent behavior in summer.
- Medium leaf texture.
- It combines very well with Festuca arundinacea and Lolium perennial



KENTUCKY BLUEGRASS	Midnight type and high density varieties		American type and fast establishment
	PRAFIN	JERSEY	FIELD PRO
Seeding rate g/m ²	10-15	10-15	10-15
Overseeding rate g/m ²		5-10	
Seeds per gram	2.400	2.850	2.750
Days to germination	15-20	7-12	7-12
Recommended planting dates	Spring-fall		
Color	Dark	Medium	Dark
Establishment	Medium	Very fast	Very fast
Growth	Slow		
Leaf texture	Fine		
Spreading activity	Rhizomes		
Maintenance	Medium	Low	Low
Fertilizing needs	Medium		
Shade tolerance	Medium-high	High	Medium-high
Winter dormancy	No		
Disease resistance	Leaf spot, Roya, Summer patch, Dollar spot, Antracnosis	Powdery mildew, Rust	Leaf spot, Rust, Summer patch, Dollar spot
Recovery capacity	Very good	Excellent	Excellent
Traffic tolerance	Excellent	Excellent	Excellent
Heat tolerance	Excellent	Excellent	Excellent
Mowing height	From 12 mm	From 12 mm	From 12 mm
Mowing frequency	Medium	Medium	Medium
Irrigation needs	Medium	Medium	Medium
Salt tolerance	High	Medium	Medium
Endophyte-enhanced	Yes		Yes



Poa Trivialis

Did you know turfgrass heavily reduces environmental noise pollution?



Cool-season grass (C3), with a fine leaf texture, light green color and stoloniferous growth habit. Cold and moist tolerant. Moderate shade tolerance and of little persistence in summer.

Applications:

Overseeding of warm-season grasses (Cynodon spp., Paspalum vaginatum, Zoysia spp., etc.) to give color in winter, especially in sports fields.



COOL-SEASON (C3)

QUASAR

Smooth transition

- Very small seed size, allowing for easy overseeding on surfaces going dormant.
- Fast to establish in low temperatures.
- Magnificent dark green color.
- Excellent spring transition.
- Recommended for overseeding of greens, tees and fairways.



WINTERWAY

Very fast

- Green surface quality.
- Of maximum density and quality.
- Excellent traffic resistance.
- Highly shade-tolerant.
- Recommended for overseeding of greens, tees and fairways.



	POA TRIVIALIS		POA BULBOSA
	QUASAR	WINTERWAY	RADIX 307
Seeding rate g/m ²	20	20	10
Overseeding rate g/m ²	25-50	25-50	15
Seeds per gram	4.400	5.350	7.400
Days to germination	5-8	5-8	7
Recommended planting dates	20°C in the soil during fall		
Color	Dark	Dark	Dark
Establishment	Fast	Fast	Fast
Growth	Slow	Slow	Slow
Leaf texture	Fine	Fine	Fine
Spreading activity	Rhizomes	Rhizomes	Rhizomes
Maintenance	Low	Low	Low
Fertilizing needs	Low	Low	Low
Shade tolerance	High	High	Medium
Winter dormancy	No	No	No
Cold tolerance	High	Excellent	High
Disease resistance	Rust, Leaf spot	Leaf spot, Rust, Summer patch, Dollar spot	Rust, Leaf spot
Recovery capacity	Excellent	Excellent	Excellent
Traffic tolerance	Excellent	Excellent	High
Heat tolerance	Limited	Low	No
Mowing height	3-30 mm	From 7 mm	From 10 mm
Mowing frequency	Low	Medium	Low
Irrigation needs	High	High	Very Low
Endophyte-enhanced	No	No	No



Other cool-season species (C3)

POA BULBOSA



- Perennial crop.
- Reproduction by bulbs.
- Maximum crop height of 25-30 cm.
- High traffic tolerance.
- Low water requirements and high tolerance to drought.
- Very low heat resistance.
- It presents dormancy during the warm months. Disappear higher than 27°C.
- It enters a dormant period at the beginning of spring, therefore it will not compete for soil moisture with the production of woody crops (vines, almond trees, olive trees, pome fruit trees, etc.).
- In fall, with cool temperatures and shorter days, the bulbs regrow and their vegetative development begins again.
- Ideal for overseeding.



Creeping Bentgrass

(*Agrostis stolonifera*)

Did you know turfgrass acts like a water filter for the soil, purifying it, avoiding erosion and helping fill aquifers?



Cool-season (C3) fine-textured grass with aggressive stoloniferous dense-growth habit. Tolerates mowing from 2-3 mm and is very high maintenance.



COOL-SEASON (C3)

Applications:

Greens, tees and fairways, tennis courts, high-maintenance lawns.

High density with less inputs for greens, tees and fairways

Bright green color

TOUR PRO



The new generation with less inputs

- New generation No 1 NTEP.
- Excellent seedling vigor.
- Produces quick, elegant and slow growing turf.
- Durable surface with medium to fine leaf texture.
- Extremely traffic tolerant.
- Drought and salt tolerant.
- Excellent resistance to Dollar spot and Brown patch.
- Very aggressive against Poa annua.
- Medium green colour.
- Less prone to purpling in winter time.



Mean turfgrass quality ratings of bentgrass cultivars grown on a green at four locations in the U.S.A. for LPI group 2 (NTEP 2018)

NOME	DATA 2015-2018	DATA 2015-2018	DATA 2015-2019	DATA 2015-2019	DATA 2015-2019	DATA 2015-2019	DATA 2014	DATA 2015-2019	DATA 2015-2019	DATA 2019
	Spring greenup	Medium trampling tolerance	Winter color	Resistance to Dollar spot	Resistance to Brown patch	Color, 9-maximum	Establishment vigor	Medium % coverage in spring	Medium % coverage in summer	General appearance
TOUR PRO (GDE)	4.8	5.6	6.5	8.0	7.4	6.4	6.7	92.0	97.3	7.3
PIRANHA (DC-1)	4.2	5.4	6.4	7.6	7.9	6.7	5.5	86.6	92.1	7.1
LUMINARY	4.3	5.1	6.5	7.7	7.5	6.6	5.3	89.5	94.9	7.0
777	4.3	5.5	6.4	7.1	7.5	6.7	6.6	91.4	95.8	6.9
DECLARATION	4.0	4.6	6.0	8.0	6.9	6.2	6.5	88.8	93.7	6.7
L-93XD	4.3	5.2	6.0	8.1	6.9	6.3	5.9	83.1	94.9	7.1
PENNCROSS	2.2	3.6	5.5	7.0	7.4	5.4	6.5	85.1	93.9	5.6
VALOR LSD	1.1	0.9	0.6	0.6	1.4	0.4	0.9	8.8	7.9	1.1

2018 NTEP Classification, 1-9; 9 = best. LSD: least significant difference

Ideal for greens, tees and fairways

007 DSB

Reduced fungicide use

- No 1 NTEP result of the improvement of L-93 and Southshore.
- Magnificent resistance to Dollar spot.
- Vigorous, uniform, moderately dense growth.
- Excellent winter color with no purpling.
- Ideal for stress conditions.



LUMINARY

Exceptional performance across multiple regions

- Resistant to Dollar spot, Snow mold and summer diseases.
- Reduced phytosanitary needs.
- Resilient & wear tolerant with good recovery from ball marks. Not "puffy".
- Compatible with other Agrostis in overseeding masks the Poa annua.
- Versatile for greens&tees and fairways.



VALDERRAMA

Maximum dollar resistance

- Very competitive against Poa annua.
- Salinity tolerant.
- Heat tolerant.
- Excellent winter color.
- Vigorous, uniform, moderately dense growth.
- Reduced maintenance costs.



Ideal for greens

TEEONE (T-1)

The darkest variety in color

- Very aggressive variety against Poa annua.
- Rapid repair of ball marks, divots and moving.
- Dark bluish green color.
- Maximum sheet density, but with little tendency to pile up.
- Moderate maintenance and maximum stimpmeter reading.



Medium density varieties for tees and fairways

Salt tolerance

SEASIDE 2

Resistant to salinity

- Bred to resist drought and high salinity conditions.
- Low fertilizing needs.
- Tolerates up to 15,000 ppm of salinity in irrigation water.
- Excellent dollar spot resistance.



CREEPING BENTGRASS	High density with medium green color	High density with dark green color
	TOUR PRO	TEEONE (T-1)
Use	Greens, tees and fairways	Greens, tees
Seeding rate g/m ²	5-8	5-8
Overseeding rate g/m ²	5-8	5-15
Seeds per gram	15,200	14,640
Days to germination	3-5	2-5
Color	Medium	Very Dark bluish
Establishment	Very fast	Very fast
Growth	Upright	Upright
Leaf texture	Fine	Fine
Endophyte-enhanced	Si	Si
Fertilizing needs	Low	Low
Thatch tendency	Medium	Medium-high
Topdressing and verticutting needs	Medium	High
Ball mark recovery	Very fast	Very fast
Shade tolerance	Medium-high	Medium-high
Winter-active growing	Excellent	Excellent
Dollar spot resistance	Excellent	Moderate
Brown patch resistance	Excellent	Moderate
Poa annua resistance	Excellent	Excellent
Traffic tolerance	Excellent	Excellent
Summer stress tolerance	Excellent	High
Bentgrass bloat-scalp	No	No
Mowing height	3-5 mm	3-5 mm
Irrigation needs	Medium	High
Salt tolerance	Excellent	High

CREEPING BENTGRASS	High density and moderate maintenance			Average density
	007 DSB	VALDERRAMA	LUMINARY	SEASIDE 2
Use	Greens, Tees and Fairways			Tees, Fairways
Seeding rate g/m ²	5-8	5-8	5-8	5-8
Overseeding rate g/m ²	5-15	5-15	5-15	5-15
Seeds per gram	14,000	13,245	13,200	13,207
Days to germination	3-5	7	3-5	3-7
Color	Dark	Medium	Medium	Medium
Establishment	Very fast	14-21 dias	Fast	Fast
Growth	Upright	Upright	Upright	semi-upright
Leaf texture	Very fine	Fine	Fine	Medium
Endophyte-enhanced	Yes	Yes	Yes	Yes
Fertilizing needs	Medium	Medium	Medium	High
Thatch tendency	Medium	Medium	Medium	Medium
Topdressing and verticutting needs	Medium	Medium	Medium	Medium
Ball mark recovery	Fast	Fast	Fast	Low
Shade tolerance	Medium	Medium	Medium	Medium
Winter-active growing	Excellent	Excellent	Excellent	Low
Dollar spot resistance	Excellent	Excellent	Excellent	Low
Brown patch resistance	Excellent	Excellent	Excellent	Low
Poa annua resistance	Excellent	Excellent	Excellent	Moderate
Traffic tolerance	Excellent	Very high	Excellent	Medium
Summer stress tolerance	Excellent	Moderate	Excellent	Moderate
Bentgrass bloat-scalp	No	Moderate	Moderate	Moderate
Mowing height	3-6 mm	3-5 mm	3-6 mm	3-7 mm
Irrigation needs	Medium	High	Medium	Medium
Salt tolerance	Excellent	Excellent	Medium	High

Agrostis Castellana

Cool-season (C3) of medium to thick leaf texture and robust stolons. Tolerates cuts from 10 mm. Lower mowing makes it lose density and gives it a patched look.

Uses:

Low maintenance areas in cool weather and low quality gardening.

HIGHLAND

Standard

- Common variety of medium-low quality, usable in mild climates.
- Used in low-maintenance mixtures and with thin leaf species.



Agrostis Tenuis

Cool-season (C3) of erect growth and less lateral growth than its homonym stoloniferus. Better traffic tolerance and bright green color.

Uses:

Greens in mild climate areas with low maintenance needs. Decorative gardening.



ABERROYAL

Moderate maintenance

- Excellent winter performance.
- Bright green color.
- Excellent Dollar spot resistance.
- Wear-tolerant.
- Mowing height from 10 mm.

