

Mascot Grass Seed 2009

The 2009 Mascot Grass Seed Range has been further enhanced to meet the demanding requirements of the amenity sector.

During 2009 ongoing turf trials in France will assess the affects of lighting rig devices on grass plants, disease, wear and recovery trials, whilst shade and root establishment trials will continue to provide valuable information for use in future cultivar selection.

MASCOT cultivars are formulated following intensive trials undertaken at Les Alleuds and on sites within the UK to ensure that local climatic conditions are taken into account. The MASCOT mixtures originate from cultivars developed by Top Green, in co-operation with Rigby Taylor, at their research and breeding station at Les Alleuds, France, which has been responsible for the continuing development of new top rated cultivars such as Greenview and Axcella, which have now been incorporated into a number of the 2009 MASCOT mixtures.

Top Green

For many years Rigby Taylor has had a very close liaison with international plant breeders, in particular Top Green SAS, based in France. Top Green is a joint venture between Limagrain, the leading seed supplier in the European Union, and DLF Trifolium, the leading European lawn grass producer. Top Green is established in over 16 European countries as well as around the Mediterranean Basin, and has a strong pedigree of continual research and development to ensure top cultivars are bred and developed to provide high quality turf surfaces for all types of amenity situations, including golf, sportsfields and landscaping use.



Ongoing Partnership

The close relationship between Rigby Taylor and turf managers/greenkeepers/groundsmen help in identifying new requirements or on site problems which are communicated to the Top Green Research station for inclusion in future breeding trials. This enables a comprehensive Mascot Grass Seed Range to be developed. This also makes Rigby Taylor a plant seed agent in its own right, providing a high quality range of mixtures both for now and for the future

Research & Development

The relationship between Top Green and Rigby Taylor enables the MASCOT Grass Seed Range to benefit from Europe's largest research network, which includes 4 selection stations based in France, Denmark, Italy and Czechoslovakia. In addition there are 16 test sites in Germany, Southern France, Poland, Spain, Italy, USA, China and the United Kingdom.

A further part of the process is monitoring the European lists which are extensive and include summer and winter wear, Fusarium, Leaf Spot and Rust diseases all of which are taken into account when formulating future Mascot mixtures.



New cultivars for 2009

Following on from the success last year with Greenvie, Rigby Taylor has included six new cultivars for 2009 which will further strengthen the Mascot Grass Seed range.

Greenspeed (Browntop Bent)

Developed from breeding stations in New Zealand using plant crosses between existing and new strains of browntop bent this has created Greenspeed which retains a more uniform colour that is retained for longer periods than existing cultivars.

The unique growing characteristics of bents from New Zealand extend the growing season and have increased germination. The peak growing period with this cultivar is different to other non-New Zealand varieties which helps create the late autumn and early spring growth.

The current ratings in Europe and STRI indicate high shoot density and uniform colour throughout the playing season.

Greencup (Perennial Ryegrass)

A new Perennial Ryegrass with lower crowns. Developed in France using original parent material from high rated Greenfair and Ace. Its ability to create rapid root establishment from seed makes it ideal for inclusion in tees and cricket mixtures noted in trials to have early growth and rapid recovery which makes it ideal for protection of later developing grasses.

Egmontwo (Browntop Bent)

This cultivar comes from the same breeding programme as Greenspeed. A number of crosses from the original Egmont were used to ensure density and growth patterns achieved were of the highest possible throughout Europe.

Colour throughout the season is uniform making Egmontwo an ideal cultivar to incorporate into a fine turf mixture with other browntop bent varieties.

Berlioz 1 (Perennial Ryegrass)

A perennial ryegrass with excellent shoot density and recovery rates in the STRI list. Over three years of trials it has maintained it's rating making it very reliable.

It makes an ideal companion for Hugo as its early and late growth patterns blend well with the summer development of Hugo. It is highly rated with excellent shoot density and leaf width.

Recovery even in low light levels is excellent and in trials it has been shown to have high wear tolerance and germination in lower temperatures.

Greenview (Perennial Ryegrass)

Registered during 2008 in Europe. Selected for incorporation in the Mascot R14 for high resistance to leaf spot disease and its ability to develop increased density in the summer months which is useful where growth and wear tolerance are required.

Trials recently conducted indicate a top eight listed position when combined with ninety-two other new cultivars.

Axcella (Annual Ryegrass)

The first commercially available annual ryegrass recommended exclusively for turfgrass. It is a fine texture turf-type annual ryegrass, developed for winter overseeding.

Germination at very low temperatures helps to maintain sward cover through the winter months. It was selected for its slower growing, high tillering characteristics. Its narrow leaves and medium colour enables it to blend well with other species.

It has good winter hardiness. On football fields, Axcella will be a key component for improved wear, winter aesthetics and reduced player injury.

Sowing Rates and Overseeding

Traditionally overseeding has been undertaken at specified times of the year as part of the ongoing maintenance.

Research trials from Rigby Taylor and Top Green indicate that regular overseeding (monthly) at the optimum growing periods March to May and late August to November increases the percentage of healthy grasses which can withstand higher wear levels and compete more successfully with annual meadow grass. Additional advantages include a less stressful sward which recovers more rapidly in early spring at the commencement of the first growing period.

The recommended sowing rates given for the various MASCOT mixtures are based on the balance of the constituent cultivars and species along with the end users requirements.

It is advised that only minor adjustments should be made to the recommendations as a major increase or decrease in seed rates can affect the establishment of the grasses and alter the botanical balance of the sward with detrimental effects on its subsequent performance.

Germination

For the best germination and establishment the ideal seed depth should be between 4mm and 10mm below the soil surface. Seed placed or sown below 12mm depth has less chance of establishment whilst seed lying on the soil surface is subject to variations in weather and are therefore more susceptible to failure. It is important that even distribution of seed at the correct depth is given maximum priority if full viability of the seed mixture is to be obtained.

Grass Cutting

An extensive trial is currently being undertaken by Top Green at Les Alleuds studying the volume of grass clippings during cutting operations with the aim of creating cultivars which retain existing characteristics whilst at the same time reducing cutting frequencies.

Currently on average 6.5 tonnes of clippings are removed annually per hectare. As species and cultivars vary, careful selection of species can considerably reduce the frequency of cutting, quantity of arisings and a reduction in maintenance costs.

As part of our long-term research plan this work will be extended to enable MASCOT mixtures to continue meeting the end users ever changing requirements.

The Future

The close relationship between Rigby Taylor and Top Green with the MASCOT Grass Seed Range, along with feedback from users via the nationwide Rigby Taylor sales force, enables improvements in plant strains to be continually made. In time this creates new cultivars to meet the changing requirements in the market place, whether in terms of renovating a sports field, constructing a golf green, dealing with problems of shade or the need to limit mowing clippings.

The MASCOT Grass Seed Range, with the back up of these two large companies, provides the user with one of the largest choice of cultivars and mixtures with the highest quality of seed available in the UK.



