



2026

HIGH PURITY
SUSTAINABLE
SPORTS SEEDS



Johnsons
SPORTS SEED



CREATING THE WORLDS GREATEST STAGES

HIGH PERFORMANCE SUST

Mixture	Cold Recovery Mixes	Blend	Page No.	Driving Range	Fairway
FINE TURF MIXTURES					
🌀 GREEN		40% Chewings Fescue, 40% Slender Creeping Red Fescue, 20% Browntop Bent	12		
🌀 ULTRAFINE RYE GREEN		60% Perennial Ryegrass, 20% Slender Creeping Red Fescue, 20% Browntop Bent	13		
🌀 ALL BENT		100% Browntop Bent	14		
🌀 FESCUE		50% Slender Creeping Red Fescue, 50% Chewings Fescue	15		J
🌀 LINKS		100% Slender Creeping Red Fescue	16		J
🌀 FAIRWAY		20% Chewings Fescue, 25% Slender Creeping Red Fescue, 45% Strong Creeping Red Fescue, 10% Browntop Bent	17	J	J
🌀 PREMIER FAIRWAY		30% Chewings Fescue, 30% Slender Creeping Red Fescue, 25% Strong Creeping Red Fescue, 10% Hard Fescue, 5% Browntop Bent	18		J
🌀 SUSTAIN FAIRWAY		30% Hard Fescue, 5% Sheeps Fescue, 20% Strong Creeping Red Fescue, 25% Slender Creeping Red Fescue, 20% Chewings Fescue	19		J
🌀 PREMIER TEE	❄️	40% Tetraploid Perennial Ryegrass, 20% Perennial Ryegrass, 35% Strong Creeping Red Fescue, 5% Rough Stalked Meadow Grass	20		
🌀 ULTRAFINE RYE 25	❄️	25% Perennial Ryegrass, 10% Chewings Fescue, 20% Slender Creeping Red Fescue, 40% Strong Creeping Red Fescue, 5% Browntop Bent	21	J	J
🌀 ULTRAFINE RYE 50	❄️	50% Perennial Ryegrass, 25% Chewings Fescue, 25% Slender Creeping Red Fescue	22		J
🌀 ULTRAFINE RYE 100	❄️	100% Perennial Ryegrass	23		J
🌀 ROUGHS		10% Slender Creeping Red Fescue, 50% Strong Creeping Red Fescue, 25% Hard Fescue, 10% Crested Dogstail, 5% Browntop Bent	24		
SPORTS TURF MIXTURES					
🌀 PREMIER WICKET		100% Perennial Ryegrass	26		
🌀 PREMIER PITCH		100% Perennial Ryegrass	27/28		
🌀 PREMIER 4TURF 25	❄️	25% Tetraploid Perennial Ryegrass, 75% Perennial Ryegrass	29		
🌀 4TURF 50	❄️	50% Tetraploid Perennial Ryegrass, 50% Perennial Ryegrass	30	J	J
🌀 4TURF 100	❄️	100% Tetraploid Perennial Ryegrass	31	J	
🌀 MULTI SPORT		50% Perennial Ryegrass, 50% Strong Creeping Red Fescue	32	J	J
🌀 RESCUE STADIA	❄️	50% Annual Ryegrass, 45% Tetraploid Perennial Ryegrass, 5% Rough Stalked Meadow Grass	32		
🌀 WILD FLORA		 	33/34		

AINABLE SEED SOLUTIONS

Green	Rough	Tee	Bowling Green	Cricket Squares	Cricket Outfields	Football	Gallops/ Polo	Rugby	Tennis Courts	Playing Fields
J			J							
J			J							
J			J							
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		J			J	J	J	J		J
		J			J	J	J	J		J
		J			J	J		J		J
		J			J	J	J	J		J
	J									

J	Highly Recommended
J	Recommended

High performance sustainable seed solutions

A Passion for Excellence

Consistently improving and setting new standards is only possible when you care passionately about what you do. At Johnsons, our passion is quality sports turf and our objective is to help professionals deliver perfect sports surfaces all year round.

Sustainable Seed Solutions

Sustainable management of fine turf and sports turf surfaces doesn't have to mean a compromise in visual merit or performance. DLF are utilising research conducted across our global breeding centres to create mixtures with enhanced sustainability, incorporating new cultivars that improve play quality and are kinder to budgets and the environment, thanks to reduced reliance on water and chemical inputs.



Johnsons, a history of success

Established in 1820, Johnsons Sports Seed mixtures have an unequalled reputation for technical excellence. Excellence that has consistently produced quality sports turf, reflecting the standards set by the people who use them – Groundcare professionals. We are major supporters to the industry we serve, creating strong relationships with the sector's leading associations, turf managers and agronomists which means we can bring you the strongest line up of sports turf seed mixtures year on year!

Quality research and technical support

Johnsons Sports Seed mixtures are produced by the world's largest grass breeder and producer, DLF. Significant investment in global research facilities and close links with leading independent organisations ensure that all products are independently tested for proven results. All breeding and mixture trials are conducted in the UK and Ireland with customers always welcome to visit these sites. This means Johnsons Sports Seed mixtures remain at the forefront of technical development in amenity grass, with our experienced technical managers on hand to deliver sound advice on mixture and cultivar selection, field support and maintenance.

Seed purity you can rely on

'DLF Select' is an initiative that brings together a number of processes throughout our supply chain to increase the purity of our seed. The pinnacle is a grade that ensures minimal weeds, poa and coarse grasses to bring a consistent supply of high purity seed for demanding sports turf managers. 'DLF Select' grade seed is available on a number of high-performance Johnsons Sports Seed mixtures.