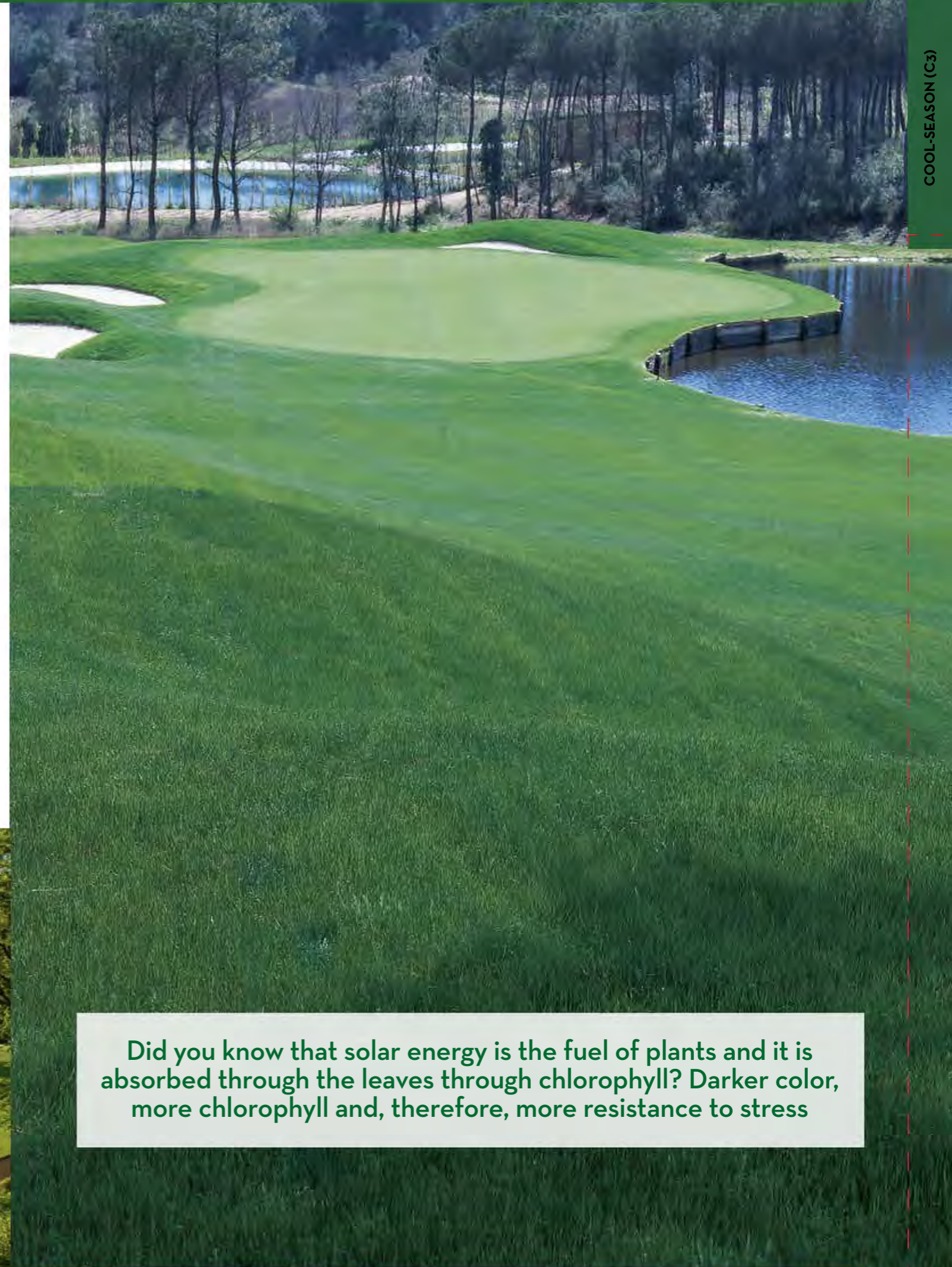


OTHER BENTS	HIGHLAND	ABERROYAL
Type	Agrostis Castellana	Agrostis Tenuis
Seeding rate g/m ²	5-10	5-8
Overseeding rate g/m ²	5-15	5-15
Overseeding with bermuda g/m ²	No	10-20
Seeds per gram	11,640	11,500
Days to germination	7-10	7-10
Recommended planting dates	Spring-fall	Spring-fall
Color	Bright	Medium
Establishment	Slow	Slow
Growth	Upright	Upright
Leaf texture	Medium	Fine
Maintenance	Low	Low
Fertilizing needs	Low	Low
Shade tolerance	Low	Medium
Winter purpling	No	No
Disease resistance	No	Dollar spot, Brown patch
Recovery capacity	Low	Excellent
Traffic tolerance	Low	Medium
Heat tolerance	High	High
Mowing height	From 15 mm	10 mm
Mowing frequency	Low	Low
Irrigation needs	Medium	Medium
Salt tolerance	Low	Low



Other cool-season species (C3)

	AGROPYRUM CRISTATUM	AGROPYRUM INTERMEDIUM	BRACHYPODIUM PHOENICOIDES	CYNOSORUS CRISTATUS	DESCAMPSIA CESPITOSA	POA ANNUA	POA NEMORALIS	POA SUPINA	PUCCINELLIA DISTANS
Variety	COMÚN	COMÚN	COMÚN	COMÚN	BALOU	TWO PUTT	ENHARY	SUPRANOVA	FULTS
Seeding rate g/m ²	40-50	40-50	30	35	20	10-15	10	10	10-15
Overseeding rate g/m ²	50	50	40	50	25	10-15	15	10	15
Seeds per gram	450	1,590	282	475	1,780	5,000	5,200	5,350	4,180
Days to germination	15-30	15-30	15-20	15-20	15-20	3-7	5-10	5-10	10-14
Recommended planting dates	Spring-fall								
Color	Medium-dark	Medium-dark	Dark	Medium	Medium	Medium	Medium	Medium	Medium
Establishment	Slow	Slow	Slow	Medium	Medium	Fast	Medium	Medium	Medium
Growth	Slow	Slow	Slow	Slow	Slow	Fast	Medium	Slow	Slow
Leaf texture	Coarse	Coarse	Medium	Medium-coarse	Medium	Fine	Fine	Fine	Fine
Mowing frequency	Medium-low	Medium-low	Low	Medium	Medium	Medium	Medium	High	Medium
Mowing height	From 40 mm	Since 40 mm	Since 30 mm	30-50 mm	20-50 mm	From 1.8 mm	Since 10 mm	3-10 mm	20-50 mm
Maintenance	Low	Low	Very low	Medium	Medium	Medium	Medium	High	Low
Fertilizing needs	Low	Low	Very low	Low	Low	Medium	Low	High	Very low
Cold tolerance	High	High	High	High	High	High	Maximum	High	No
Shade tolerance	Medium-high	Medium-high	High	Medium-high	High	High	High	Medium	Medium-high
Disease resistance	High	High	High	Fair	Fair	Fair	Fair	Fair	Medium-high
Recovery capacity	High	High	High	Medium	Medium	High	Low	High	Medium
Traffic tolerance	High	High	Medium	High	High	High	Low	High	Low
Heat tolerance	Medium-high	Very high	Very high	Low	Low	Medium	Low	Low	High
Salt tolerance	High	High	High	Low	Low	Medium	Very low	Low	Excellent
Irrigation needs	Very low	Very low	Very low	Moderate-high	Moderate-high	Medium	High	High	Medium-low
Endophyte-enhanced	No	No	No	No	No	No	No	No	No



COOL-SEASON (C3)



Did you know that solar energy is the fuel of plants and it is absorbed through the leaves through chlorophyll? Darker color, more chlorophyll and, therefore, more resistance to stress

Warm-season grass

(Cynodon dactylon)

Did you know that grass is an ideal crop to use recycled water for irrigation due to its tolerance to salinity, its high nitrogen needs and its purifying effect?



Bermudagrass

Warm-season grass (C4), which needs a minimum temperature of 18 °C in the soil to germinate, losing color below 12 °C. Lateral growth by stolons and rhizomes.



Uses:

Sports fields, football, polo, horseback riding, streets, tees and rough of golf courses, public and private gardening with very low water consumption, sod production.

Bermuda Seed Varieties

IBIZA



The solution against drought, heat, cold and salinity

- The new generation in hybrid seed Bermudagrass.
- Save 20% water compared to other bermudas.
- High salinity tolerance.
- Excellent density comparable to vegetative varieties.
- High winter-hardiness.
- High fall color retention.
- Recovers its color in spring before other Bermudagrasses. Early and quicker spring green up.
- Germinates in 7 days in optimal conditions thanks to the FITÓ OPTIMA seed enhancement.
- Exceptional wear tolerance with high recovery after traffic.
- Genetically darker green color.
- Maximum resistance to Spring dead spot.
- Container 1 kg, 10 kg.

Especially recommended for soccer fields, horse riding, tees and fairways of golf courses and public and private lawns.

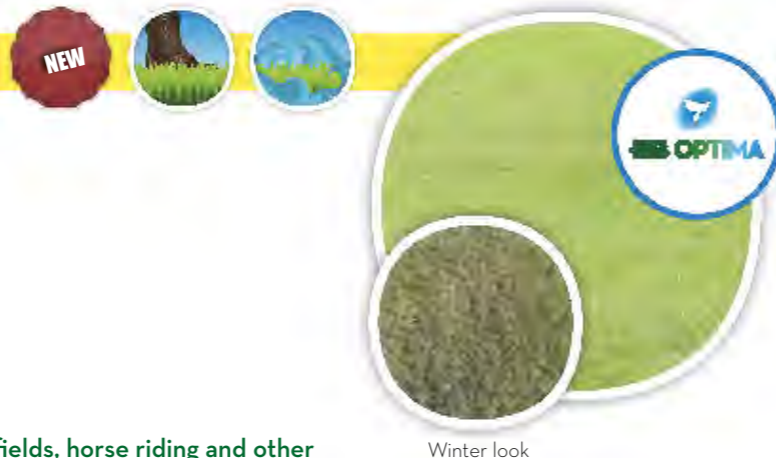


MED PRO SLT

The most resistant Bermuda to salinity

- Maximum tolerance to salinity.
- Excellent spring color recovery.
- Exceptional traffic tolerance.
- Fast establishment.
- Great recovery capacity.
- Outstanding wear tolerance.

Ideal for tees, fairways and golf courses, soccer fields, horse riding and other sports spaces, as well as public and private landscaping and soil stabilization projects.



Winter look

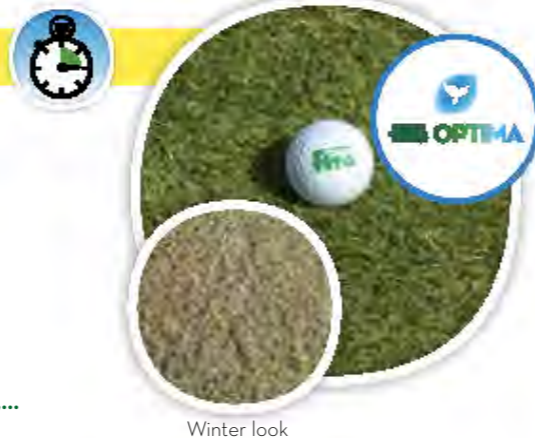
Improved Bermudagrass common type

GOBI

Very fast

- Mediterranean type with unbeatable drought and salt tolerance.
- Very fast establishment with great recovery capacity.
- Less thatchy.
- Mowing height from 15 mm.
- Low maintenance needs.
- Resistant to Spring dead spot and Dollar spot.

Suitable for landscaping, public and private lawns, sport fields, roughs,...



Winter look

Bermuda vegetatively propagated varieties

TAHOMA 31

- Variety improved at the Oklahoma University.
- Excellent cold tolerance.
- Can be used in cold climates as it tolerates -20°C.
- Excellent heat tolerance.
- Excellent traffic tolerance.
- Recovers very easily after pertinent use with proper temperatures and handling.
- High tolerant to salinity (Levels close to Paspalum vaginatum)
- Excellent spring green up.
- Moderate resistance to shade.
- Saves 20% of water compared to other varieties of bermuda.
- Very fast installation compared to the TYIFWAY 419 variety.
- Tolerates mowing up to 3 mm.

Recommended for top level sports courses, Greens, Tees, Fairways and Rough of Golf Courses. Polo fields, horse riding, tennis and public and private landscaping of the highest level.



CN88



Maximum blade fineness

- Improved variety in Australia.
- Does NOT lose color in the winter months with temperatures above 0°C in Mediterranean areas with adequate management.
- Excellent heat tolerance.
- Excellent traffic tolerance.
- Excellent spring green up.
- Saves 20% of water compared to other varieties of bermuda.
- Very fast installation compared to the TYIFWAY 419 variety.
- Tolerates mowing up to 10 mm.

Recommended for public and private gardens in the Mediterranean area where Bermudagrass that don't fade in winter and are of a high standard.