Grass Seed Index

Types of Cultivar	4
Cultivar Characteristics	5
Areas of Use	6
Species Characteristics	7
Golf & Fine Turf Mixtures	8
Cricket Mixtures	11
Sportsfield Mixtures	12
Landscaping Mixtures	13
Environmental Flora Mixtures	14
Mascot Cultivars	16
Amenity Turf	18



The Types of Cultivar used in Mascot Mixtures

R Number	GOLF & FINE TURF MIXTURES												CRICKET			SPORTSFIELDS					LANDSCAPING					
	1	101	2	105	116	4	117	5	6	127	128	8	9	10	11	12	13	14	15	311	314	16	17	18	19	
Perennial Rye Grass																										
Ace					PR	PR						PR	PR	PR					PR							
Action																		PR		PR						
Berlioz																		PR								
Elan															PR	PR										
Greencup												PR	PR													
Greenfair															PR			PR		PR	PR					
Greenflash													PR			PR										
Greenview																		PR								
Greenway					PR	PR						PR	PR	PR	PR				PR						PR	
Hugo																		PR								
Neruda 1																	PR								PR	
Tuscon											PR	PR							PR							
Fescue Species																										
Belleaire			CF							CF	CF			CF									CF	CF		
Calliope	CF	CF	CF		CF	CF	CF	CF	CF			CF														
Cezanne		SCF					SCF																			
Dumas										HF													HF	HF		
Grande																				TF					TF	
Greensleeves	CF	CF					CF	CF																		
Greenvie							XCF	XCF		XCF			XCF	XCF		XCF		XCF				XCF				
Helena	SCF	SCF			SCF	SCF	SCF	SCF	SCF	SCF	SCF					SCF	SCF					SCF		SCF		
Lanai				SCF										SCF												
Mystic										XCF															XCF	XCF
Nordic							SF			SF																
Scorpiones																				TF						TF
Browntop Bent																										
Egmont	BB			BB	BB						BB	BB	BB												BB	
Egmontwo		BB	BB	BB	BB	BB																				
Greenspeed				BB																						
Highland																		BB				BB				
Manor				BB																						
Others																										
Axcella																						AR				
Aspiring																								CD		
Greenknight					SSM																					
Snowbird																						RSM			RSM	
Voyager																									TH	

R9 mixture: Recommended for Premier Tees & Cricket Renovation. R4 mixture: Recommended for Golf Tees, Fairways & Cricket Outfields.

- CF** Chewings Fescue **SF** Sheeps Fescue **HF** Hard Fescue **SCF** Slender Creeping Red Fescue **XCF** Strong Creeping Red Fescue
- BB** Browntop Bent **CB** Creeping Bent **PR** Perennial Ryegrass **CD** Crested Dogtail **SSM** Smooth Stalked Meadow Grass
- TH** Tufted Hair **TF** Tall Fescue **RSM** Rough Stalked Meadow Grass **AR** Annual Ryegrass

Characteristics of Cultivars used in Mascot Mixtures

	Establishment	Appearance	Wear	Drought Tolerance	Wet Conditions	Mowing Clippings	Maintenance Level	Wind Chill	Shade
Perennial Rye Grass									
Ace	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆
Action	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆
Berlioz	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆
Elan	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆
Greencup	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆
Greenfair	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆
Greenflash	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆
Greenview	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆
Greenway	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆
Hugo	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆
Neruda 1	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆
Tuscon	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆
Fescue Species									
Belleaire	☆☆	☆☆☆☆	☆☆	☆☆☆☆	☆☆	☆☆	☆☆☆☆	☆☆	☆☆☆☆
Calliope	☆☆☆☆	☆☆☆☆	☆☆	☆☆☆☆	☆☆	☆☆☆☆	☆☆	☆☆☆☆	☆☆
Cezanne	☆☆	☆☆☆☆	☆☆	☆☆☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Dumas	☆☆	☆☆☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Grande	☆☆	☆☆☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Greensleeves	☆☆☆☆	☆☆☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Greenvie	☆☆☆☆	☆☆☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Helena	☆☆	☆☆☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Lanai	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Mystic	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Nordic	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Scorpion	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Browntop Bent									
Egmont	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Egmontwo	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Greenspeed	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Highland	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Manor	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Others									
Axcella	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Aspiring	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Greenknight	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Snowbird	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆
Voyager	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆	☆☆

Key ☆ Poor ☆☆☆☆☆ Excellent

Establishment A mixture's capacity to germinate and to colonise quickly in the ground. A number of species such as perennial ryegrass will establish more rapidly than others.

Wear The capacity of the mixture to resist wear and shearing. It is also linked to the sward's capacity to recover after wear, essential for sports use or highly worn areas.

Drought tolerance The capacity of the grasses to tolerate dry and worn conditions.

Appearance This criteria groups together characteristics such as the fineness of leaves, the

density and colour. Appearance is also closely linked to amenity turf maintenance.

Wet conditions A measure of a varieties performance in wet conditions. The higher the star rating, the higher the tolerance.

Mowing clippings A measure of the weight of clippings. The higher the star rating, the less the clippings.

Maintenance levels Concerns the amount of maintenance that is required including mowing, watering and nutrients.

Wind chill Based on germination trials at various temperatures. Indicates the ability of the cultivars to germinate and recover in lower temperatures, which ultimately increases the growing season and the ability of the cultivars to withstand wear, while maintaining appearance.

Shade Tolerance Ability of the grasses to grow well under shade conditions.

Recommended Areas for Seeding with Mascot Mixtures

R Number	1	101	2	105	116	4	117	5	6	127	128	8	9	10	11	12	13	14	311	314	15	16	17	18	19	
Airfield																										
Bowling Green	■		■		■		■															■	■			
Building Surrounds																						■	■		■	
Caravan/Camp Sites												■													■	■
Cricket Outfield															■											
Cricket Square												■	■													
Croquet Lawn	■		■																							
Economy																	■									
Embankments																				■		■				
Erosion Control												■		■						■		■				■
Footpath Renovation												■										■	■			
Gallops																	■					■			■	■
Greens Renovation				■																						
Golf Greens	■	■	■	■	■																					
Golf Fairway								■	■	■	■															
Golf Rough								■	■	■													■			
Golf Tees						■		■	■				■													
Hockey Pitch														■		■										
Housing Estates																	■					■	■		■	■
Landscape (with Rye)												■										■			■	■
Landscape (Rye free)																							■			
Low Maintenance																							■			
Outfield						■						■			■											
Ornamental																							■		■	■
Parkland												■										■			■	■
Polo																	■									
Putting Green	■	■	■	■	■																					
Racecourse																	■					■			■	
Roadside Verges																						■				
Rugby Pitch															■	■			■	■	■					
Soccer Pitch															■	■			■	■	■					
Sport Renovation															■	■			■	■	■					
Tennis Court												■		■												
Wild Flora Companion																								■		

R9 mixture: Recommended for Premier Tees & Cricket Renovation. R4 mixture: Recommended for Golf Tees, Fairways & Cricket Outfields. R18, R116 and R314 mixtures: Recommended for use in shady areas.