Discover the benefits of Tetraploid Ryegrass

As world leaders in tetraploid ryegrass technology our 4turf® Tetraploid Ryegrass cultivars are proving incredibly popular! They offer rapid establishment, incredible disease resistance and root strength, together with improved shoot density and wear tolerance. Recent trials have also demonstrated the strength and resistance of 4turf® varieties against Brown Patch and Grey Leaf Spot. For more information on the study, see page 5.


Turf Grass Seed Treatment

DLF Seeds lead the world in seed coat technologies, helping turf professionals to deliver perfect results every time, while saving both time and money.

All Johnsons Seed mixtures are GroMax coated as standard to stimulate root growth, enhance water and nutrient uptake and maximise plant development. In addition, our most popular mixtures are now available pre-coated with ProNitro - a targeted combination of controlled release nitrogen, together with hydroactive water management technology, leads to stronger germination and improved nutrient utilisation during the early stages of plant growth.



QUALIT

QUALITY CATEGORY CODE		
	S1	10x analysis 0 other seeds
	S2	10x analysis 0 <i>Poa trivialis</i> Max. TR* <i>Poa annua</i> 0 coarse grasses
	00	Standard purity analysis 0 other seeds
	00X	Standard purity analysis Max. 0.5% <i>Vulpia sp.</i> 0 other seeds
	A1	Standard purity analysis Max. 0.5% <i>Vulpia sp.</i> Max. 0.1% other seeds Max TR* <i>Poa annua</i> 0 coarse grasses
	A2	Standard purity analysis Max. 0.5% <i>Vulpia sp.</i> Max. 0.2% other seeds Max. 0.1% <i>Poa annua</i> + <i>Poa trivialis</i> 0 coarse grasses
	EU	

*The exact number of seeds accepted must be agreed upon between customer and DLF.

Planning

Sowing the field to harvesting takes two years, so we start planning varieties and quantities two years in advance to ensure availability of the pure seed.



Separate storage

DLF Select Seed is stored separately from other seed at the farm and is clearly marked to make it easily identifiable.



SEED PURITY YOU CAN RELY ON

Y GRADES
SPECIFICATION
Sample 100% clear of coarse grasses after multiple 10x searches.
Sample 100% clean after the standard 2,500 search.
A significant improvement in purity - free of coarse grasses and reduced levels of Poa species.
According to EU rules and standards.



DLF is a world leader in the supply of seed to professionals, where quality and purity are essential. Our seed has been chosen for many world-class football tournaments, for international golf championships and by many leading turf producers.

In a world where environmental factors and changes in pesticide legislation mean it is becoming increasingly difficult to achieve high purity standards, DLF have developed a new programme within their production chain to safeguard quality and ensure they remain the preferred, reliable, supplier to the top turf managers worldwide.

While EU minimum standard seed can contain up to 2% weed, DLF field consultants, working closely together with specially selected growers, have identified the cleanest fields to grow and harvest only the purest crops to produce '00' and 'S' purity rated seed mixtures.



SAFEGUARD YOUR TURF BY

With the ongoing reduction in curative chemistry, and new and increasing challenges with turf diseases, DLF are committed to utilising their global research network to develop sustainable turfgrass solutions. Bi-annually, turf managers are invited to complete DLF's 'Disease Watch Programme' which seeks to monitor and understand the changing disease landscape across Europe.

DLF use the data from the survey to create scientific independent screening programmes where our portfolio of grasses are evaluated for disease resistance. Based on this, we can create mixtures with the broadest resistance – designed to give turf managers increased performance and peace of mind. Specifically under the spotlight has been Brown Patch and Grey Leaf Spot.

A significant observation from both programmes was that there are many fungal strains of both Brown Patch and Grey Leaf Spot – the fungal strain determining the severity and impact of the disease attack. While the level of infection varied, there was a distinct consistency to the resistance shown by the individual turf cultivars, namely the outstanding tolerance demonstrated by some of DLF's diploid and 4turf tetraploid perennial ryegrass varieties.

4turf[®] by DLF

The benefits of 4turf[®]

- High, proven natural resistance to many turf diseases
- Lower use of fungicide saving time and money and improving environmental credentials
- Improved pitch quality with more playing hours
- Reduced requirement for maintenance operations such as overseeding

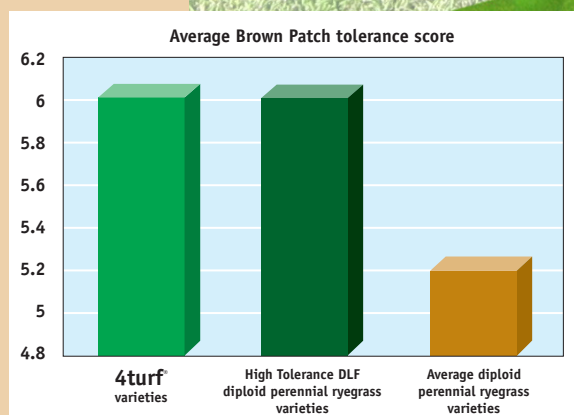
BROWN PATCH RESISTANT

Brown Patch

Brown Patch is a turfgrass foliar disease caused by *Rhizoctonia spp.* The fungus can attack all cool-season turfgrasses, but is most devastating to perennial ryegrasses, bent grass, annual meadow grass and some fescue species. Attacks can be triggered by hot, humid conditions, especially if the grass has been over-stimulated with nitrogen fertiliser. Symptoms are dependent on mowing height, but will traditionally consist of patches varying from tan to dark brown. In severe cases, total loss of grass cover can result.

DLF were able to determine with confidence that the 4turf[®] varieties are significantly more resistant to Brown Patch which correlates with the results seen in other disease trials when 4turf[®] species have performed strongly against a number of different fungal diseases.

They also identified specific DLF diploid perennial ryegrass varieties that demonstrated good resistance to Brown Patch.