Bermuda American NTEP 2021 Trials. Data 1-9, 9 Best

VARIETY	Reproduction	General aspect	% locations in top 25%	Quality in shade	Dry quality	Traffic quality	% shock recovery
High		6,5	85,7	4,6	5,8	7,3	82,9
TAHOMA31	vegetative	6,4	78,8	4,6	5,6	6,8	81,4
LATITUDE36	vegetative	6,4	78,6	3,4	5,1	6,5	76,4
TIFWAY419	vegetative	6,0	28,6	2,3	5,2	5,4	66,9
IBIZA	seed	5,9	7,1	3,1	5,3	6,8	79,1
Low		4,8	0	1,9	3,2	5,4	66,9
LSD Test		0,2		1,1	1,9	11,9	6,9

VARIETY	Color	Spring green up	PouSpring green up	Summer density	Resistance to dollar spot	Resistance to spring dead spot	Leaf texture
High	7,3	4,9	7,2	7,5	8,0	8,0	6,7
TAHOMA 31	6,7	4,4	6,1	7,1	7,0	7,7	5,9
LATITUDE 36	6,4	4,3	6,7	7,0	6,3	7,0	6,3
TIFWAY 419	6,4	3,7	6,6	6,9	6,3	4,3	6,1
IBIZA	6,0	4,3	5,6	6,2	6,7	6,3	5,4
Low	5,3	2,2	4,5	5,3	2,0	4,0	4,9
LSD Test	0,4	0,4	0,2	0,4	1,6	1,8	0,8

WARM-SEASON (C4)

SPECIES	SEED VARIETIES			VEGETATIVE VARIETIES	
	Cynodon dactylon			Cynodon Dactylon x Cynodon transvaalensis	
VARIETY	GOBI	IBIZA	MEDPRO SLT	CN88	TAHOMA31
Seeding rate g/m ²	10-15			Planting by sod or cutting	
Overseeding rate g/m ²	10			Vegetative	
Seeds per gram	2200	1950	2100	-	
Days to germination	5	7-10	5	-	
Recommended planting dates	Spring - summer			Spring - summer	
Color	Medium	Dark	Medium Dark	Medium-Dark	
Establishment	Very fast	Medium	Very fast	Fast	Very fast
Growth	Fast	Medium	Fast	Fast	Fast
Leaf texture	Medium to fine	Fine	Medium to fine	Fine	Fine
Spreading activity	Stolons and rhizomes			Stolons and rhizomes	
Maintenance	Low	Medium	Low	Low	High
Fertilizing needs	Medium			High	High
Mowing frequency	Medium	Low	Medium	Low	Low
Mowing height	From 15 mm	From 10 mm	From 10 mm	From 10 mm	From 3 mm
Shade tolerance	Low	Moderate	Low	Low	Moderate
Winter dormancy	Below 12°C	Below 9°C	Below 12°C	Below 3°C	Below 5°C
Disease resistance	Spring dead spot	Spring dead spot, dollar spot	Spring dead spot, Dollar spot	Spring dead spot, summer patch	Spring dead spot, summer patch
Recovery capacity	Excellent			Excellent	
Traffic tolerance	Excellent			Excellent	
Heat tolerance	Excellent			Excellent	
Drought tolerance	Excellent			Excellent	
Salinity tolerance	Excellent	Excellent	Excecional	Excellent	

Seashore Paspalum, Knot Grass (*Paspalum vaginatum*)

Warm-season grass (C4) that needs a minimum temperature of 18°C in the ground to germinate, losing color below 4°C. Rhizomatous and stoloniferous growth habit. Outstanding salt tolerance.

Uses:

- Salty areas. Reclaimed water irrigation areas, soccer fields, racetracks, polo fields, greens, tees, fairways, rough, public and private lawns.
- Should be sown alone with temperatures above 18°C in the soil.



PURE DYNASTY

The new generation of Paspalum in seed

- Exceptional quality PLATINUM TE type.
- Maximum salinity tolerance.
- Allows you to lay grass in extreme salinity conditions.
- Bright dark green color.
- Needs a careful fertilization in Calcium and Manganese, specially during establishment time.

For greens, tees, fairways, rough, sports fields, public and private gardening.



Winter look



Kikuyu

(*Pennisetum clandestinum*)

Warm-season grass (C4), which needs a minimum temperature of 18 °C in the ground to germinate and loses color below 4-5 °C. Spreads by vigorous rhizomes and stolons. Maximum heat and drought tolerance. Highly traffic tolerant and low mowing. It can be sown alone or mixed with starter species.



Uses:

Seaside salt-affected soils where only low-quality water is available. Public and private lawns, sports fields, rights of way,...

Seed variety

AZ-1

Less aggressive

- Longer vegetative period. No dormancy close to the sea on the Mediterranean coast during winter.
- Finer stolons, less prone to seed heads.
- Less thatchy.
- Spring dead spot- and brown patch resistant.

Recommended for public and private gardens and sports fields.



Winter look

Variety of vegetative multiplication

KENDA PRO

NEW

The new hybrid variety of Kikuyu no inflorescence

- Maximum quality and traffic tolerance.
- Maximum heat and drought tolerance.
- Does not lose color in winter in Mediterranean coastal conditions.
- Less invasive than seed varieties by not generating seeds

Recommended for public and private gardening in a Mediterranean climate and sports fields.



Zoysiagrass

(*Zoysia japonica*, *Zoysia matrella*, *Zoysia tenuifolia*, *Zoysia híbrida*)

Warm-season tussock (C4), which needs a temperature 18 °C in the ground to germinate and loses color below 10 °C although some leaves remain green even in frost conditions. Very slow establishment. Spreads by stolons and rhizomes. Maximum tolerance to heat, drought and salinity conditions. Moderate traffic tolerance. Low maintenance. It needs a few harvests per year.



Uses:

Sustainable turf. Public and private lawns looking for low maintenance, less mowing, regular wear, shade, minimum water availability and less input.

Seed variety of Zoysia japonica

ZENPRO

Easier to establish

- Medium leaf texture.
- Faster to establish than any vegetative variety. 3-4 months in summer.
- Maximum rusticity and water savings.
- It can be maintained with 4-5 mowing a year.

Ideal for minimal maintenance gardening.



Winter look

Variety of vegetative multiplication

Variety of hybrid Zoysia (*Zoysia japonica* x *Zoysia Matrella*)

ZENPLUS

NEW

Fast-establishing vegetative variety.

- Fine leaf texture.
- Maximum traffic tolerance.
- Fast shock recovery
- Color loss in winter.
- Low maintenance needs.

Ideal for golf course tees in hot zones, gardens with maximum water savings and for low maintenance sports fields.



C4 varieties for shade situations

American grass or San Augustine Grass

(*Stenotaphrum secundatum*)

Warm-season grass (C4) with coarse, aggressive, stoloniferous leaf texture, widely used in Mediterranean climate conditions for its shade tolerance, low maintenance and for not fading in mild winters.

Uses:

Residential public and private gardens in shade or semi-shade conditions with minimal maintenance needs in a Mediterranean climate.

Seed variety

GRA PRO

NEW

The First American Grass Seed

- Excellent for shady situations in a Mediterranean climate
- Lateral growth.
- Low maintenance needs.
- Does not lose color in winter in Mediterranean areas
- Excellent heat and traffic tolerance.

Ideal for residential areas in shady situations with minimal maintenance.

Variety of vegetative multiplication

SAN PRO

NEW

Fast-establishing vegetative variety

- Vegetative variety with medium leaf texture and maximum density
- Perfectly adapts to shady conditions
- Recover easily.
- Low maintenance needs.

Ideal for shady situations in a Mediterranean climate.

Dactyloctenium Australe (*Durban Grass*)

Warm-season grass (C4) that needs 18°C in the soil for active growth, but which in Mediterranean climate conditions does not lose color during the winter. Furthermore, it is the most shade-tolerant species of C4, which makes it a very attractive species for implantation throughout the Mediterranean arc.

Uses:

Minimal maintenance gardening, sun-shade, trees, no treading, infrequent mowing.

LM

Solution for shade situations

- Excellent adaptation in shady areas
- Lateral growth
- High salinity tolerance
- Maximum tolerance to heat and traffic.

Ideal for low-maintenance public and private gardening in a Mediterranean climate where there are shade problems.

Buffalograss (*Bouteloua dactyloides*)

TEXOKA

Minimum maintenance needs

- Sustainable.
- Maximum tolerance to heat and drought.
- Minimum mowing.
- Low traffic and shadow tolerance.

Ideal for out rough or low maintenance zones in a continental climate.

Winter look

Shade resistant convolvulacia

Dichondra Repens

Convolvulaceae species adapted to coastal areas with a mild climate and available irrigation. Broad, globular, ornamental leaf that decreases in size when mowed. Growth in the form of rhizomes. It needs a minimum temperature of 20°C in the ground to germinate, preferably spring-summer. It tolerates sunlight well, but is of maximum shade tolerance and requires minimal maintenance.

Uses:

Sustainable turf, sun-shade, underneath, areas with very low mowing needs. Ornamental.



Other warm season species (C4)

SPECIES	<i>Pennisetum clandestinum</i> (Kikuyu)		<i>Paspalum vaginatum</i>	<i>Paspalum notatum</i>	<i>Zoysia japonica</i>	<i>Zoysia japonica</i> x <i>Zoysia matrella</i>
VARIETY	AZ-1	KENDAPRO	PURE DYNASTY	PENSACOLA	ZENPRO	ZENPLUS
Seeding rate g/m ²	5-15	Planting by mat or stake	6,5-13	30-45	5-15	Planting by mat or stake
Overseeding rate g/m ²	10	vegetative	10	20	10	vegetative
Seeds per gram	515	-	720	440	1409	-
Days to germination at 30°C	7-10	-	7-10	7-21	14-35	-
Recommended planting/sowing dates	Spring - summer		Spring - summer	Spring - summer	Spring - summer	Spring - summer
Color	Medium		Dark bright	Medium	Medium-Dark	Medium-Dark
Establishment	Fast		Fast	Fast	Slow	Fast
Growth	Fast		Fast	Fast	Slow	Slow
Leaf texture	Medium		Fine	Thick	Medium	Medium to fine
Spreading activity	Rhizomes and stolons		Rhizomes and stolons	Rhizomes and stolons	Rhizomes and stolons	Rhizomes and stolons
Maintenance	Medium		High	Low	Low	Low
Fertilizing needs	Medium		Low	Low	Very Low	Very Low
Mowing frequency	Medium-high		Medium-high	Low	Very Low	Very Low
Mowing height	5-30 mm		3-20 mm	30-50 mm	10-30 mm	5-30 mm
Shade tolerance	Medium		Medium	Medium	Medium	Medium
Winter dormancy	Below 4°C		Below 10°C	Below 12°C	Below 7°C	Below 5°C
Disease resistance	Spring dead spot, Brown patch		Dollar spot, Spring dead spot	-	Spring dead spot, Brown patch	Spring dead spot, Brown patch
Recovery capacity	Excellent		Excellent	Low	Low	Medium-high
Traffic tolerance	Excellent		Excellent	Medium	Medium	High
Heat tolerance	Excellent		Excellent	High	Excellent	Excellent
Drought tolerance	Very high		High	Very high	Excellent	Excellent
Salt tolerance	Excellent		Unbeatable	Medium-high	Excellent	Excellent

C4 species for minimum maintenance situations, Out rough...



Axonopus fissifolius

Bouteloua curtipendula

Bouteloua gracilis

Other warm-season species (C4)

COMMON NAME	ERVA DURBAN	ERVA DE SAN AGUSTÍN		DICHONDRA
SPECIES	<i>Dactyloctenium australe</i>	<i>Stenotaphrum secundatum</i>		<i>Dichondra repens</i>
VARIETY	LM	GRA PRO	SAN PRO	COMUM
Seeding rate g/m ²	1-3	1-3	Planting by mat or stake	5-15
Overseeding rate g/m ²	1-2		Vegetative	10
Seeds per gram	23130	2950	-	236
Days to germination at 30°C	7-10	7-10	-	7-21
Recommended planting/sowing dates	Spring - summer	Spring - summer		Spring - summer
Color	Claro	Dark		Medium-Dark
Establishment	Fast	Slow		Slow
Growth	Medium	Slow		Slow
Leaf texture	Medium	Medium		Broadleaf
Spreading activity	Stolons	Stolons		Rhizomes
Maintenance	Low	Low		Low
Fertilizing needs	Low	Medium		Low
Mowing frequency	Very low	Very low		Very low
Mowing height	From 20 mm	From 20 mm		From 10 mm
Shade tolerance	Excellent	Excellent		Excellent
Winter dormancy	Below 3°C	Below 3°C		Below 3°C
Disease resistance	Spring dead spot	Gray leaf spot		-
Recovery capacity	High	High		High
Traffic tolerance	High	High		Low
Heat tolerance	Excellent	Excellent		High
Drought tolerance	Excellent	High		Low
Salt tolerance	High	High		Low

C4 species for minimum maintenance situations, Out rough...