Quantity guides (approximate)

Sports Facility	Dimension (metres)	Area (m ²)	No. of 20kg bags sown at:		
			20 gms per m ²	25 gms per m ²	35 gms per m ²
Soccer	100 x 64	6,400	6.4	8	11.2
Rugby	100 x 69	6,900	6.9	8.6	12.1
Hockey	91.4 x 55	5,027	5	6.3	8.8
Cricket Square	30 x 30 (Average)	900	0.9	1.1	1.5
Lawn Tennis	23.8 x 11	262	0.3	0.3	0.45
Bowls	40 x 40	1,600	1.6	2	2.8
Golf Green	Average	500	0.5	0.6	0.9
Golf Tees	Average	350	0.4	0.4	0.6
1 hectare		10,000	10	12.5	17.5

Conversion chart

All sowing rates in this catalogue are expressed in grams per square metre. The following table can be used to convert these rates to units suited to larger areas or to imperial measurements.

Metric	Grams/m ²	8	15	25	35	50
Kilograms/100m ²		0.8	1.2	2.5	3.5	5
Kilograms/hectares		80	150	250	350	500
Kilograms/acre		30	60	100	140	200

Species Characteristics



Fast establishment
Wear tolerance
Shade tolerance
Saline tolerance
Dry soil
Wet soil
Poor fertility
Close mowing tolerance
Alkaline soil
Acid soil

	Fast establishment	Wear tolerance	Shade tolerance	Saline tolerance	Dry soil	Wet soil	Poor fertility	Close mowing tolerance	Alkaline soil	Acid soil
Chewings Fescue	Average	Average	Good	Poor	Average	Average	Good	Good	Average	Good
Slender Creeping Red Fescue	Average	Average	Good	Good	Good	Average	Good	Good	Average	Good
Strong Creeping Red Fescue	Average	Poor	Good	Average	Average	Average	Average	Average	Average	Good
Hard/Sheeps Fescue	Average	Average	Average	Average	Good	Average	Good	Average	Average	Good
Browntop Bent	Poor	Average	Good	Good	Average	Average	Good	Good	Average	Good
Creeping Bent	Poor	Average	Good	Good	Average	Average	Average	Good	Average	Good
Smooth-stalked Meadow-grass	Poor	Good	Poor	Poor	Good	Poor	Average	Average	Good	Average
Rough-stalked Meadow-grass	Average	Poor	Average	Good	Poor	Good	Average	Poor	Average	Average
Wood Meadow-grass	Poor	Poor	Good	Average	Average	Average	Average	Poor	Average	Average
Perennial Ryegrass	Good	Good	Average	Average	Good	Good	Poor	Average	Good	Average
Timothy	Good	Good	Poor	Poor	Poor	Good	Average	Poor	Good	Average
Tall Fescue	Average	Good	Good	Average	Good	Good	Average	Poor	Average	Good
Annual Ryegrass	Good	Average	Average	Poor	Poor	Good	Average	Poor	Average	Average

Purity and germination

Expensive cleaning procedures are in place along with documentation to ensure seed used in Mascot mixtures reaches the customer with quality parameters above the minimum EEC requirements.

Extensive supervision throughout the cleaning process ensures quality is maintained from bag to bag, enabling the customer to be confident of the quality of the Mascot mixtures.

Each bag of Mascot grass seed is prepared from seed which has purity and germination certificates, enabling accurate monitoring and recording of seed from harvesting, through the cleaning process and on to the customer.

For over 10 years Mascot has been supplying seed over and above the official norms...10% higher germination and up to 10 times less weed seeds.

Species	Impurity		Germination	
	EEC Norm	Mascot	EEC Norm	Mascot
Agrostis	2.0%	0.2%	75%	85%
Perennial Ryegrass	1.5%	0.2%	80%	90%
Poa Pratensis	2.0%	0.2%	75%	85%
Red Fescue	1.5%	0.2%	75%	85%
Sheeps Fescue	2.0%	0.2%	75%	85%
Tall Fescue	1.5%	0.2%	80%	90%



Guarantee

Rigby Taylor Limited guarantee that all their Amenity Grass Seed Mixtures comply with the description under which they are sold – they do not hold themselves responsible in any way for the resulting turf which is beyond their control.



The Seed Act

All Amenity Grass Seed sold is guaranteed to be marketed in accordance with the Provisions of the EEC Regulations. Purity and Germination percentages are not less than the authorised scheduled minimum.

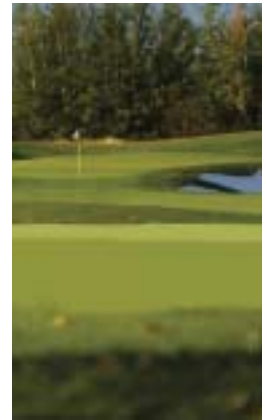
Relevant certificates are available on request. Rigby Taylor Limited reserve the right to substitute comparable varieties when stocks become exhausted. In all cases customers will be notified prior to the order being taken.

Golf & Fine Turf Mixtures

Given the UK changing weather patterns new and existing golf courses are under considerable pressure to provide a uniform playing surface for 12 months of the year.

The Mascot Grass Seeds range has been formulated for use on all levels of greens management regimes to ensure the highest quality surface at all times.

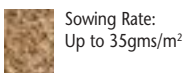
The Mascot range has a number of formulations to include soil and sand based greens which, due to the present level of use, all require regular over-seeding.



MASCOT

R1 Greenkeeper

40%	Calliope	Chewings Fescue
20%	Greensleeves	Chewings Fescue
20%	Helena	Slender Creeping Red Fescue
20%	Egmont	Browntop Bent



Sowing Rate:
Up to 35gms/m²



Mowing Height:
Down to 5mm



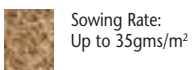
Available in:
10kg bags

- ★ **Helena**, a Slender Creeping Red Fescue is included for shoot density, tolerance to close mowing and wind chill tolerance.
- ★ Maintains an excellent year-round colour with **Egmont** to provide improved colour during summer and increased density.
- ★ Careful balance of cultivars maximises the density and uniformity at periods of excessive stress.
- ★ **Calliope** included for shoot density and its ability to develop quickly, creating protection for the slower developing **Egmont**.

MASCOT

R101 Premier Greenkeeper

35%	Greensleeves	Chewings Fescue
35%	Calliope	Chewings Fescue
10%	Helena	Slender Creeping Red Fescue
10%	Cezanne	Slender Creeping Red Fescue
10%	Egmontwo	Browntop Bent



Sowing Rate:
Up to 35gms/m²



Mowing Height:
Down to 4mm (summer),
8mm (winter)



Available in:
10kg bags

- ★ **Cezanne** Highly rated for shoot density in the STRI tables.
- ★ Tolerant down to 4mm cutting for tournaments or where fast, even, dense playing surfaces are required for a short period.
- ★ Drought and stress resistance increased by the use of **Helena**, which has a high wind chill tolerance and extended growth pattern.
- ★ The characteristics of the selected cultivars ensure a uniform and dense sward is available for the majority of the year and in particular during the difficult spring and autumn periods.
- ★ Density and uniformity improved by inclusion of **Egmontwo**.
- ★ Winter wear and Fusarium tolerance increased by inclusion of **Greensleeves**.