CHOICE - NOT BY CHANCE



Grey Leaf Spot

Grey Leaf Spot has been discovered in different locations across southern and central Europe, known to cause significant damage to stadium pitches. In the UK, cases have primarily been reported during, or just after, the renovation phases. Caused by *Pyricularia oryzae* it is known to attack both cool and warm season grasses, primarily perennial ryegrass and tall fescue where seedlings up to 5 weeks are especially susceptible. Symptoms begin as small, irregularly shaped, greyish-brown lesions which enlarge and/or elongate as the disease progresses. As the lesions enlarge, they may change colour and/or coalesce, leading to extensive blighting of the turfgrass and a thinning and weakened turf.



The trials for Grey Leaf Spot took place in three international locations, rating grass varieties against a number of genetically different GLS fungal isolates, some of them gathered from venues across Europe. The results highlighted top performing diploid and tetraploid perennial ryegrass cultivars – particularly Fiesta 4 and the 4turf® variety Fabian, proven to have a degree of natural resistance to GLS.

With such a broad variety of fungal genotypes posing a significant threat to your turf, using mixtures with varieties proven to have high overall disease resistance, tested against a number of strains with different pathogenicity, is critical. This will help to retain a better quality pitch that can withstand the pressure of more playing hours with a reduced need for chemical inputs. Using mixtures from the Johnsons Sports Seed range, incorporating 4turf® and specific diploid varieties with proven increased disease resistance, provides a natural solution against Brown Patch, Grey Leaf Spot and other common turf grass diseases.

Don't leave your turf health to chance, look out for the Brown Patch and Grey Leaf Spot icons in this brochure.



David Rhodes, Technical Manager, DLF UK explains.

4turf[®] is a new turf-type tetraploid perennial ryegrass. Farmers have long understood the benefits of tetraploid perennial ryegrasses including rapid establishment, growth in cool temperatures and better environmental stress tolerance. Our breeders thus set out to pass these characteristics on to the amenity sector.

4turf[®] amenity ryegrasses are as far removed from agriculture as their diploid relatives, with the developments in tetraploid technology delivering a unique range of fine-leaved, high-density, turf-type tetraploid varieties.

Traditionally, diploid perennial ryegrass cultivars have been used in sports turf mixtures. In its original, diploid state, perennial ryegrass has two sets of chromosomes.

By using colchicine, which is derived from the autumn crocus, the DLF R&D team have developed tetraploid varieties which contain four sets of chromosomes - hence 4turf[®].

The first-generation plants produce a mixture of diploid and tetraploid shoots within the same plant. To then obtain plants that are 100% tetraploid, we have to go through a series of selections of individual shoots.

In addition to the benefits listed, 4Turf[®] can contribute to a surface with reduced fertiliser and chemical requirements - therefore lowering input and labour costs.

Achieving the most professional results for your surface begins with utilising your knowledge and skill as a Turf Manager from the very start of the process and getting the best grass seed in the ground.

With 4turf[®], performance is assured from the very beginning.



Benefits of 4turf[®]

• Stronger Establishment

The larger 4turf[®] seeds contain more energy reserves for stronger, faster establishment and healthy plant development. 4turf[®] demonstrates better germination at temperatures as low as 4°C when compared to diploid, giving advantage for cool weather overseeding.

• Drought Tolerance

The larger root system and natural water reserves makes 4turf[®] more drought tolerant and quicker to recover when rain returns. Trials conducted in the Loire Valley in France confirmed that 4turf[®] cultivars are significantly more drought-tolerant than diploids.

• Excellent Colour

4turf[®] delivers a deeper, glossier dark green colour, even through the winter period, that develops quicker and lasts for longer than traditional varieties of perennial ryegrass.

• Disease Resistance and Winter Performance

In European trials, 4turf[®] shows the highest disease resistance during the autumn and winter months and increased resistance to weed invasion, thanks to the improved energy reserves and stronger rooting system. 4turf[®] varieties have also demonstrated great strength and resistance to Brown Patch and Grey Leaf Spot in recent DLF trials.



NMENTAL SOLUTION



“Here at Allianz Stadium we’re always striving for improvement, looking for the next technology or product that can better equip us to cope with the challenges our surface has to withstand. For us, we don’t need the fineness of leaf, we’re not looking for optimal ball roll, but what we do need is good wear tolerance, strong visual merit and fast, effective recovery.

Having used a 100% perennial ryegrass mixture for a number of years, we spoke with our Regional DLF Technical Manager Craig Spooner about a bespoke mixture incorporating tetraploids which, with its deeper rooting, broader leaf and quicker recovery, would give us a balance of all the qualities we require.

DLF have been extremely accommodating in working with us, and we seeded our new 50% diploid/50% tetraploid perennial ryegrass mixture on the stadium pitch in early July. We’re exceptionally pleased with the results. The grow in was good, the establishment was uniform and the performance to date has been even better than we expected. The 4turf has demonstrated its robust nature and is giving us excellent recovery to cope with lots of play in short periods of time.

In terms of disease, we try not to overcrowd the plant, instead employing cultural practices such as verti-cutting and raking to limit the risk. The tetraploids have become risk mitigation for us, not only providing greater tolerance initially to a broad range of turf diseases but delivering additional strength to be able to cope with heavier mechanical practices when and where required.”