Pennisetum clandestinum

Dactyloctenium australe

Schizachyrium scoparius

Mixtures

Mixtures to save water and with less maintenance

SPARRING mixture



Compact and persistent

- Our most popular blend for the field, with the best performance, providing endurance and excellent recovery.
- Medium to low cultivation needs. Low mowing and fungicide needs.
- High tolerance to heat, drought and salinity.
- Water savings of up to 30% compared to standard cool-season mixtures.

Uses: Public and private lawns, football, soccer, racetracks, polo fields, roughs, pitch&putt fairways. Sod production.

Packaged: 1 kg, 5 kg and 25 kg.

CHARACTERISTICS

Seeding rate g/m ²	35
Overseeding rate g/m ²	40-50
Seeds per gram	730
Days to germination	7-12
Recommended planting dates	Spring, end of summer, fall
Color	Dark
Establishment rate	Medium
Growth	Slow
Leaf texture	Medium
Spreading activity	Yes
Maintenance	Low
Fertilizing needs	Low
Shade tolerance	Medium
Winter dormancy	No
Disease resistance	Excellent
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	Excellent
Mowing height	20-30 mm
Mowing frequency	Low
Irrigation needs	Low
Salt tolerance	High

COMPOSITION	% WEIGH	% SEED COUNT
<i>Festuca arundinacea</i> GENIUS	30%	21%
<i>Festuca arundinacea</i> TERRANO	30%	20%
<i>Festuca arundinacea</i> BIZEM	20%	15%
<i>Lolium perenne</i> RINOVO	10%	10%
<i>Poa pratensis</i> PRAFIN	5%	17%
<i>Poa pratensis</i> JERSEY	5%	17%



Mixtures to save water and with less maintenance

RÚSTICO mixture



**Good quality/price ratio.
Low maintenance.**

- Mix based on semi-dwarfing varieties of *Festuca arundinacea* and *Lolium perenne*, to withstand trampling and the uprooting.
- Resistant to diseases and pests.
- Low water and fertilizer consumption.

Uses: Football fields, horse riding, polo, golf course rough areas, pitch & putt fairways, low-maintenance gardening and maximum hardness. Cover grass for fruit orchards and vineyards.

Packaged: 25 kg.

CHARACTERISTICS	
Seeding rate g/m ²	35
Overseeding rate g/m ²	40-50
Seeds per gram	540
Days to germination	5-10
Recommended planting dates	Spring-fall
Color	Dark
Establishment rate	Fast
Growth	Slow
Leaf texture	Medium
Spreading activity	Si
Maintenance	Low
Fertilizing needs	Low
Shade tolerance	Medium
Winter dormancy	No
Disease resistance	Excellent
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	High
Mowing height	20-30 mm
Mowing frequency	Medium
Irrigation needs	Low
Salt tolerance	High

COMPOSITION	% WEIGH	% SEED COUNT
<i>Festuca arundinacea</i> FIRACES	40%	38%
<i>Festuca arundinacea</i> MÉRIDA	40%	38%
<i>Lolium perenne</i> RINGLES	10%	12%
<i>Lolium perenne</i> LOVER	10%	12%

Mixtures to save water and with less maintenance

RESISTENTE mixture



Rustic and resistant

- Uniform grass, adapted to low maintenance situations.
- Save 30% on irrigation and 50% on mowing compared to traditional lawns. Due to its Mediterranean-type *Festucas arundinaceas*, there is no winter dormancy and it recovers very well after periods without irrigation.
- Tolerates full sun, partial shade, heat, drought, salinity.

Uses: Horse riding, polo, golf course rough, low-maintenance gardening and maximum rusticity. Sod production.

Packaged: 1 kg, 5 kg and 25 kg.

CHARACTERISTICS	
Seeding rate g/m ²	40
Overseeding rate g/m ²	50
Seeds per gram	719
Days to germination	10-15
Recommended planting dates	Spring - fall
Color	Dark
Establishment rate	Medium
Growth	Slow
Leaf texture	Medium
Spreading activity	Yes
Maintenance	Medium
Fertilizing needs	Very low
Shade tolerance	High
Winter dormancy	No
Disease resistance	Excellent
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	Excellent
Mowing height	From 25 mm
Mowing frequency	Very low
Irrigation needs	Low
Salt tolerance	High

COMPOSITION	% WEIGH	% SEED COUNT
<i>Festuca arundinacea</i> TERRANO	35%	21%
<i>Festuca arundinacea</i> MÉRIDA	30%	22%
<i>Festuca arundinacea</i> GENIUS	30%	22%
<i>Poa pratensis</i> PRAFIN	5%	35%



Mixtures to save water and with less maintenance

STRONG mixture



The new generation of Festuca arundinacea for sports fields

- Low maintenance.
- Fine leaf texture.
- Excellent traffic tolerance and recovery.
- 30% water savings.
- Maximum drought and shade tolerance.
- Excellent winter activity.

Uses: Public and private gardening with low maintenance and high aesthetics. Rough of golf courses, equestrian, polo.

Packaged: 25 kg.

COMPOSITION	% WEIGH	% SEED COUNT
<i>Festuca arundinacea</i> BIZEM	50%	49%
<i>Festuca arundinacea</i> GENIUS	25%	26%
<i>Festuca arundinacea</i> TERRANO	25%	24%

CHARACTERISTICS	
Seeding rate g/m ²	45
Overseeding rate g/m ²	50
Seeds per gram	495
Days to germination	7-12
Recommended planting dates	Spring-fall
Color	Dark
Establishment rate	Fast
Growth	Slow
Leaf texture	Fine
Spreading activity	Yes
Maintenance	Low
Fertilizing needs	Low
Shade tolerance	High
Winter dormancy	No
Disease resistance	Excellent
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	Excellent
Mowing height	From 10 mm
Mowing frequency	Low
Irrigation needs	Low
Salt tolerance	High

Mixtures to save water and with less maintenance

COSTA mixture



For drought and salinity

- Specific blend for the Mediterranean coast or warm inland areas.
- 50% less irrigation needed compared to traditional cool-season grasses.
- Due to its varieties of Fescue arundinacea it does not have winter dormancy.
- Recovers very well after periods without water.
- Excellent in sunny areas, partial shade, heat, drought and salinity conditions.

Uses: Equestrian, polo, golf course rough, low-maintenance gardening and maximum hardiness in coastal situations.

Packaged: 1 kg, 5 kg and 25 kg.

COMPOSITION	% WEIGH	% SEED COUNT
<i>Festuca arundinacea</i> BIZEM	35%	19%
<i>Festuca arundinacea</i> MÉRIDA	35%	19%
<i>Poa pratensis</i> PRAFIN	10%	30%
<i>Lolium perenne</i> SUN	10%	7%
<i>Cynodon dactylon</i> GOBI	10%	25%

CHARACTERISTICS	
Seeding rate g/m ²	25-35
Overseeding rate g/m ²	50
Seeds per gram	906
Days to germination	7-15
Recommended planting dates	Spring - fall
Color	Dark
Establishment rate	Medium
Growth	Slow
Leaf texture	Medium
Spreading activity	Yes
Maintenance	Medium
Fertilizing needs	Very low
Shade tolerance	Medium
Winter dormancy	No
Disease resistance	Excellent
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	Excellent
Mowing height	From 25 mm
Mowing frequency	Low
Irrigation needs	Very low
Salt tolerance	Excellent



High-maintenance mixtures and maximum traffic tolerance

SPORT mixture

Fine and traffic-tolerant

- It installs very quickly when incorporating last generation perennial Lolium varieties with great persistence. La Poa pratensis it provides recovery capacity and lateral framing.
- Varieties adapted to low mowing heights and very stressful climatic and traffic situations.
- The result is a high plant density.

Uses: Football, tennis, equestrian, golf course tees and streets, garden of maximum quality. Sod production.

Packaged: 1 kg, 5 kg and 25 kg.



CHARACTERISTICS	
Seeding rate g/m ²	25-35
Overseeding rate g/m ²	40-50
Seeds per gram	1,151
Days to germination	5-10
Recommended planting dates	Spring-fall
Color	Medium dark
Establishment rate	Fast
Growth	Medium
Leaf texture	Fine
Spreading activity	Yes
Maintenance	Medium
Fertilizing needs	High
Shade tolerance	Low
Winter dormancy	No
Disease resistance	High
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	High
Mowing height	From 10 mm
Mowing frequency	Medium
Irrigation needs	Medium
Salt tolerance	High

COMPOSITION	% WEIGH	% SEED COUNT
<i>Lolium perenne</i> PROCESS	25%	12%
<i>Lolium perenne</i> GREENLAND	25%	12%
<i>Lolium perenne</i> RINOVO	20%	11%
<i>Poa pratensis</i> PRAFIN	10%	20%
<i>Poa pratensis</i> STRENUUS	10%	21%
<i>Poa pratensis</i> JUMPSTART	10%	23%

High-maintenance mixtures and maximum traffic tolerance

SPORT BLUE mixture

The innovation for sports fields

- Maximum resistance to Pyricularia and summer illnesses. La Poa pratensis provides recovery capacity and lateral growth.
- They are varieties adapted to the low cut and to situations of climatic stress and use.
- The result is a high plant density.
- Allows summer seeding.

Uses: Football fields, tennis courts, horse riding, golf course tees and streets, top quality gardening. Sod production.

Packaged: 1 kg, 5 kg and 25 kg.



CHARACTERISTICS	
Seeding rate g/m ²	10-15
Overseeding rate g/m ²	25
Seeds per gram	2480
Days to germination	12-25
Recommended planting dates	Spring - summer
Color	Medium dark
Establishment	Medium
Growth	Slow
Leaf texture	Fine
Mowing frequency	Yes
Mowing height	Medium
Maintenance	Medium
Fertilizing needs	High
Cold tolerance	No
Shade tolerance	High
Disease resistance	Excellent
Recovery capacity	Excellent
Traffic tolerance	High
Heat tolerance	From 12 mm
Salt tolerance	Medium
Irrigation needs	Medium

COMPOSITION	% WEIGH	% SEED COUNT
<i>Poa pratensis</i> PRAFIN	30%	28%
<i>Poa pratensis</i> JERSEY	20%	23%
<i>Poa pratensis</i> FIELD PRO	25%	26%
<i>Poa pratensis</i> STRENUSS	25%	23%



Fine leaf textured mixtures

ORNAMENTAL mixture



Fine and fast

- Aesthetic, fine-textured mixture with medium to low maintenance needs
- Quick laying on the field.
- Well traffic and shade tolerance. Easy recovery.
- Prefers temperate to cold climate though the advanced varieties are also heat-tolerant.

Uses: Public and private lawns with fine sheet texture. Fairways and tees of golf courses.

Packaged: 1 kg, 5 kg and 25 kg.

CHARACTERISTICS	
Seeding rate g/m ²	25-35
Overseeding rate g/m ²	40-50
Seeds per gram	874
Days to germination	5-8
Recommended planting dates	Spring-fall
Color	Medium
Establishment rate	Fast
Growth	Medium
Leaf texture	Very fine
Spreading activity	Yes
Maintenance	Medium
Fertilizing needs	Medium
Shade tolerance	Medium
Winter dormancy	No
Disease resistance	Medium
Recovery capacity	High
Traffic tolerance	High
Heat tolerance	Medium
Mowing height	From 15 mm
Mowing frequency	Medium
Irrigation needs	Medium
Salt tolerance	Medium

COMPOSITION	% WEIGH	% SEED COUNT
<i>Festuca rubra rubra</i> RUF1	30%	26%
<i>Festuca rubra rubra</i> FINEPRO	10%	10%
<i>Lolium perenne</i> SUN	25%	17%
<i>Lolium perenne</i> RINGLES	25%	15%
<i>Poa pratensis</i> PRAFIN	10%	32%

Fine leaf textured mixtures

SOMBRA mixture



Fine and ornamental

- Fine-textured mixture specially designed for shaded areas.
- Moderate mowing and fertilizing needs.
- Prefers temperate climate though it can be used in warm areas.

Uses: Public and private lawns with fine leaf texture. Fairways and tees of golf courses. Shadow situations.

Packaged: 1 kg, 5 kg and 25 kg.