MASCOT

R2 Traditional Greens

45%	Belleaire	Chewings Fescue
35%	Calliope	Chewings Fescue
20%	Egmontwo	Browntop Bent



Sowing Rate:
Up to 35gms/m²



Mowing Height:
Down to 5mm



Available in:
10kg bags

- ★ A traditional mixture providing good results throughout the UK.
- ★ Good tolerance to close mowing.
- ★ Provides a good compact sward and achieves good year-round colour.
- ★ **Belleaire** added to increase density during first 12 months of sowing and increased winter wear (French National List Trials).
- ★ **Calliope** helps extend winter growth through high wind chill resistance.

MASCOT

R105 Supreme Greenkeeper

15%	Manor	Browntop Bent
35%	Greenspeed	Browntop Bent
50%	Egmontwo	Browntop Bent



Sowing Rate:
6-12gms/m²



Mowing Height:
Down to 4mm (summer),
8mm (winter)






- ★ Contains **Manor**, a highly rated Agrostis for increased shoot density.
- ★ Will provide high quality greens and shoot density.
- ★ An ideal over-sowing mixture for renovating existing greens.
- ★ This combination provides a uniform playing surface which will withstand high levels of play, particularly during the Spring and Autumn stress periods.
- ★ **Greenspeed** and **Egmontwo** provide extended growth patterns. Excellent STRI Rating for density.

MASCOT

R116 Fine Ryegrass Renovation

5%	Ace	Perennial Ryegrass
15%	Greenway	Perennial Ryegrass
15%	Lanai	Slender Creeping Red Fescue
25%	Helena	Slender Creeping Red Fescue
32.5%	Calliope	Chewings Fescue
7.5%	Egmontwo	Browntop Bent




	Sowing Rate: 30gms/m ²		Mowing Height: Down to 4mm (summer), 8mm (winter)		Available in: 10kg bags
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- ★ **Greenway** a high rated Perennial Ryegrass is included for fineness of leaf density and its ability to continue to grow at low temperatures.
- ★ High close cutting tolerance.
- ★ **Lanai** and **Greenway** provide dense growth early and late in the season.
- ★ High shade resistance reduces stress and increases sward density during autumn, winter and spring.
- ★ Mixture accepts more wear than traditional golf green mixtures.
- ★ Maintains year round colour through the combination of the species.
- ★ Low crown of **Ace** and **Greenway** responsible for compatibility with Fescues and Browntop Bents.

MASCOT

R9 Premier Tees Renovation

40%	Ace	Perennial Ryegrass
20%	Sauvignon	Perennial Ryegrass
20%	Greenflash	Perennial Ryegrass
20%	Greenway	Perennial Ryegrass




	Sowing Rate: 25-35gms/m ²		Mowing Height: Down to 5mm		Available in: 10kg bags
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- ★ Rapid establishment at lower temperatures by inclusion of **Ace**.
- ★ Reduction in the formation of crowns makes it ideal for tees.
- ★ Extremely persistent during heavy wear with excellent root establishment.
- ★ Produces a fine-leaf and is tolerant to close mowing.
- ★ Has year-round colour, even while under stress.

MASCOT

R117 Greens Fescue Renovation

25%	Calliope	Chewings Fescue
25%	Greensleeves	Chewings Fescue
25%	Helena	Slender Creeping Red Fescue
25%	Cezanne	Slender Creeping Red Fescue




	Sowing Rate: 15-20gms/m ²		Mowing Height: Down to 4mm		Available in: 10kg bags
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- ★ High shoot density and fineness of leaf creates a high visual merit and uniform playing surface.
- ★ Improves wear with the inclusion of **Helena**.
- ★ Ideal for autumn sowing due to high wind chill tolerance properties provided by the fescues.

MASCOT

R4 Golf Tees & Fairways

25%	Greenway	Perennial Ryegrass
25%	Ace	Perennial Ryegrass
15%	Calliope	Chewings Fescue
20%	Greenknight	Smooth-stalked Meadowgrass
10%	Helena	Slender Creeping Red Fescue
5%	Egmontwo	Browntop Bent

	Sowing Rate: Up to 30gms/m ²		Mowing Height: Down to 7mm		Available in: 20kg bags
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- ★ Produces a dense compact sward with fine leaves.
- ★ Colonises worn areas well by the use of rhizomatous grasses.
- ★ Sward produced is very drought resistant and hard wearing.
- ★ **Helena** produces a close knit bottom growth.
- ★ **Greenknight** enhances growth establishment.
- ★ **Greenway** increases density, fineness of leaf and improves sward uniformity.



MASCOT

R5 Golf Fairways & Rough

25%	Greenvie	Strong Creeping Red Fescue
40%	Calliope	Chewings Fescue
15%	Greensleeves	Chewings Fescue
20%	Helena	Slender Creeping Red Fescue



Sowing Rate:
30gms/m²



Mowing Height:
Down to 10mm



Available in:
20kg bags

- ★ Suitable for use in cooler areas where spring windchill stress can be a problem.
- ★ Resistant to drought conditions through the intense bottom growth.
- ★ Establishes reasonably quickly with the Slender Creeping Red Fescue rhizomes protecting the other species.
- ★ High shoot density ensures a close-knit sward with good all-round colour.
- ★ Includes **Helena** which has been noted to have increased shoot density in shady situations following shade trials in France.
- ★ Contains **Greenvie** – a highly STRI rated Strong Creeping Red Fescue for shoot density.

MASCOT

R127 Golf Links & Rough

25%	Helena	Slender Creeping Red Fescue
25%	Belleaire	Chewings Fescue
15%	Dumas	Hard Fescue
20%	Mystic	Strong Creeping Red Fescue
2.5%	Egmont	Browntop Bent
12.5%	Nordic	Sheeps Fescue



Sowing Rate:
30-35gms/m²



Mowing Height:
Down to 12mm



Available in:
20kg bags

- ★ Formulated for use in windchill and salt affected sites.
- ★ Cultivars increase density of sward in the difficult spring/autumn periods.
- ★ Provides a thick, dense bottom sward with good all-round colour.
- ★ Recovers well after wear.
- ★ Contains **Helena**, which adapts to coastal high wind chill situations.

MASCOT

R6 Fescue Rye Fairway

35%	Greenvie	Strong Creeping Red Fescue
15%	Greenway	Perennial Ryegrass
20%	Calliope	Chewings Fescue
20%	Helena	Slender Creeping Red Fescue
10%	Nordic	Sheeps Fescue



Sowing Rate:
30gms/m²



Mowing Height:
Down to 12mm



Available in:
20kg bags

- ★ Very resistant to drought conditions.
- ★ Strong Creeping Red Fescue **Greenvie** increases tolerance to close mowing and enables a compact sward to be produced.
- ★ Rhizomatous grasses ensure the sward recovers quickly, reduces divot damage.
- ★ **Greenway** improves recovery from wear.
- ★ Reduced maintenance by the inclusion of **Nordic**.