Jim Buttar

Grounds and Technical Operations Lead
Twickenham Stadium



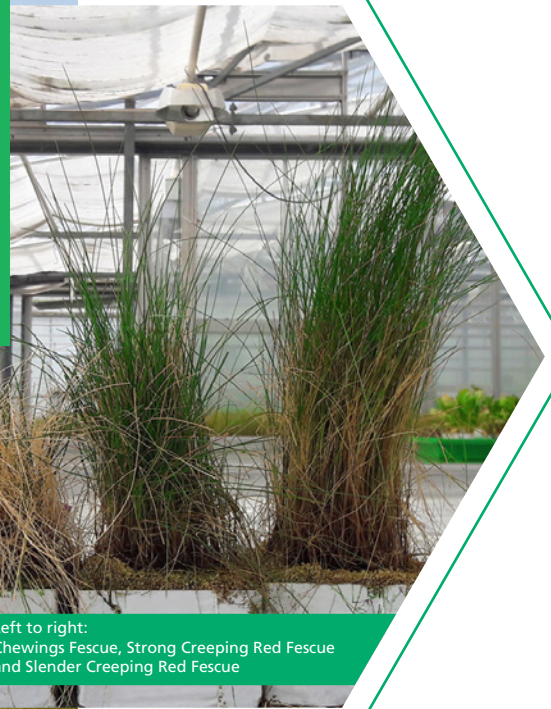
SALT TOLERANCE BACKED BY SCIENCE

4salt[®]

by DLF

Whether salinity is due to salt in the soil, the nearby sea or the irrigation water, the 4salt[®] solution offers better plant growth than standard grass seed mixtures. The 4salt[®] concept is a result of continuous testing and selection in our R&D facilities, to identify the most salt-tolerant varieties of slender creeping red fescue which are then incorporated into mixtures optimised for saline conditions.

4salt[®] can be found in Johnsons J Links mixture, the obvious choice for coastal golf courses, roadsides and areas using recycled water with varying or unknown quality. Johnsons J Fescue, J Premier Fairway and J Sustain Fairway are also 4salt[®] approved.



Left to right:
Chewings Fescue, Strong Creeping Red Fescue
and Slender Creeping Red Fescue

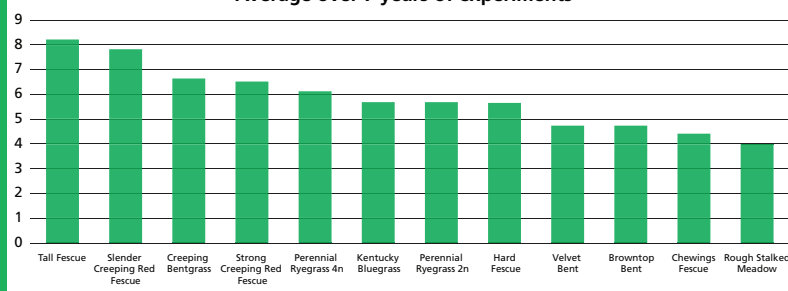


The science behind 4salt[®]

The 4salt[®] concept is a result of continuous testing and selection in our R&D facilities.

By exposing our germplasm to rising levels of salt in the growth substrate, we can identify the differences in tolerance between species and varieties, with the results of these studies shown below. This research helps to ensure that mixture formulations are optimised, and contain only the strongest varieties for top performance. 4salt[®] mixtures will also perform well in situations without salinity problems, so it is a risk-free choice and a good safeguard for applications where conditions and quality of irrigation may change.

Average over 7 years of experiments



4salt[®]
by DLF

Available on



LINKS



FESCUE



PREMIER
FAIRWAY



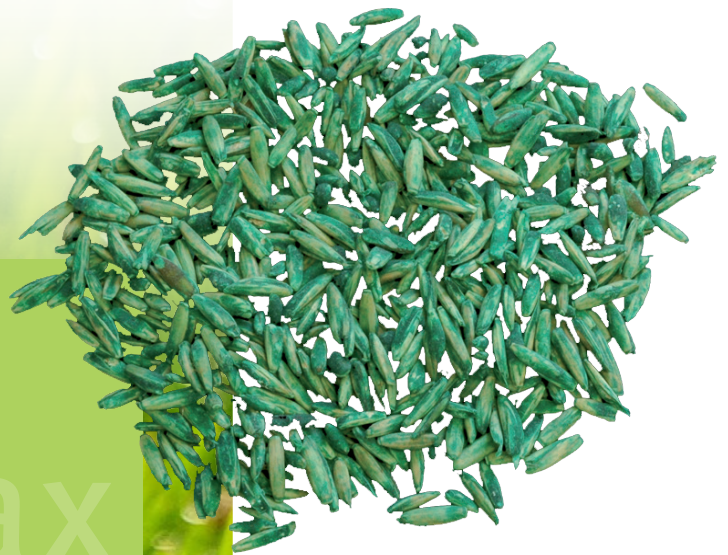
SUSTAIN
FAIRWAY

INNOVATIVE SEED COATINGS

GroMax

To maximise plant development, all Johnsons Sports Seed mixtures are GroMax coated as standard!

- Improves establishment
- Stimulates root growth
- Makes for greater tolerance to stress
- Enhances water and nutrient uptake



ProNitro®

ProNitro® Seed Technology for stronger germination and faster establishment

ProNitro® treated seeds contain both fast and slow release nitrogen, encapsulated within a smooth outer coating for improved seed flow. This targeted controlled release nitrogen is partnered with DLF's hydroactive water management technology for sustainable water uptake and improved nutrient utilisation during the early stages of plant growth.

Benefits of ProNitro®

- Replace the need for traditional pre-seed fertilisers
- Reduce nitrogen leaching by up to 50%
- The germinating and developing seedling receives the full benefit of the nutrition
- Improved nutrient utilisation, stronger germination and faster, more uniform seed establishment
- Up to 34% more plants and 30% increase in root length reduces invasion of Poa annua and broad leaved weeds

ProNitro® is good for all types of playing surface and is particularly important when overseeding into a competitive sward. On golf greens and cricket wickets in low-fertility sandy soils, ProNitro® provides faster establishment, enhanced recovery and contributes to a sward that is more stress tolerance and capable of withstanding intensive wear.