CHARACTERISTICS	
Seeding rate g/m ²	25
Overseeding rate g/m ²	35
Seeds per gram	788
Days to germination	5-8
Recommended planting dates	Spring-fall
Color	Medium
Establishment rate	Medium
Growth	Slow
Leaf texture	Very fine
Spreading activity	Yes
Maintenance	Medium
Fertilizing needs	Medium
Shade tolerance	High
Winter dormancy	No
Disease resistance	High
Recovery capacity	Low
Traffic tolerance	Medium
Heat tolerance	Medium
Mowing height	From 15 mm
Mowing frequency	Low
Irrigation needs	Medium
Salt tolerance	Medium

COMPOSITION	% WEIGH	% SEED COUNT
<i>Festuca rubra rubra</i> RUF1	40%	39%
<i>Festuca Rubra trichophylla</i> JOPPA	20%	20%
<i>Festuca rubra commutata</i> ZODIAC	20%	27%
<i>Lolium perenne</i> RINGLES	20%	14%



Mixtures for reseeding

CREeping RYE mixture



100% dark-colored, side-growing varieties

- Monospecific blend based on varieties of *Lolium perenne* last generation characterized by their lateral growth and maximum persistence.
- Excellent for filling in worn areas in any mixture or situation.
- The size of seeds, smaller than other varieties of *Lolium perenne* and its capacity for lateral growth allow to lower the dose of sowing a 30% up to 20 g/m².

Uses: In any area such as initial seeding or reseeding. For sod production, high traffic sport areas, tees, football and gardens of maximum quality where desired a horizontal and vertical growth.

Packaged: 25 kg.

COMPOSITION	% WEIGH	% SEED COUNT
<i>Lolium perenne</i> PROCESS	40%	38%
<i>Lolium perenne</i> GREENLAND	30%	29%
<i>Lolium perenne</i> RINOVO	30%	33%

CHARACTERISTICS	
Seeding rate g/m ²	20
Overseeding rate g/m ²	30
Seeds per gram	513
Days to germination	3-7
Recommended planting dates	All year
Color	Dark
Establishment rate	Very fast
Growth	Fast
Leaf texture	Fine
Spreading activity	Yes
Maintenance	Medium- High
Fertilizing needs	High
Shade tolerance	Low
Winter dormancy	No
Disease resistance	High
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	High
Mowing height	8-20 mm
Mowing frequency	High
Irrigation needs	High
Salt tolerance	Excellent

Mixtures for reseeding

LIGHT RYE mixture



With lateral growth and light green color

- Monospecific blend based on last generation perennial *Lolium* varieties characterized by their light color, lateral growth and high density and persistence.
- It is characterized by being a formula with varieties of fast establishment and great fineness of leaves.
- Excellent traffic and pulling tolerance.
- Difuminates the contamination of the *Poa annua* of the land.

Uses: In any area such as initial seeding or reseeding. For the formation of sod, sports use in areas of maximum traffic, tees, football and lawns of maximum quality where horizontal and vertical growth is desired.

Packaged: 25 kg.

COMPOSITION	% WEIGH	% SEED COUNT
<i>Lolium perenne</i> ZURICH	50%	52%
<i>Lolium perenne</i> EUROPITCH	25%	24%
<i>Lolium perenne</i> DICKENS	25%	24%

CHARACTERISTICS	
Seeding rate g/m ²	20
Overseeding rate g/m ²	30
Seeds per gram	513
Days to germination	3-7
Recommended planting dates	All year
Color	Light
Establishment rate	Very fast
Growth	Fast
Leaf texture	Fine
Spreading activity	Yes
Maintenance	Medium- High
Fertilizing needs	High
Shade tolerance	Low
Winter dormancy	No
Disease resistance	High
Recovery capacity	Very good
Traffic tolerance	Excellent
Heat tolerance	High
Mowing height	From 10 mm
Mowing frequency	High
Irrigation needs	High
Salt tolerance	Medium



Mixtures for reseeding

REPOBLADOR mixture



Quick and easy

- Great mix that offers the benefits of quick germination with a latest generation ryegrass that withstands throughout the playing season
- Excellent for filling in damaged areas in any mixture or situation.
- Excellent traffic tolerance and recovery.

Uses: Overseeding any type of grass or as a base mix for football, polo, tennis, streets and tees and quality lawn fields.

Packaged: 1 kg, 5 kg and 25 kg.

CHARACTERISTICS	
Seeding rate g/m ²	25
Overseeding rate g/m ²	50
Seeds per gram	573
Days to germination	3-7
Recommended planting dates	All year
Color	Dark
Establishment rate	Very fast
Growth	Fast
Leaf texture	Fine
Spreading activity	No
Maintenance	Medium- High
Fertilizing needs	High
Shade tolerance	Low
Winter dormancy	No
Disease resistance	High
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	High
Mowing height	8-20 mm
Mowing frequency	High
Irrigation needs	High
Salt tolerance	High

COMPOSITION	% WEIGH	% SEED COUNT
<i>Lolium perenne</i> RINGLES	40%	38%
<i>Lolium perenne</i> LOVER	30%	30%
<i>Lolium perenne</i> SUN	30%	32%

Mixtures for reseeding

FAST mixture



Quick setting with low temperatures

- The formula combines an Italian ryegrass (*Lolium multiflorum*) grass with dwarfing features and a high-quality perennial ryegrass.
- It germinates at 3 °C in the ground and takes root quickly.
- Have maximum traffic tolerance.
- When summer comes, the annual ryegrass disappears smoothly and progressively without herbicides, ensuring a natural transition between varieties.

Uses: Ideal for overseeding on cool-season species (C3) to cover worn spots or for overseeding on warm-season species (C4) in fall where a progressive transition without herbicides is desired. Tees and fairways, football, equestrian, tennis, gardening..

Packaged: 25 kg.

CHARACTERISTICS	
Seeding rate g/m ²	30-40
Overseeding rate g/m ²	50
Seeds per gram	508
Days to germination	3-7
Recommended planting dates	Fall - winter - spring
Color	Dark
Establishment rate	Very fast
Growth	Fast
Leaf texture	Fine
Spreading activity	No
Maintenance	Medium-high
Fertilizing needs	High
Shade tolerance	Low
Winter dormancy	No
Disease resistance	High
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	Medium- low
Mowing height	10-20 mm
Mowing frequency	High
Irrigation needs	High
Salt tolerance	Medium

COMPOSITION	% WEIGH	% SEED COUNT
<i>Lolium perenne</i> SUN	50%	60%
<i>Lolium perenne</i> THUNDER	50%	40%



Cover mixtures with **Wild flowers**

JARDÍN FLORIDO

(wild flowers)



Explosion of color

GENERAL USE

- Wild flowers.
- 60-80 cm height.

Uses: Parterres, rockeries, borders and creating spots of color...

Composition: *Iberis umbellata*, *Centaurea cyanus*, *Calendula officinalis*, *Cosmos sulphureus*, *Delphinium consolida* mixed, *Linum perenne*, *Zinnia elegans*, *Coreopsis lanceolata*, *Papaver rhoeas*, *Gaillardia pulchella*, *Chrysanthemum carinatum*, *Chrysanthemum carinatum*, *Coreopsis tinctoria*, *Silene pendula*, *Festuca ovina* Aberfleeze.

Packaging: 10 g (4 m²), 100 g (40 m²), 500 g (20 m²).

ENANO

- Wild flowers.
- 20-30 cm height.

Uses: Parterres, rockeries, borders and creating spots of color...

Composition: *Cheiranthus allionii*, *Dimorphotheca sinuata*, *Tagetes patula*, *Calendula officinalis*, *Silene pendula*, *Iberis amara*, *Viola cornuta*, *Dianthus deltoides* mixed, *Lasthenia glabrata*, *Lobularia maritima*, *Malcolmia maritima*, *Phacelia campanularia*, *Saponaria ocymoides*, *Potentilla recta*, *Chrysanthemum paludosum*, *Alyssum saxatile*, *Bellis perennis*, *Festuca ovina* Aberfleeze.

Packaging: 10 g (4 m²), 100 g (40 m²), 500 g (20 m²).

Cover mixtures with **Wild flowers**

CÉSPED FLORIDO

(meadow mix)



Turf and flower harmony

GENERAL USE

- Wildflowers with low maintenance grasses.
- 60-80 cm maximum height. No traffic.

Uses: Areas where a natural-looking, flower-studded lawn is desired.

Composition: *Iberis umbellata*, *Centaurea cyanus*, *Calendula officinalis*, *Cosmos sulphureus*, *Delphinium consolida*, *Linum perenne*, *Zinnia elegans*, *Coreopsis lanceolata*, *Papaver rhoeas* mixed, *Gaillardia pulchella*, *Chrysanthemum coronarium*, *Chrysanthemum carinatum*, *Coreopsis tinctoria* Dwarf, *Silene pendula*, *Festuca ovina* Aberfleeze, *Festuca rubra rubra Rufi*.

Packaging: 500 g (20 m²), 10 kg.

ENANO

- Wildflowers with low maintenance grasses.
- 20 cm maximum height. With light traffic.

Uses: Grass scattered with flowers with low-maintenance needs, outcrops, low-maintenance gardens where a wide range of colors is desired.

Composition: *Cheiranthus allionii*, *Dimorphotheca sinuata*, *Tagetes patula*, *Calendula officinalis*, *Silene pendula*, *Viola cornuta*, *Dianthus deltoides* mixed, *Lasthenia glabrata*, *Lobularia maritima*, *Malcolmia maritima*, *Saponaria ocymoides*, *Potentilla recta*, *Alyssum saxatile*, *Bellis perennis*, *Festuca ovina* Aberfleeze, *Festuca rubra rubra Rufi*.

Packaging: 500 g (20 m²), 10 kg.



CHARACTERISTICS	SPARRING	RÚSTICA	RESISTANT	STRONG	COSTA	SPORT		SPORT BLUE	ORNAMENTAL	SOMBRA	CREEPING RYE	LIGHT RYE	REPOBLADOR	FAST
Seeding rate g/m ²	35	35	40	45	25-35	25-35		10-15	25-35	25	20-30	30	25	30-40
Overseeding rate g/m ²	40-50	40-50	50	50	50	40-50		25	40-50	35	30	30	50	50
Seeds per gram	730	540	719	495	906	1.151		2480	874	788	513	513	573	508
Days to germination	7-12	5-10	10-15	7-12	7-15	5-10		12-25	5-8	5-8	3-7	3-7	3-7	3-7
Recommended planting dates	Spring, end of summer, fall	Spring - fall	Late spring	Spring - fall	Late spring - summer	Spring-summer		Spring-summer	Spring - fall	Spring - fall	All year	All year	All year	Fall, winter, spring
Color	Dark	Dark	Dark	Dark	Dark	Medium-dark		Medium dark	Medium	Medium	Dark	Light	Dark	Dark
Establishment rate	Medium	Fast	Medium	Fast	Medium	Fast		Medium	Fast	Medium	Very fast	Very fast	Very fast	Very fast
Growth	Slow	Slow	Slow	Slow	Slow	Medium		Slow	Medium	Slow	Fast	Fast	Fast	Fast
Leaf texture	Medium	Medium	Medium	Fine	Medium	Fine		Fine	Muito fina	Muito fina	Fine	Fine	Fine	Fine
Spreading activity	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	No	No
Maintenance	Low	Low	Medium	Low	Medium	Medium		Medium	Medium	Medium	Medium- High	Medium- High	Medium- High	Medium-high
Fertilizing needs	Low	Low	Very low	Low	Very low	High		Medium	Medium	Medium	High	High	High	High
Shade tolerance	Medium	Medium	High	High	Medium	Low		High	Medium	High	Low	Low	Low	Low
Winter dormancy	No	No	No	No	No	No		No	No	No	No	No	No	No
Disease resistance	Excellent	Excellent	Excellent	Excellent	Excellent	High		High	Medium	High	High	High	High	High
Recovery capacity	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent		Excellent	High	Low	Excellent	Very good	Excellent	Excellent
Traffic tolerance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent		Excellent	High	Medium	Excellent	Excellent	Excellent	Excellent
Heat tolerance	Excellent	High	Excellent	Excellent	Excellent	High		High	Medium	Medium	High	High	High	Medium- low
Mowing height	20-30 mm	20-30 mm	From 25 mm	From 10 mm	From 25 mm	From 10 mm		From 12 mm	From 15 mm	From 15 mm	8-20 mm	From 10 mm	8-20 mm	10-20 mm
Mowing frequency	Low	Medium	Very low	Low	Low	Medium		Medium	Medium	Low	High	High	High	High
Irrigation needs	Low	Low	Low	Low	Very low	Medium		Medium	Medium	Medium	High	High	High	High
Salt tolerance	High	High	High	High	Excellent	High		High	Medium	Medium	Excellent	Medium	High	Medium

Variety	JARDÍN FLORIDO (Wild Flowers)		CÉSPED FLORIDO (Meadow Mix)	
	GENERAL USE	ENANO	GENERAL USE	ENANO
Seeding rate g/m ²	2-3	2-3	25	25
Days to germination	15-20	15-20	15-20	15-20
Recommended planting dates	Mainly spring and fall		Spring and fall	
Color	Yellow, blue, white, red, purple, rose	Yellow, blue, white	Yellow, blue, white, red, rose, violet	Yellow, white, rose, violet
Maintenance	Low	Low	Low	Low
Fertilizing needs	Low	Low	Low	Low
Shade tolerance	Moderate	Moderate	Moderate	High
Drought tolerance	Low	Low	High	High
Salt tolerance	Low	High	High	High
Mowing height	-	-	No mowing	From 10 cm
Mowing frequency	Twice a year after blooming		1-2 times a year after end of blooming	1-2 times a year
Traffic tolerance	No	No	No	Moderate to high
Plant height	60 cm	10-30 cm	60 cm	20 cm
Pollinator mixture	Excellent	Excellent	Excellent	Yes



Revegetation and landscape restoration

Low performance

Cover Crops



SPARRING NITRO

- The advantages of Sparring mixture with very low inputs.