MASCOT

R128 Rye Bent Fairway

WITH RYE

25%	Tucson/Greencup	Perennial Ryegrass
30%	Helena	Slender Creeping Red Fescue
20%	Greenvie	Strong Creeping Red Fescue
20%	Belleaire	Chewings Fescue
5%	Egmont	Browntop Bent



Sowing Rate:
20-35gms/m²



Mowing Height:
Down to 15mm



Available in:
20kg bags

- ★ **Tucson** inclusion improves shoot density, fineness of leaf and increased wear resistance in the winter months.
- ★ Ideal where bottom growth is required and drought situations exist.
- ★ Provides balanced mixture and uniform playing area.
- ★ Extremely tolerant to close mowing and recovers quickly following wear.
- ★ **Egmont** helps provide increased shade tolerance.

STRAIGHTS

Selected varieties of Creeping Bent and Brown Top Bent grasses from the Rigby Taylor portfolio are available separately or can be combined to form a bespoke mixture.

**Penn A1
(Creeping Bent)**

A high quality cultivar selected for use where green surfaces require a uniform dense sward.

- ★ Fast establishment.
- ★ Aggressive growth pattern helps recovery from wear.
- ★ Maintains year round colour.
- ★ Excellent heat and cold tolerance making it ideal for U.K. climate.



Sowing Rate:
4-6gms/m²



Mowing Height:
4mm (summer)
8mm (winter)



Available in:
12.5kg bucket

**Bueno
(Creeping Bent)**

Developed in Canada Bueno has a higher wind chill tolerance than other varieties making it ideal for use where autumn recovery is required.

- ★ Fast establishing.
- ★ Late autumn growth reduces Annual Meadow grass invasion.
- ★ High disease resistance.
- ★ Excellent heat and cold tolerance.



Sowing Rate:
4-6gms/m²



Mowing Height:
4mm (summer)
8mm (winter)



Available in:
12.5kg bucket

Cricket Mixtures

The availability of new specialist cultivars, plus recent trial information from the ECB and selected county grounds, has enabled formulations to be amended to provide stadium managers and local cricket club groundsmen mixtures that improve growth patterns, recovery and overall appearance. On-going research has shown variation in early and late growth patterns, which are important for autumn renovation and early spring growth. The 2009 Mascot range uses this research and additional information to meet the stress and wear found on cricket squares, whilst still providing a dense sward and recovery throughout the UK.



MASCOT

R8 County & Club Cricket

25%	Ace	Perennial Ryegrass
25%	Greenway	Perennial Ryegrass
20%	Calliope	Chewings Fescue
25%	Tucson/Greencup	Perennial Ryegrass
5%	Egmont	Browntop Bent



Sowing Rate:
30gms/m²



Mowing Height:
5-35mm



Available in:
20kg bags

- ★ Produces a good cleanness of cut.
- ★ Includes three highly rated Perennial Ryegrass cultivars which will produce a dense, compact, fine-leaf, persistent and hard-wearing sward.
- ★ Good root growth and quick establishment.
- ★ Reduces the production of plant crowns during wicket preparation.
- ★ **Tucson** included to increase tolerance to close cutting during wicket preparation and its ability to produce a very low crown.
- ★ **Ace** is a high STRI rated cultivar for shoot density and closeness of cut.
- ★ **Egmont** increases grass cover in drought conditions and creates bottom growth.

MASCOT

R9 Premier Cricket Renovation

40%	Ace	Perennial Ryegrass
20%	Sauvignon	Perennial Ryegrass
20%	Greenflash	Perennial Ryegrass
20%	Greenway	Perennial Ryegrass



Sowing Rate:
25-35gms/m²



Mowing Height:
Down to 5mm



Available in:
20kg bags

- ★ Rapid establishment at lower temperatures by inclusion of **Ace**.
- ★ Reduction in the formation of crowns during wicket preparation through the dense bottom sward produced by **Ace**.
- ★ Extremely persistent during heavy wear with excellent root establishment.
- ★ Produces a fine-leaf and is tolerant to close mowing.
- ★ Very high recovery rate and year-round colour, even while under stress.
- ★ **Ace** increases root establishment and helps withstand light-restricted areas.
- ★ Meets ECB requirements following on-going research.
- ★ **Greenflash** gives rapid root establishment and recovery.

MASCOT

R10 Cricket (& Hockey) Outfield

20%	Lanai	Slender Creeping Red Fescue
20%	Greenvie	Strong Creeping Red Fescue
25%	Greenway	Perennial Ryegrass
25%	Ace	Perennial Ryegrass
10%	Belleaire	Chewings Fescue



Sowing Rate:
35gms/m²



Mowing Height:
Down to 12mm



Available in:
20kg bags

- ★ The use of the Strong Creeping Red Fescues with good shoot density helps produce a good close-knit bottom sward ideal for small ball games such as cricket and hockey.
- ★ Good disease resistance.
- ★ Establishes quickly with a good colour throughout the year.
- ★ Contains the fine-leaf Perennial Ryegrasses which blend well within the mixture and provide the hard-wearing capabilities required where winter wear is likely.
- ★ **Greenvie** and **Ace** help to promote a uniform and true surface whilst maintaining good colour all year round.
- ★ **Greenvie** included to increase wearability and density of the mixture.

MASCOT

R4 Cricket Outfields

25%	Greenway	Perennial Ryegrass
25%	Ace	Perennial Ryegrass
15%	Calliope	Chewings Fescue
15%	Greenknight	Smooth-stalked Meadowgrass
10%	Helena	Slender Creeping Red Fescue
5%	Egmont	Browntop Bent



Sowing Rate:
Up to 30gms/m²



Mowing Height:
Down to 7mm



Available in:
20kg bags

- ★ Colonises worn areas well by the use of rhizomatous grasses.
- ★ Sward produced is very drought resistant and hard wearing.
- ★ **Helena** produces a close knit bottom growth which establishes well.
- ★ **Greenway** increases density, fineness of leaf and improves sward uniformity.

Sportsfield Mixtures

The high level of use and reduced close season are placing groundstaff in a difficult position. Over the last few years construction techniques and maintenance have improved which, along with the continued development of cultivars, ensures that playing surfaces can sustain a satisfactory surface whilst under intense use.

The following Mascot mixtures offer a wide range of cultivars to ensure that all user requirements can be met.



MASCOT

R11 Football & Rugby

30%	Greenfair	Perennial Ryegrass
30%	Greenway	Perennial Ryegrass
40%	Elan	Perennial Ryegrass



Sowing Rate:
35gms/m²



Mowing Height:
Down to 25mm



Available in:
20kg bags

- ★ Extremely high wear tolerance under high or low nutrient programmes.
- ★ Rapid germination and establishment with excellent winter colour.
- ★ **Greenway** provides high shoot density and wind chill factors.
- ★ The blend of fine to broad leaf cultivars provides a compact close knit sward.
- ★ Develops dense bottom growth in lower temperatures.
- ★ Cost effective – produces less weight/volume of clippings.