Now with DLF hydroactive water management technology

Available on



NITRO PREMIER TEE

Product formulation:
10% N



NITRO PREMIER WICKET

Product formulation:
10% N



Watch the full ProNitro® video online

ProNitro®
COATING



HOUR
23



Control

ProNitro

WEEK
ONE



Control

ProNitro

TEE
RENOVATION
TRIAL



Control

ProNitro

ProNitro®

READY TO GROW

FINE TURF MIXTURES

Sustainable management

Johnsons Sports Seed offers a range of mixtures for greens, tees, fairways and roughs. Within each mixture, the varieties have been carefully selected for sustainable management and high performance.

High performing surfaces year-round

Based on the most recent research and development, Johnsons mixtures are selected for year-round homogeneous surfaces, resistant to disease – whether it's a traditional high input mixture or sustainable solution.

Outstanding Wear Tolerance

High density, deep-rooting mixtures that deliver the perfect playing surface. Increased wear tolerance eases maintenance and ensures that the grass, even in the most exposed areas, meets the needs of the most demanding players.

Drought Tolerant

With top-rated fescue cultivars, mixtures within the Johnsons Sports Seed portfolio demonstrate fantastic drought tolerance, helping you withstand environmental pressures and produce an aesthetically pleasing surface with fewer water or nutritional inputs.

Protect your turf

DLF conduct extensive disease research and trials to select only the strongest, most tolerant varieties for your turf surface. Many Johnsons fine turf mixtures boast high tolerance to Fusarium, Red Thread and other common turf diseases.

Cold Recovery

Look out for our new cold recovery mix logo to help restore your turf in low temperatures – mixtures formulated with the added benefit of strong cold temperature germination.



CREATING THE WORLDS
GREATEST STAGES

GREEN

For golf and bowling greens

Incorporating top rated fine fescues and bent grass cultivars, J Green delivers fast sustainable surfaces with excellent disease resistance, summer colour and enhanced shoot density – helping to reduce poa invasion.

“Johnsons **J Green** mix is proving pivotal to Royal Birkdale’s ongoing preparation works ahead of hosting the 2026 Open Championship. We’ve found it gives us a consistent blend throughout the sward, with an optimal balance of chewings and slender creeping red fescue which performs particularly well at a variety of heights of cut.

The inclusion of browntop bent provides additional disease tolerance and resilience to the greens, giving us the speed, resilience, presentation and overall quality we need to support daily and championship play.”

Sean McLean
Course Manager
Royal Birkdale



Seed purity you can rely on

- **20% Bogart** [Chewings Fescue]
Excellent shoot density under close mown conditions combined with visual merit and high disease resistance
STRI Rating **7.5**
- **20% Orionette** [Chewings Fescue]
Very high density and persistency to keep weeds at bay, while remarkable Red Thread tolerance ensures low N input
STRI Rating **7.5**
- **20% Seroa** [Slender Creeping Red Fescue]
High visual merit, combined with high density and excellent salt and drought tolerance
STRI Rating **7.5**
- **20% Sybille** [Slender Creeping Red Fescue]
Strong visual merit, exceptional shoot density and disease resistance
STRI Rating **7.9**
- **10% Arrowtown** [Browntop Bent]
Exceptional shoot density and fineness of leaf to deliver maximum trueness and ball speed
STRI Rating **7.1**
- **10% Cleek** [Browntop Bent]
A top performer in STRI close mown trials that demonstrates exceptional Fusarium resistance and maintains good winter colour and hardiness
STRI Rating **6.8**

Sowing rate	20-30g/m ²
Oversowing	10-20g/m ²
Mowing height	Down to 4mm



ULTRAFINE RYE GREEN

For golf and bowling greens

Ideal for the renovation of heavily worn greens, J Ultrafine Rye Green provides exceptional recovery and fine, dense turf for golf and bowling greens. Fast establishment is accompanied by high tolerance of shade and intense wear, even under close mown conditions.



- 30% Chloe** [Perennial Ryegrass]
 Fast establishing, weat tolerant variety with fine leaf and outstanding shoot density
 STRI Rating **6.3**
- 30% Gwynett** [Perennial Ryegrass]
 Very high density with fineness of leaf, excellent wear tolerance and recovery
 STRI Rating **7.3**
- 20% Sybille** [Slender Creeping Red Fescue]
 With a strong visual merit, exceptional shoot density and disease resistance
 STRI Rating **7.9**
- 10% Cleek** [Browntop Bent]
 A top performer in STRI close mown trials that demonstrates exceptional Fusarium resistance and maintains good winter colour and hardiness
 STRI Rating **6.8**
- 10% Arrowtown** [Browntop Bent]
 Exceptional shoot density and fineness of leaf to deliver maximum trueness and ball speed
 STRI Rating **7.1**

Sowing rate	25-35g/m ²
Oversowing	10-20g/m ²
Mowing height	Down to 4mm



“We’ve used many different mixtures on our greens here at Woolley Park over the years, and specifically **J All Bent** for the last six. This just seems to really suit our conditions. We’ve got USGA spec rootzone and we’ve found that the bent grass thrives here, the benefits of which are two-fold – helping us in the constant fight against Poa, with the Bent outcompeting fescues and other varieties, and improving the density, consistency and sustainable quality of the sward.”

John Rowbottom
Head Greenkeeper
Woolley Park Golf Club



J ALL BENT



For sustainable golf and bowling greens

Setting the standard for density and visual quality, this all bent overseeding mixture delivers a sward tolerant of close cutting and high levels of wear. With the inclusion of top-rated cultivars, J All Bent delivers fast, sustainable golf greens with reduced requirement for chemical inputs.