Composition:

- 85% *Festuca arundinacea* MERIDA
- 10% *Lolium perenne* RINGLES
- 5% *Trifolium repens* PIPOLINA

Seeding rate: 40 g/m².

Seeding time: Spring and fall.

NATURAL MEADOW

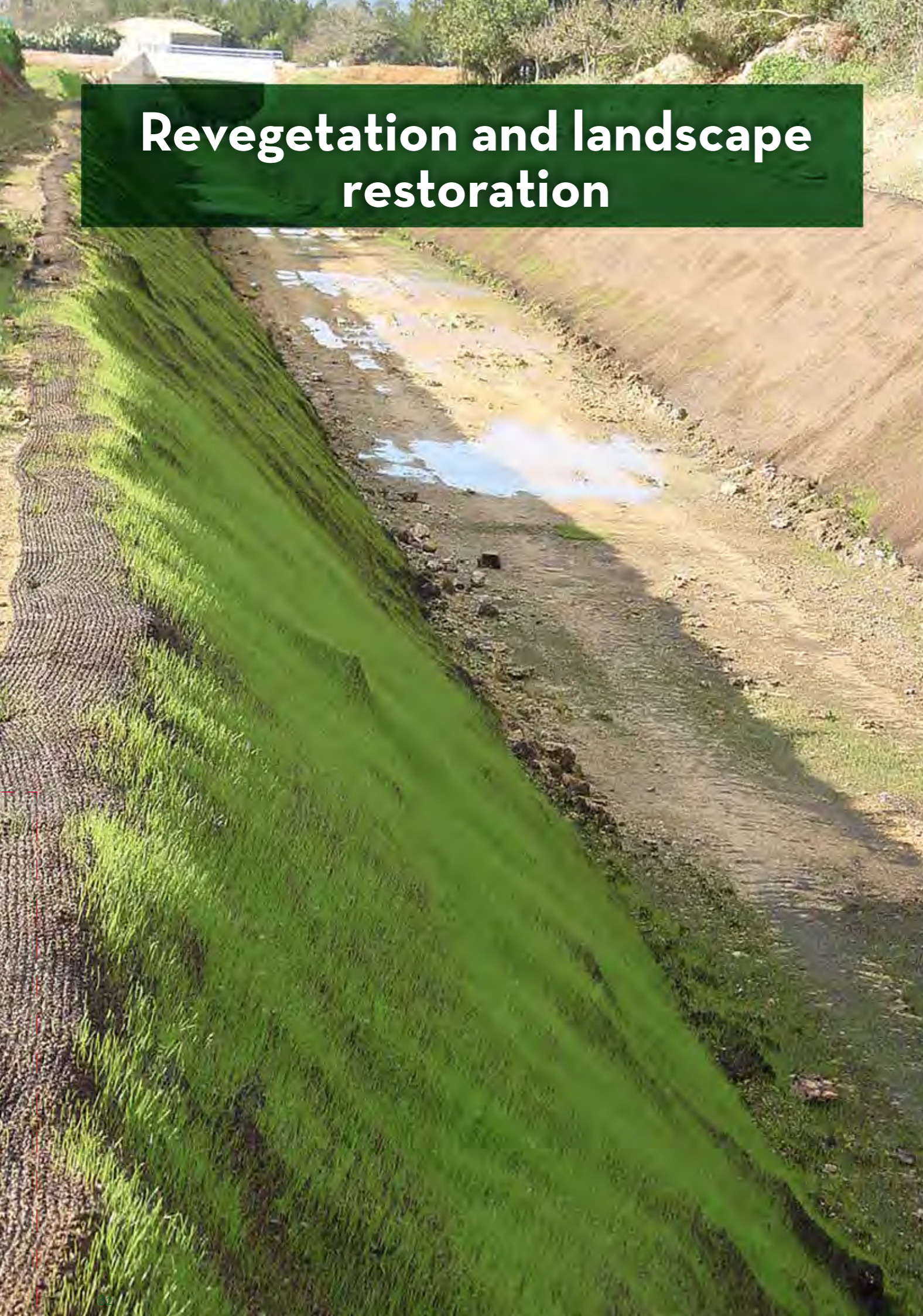
- Low-maintenance mixture with clover that catches nitrogen from the atmosphere.
- For any soil and climate.
- Minimal mowing and irrigation needs.
- Natural meadow appearance.

Composition:

- 15% *Lolium perenne*
- 45% *Festuca rubra rubra*
- 25% *Festuca arundinacea*
- 5% *Cynodon dactylon*
- 10% *Trifolium repens*

Seeding rate: 15 g/m².

Seeding time: Spring and fall.



HYDROSEEDING-REVEGETATION

Mediterranean mixture

Native species to be added: *Antyllis cytisoides*, *Cistus albidus*, *Lygeum spartium*, *Piptatherum milliaceum*, *Psoralea bituminsa*, *Retama sphaerocarpa*, *Stipa tenacissima*.

Composition:

25%	<i>Lolium perenne</i>
20%	<i>Agropyrum elongatum</i>
20%	<i>Festuca arundinacea</i>
15%	<i>Dactylis glomerata</i>
10%	<i>Onobrychis Viciaefolia</i>
5%	<i>Cynodon Dactylon</i>
5%	<i>Medicago Sativa</i>

Seeding rate: 25-30 g/m².

Seeding time: Spring-fall.

Continental mixture

Native species to be added: *Cistus clusii*, *Lavandula officinalis*, *Rosmarinus officinalis*, *Spartium junceum*, *Thymus vulgaris*.

Composition:

20%	<i>Lolium perenne</i>
15%	<i>Agropyrum elongatum</i>
20%	<i>Festuca arundinacea</i>
10%	<i>Dactylis glomerata</i>
15%	<i>Festuca rubra rubra</i>
5%	<i>Lotus corniculatus</i>
5%	<i>Trifolium subterraneum</i>
5%	<i>Melilotus officinalis</i>
5%	<i>Onobrychis viciaefolia</i>

Seeding rate: 25-30 g/m².

Seeding time: Spring-fall.

Oceanic mixture

Native species to be added: *Cytissus scoparius*, *Genista scorpius*, *Spartium junceum* and *Ulex europaeus*.

Composition:

20%	<i>Lolium perenne</i>
25%	<i>Dactylis glomerata</i>
25%	<i>Festuca rubra rubra</i>
10%	<i>Festuca ovina duriuscula</i>
5%	<i>Sanguisorba minor</i>
5%	<i>Agrostis tenuis</i>
5%	<i>Trifolium repens</i>
5%	<i>Melilotus officinalis</i>

Seeding rate: 25-30 g/m².

Seeding time: Spring-fall.

Ski resort mixture

This mixture has the following purpose:

- Fixing the soil to prevent erosion.
- Keeping the white cover as long as possible.
- Preventing avalanches.
- Covering the soil to give an aesthetic appearance during summer season and reducing environmental impact of the ski areas.

Composition:

24%	<i>Lolium perenne</i>
25%	<i>Dactylis glomerata</i>
25%	<i>Festuca rubra rubra</i>
15%	<i>Fleo pratensis</i>
5%	<i>Agrostis tenuis</i>
5%	<i>Trifolium repens</i>
1%	<i>Achillea millefolium</i>

Seeding rate: 25-30 g/m².

Seeding time: Summer.

High mountain mixture

Composition:

20%	<i>Lolium perenne</i>
25%	<i>Dactylis glomerata</i>
25%	<i>Festuca rubra rubra</i>
15%	<i>Fleo pratensis</i>
5%	<i>Agrostis tenuis</i>
5%	<i>Trifolium repens</i>
5%	<i>Melilotus officinalis</i>

Seeding rate: 25-30 g/m².

Seeding time: Spring-fall.





ENSURE YOUR CROP'S ECOSYSTEM WITH OUR COVER GRASS

The **FITO COVER** range has different products developed by Semillas Fitó in order to obtain groundcover, which serves as an agronomic method for farm management. The goal is to help maintain and develop the structure and physical-chemical balance of the soil to benefit the main crop.

FUNCTIONS OF FITO COVER PRODUCTS

- Increase organic matter content and improve soil structure.
- Reduce the risk of soil erosion and increase infiltration/retention of rainwater.
- Serve as a refuge for beneficial insects for pest control.
- Control weeds by competitive effects.
- Better iron absorption; grasses have the ability to produce iron complexes.
- If legumes are present, they will transfer atmospheric nitrogen to the soil.
- Depending on how it is used in the property, may be used for livestock feed.



Formula composed exclusively of perennial grasses, which provide a very dense, high-persistence and dwarf growth habit groundcover. All these factors help reduce maintenance costs because the passage of machinery is reduced. Planting Fitó Cover Grass in fruit or orchard orchards is recommended, since they have irrigation support and promote the development of the species providing groundcover.

SEEDING RATE: 40-50 kg/ha.

SEEDING PERIOD: Preferably in fall although it could also be done in spring.



Cover grass formed by different annual species of grasses and legumes which have a high reseeding capacity, which ensure their persistence over time. Using Fitó Cover Mix is advised in vineyards and olive groves where the water supply is limited or null and climatic conditions are arid.

SEEDING RATE: 20 to 30 kg/ha.

SEEDING PERIOD: In fall, the sooner the better.



The range of **PERMANENT** formulas stand out for their durability and permanence in pasture. The combination of different species and growth periods allows extending the life of pasture, ensuring high production of quality forage for a long time.

TYPE: Multiyear.

OBJECTIVES: Its main purpose is for grazing, but can also be grown for mowing according to agricultural practices. Particularly suitable for extensive livestock facilities.

SEEDING PERIOD: Fall or spring.

PERMANENT FRESH

FOR TEMPERATE AND HUMID AREAS

- Ideal for temperate and humid areas.
- Constant production guaranteed.

Composition: 93% grasses - 7% legumes

- Perennial ryegrass and hybrids
- Tall fescue
- Cocksfoot
- Timothy seeds
- Perennial clovers

Rate: 35-40 kg/ha



PERMANENT WARM

FOR WARMER AREAS

- Formula adapted and very developed in warm areas. It performs best with irrigation support.
- High production once it takes root.

Composition: 93% grasses - 7% legumes

- Raigrasses perennes Perennial ryegrass and hybrids
- Tall fescue
- Dactyl
- Perennial clovers

Rate: 30-35 kg/ha



PERMANENT PLUS

MORE PROTEINS

- Particularly suitable for temperate and humid areas.
- Great protein contribution thanks to higher legume count.

Composition: 80% grasses - 20% legumes

- Perennial ryegrass and hybrids
- Perennial clover

Rate: 35-40 kg/ha



PERMANENT GRASS

GREATER VERSATILITY

- Strong adaptation to all kinds of crop management.
- Formula suited to both humid and warm areas—in the latter more adaptable with irrigation.