MASCOT

R12 General Playing Fields

50%	Elan	Perennial Ryegrass
25%	Greenflash	Perennial Ryegrass
15%	Helena	Slender Creeping Red Fescue
10%	Greenvie	Strong Creeping Red Fescue



Sowing Rate:
35gms/m²



Mowing Height:
Down to 25mm



Available in:
20kg bags

- ★ Good quality Perennial Ryegrasses provide a hard-wearing playing surface and a dense bottom sward which is ideal for new sportsfields.
- ★ Included is **Helena**, which has a high STRI rating for shoot density, essential for this type of mixture. **Elan** provides important establishment.
- ★ Contains **Greenvie**, highly STRI rated for shoot density.

MASCOT

R13 Economy Mixture

50%	Neruda 1	Perennial Ryegrass
25%	Helena	Slender Creeping Red Fescue
25%	Mystic	Strong Creeping Red Fescue



Sowing Rate:
35gms/m²



Mowing Height:
Down to 30mm



Available in:
20kg bags

- ★ Cost effective mixture for general sports areas where finance is important.
- ★ Quick establishment. Formulated using STRI rated cultivars.
- ★ **Helena** helps density of sward and drought tolerance.
- ★ High summer wear tolerance (French National List Trials 2006).

MASCOT

R14 Premier Winter Games Renovation

20%	Greenview	Perennial Ryegrass
20%	Berlioz	Perennial Ryegrass
20%	Action	Perennial Ryegrass
30%	Greenfair	Perennial Ryegrass
10%	Hugo 1	Perennial Ryegrass



Sowing Rate:
35gms/m²



Mowing Height:
Down to 25mm



Available in:
20kg bags

- ★ Very high leaf spot resistance indicated from EU trials data.
- ★ Very quick establishment with good root development.
- ★ **Action** has increased leaf spot resistance and produces a close-knit sward.
- ★ Gives excellent shoot density and wear characteristics under low N conditions.
- ★ **Hugo 1** provides early sward establishment in the summer.

MASCOT

R311 Rhizomatous Renovation Mixture

40%	Grande	Tall Fescue
15%	Greenfair	Perennial Ryegrass
20%	Action	Perennial Ryegrass
25%	Scorpiones	Tall Fescue



Sowing Rate:
30gms/m²



Mowing Height:
Down to 20mm



Available in:
20kg bags

- ★ **Scorpiones** a highly STRI rated Tall Fescue.
- ★ **Grande** helps maintain surface stability with good recovery.
- ★ Excellent wear and drought tolerance.
- ★ Rye grasses create rapid establishment and protection for developing the Tall Fescues.

MASCOT

R314 Mayday

40%	Axcella	Annual Ryegrass
30%	Greenfair	Perennial Ryegrass
30%	Snowbird	Rough Stalked Meadow Grass



Sowing Rate:
25gms/m²



Mowing Height:
Down to 20mm



Available in:
20kg bags

- ★ Ideal for winter overseeding.
- ★ Increases sward density in shaded areas during late autumn/early spring.
- ★ Includes **Snowbird**, a fine-leaf Rough Stalked Meadow Grass which generates a growth pattern in low light and temperature situations.

Landscape Mixtures




A very important market with environmental reclamation and landscape mixtures constantly required.

The Mascot range has been produced to ensure value for money, quick establishment, good wear tolerance and includes natural low-growing mixtures.



MASCOT **R15** **General Landscape** **WITH RYE**




32.5%	Greenvie	Strong Creeping Red Fescue
30%	Tucson	Perennial Ryegrass
20%	Greenway	Perennial Ryegrass
15%	Ace	Perennial Ryegrass
2.5%	Highland	Browntop Bent

 Sowing Rate: 35gms/m²  Mowing Height: Down to 25mm  Available in: 20kg bags

- ★ Establishes quickly throughout the sowing season.
- ★ The inclusion of rhizomatous grasses produces a close-knit sward which reduces weed invasion.
- ★ Reasonably drought resistance.
- ★ Contains **Greenvie** to improve fineness of leaf and the lower maintenance requirements of this mixture.
- ★ Reformulated to take into account the use of specialist ryegrasses which help reduce the volume of cuttings i.e. more cost-effective maintenance.

MASCOT **R16** **Landscape & Ornamental** **RYE FREE**

32.5%	Greenvie	Strong Creeping Red Fescue
30%	Belleaire	Chewings Fescue
10%	Nordic	Sheeps Fescue
15%	Helena	Slender Creeping Red Fescue
10%	Dumas	Hard Fescue
2.5%	Highland	Browntop Bent

 Sowing Rate: 30gms/m²  Mowing Height: Down to 20mm  Available in: 20kg bags

- ★ Reduced maintenance costs with the inclusion of **Dumas**.
- ★ Good all-year colour with a dark green winter appearance.
- ★ Excellent ground cover which reduces weed invasion.
- ★ Excellent drought tolerance.

MASCOT **R17** **Wild Flora Companion**




45%	Belleaire	Chewings Fescue
22.5%	Nordic	Sheeps Fescue
22.5%	Dumas	Hard Fescue
10%	Aspiring	Crested Dogstail

 Sowing Rate: 8-10gms/m²  Mowing Height: 30-50mm  Available in: 20kg bags

- ★ Slower, more open establishment to encourage development of Wild Flora.
- ★ Good winter colour with the inclusion of Hard Fescue **Dumas**.

MASCOT **R18** **Shade/Drought Tolerance**




20%	Helena	Slender Creeping Red Fescue
20%	Greenway	Perennial Ryegrass
20%	Voyager	Tufted Hair Grass
20%	Snowbird	Rough Stalked Meadow Grass
15%	Mystic	Strong Creeping Red Fescue
5%	Egmont	Browntop Bent

 Sowing Rate: 30gms/m²  Mowing Height: Down to 20mm  Available in: 20kg bags

- ★ Quick establishing, dedicated shade mixture. Tested over 7 years.
- ★ Includes shade-tolerant cultivars of **Voyageur** and **Snowbird**.

MASCOT **R19** **Rhizomatous Tall Fescue**

25%	Grande	Tall Fescue
20%	Scorpiones	Tall Fescue
20%	Applaud	Perennial Ryegrass
15%	Neruda 1	Perennial Ryegrass
20%	Mystic	Strong Creeping Red Fescue

 Sowing Rate: 30gms/m²  Mowing Height: Down to 20mm  Available in: 20kg bags

- ★ Increased drought-tolerance and heat-tolerance. Wear tolerant.
- ★ Reduced water requirements. The tall fescue assures deep rooting.
- ★ **Scorpiones** tall fescue included for fineness and density.
- ★ **Grande** tall fescue variety with rhizomes improves re-growth capacity.