- **50% Arrowtown** [Browntop Bent]
Exceptional shoot density and fineness of leaf to deliver maximum trueness and ball speed
STRI Rating **7.1**
- **20% Manor** [Browntop Bent]
High tolerance to Fusarium and close mown wear
STRI Rating **6.9**
- **30% Cleek** [Browntop Bent]
A top performer in STRI close mown trials that demonstrates exceptional Fusarium resistance and maintains good winter colour and hardiness
STRI Rating **6.8**

Sowing rate	10g/m ²
Oversowing	5g/m ²
Mowing height	Down to 3mm



Seed purity you can rely on



J FESCUE

For high performance greens, tees and fairways (non-Rye)

100% fine fescue blend, suited to the sustainable management of high-performance fairways, tees and greens (including links and heathland). Top rated cultivars provide high drought and salt tolerance, resistance to disease and a sward that requires lower inputs of water and fertiliser.



“We’ve been using the Johnsons **J Fescue** mix here at Princes for close to 10 years. Our exposed links location in Sandwich Bay means we need a mixture that is hardy and demonstrates high salt tolerance - and that’s exactly what we get with **J Fescue**. The 100% fine fescue formulation gives us a good strike every time and the strong varieties are able to compete with other species and withstand high levels of wear to support championship play. It does exactly what it says on the tin!”

Aaron Launchbury
Course Manager
Princes Golf Club



- **20% Sybille** [Slender Creeping Red Fescue]
With a strong visual merit, exceptional shoot density and disease resistance
STRI Rating **7.9**
- **15% Seroa** [Slender Creeping Red Fescue]
High visual merit, combined with high density and excellent salt & drought tolerance
STRI Rating **7.5**
- **15% Absolom** [Slender Creeping Red Fescue]
Exceptional disease resistance and tolerance for close mown management
STRI Rating **7.3**
- **20% Bogart** [Chewings Fescue]
Excellent shoot density under close mown conditions combined with visual merit and high disease resistance
STRI Rating **7.5**
- **15% Orionette** [Chewings Fescue]
Very high density and persistency to keep weeds at bay, while remarkable Red Thread tolerance ensures low N input
STRI Rating **7.5**
- **15% Siskin** [Chewings Fescue]
Highly ranked for disease resistance, salt tolerance and visual merit even under low input management
STRI Rating **6.7**



Seed purity you can rely on



Sowing rate	25-35g/m ²
Oversowing	10-25g/m ²
Mowing height	Down to 4mm



LINKS

For high salt tolerant golf greens, tees and fairways



A 100% Slender CRF mixture designed for maximum salt and drought tolerance under links golf conditions and sustainable management programmes. Suitable for greens, tees and fairways, J Links delivers a sward with high resistance to disease and a rhizomatous root structure for improved strength and self-repair.

NEW FORMULATION 2026



- **30% Seroa** [Slender Creeping Red Fescue] High visual merit, combined with high density and excellent salt & drought tolerance
STRI Rating **7.5**
- **30% Absolom** [Slender Creeping Red Fescue] Exceptional disease resistance and tolerance for close mown management
STRI Rating **7.3**
- **40% Sybille** [Slender Creeping Red Fescue] With a strong visual merit, exceptional shoot density and disease resistance
STRI Rating **7.9**

Sowing rate	25-35g/m ²
Oversowing	10-25g/m ²
Mowing height	Down to 4mm



Seed purity you can rely on



FAIRWAY

For sustainable golf tees and fairways (non-Rye)

For sustainable tees and fairways on heathland and parkland courses, J Fairway is a 100% fescue blend for improved sward quality and reduced input costs. It has high visual merit, offers high shoot density to prevent Poa annua invasion and delivers improved drought tolerance.

NEW
FORMULATION
2026



- **20% Siskin** [Chewings Fescue]
Highly rated for disease resistance, salt tolerance and visual merit even under low input management
STRI Rating **7.2**
- **25% Seroa** [Slender Creeping Red Fescue]
High visual merit combined with high density and excellent salt & drought tolerance
STRI Rating **7.4**
- **25% Laverda** [Strong Creeping Red Fescue]
The highest shoot density of any strong CRF and top-rated for visual merit
STRI Rating **6.1**
- **20% Sergei** [Strong Creeping Red Fescue]
Well rated for both shoot density and visual merit
STRI Rating **5.4**
- **10% Teetop** [Browntop Bent]
A cost-effective way of improving turf density, drought recovery and quality
STRI Rating **6.8**

Sowing rate	25-35g/m ²
Oversowing	10-25g/m ²
Mowing height	Down to 10mm



“After joining Bury St Edmunds Golf Club in 2019, I quickly built up a rapport with DLF and worked closely with Craig Spooner on a programme to increase the fescue content on all 27 fairways across our site. We have a big focus on sustainability, both in terms of more careful water management and limiting nutritional inputs and knew that bolstering the native fescue was the way forward.

For the last two or three years we’ve been using the 100% fescue blend of **J Premier Fairway** with fantastic results. This has thrived under low input management, and continues to give us excellent coverage – even this year despite the challenges we’ve all faced with the weather. Moving forwards, the objective is to continue building the fescue content and with the outstanding performance of **J Premier Fairway** we wouldn’t consider using anything else.”

Tom Smart
Course Manager
Bury St Edmunds Golf Club



PREMIER FAIRWAY

For high performance, sustainable golf fairways and tees (non-Rye)



A sustainable fairway mix featuring Fescue and Browntop Bent for improved sward quality, unbeatable shoot density and excellent tolerance of salt and drought. The lower chemical, water and cutting requirements of J Premier Fairway makes it an ideal choice for sustainable golf fairways and tees.