Composición: 100% grasses


- Perennial ryegrass and hybrids
- Tall fescue
- Dactyl
- Phleum pratense

Rate: 30-35 kg/ha

Uses Golf



USES MEDITERRANEAN COAST	
 GREENS	<ul style="list-style-type: none"> • <i>Agrostis stolonifera</i> 007 DSB, TOUR PRO, T-1, LUMINARY, VALDERRAMA • <i>Paspalum vaginatum</i> PURE DYNASTY
ANTEGREENS	<ul style="list-style-type: none"> • <i>Agrostis stolonifera</i> 007 DSB, TOUR PRO, T-1, LUMINARY, VALDERRAMA • Mistura CREEPING RYE, REOBLADOR, SPORT • <i>Lolium perenne</i> PROCESS, RINOVO, GREENLAND • <i>Paspalum vaginatum</i> PURE DYNASTY
TEES, FAIRWAYS	<ul style="list-style-type: none"> • Mistura CREEPING RYE, ORNAMENTAL, REOBLADOR, SPORT • <i>Agrostis stolonifera</i> 007 DSB, TOUR PRO, LUMINARY, VALDERRAMA • <i>Cynodon dactylon</i> IBIZA • <i>Paspalum vaginatum</i> PURE DYNASTY
ROUGH	<ul style="list-style-type: none"> • Mistura COSTA, RESISTENTE, SPARRING, STRONG • <i>Cynodon dactylon</i> GOBI, IBIZA, MEDPRO SLT • <i>Paspalum vaginatum</i> PURE DYNASTY
OUT ROUGH	<ul style="list-style-type: none"> • <i>Cynodon dactylon</i> GOBI
OVERSEEDING	<ul style="list-style-type: none"> • Mistura CREEPING RYE, REOBLADOR, FAST • <i>Lolium perenne</i> PROCESS, LOVER, GREENLAND, RINGLES, RINOVO, SUN • <i>Lolium multiflorum</i> THUNDER • <i>Poa trivialis</i> QUASAR, WINTERWAY • <i>Poa bulbosa</i> RADIX 307


USES CONTINENTAL CLIMATE	
 GREENS	<ul style="list-style-type: none"> • <i>Agrostis stolonifera</i> 007 DSB, TOUR PRO, T-1, LUMINARY, VALDERRAMA
ANTEGREENS	<ul style="list-style-type: none"> • <i>Agrostis stolonifera</i> 007 DSB, TOUR PRO, T-1, LUMINARY, VALDERRAMA • Mistura CREEPING RYE, REOBLADOR, SPORT • <i>Lolium perenne</i> PROCESS, RINOVO, GREENLAND
TEES, FAIRWAYS	<ul style="list-style-type: none"> • Mistura CREEPING RYE, ORNAMENTAL, REOBLADOR, SPORT • <i>Agrostis stolonifera</i> 007 DSB, TOUR PRO, LUMINARY, VALDERRAMA • <i>Cynodon dactylon</i> IBIZA, MEDPRO SLT • <i>Lolium perenne</i> GREENLAND, RINOVO
ROUGH	<ul style="list-style-type: none"> • Mistura ORNAMENTAL, RESISTENTE, RÚSTICO, SPARRING • <i>Cynodon dactylon</i> GOBI, IBIZA, MEDPRO SLT
OUT ROUGH	<ul style="list-style-type: none"> • <i>Festuca ovina</i> ABERFLEECE • <i>Festuca brevipila</i>: SPARTAN 2 • <i>Cynodon dactylon</i> GOBI, <i>Bouteloua dactyloides</i> TEXOKA


USES OCEANIC CLIMATE	
 GREENS	<ul style="list-style-type: none"> • <i>Agrostis stolonifera</i> 007 DSB, TOUR PRO, T-1, LUMINARY, VALDERRAMA
ANTEGREENS	<ul style="list-style-type: none"> • <i>Agrostis stolonifera</i> 007 DSB, TOUR PRO, T-1, LUMINARY, VALDERRAMA • Mistura CREEPING RYE, REOBLADOR, SPORT • <i>Lolium perenne</i> PROCESS, GREENLAND, RINOVO
TEES, FAIRWAYS	<ul style="list-style-type: none"> • Mistura CREEPING RYE, ORNAMENTAL, REOBLADOR, SPORT • <i>Agrostis stolonifera</i> 007 DSB, SEASIDE 2, LUMINARY, VALDERRAMA • <i>Lolium perenne</i> GREENLAND, RINOVO
ROUGH	<ul style="list-style-type: none"> • Mistura ORNAMENTAL, RESISTENTE, RÚSTICO, SPARRING
OUT ROUGH	<ul style="list-style-type: none"> • <i>Festuca ovina</i> ABERFLEECE • <i>Festuca brevipila</i> SPARTAN 2


Uses

Sports, soccer, racetracks, polo



USES MEDITERRANEAN COAST		
 SCANT WATER	LOW MAINTENANCE	<ul style="list-style-type: none"> • <i>Cynodon dactylon</i> GOBI, IBIZA, MEDPRO SLT • <i>Pennisetum clandestinum</i> AZ-1 • Mistura COSTA
	HIGH MAINTENANCE	<ul style="list-style-type: none"> • <i>Paspalum vaginatum</i> PURE DYNASTY
	OVERSEEDING	<ul style="list-style-type: none"> • Mistura CREEPING RYE, REPOBLADOR • <i>Lolium perenne</i> PROCESS, LOVER, ZURICH, RINGLES, RINOVO, SUN, GREENLAND • <i>Lolium multiflorum</i> THUNDER
 ABUNDANT WATER	LOW MAINTENANCE	<ul style="list-style-type: none"> • Mistura RESISTENTE, STRONG, SPARRING
	HIGH MAINTENANCE	<ul style="list-style-type: none"> • Mistura CREEPING RYE, REPOBLADOR, SPORT, SPORT BLUE
	OVERSEEDING	<ul style="list-style-type: none"> • <i>Lolium perenne</i> PROCESS, LOVER, ZURICH, RINGLES, RINOVO, SUN, GREENLAND • Mistura CREEPING RYE, REPOBLADOR, SPORT, FAST • <i>Lolium multiflorum</i> THUNDER

USES CONTINENTAL CLIMATE		
 SCANT WATER	LOW MAINTENANCE	<ul style="list-style-type: none"> • <i>Cynodon dactylon</i> GOBI, IBIZA, MEDPRO SLT
	HIGH MAINTENANCE	<ul style="list-style-type: none"> • Mistura RESISTENTE, SPARRING
	OVERSEEDING	<ul style="list-style-type: none"> • Mistura CREEPING RYE, REPOBLADOR, FAST • <i>Lolium perenne</i> PROCESS, LOVER, ZURICH, RINGLES, RINOVO, SUN, GREENLAND
 ABUNDANT WATER	LOW MAINTENANCE	<ul style="list-style-type: none"> • Mistura RESISTENTE, STRONG, SPARRING
	HIGH MAINTENANCE	<ul style="list-style-type: none"> • Mistura CREEPING RYE, REPOBLADOR, SPORT, SPORT BLUE • <i>Lolium perenne</i> PROCESS, LOVER, RINGLES, RINOVO, SUN, ZURICH, GREENLAND
	OVERSEEDING	<ul style="list-style-type: none"> • Mistura CREEPING RYE, REPOBLADOR, FAST • <i>Lolium perenne</i> PROCESS, LOVER, ZURICH, RINGLES, RINOVO, SUN, GREENLAND

USES OCEANIC CLIMATE		
 POUCA AGUA	LOW MAINTENANCE	<ul style="list-style-type: none"> • Mistura RESISTENTE
	HIGH MAINTENANCE	<ul style="list-style-type: none"> • Mistura SPARRING
	RESSEMENTEIRA	<ul style="list-style-type: none"> • Mistura CREEPING RYE, REPOBLADOR, FAST • <i>Lolium perenne</i> PROCESS, LOVER, ZURICH, RINGLES, RINOVO, SUN, GREENLAND
 ÁGUA SUFICIENTE	LOW MAINTENANCE	<ul style="list-style-type: none"> • Mistura SPARRING
	HIGH MAINTENANCE	<ul style="list-style-type: none"> • Mistura CREEPING RYE, REPOBLADOR, SPORT
	OVERSEEDING	<ul style="list-style-type: none"> • Mistura CREEPING RYE, REPOBLADOR, FAST • <i>Lolium perenne</i> PROCESS, LOVER, ZURICH, RINGLES, RINOVO, SUN, GREENLAND

Uses
Sod production

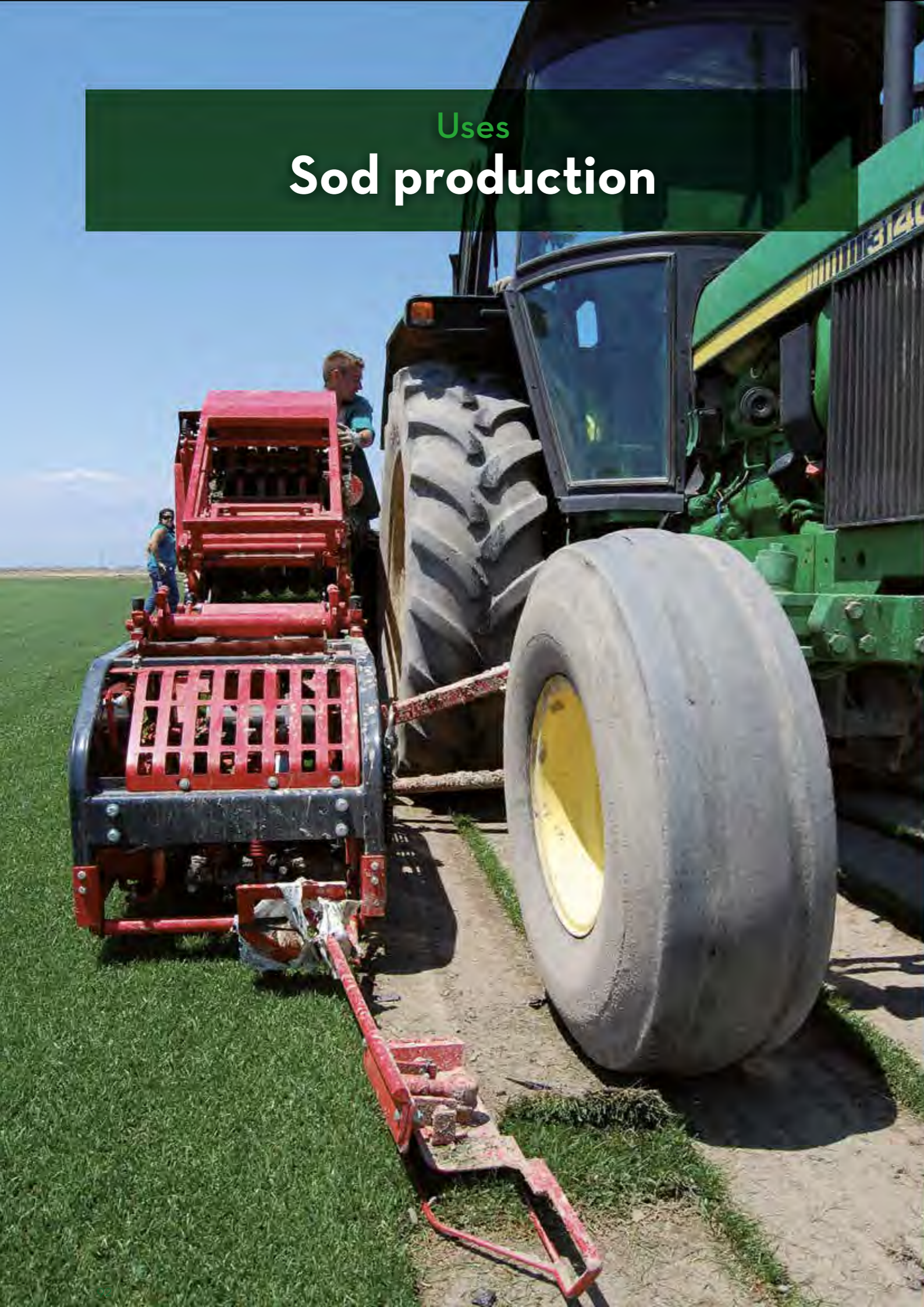
For sod production Semillas Fitó supplies only elite varieties tested many times in a wide range of areas.

The seed supplied follows exceptional quality controls based on SOD QUALITY criteria.

SOD QUALITY criteria

1. Seedlots produced only in specific fields without initial contamination by weeds and under control with SOD QUALITY criteria.
2. Purity test with a minimum of 10 times the size sample: 0% weeds and 0% other seeds.
3. The germination test must be largely above the minimum required for the species.
4. Fluorescence test to visualize a possible contamination of Lolim multiflorum that must be 0%.
5. Additional genetic controls.