Environmental Flora Mixtures

Through greater general awareness, the use of Environmental Flora mixtures in selected areas of recreational sites has become more common. Corners and non-used areas of sports grounds, along with areas of rough on golf courses, are now being encouraged to develop areas of wild flora as a way of enhancing their particular site and encouraging more natural looking areas, which also helps to reduce maintenance costs.



The Mascot Environmental Flora Range of 10 top quality mixtures has been designed to cover the majority of situations found in the UK. However, Rigby Taylor can provide specialist mixtures to customers' own specifications, and are experienced in attaining criteria laid down to meet 'grant-aided' requirements.

Environmental Flora seed can be supplied separately, but is traditionally sold as an 80% grass seed and 20% wild flora combination. Contents and percentages are clearly labelled on each Mascot mixture.

The average sowing rate is 5gms/m² except for our grass-free Cornfield Annuals package which is applied at approximately 2gms/m². As the initial maintenance is very important following sowing, a fact sheet providing recommendations is available from Rigby Taylor. In addition we have technical personnel who are always available to advise on specialist situations when required.

This range is available in a minimum order quantity of 2kg.

MASCOT

EF1 General Purpose

A rich mixture of colourful and hardy species most commonly found in meadows throughout the country. Particularly suitable for highway verges and in areas of variable/unknown specification.

MASCOT

EF2 Chalk & Limestone Soils

Suited to moderate and more extreme alkaline soils found in chalk and limestone areas. Well-known species which excel in these conditions have been specially selected.

MASCOT

EF3 Sandy Soils

Suitable for light, well-drained soils. These may be sandy/stony in nature, or well draining slopes and embankments. Deep rooting species help provide some drought resistance.

MASCOT

EF4 Loam & Alluvial Soils

Designed for free-draining loam and alluvial soils. The range of species are representative of those typically found in moisture retentive lowland meadows.

MASCOT

EF5 Heavy Clay Soils

For predominantly clay soil types, including heavy clay structure. This mixture contains a selection of species most likely to succeed even in inhospitable or infertile conditions.

Quality...
Reliability...
Performance...



With increasing interest in creating wild flower areas alongside amenity and agricultural environments, the Mascot Environmental Flora Range ensures:

- ❖ All wild flora are of native origin
- ❖ Species are carefully selected for suitability
- ❖ Ingredient quantity is always specified
- ❖ Authentic stocks of high quality seed

MASCOT

EF6 Wetland & Pond Edge

Species that will thrive in saturated soils at the margin of ponds, rivers and streams. The mixture is also suitable for wet low-lying land and could form part of an aquatic habitat.

MASCOT

EF7 Hedgerows

A selection of species particularly suited to shade or partially-shaded areas. Typically this mixture can be used in meadow hedgerows and/or woodland perimeters.

MASCOT

EF8 Woodland

Species are representative of those typically found on woodland edges and in deciduous woodland. Species either tolerate shade or require shade conditions. Sowings could accompany deciduous tree planting.

MASCOT

EF9 Cornfield Annuals

Useful for sowing in addition to other mixtures for first year colour. It can also be sown alone and allowed to shed seed for continuity the following year.

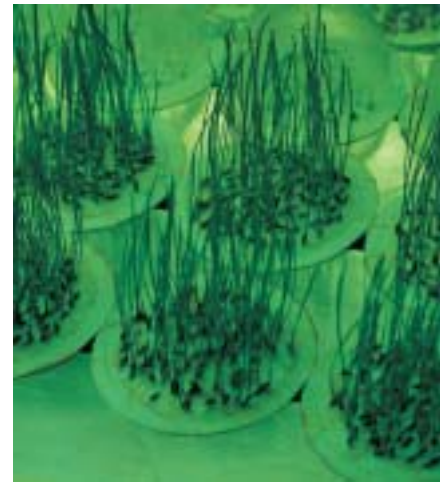
MASCOT

EF10 Coastal

This wild flora mixture is designed to cope with 'salt-winds' and tolerate high levels of soil salinity. It contains species that are typically found wild in this type of environment.

Mascot Cultivars

Constant liaison takes place with the major breeders to ensure the purity and germination of all our cultivars are above the minimum EEC standards. Grass breeding programmes are extremely long and require constant monitoring to ensure that the chosen cultivars meet our customers' expectations. Highlights of some cultivars included in the Mascot range are shown here.



TALL FESCUE

Festuca arundinacea This is a vigorous perennial, with both bunch type and rhizomatous growth habits. It is extremely deep-rooted providing excellent tolerance to drought but will also tolerate wet soils and short periods of water logging. Tall Fescues form a dense resilient sward that is quick to establish and recovers easily from wear.

GRANDE A rhizomatous variety which creates rapid root development and helps stabilise soil structures. Creates a dense sward which tolerates high wear and is extremely drought tolerant.

SCORPIONES A tufted variety developed in France from European material. Finer leaf width enables it to blend with perennial rye grasses. Will maintain a uniform colour even under extreme heat and dry conditions.

HARD FESCUE

Festuca longifolia This is a densely, tufted perennial within which certain cultivars have the ability to survive even after a long drought period. Has the ability to do well in shady areas. Very winter hardy and an excellent grass for low maintenance situations. Certain cultivars are also salt resistant.



DUMAS An excellent performer for infertile and drought conditions. Has above average tolerance to heat, shade and salinity. Is useful in wild flora and semi-natural grassland situations where its short growth requires little cutting.

CHEWINGS FESCUE

Festuca rubra commutata A very widely used species in the UK that provides fine texture and low maintenance qualities. This sub species is without rhizomes and favours well-drained chalky soils as well as sandy and gravel soils. Very aggressive on clay soils

and can suppress Browntop Bent when maintained under low fertility conditions. Well adapted to seed mixtures it can be aggressive when used on dry, fertile soil. Excellent drought resistance.



GREENSLEEVES A new variety of Chewings Fescue. Fine and dense with very good performance and exceptional disease tolerance, especially Fusarium Patch.

BELLEAIRE A new variety having good germination and wind chill characteristics in many situations. Has a high density rating.

CALLIOPE Achieves a high root density and blends well with Slender Creeping Red Fescue to form a dense uniform playing surface with good summer colour. An ideal choice where quality swards are required.

SLENDER CREEPING RED FESCUE

Festuca rubra rubra litoralis Has very fine and short rhizomes and whilst having all the attributes of Strong Creeping Red Fescue it forms a much denser sward and has in some cases a vastly superior salt tolerance.



HELENA Especially suitable for seeded turf and high quality fine turf but with valuable qualities for landscaping and sports turf. Provides very high shoot density, tolerance to close mowing, year-round colour with considerable improvements in drought resistance and wear.

LANAI A useful cultivar for inclusion in

mixtures which require tolerance to close mowing. Can be used in Fine Turf mix to improve density of the sward and increase drought tolerance.

CEZANNE Excellent shoot density at all times of the year enabling a dense, even sward to be achieved. When combined with a high quality Chewings Fescue it produces a high quality playing area with a dense, even sward.