**NEW
FORMULATION
2026**



Seed purity you can rely on



- **15% Orionette** [Chewings Fescue]
Very high density and persistency to keep weeds at bay, while remarkable Red Thread tolerance ensures low N input
STRI Rating **7.7**
- **15% Siskin** [Chewings Fescue]
Highly ranked for disease resistance, salt tolerance and visual merit even under low input management
STRI Rating **7.2**
- **15% Sybille** [Slender Creeping Red Fescue]
With a strong visual merit, exceptional shoot density and disease resistance
STRI Rating **7.8**
- **15% Seroa** [Slender Creeping Red Fescue]
High visual merit, combined with high density and excellent salt & drought tolerance
STRI Rating **7.4**
- **25% Laverda** [Strong Creeping Red Fescue]
The highest shoot density of any strong CRF and top-rated for visual merit
STRI Rating **6.1**
- **10% Dumas 1** [Hard Fescue]
High salt tolerance, shoot density and resistance to fungal disease, together with a natural appearance throughout the season
STRI Rating **5.9**
- **5% Jorvik** [Browntop Bent]
Good density and fineness of leaf, tolerant of close mowing and very adaptable to changing growing conditions
STRI Rating **6.2**

Sowing rate	25-35g/m ²
Oversowing	10-25g/m ²
Mowing height	Down to 7mm

J SUSTAIN FAIRWAY

For sustainable fairways

A high-performance, fine-turf fairway formulation equipped to withstand the environmental challenges of the future. Ideal for links and heathland venues, J Sustain Fairway contains resilient hard and sheeps fescue, providing a natural foundation of strength and tolerance to a broad range of turf stresses and requires less nutrient, water and chemical inputs.



Seed purity you can rely on



- 30% Dumas** [Hard Fescue]
 High salt tolerance, shoot density and resistance to fungal disease, together with a natural appearance throughout the season
 STRI Rating **5.9**
- 5% Quatro** [Sheeps Fescue]
 Exceptional salt and drought tolerance, stand out disease resistance and natural year-round colour. The hardest wearing Sheeps Fescue in STRI trials.
 STRI Rating **8.2**
- 20% Rossinante** [Strong Creeping Red Fescue]
 The fastest establishment of any red fescue, delivering strong density with low inputs
 STRI Rating **5.8**
- 20% Orionette** [Chewings Fescue]
 Very high density and persistency to keep weeds at bay, while remarkable Red Thread tolerance ensures low N input
 STRI Rating **7.7**
- 25% Sybille** [Slender Creeping Red Fescue]
 With a strong visual merit, exceptional shoot density and disease resistance
 STRI Rating **7.8**

Sowing rate	25-35g/m ²
Oversowing	10-25g/m ²
Mowing height	Down to 7mm

"J Sustain Fairway provides a great mix of cultivars, including Sheeps Fescue which I'm personally a big fan of.

The mixture seems to work really well on our sandy site which has seen us through the hot and dry summer of 2025 really well.

Since using J Sustain Fairway we have also seen excellent germination and establishment, increasing the fescue population in our fairway sward."

James Martin
 Course Manager
 West Sussex Golf Club



PREMIER TEE

For high-wear areas and sustainable shade tolerant tees and pathways

Featuring 4Turf® tetraploid ryegrass, J Premier Tee is ideal for rapid establishment on high-wear areas, shaded golf tees and pathways - all with reduced input costs. This unique combination of cultivars delivers exceptional disease resistance, high shoot density and a hard-wearing sward even under close mown conditions.



NITRO PREMIER TEE

ProNitro coated option available

- **20% Fabian** [Tetraploid Perennial Ryegrass] No. 1 rated 4turf® tetraploid ryegrass for significantly improved wear tolerance, shoot density and recovery
STRI Rating **5.9**
- **20% Tetragame** [Tetraploid Perennial Ryegrass] 4turf® tetraploid ryegrass for significantly improved wear tolerance, shoot density, disease resistance and recovery
STRI Rating **5.0**
- **20% Chardin** [Perennial Ryegrass] High shoot density, fast recovery and a fine leaf, tolerant of close mown conditions
STRI Rating **7.0**
- **35% Laverda** [Strong Creeping Red Fescue] The highest shoot density of any strong CRF and top-rated for visual merit
STRI Rating **6.1**
- **5% Sabrena** [Rough Stalked Meadow Grass] High tolerance for shady conditions and overall winter hardiness
STRI Rating (Visual Merit) **8.0**



Sowing rate	35-50g/m ²
Oversowing	15-25g/m ²
Mowing height	Down to 8mm

"I've worked with Johnson's mixtures for many years and know it's a range I can rely on. We set about some long-overdue improvements on the tees and identified wear tolerance, quick recovery, strong colour and ability to withstand drought as the key characteristics we were going to need from our seed.

Johnson's **J Premier Tee** ticked every box and the members have undoubtedly noticed the improvements. Tees which were previously unplayable come the end of September are now delivering strong, quality playing surfaces year-round."

Aaron Watkinson
Head Greenkeeper
Reddish Vale Golf Club



ULTRAFINE RYE 25

For hard-wearing golf greens, tees, fairways, pathways and driving ranges (with ultrafine ryegrass)

Designed for the renovation of high traffic greens, tees, fairways and driving ranges, J Ultrafine Rye 25 delivers season-long reliable growth. With top-rated and ultrafine varieties blending with added Browntop Bent to deliver a surface with higher tolerance to heat, drought and wear with fewer inputs - for cost-effective and environmentally-friendly maintenance.



- **10% Gwynett** [Perennial Ryegrass]
Very high density with fineness of leaf, excellent wear tolerance and recovery
STRI Rating **7.3**
- **15% Chloe** [Perennial Ryegrass]
Fast establishing, wear tolerant variety with fine leaf and outstanding shoot density
STRI Rating **7.2**
- **10% Highnote** [Chewings Fescue]
Outstanding scores for shoot density, visual merit and resistance to red thread, year round colour. Tolerates close mowing
STRI Rating **6.6**
- **20% Sybille** [Slender Creeping Red Fescue]
With a strong visual merit, exceptional shoot density and disease resistance
STRI Rating **7.8**
- **20% Laverda** [Strong Creeping Red Fescue]
The highest shoot density of any strong CRF and top-rated for visual merit
STRI Rating **6.1**
- **20% Rossinante** [Strong Creeping Red Fescue]
The fastest establishment of any red fescue, delivering strong density with low inputs. Top rated for close mowing down to 5mm
STRI Rating **5.8**
- **5% Jorvik** [Browntop Bent]
Good density and fineness of leaf, tolerant of close mowing and very adaptable to changing growing conditions
STRI Rating **6.2**

Sowing rate	35-50g/m ²
Oversowing	15-25g/m ²
Mowing height	Down to 5mm



“After a tough 2025 season at Thorndon Park Golf Club, we chose Johnson’s **J Ultrafine Rye 50** seed mix to help us quickly rebuild fairway coverage and density. We needed something reliable, and this blend stood out straight away.