USES AVAILABLE MITURES	
MEDIUM-LEAF TEXTURE (C3)	• Mistura SPARRING • Mistura RESISTENTE
FINE-LEAF TEXTURE (C3)	• Mistura CREeping RYE, SPORT, SPORT BLUE, TOUR PRO
GREENS (C3)	• <i>Agrostis stolonifera</i> T-1, TOUR PRO, 007DSB
GRASS FOR AREAS WITH SALT PROBLEMS (C4)	• <i>Paspalum vaginatum</i> PURE DYNASTY
GRASS FOR WATER SAVINGS (C4)	• <i>Zoysia japonica</i> • <i>Bermuda</i>





Uses


Landscape, public and private lawns




USES MEDITERRANEAN COAST		
	SUN	SCANT WATER <ul style="list-style-type: none"> • <i>Cynodon dactylon</i> GOBI, IBIZA, MEDPRO SLT • <i>Pennisetum clandestinum</i> AZ-1 • <i>Zoysia Japonica</i> ZENPRO • <i>Paspalum vaginatum</i> PURE DYNASTY • Mistura COSTA
		ABUNDANT WATER <ul style="list-style-type: none"> • Mistura CREEPING RYE, RESISTENTE, RÚSTICO, SPORT, SPORT BLUE, SPARRING, STRONG
	SUN/SHADE	SCANT WATER <ul style="list-style-type: none"> • Mistura RESISTENTE, STRONG
		ABUNDANT WATER <ul style="list-style-type: none"> • <i>Dichondra</i>

USES MEDITERRANEAN COAST		
	SUN	SCANT WATER <ul style="list-style-type: none"> • Mistura RESISTENTE, RÚSTICO, SPARRING, STRONG • <i>Cynodon dactylon</i> IBIZA
		ABUNDANT WATER <ul style="list-style-type: none"> • Mistura CREEPING RYE, ORNAMENTAL, RESISTENTE, RÚSTICO, SPARRING, SPORT, SPORT BLUE, STRONG
	SUN/SHADE	SCANT WATER <ul style="list-style-type: none"> • Mistura RESISTENTE, STRONG
		ABUNDANT WATER <ul style="list-style-type: none"> • Mistura SOMBRA • <i>Dichondra</i>


USES OCEANIC CLIMATE		
	SUN	SCANT WATER <ul style="list-style-type: none"> • Mistura RESISTENTE, SPARRING
		ABUNDANT WATER <ul style="list-style-type: none"> • Mistura CREEPING RYE, ORNAMENTAL, SPARRING, SPORT, STRONG
	SUN/SHADE	SCANT WATER <ul style="list-style-type: none"> • <i>Festuca ovina</i> ABERFLEECE • <i>Festuca brevipila</i> SPARTAN 2 • Mistura RESISTENTE, RÚSTICO, SPARRING, STRONG
		ABUNDANT WATER <ul style="list-style-type: none"> • <i>Dichondra</i> • Mistura SOMBRA

USES OVERSEEDING	
	WITHOUT SOIL PREPARATION <ul style="list-style-type: none"> • Mistura REPOBLADOR, FAST
	WITH SOIL PREPARATION <ul style="list-style-type: none"> • Mistura CREEPING RYE, REPOBLADOR, FAST, LIGHT RYE

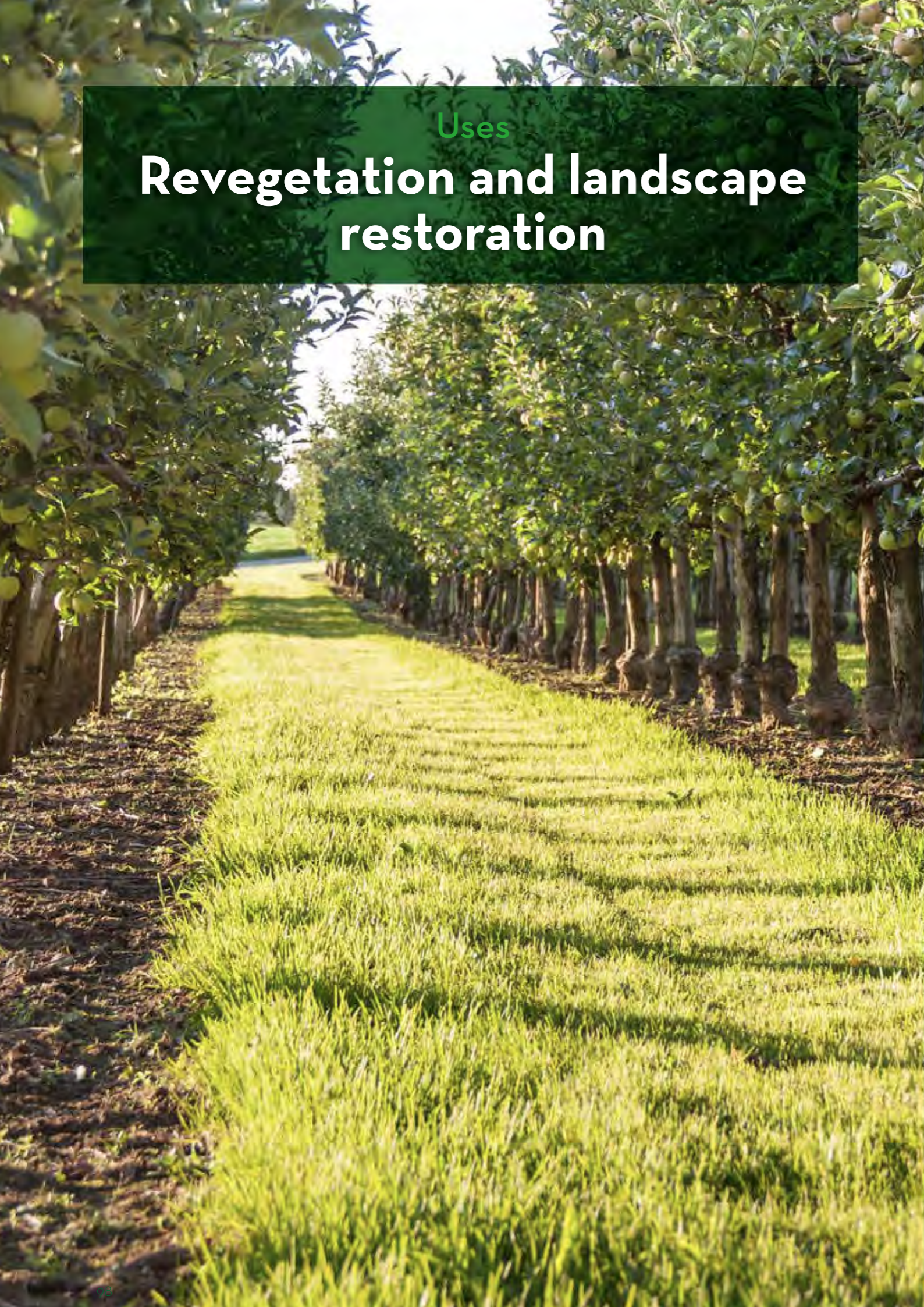
Uses Eco turf

USES TURFGRASS OPTION	
	MEDITERRANEAN CLIMATE • Mixture COSTA, RESISTENTE, RÚSTICO • <i>Cynodon dactylon</i> GObi , <i>Paspalum notatum</i> PENSACOLA , <i>Pennisetum clandestinum</i> AZ-1 , <i>Zoysia japonica</i> ZENPRO
	MEDITERRANEAN CLIMATE • Mixture RESISTENTE, RÚSTICO • <i>Cynodon dactylon</i> GObi , IBIZA , <i>Zoysia japonica</i> ZENPRO
	OCEANIC CLIMATE • Mixture ORNAMENTAL, SOMBRA • <i>Festuca ovina</i> ABERFLEECE , SPARTAN 2

USES WILD FLOWERS COVER			
	WILD FLOWERS	JARDÍN FLORIDO	• GENERAL USE
			• ENANO
	MEADOW MIXTURE	CÉSPED FLORIDO	• GENERAL USE
			• ENANO

USES WILD FLOWERS COVER	
	SPARRING NITRO PRADERA NATURAL



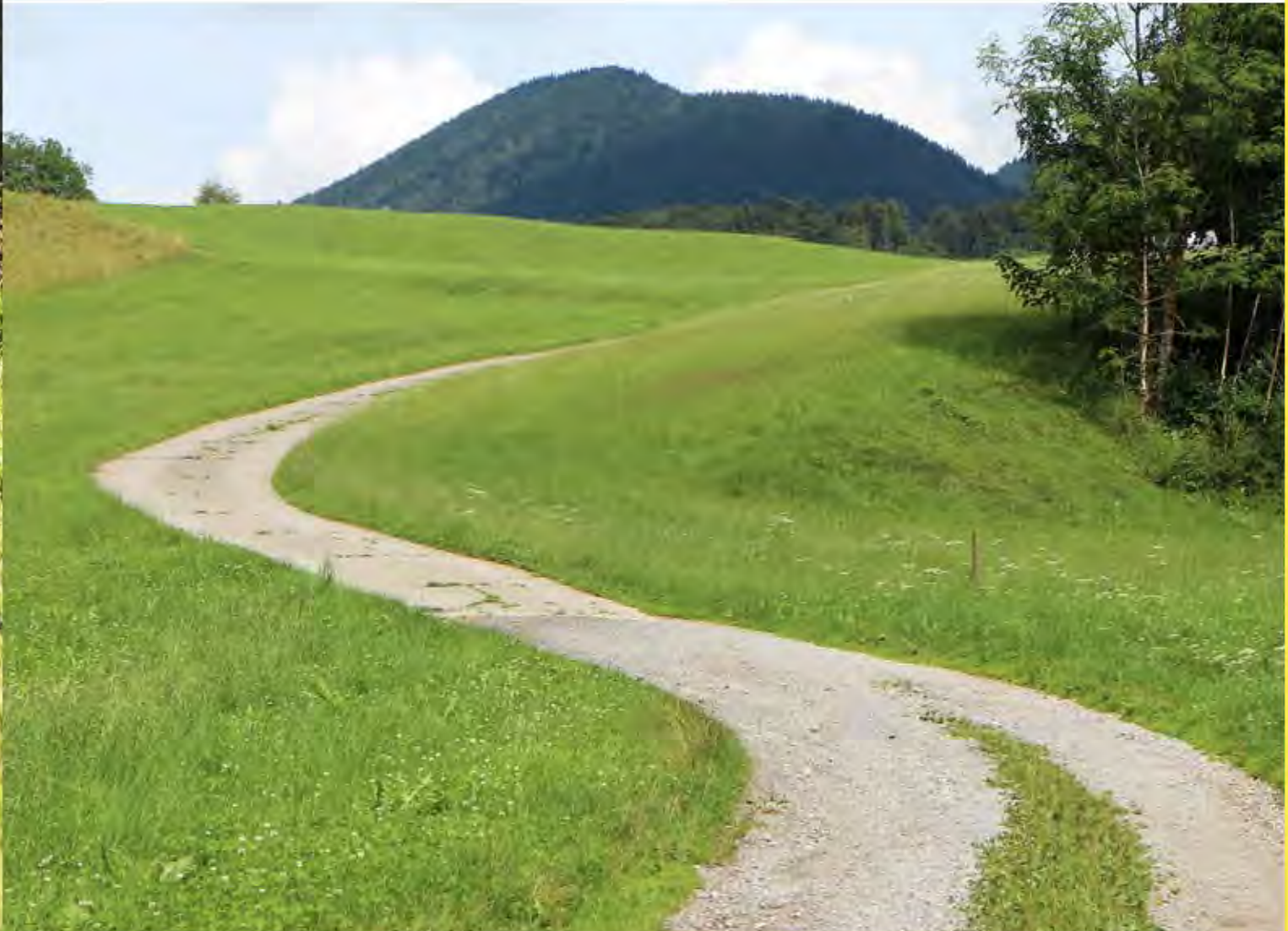


Uses

Revegetation and landscape restoration

USES TURFGRASS OPTION	
MEDITERRANEAN CLIMATE	• MEDITERRANEAN mixture
CONTINENTAL CLIMATE	• CONTINENTAL mixture
OCEANIC CLIMATE	• OCEANIC mixture
HIGH MOUNTAIN	• HIGH MOUNTAIN mixture • SKI RESORT mixture

USES COVER CROPS Vineyards, fruit trees, orchards	
SEASONAL COVER	• Mixture FAST
PERMANENT COVER	• Mixture PERMANENT FRESH, PERMANENT WARM, PERMANENT PLUS, PERMANENT GRASS
SOLAR POWER AREAS, WINDMILL PARKS	• Mixture NATURAL MEADOW
EXTENSIVE FORAGE FARMING, HUNTING...	• Mixture PERMANENT PLUS, PERMANENT GRASS
	• Mixture PERMANENT PLUS, PERMANENT GRASS



Coming Soon...



LONDON

(Lolium perenne)

New generation and light color.



PPG PR 670

(Lolium perenne)

Maximum installation speed, dark color intense. Excellent salinity resistance.



SGP4

(Lolium perenne)

High density, maximum resistance to diseases and dark green color.



PST-2E6

(Lolium perenne)

Maximum resistance to salinity.



DARK-MATTER

(Lolium perenne)

Dark green colour. Maximum speed for overseeding.

NOTES





www.semillasfito.com