STRONG CREEPING RED FESCUE

Festuca rubra rubra gunuina Able to sustain itself between a pH value of 5 to 8.5. Aggressive on clay soils it can also dominate on dry coarse sandy soils. Slower than Perennial Ryegrass to germinate it is still quite thick and because of long rhizomes it quickly fills open and weak areas. Fairly resistant to drought and with some shade tolerance it will persist well in conditions of poor fertility.



GREENVIE Selected out of *Hollywood* for fineness and density. Part of parent material originated in Holland has helped create a cultivar with a high wind chill, so will establish at lower temperatures. Combines well with Ryegrasses to create a dense bottom sward, ideal for sports and amenity areas. Selected in Les Alleuds resulting in a cultivar with a high disease resistance.

MYSTIC Developed by Limagrain genetics in France. Noted for its high shoot density and persistency in the European trials. High Fusarium resistance observed with good winter colour. Ideal cultivar to create bottom growth in a universal mixture.

BROWNTOP BENT

Agrostis tenuis Rapid in establishment with many of the attributes of *Agrostis castellana*. These cultivars have good summer colour. Able to colonise in thin areas and therefore help to suppress weed invasion.



MANOR Exceptional shoot density under very close mowing allied to very fine leaves make this excellent cultivar a firm favourite for greens type use.

EGMONT A useful cultivar that has shown its high quality over the past five years with extremely good shoot density, fineness of leaf and short growth. Has shown up well in trials and is particularly useful in stressful situations. Blends well with Chewings Fescue for use on all fine turf.

GREENSPEED Developed from breeding stations in New Zealand the unique growing characteristics provide an extended growing season with increased germination. Because the peak growing period is different to other non-New Zealand varieties both early season growth and late autumn recovery have been achieved. Has high shoot density ratings and uniform colour throughout the playing season.

EGMONTWO This Cultivar comes from the same breeding programme as Greenspeed in New Zealand. It has achieved the highest possible density and growth patterns throughout Europe. The uniform colour throughout the season makes this an ideal cultivar to incorporate with other Brown Top varieties.

CREEPING BENT

Agrostis stolonifera Has fine narrow leaves and spreads by means of long trailing stolons. Produces a dense sward that requires maintenance to avoid build-up of

extremely high thatch levels. Recent cultivars have improved the density further, enabling excellent and uniform fine turf to be produced.



PENN A1 Selected for use where greens surfaces require a uniform dense sward maintained. The aggressive stolons help recovery following extensive wear. PENN A1 has good heat tolerance.

BUENO Has a high shoot density and an upright growth which blends well with other fine browntop bents and fescues. Research indicates it has a longer growing period due to its higher wind chill tolerance, making it ideal for use in overseeding situations.

SMOOTH STALKED MEADOW-GRASS

Poa pratensis Able to develop seed without pollination. Can be difficult to establish, needing a higher ground temperature for germination in respect to other seeds. However, once established it is extremely hard-wearing, winter hardy and drought tolerant.



GREENKNIGHT A new cultivar from Top Green which has a finer leaf, creating a dense sward which blends well with other species. It has high drought and wear tolerance characteristics.

PERENNIAL RYEGRASS

Lolium perenne The most important amenity grass used in the UK. Having the reputation for not being resistant to drought this has today been overcome by continuous breeding work. Because of these improvements, Perennial Rye-grass is now one of the first to recover following dry periods. Improved winter hardiness and finer leaves mean quicker spring recovery. These new type cultivars specifically bred for sports and amenity use have an extremely prostrate growth habit. Where a rapid plant establishment is vital they are undoubtedly the most suitable cultivars available in addition to their ability to withstand hard wear.



GREENCUP A new cultivar developed in Les Alleuds from crossing original parent plants from highly rated Ace and Greenfair. Has lower crowns and a rapid establishing root system making it ideal for inclusion in tees and cricket mixtures. Its early growth pattern and ability to recover quickly after wear makes it ideal for protection of later developing grasses.

ACE Provides medium green colour, high shoot density and fineness of leaf. Produces a low crown so ideal for where low density is required.

ACTION This cultivar has the ability to withstand shade and also to recover quickly following wear. It blends well with other high quality Ryegrass mixtures to produce a close-knit sward. It has an extended growth pattern due to its high wind chill factor.

BERLIOZ 1 Offers excellent shoot density and recovery from wear and has maintained its ranking over three years making it very reliable. Both early and late growth patterns are indicated with the ability to germinate at lower temperatures. Trials results indicate excellent tolerance and recovery from wear even in low light situations.

GREENFLASH The low crown, fine leaf and rapid germination enable Greenflash to blend well with other TopGreen cultivars to produce a dense sward, especially where there is heavy wear and recovery of the dense sward is important.

GREENWAY Extremely fine leaved makes this cultivar ideal for use in golf, tees and cricket squares. Excellent early and later germination achieved in recent French trials.

GREENVIEW Contains endophytes known to increase disease resistance particularly against leaf spot. Creates a dense bottom growth with lower crowns. Rapid germination noted from trials.



Amenity Turf

The Mascot turf range offers high quality turf for all amenity and landscape projects including golf course renovation work and high quality professional soccer surface replacement.

All Mascot Turf grades are Turf Growers Association approved and ISO 9001 assured. The use of selected turf growers enables the correct grass seed cultivars to be included to ensure rapid establishment takes place. All mixtures may be subject to minor changes, due to turfgrass seed breeding.

All of the specified material can be supplied in conventional square metre rolls or the big roll format for speedy and efficient installation.



MASCOT

1 – Fine Turf

40%	Cezanne	Slender Creeping Red Fescue
40%	Musica	Chewings Fescue
10%	Lance	Browntop Bent
10%	Manor	Browntop Bent

The combination of Fescues and Browntop Bent grasses results in a dense uniform sward ideal for golf, bowls and all other fine turf situations.

The use of Slender Creeping Red Fescue helps improve drought tolerance and overall colour of the mixtures.

MASCOT

2 – Landscape & Universal

20%	Greenway	Perennial Ryegrass
20%	Elan	Perennial Ryegrass
25%	Helena	Slender Creeping Red Fescue
15%	Mystic	Browntop Bent
20%	Calliope	Chewings Fescue

Formulated to provide a universal sward ideal for all landscaping and selected amenity situations.

The Strong Creeping Red Fescue rhizomes blend with the lower crown ryegrasses to create a dense sward, which also has a lower weight of grass clippings, which in turn reduces maintenance costs.

MASCOT

3 – Sports & Amenity Turf

20%	Greenfair	Perennial Ryegrass
20%	Greenway	Perennial Ryegrass
20%	Broadway	Smooth Stalked Meadow Grass
20%	Helena	Slender Creeping Red Fescue
20%	Hollywood	Strong Creeping Red Fescue

Developed for amenity situations, which require rapid recovery and high levels of wear.

Contains Smooth Stalked Meadow Grass, which has high drought tolerance and excellent wear capabilities.

The combination of Perennial Ryegrass and Smooth Stalked Meadow Grass create a dense sward, which creates an attractive winter colour.

*Some cultivars may change subject to availability



Page 19

Masalon advert

“Never Rained Off”