Its hard-wearing qualities allow it to cope with the level of play our course sees, while the fast germination meant we could get new growth established without delay. The combination of ryegrass and fine fescues has also been a big advantage, giving us strong durability with a finer finish and, most importantly, rapid recovery before the season closed. This mix has helped us restore consistency across the fairways and set the course up for a much stronger start moving into 2026.”

Tony Dineen and the Greenkeeping Team
Thorndon Park Golf Club



J ULTRAFINE RYE 50

For durable greens, tees, fairways, outfields and pathways where a ryegrass/fescue blend is required

Ideally suited to situations where a 50/50 blend is required, J Ultrafine Rye 50 delivers superior playability and presentation. Delivering reliable and rapid establishment and germination, even at low temperatures, it benefits from excellent tolerance to a range of stresses and promises high performance in close mown conditions.



Cold Recovery Mix

- **25% Gwynett** [Perennial Ryegrass]
Very high density with fineness of leaf, excellent wear tolerance and recovery
STRI Rating **7.3**
- **25% Chloe** [Perennial Ryegrass]
Fast establishing, wear tolerant variety with fine leaf and outstanding shoot density
STRI Rating **7.2**
- **25% Highnote** [Chewings Fescue]
Outstanding scores for shoot density, visual merit and resistance to red thread, year round colour. Tolerates close mowing
STRI Rating **6.6**
- **25% Sybille** [Slender Creeping Red Fescue]
With a strong visual merit, exceptional shoot density and disease resistance
STRI Rating **7.8**

Sowing rate	35-75g/m ²
Oversowing	25-75g/m ²
Mowing height	Down to 5 mm



ULTRAFINE RYE 100

For hardwearing golf greens, tees, fairways and pathways (with ultrafine ryegrass)

Any mix is only as fine as the coarsest grass - that's why we've blended four of the finest cultivars to create J Ultrafine Rye 100! With exceptionally fine leaf and dense, fast-establishing 100% perennial ryegrass varieties, it is ideal for fine turf renovations and other surfaces which demand high wear tolerance and high visual merit.



**NEW
FORMULATION
2026**

- **25% Gwynett** [Perennial Ryegrass]
Very high density with fineness of leaf, excellent wear tolerance and recovery
STRI Rating **7.3**
- **30% Clementine** [Perennial Ryegrass]
Top-rated fine turf ryegrass bred for exceptional shoot density, fineness of leaf and cleanliness of cut
STRI Rating **7.5**
- **20% Chloe** [Perennial Ryegrass]
Fast establishing, wear tolerant variety with fine leaf and outstanding shoot density
STRI Rating **7.2**
- **25% Chardin** [Perennial Ryegrass]
High shoot density, fast recovery and a fine leaf, tolerant of close mown conditions
STRI Rating **7.0**



Cold Recovery Mix

Sowing rate	35-75g/m ²
Oversowing	25-75g/m ²
Mowing height	Down to 5mm



“With more than 90,000 rounds of golf played across our two courses each year, the demand on our playing surfaces is relentless. High traffic areas particularly the tees require seed that can establish quickly, recover rapidly and stand up to constant wear. That's why confidence in the seed we choose isn't just important; it's essential to the performance of the course.

Having used Johnson's seed for many years, I've come to trust its consistency and reliability. But this season, the standout performer has been Johnson's **J Ultrafine Rye 100**. Its fast establishment has been evident, delivering strong, healthy coverage far sooner than expected. Just as impressive is its exceptional wear tolerance - an attribute that's crucial for tees that see continuous footfall and divot activity.

The improvement this year has been unmistakable. The tees are cleaner, denser and far more resilient, providing a better playing experience for golfers. For courses dealing with heavy play, **J Ultrafine Rye 100** has proven a fantastic investment in year-round performance.”

Simon Berry
Course Manager
Goodwood





J ROUGHS

For sustainable golf roughs and dry, impoverished soils

Specifically designed for sustainable golf roughs and dry impoverished soils, J Roughs delivers very slow regrowth and an attractive finish when left uncut. Offering year-round colour, the mixture can also be customised with local wild grasses - allowing natural regeneration of wildflower meadow species and attracting nesting birds and insect life.

NEW FORMULATION 2026



- **10% Pinafore** [Slender Creeping Red Fescue]
Great visual merit with a very fine leaf and a tolerance of dry soils
- **25% Maxima** [Strong Creeping Red Fescue]
High stress tolerant variety, giving good year-round appearance and good disease resistance
- **25% Sergei** [Strong Creeping Red Fescue]
Well rated for both shoot density and visual merit
- **25% Mentor** [Hard Fescue]
Requires low inputs and thrives in all types of soil. Tolerant to drought and heat
- **10% Crested Dogstail**
An upright thin seed stem with a visually attractive seed head, tolerant of drought and cold
- **5% Jorvik** [Browntop Bent]
Good density and fineness of leaf, very adaptable to changing growing conditions

Sowing rate	25-35g/m ²
Oversowing	15-25g/m ²
Mowing height	Down to 25mm



SPORTS TURF MIXTURES

Johnsons Sports Seed offers a range of mixtures for tennis, cricket, football, rugby and equestrian turf. Within each mixture the varieties have been carefully selected for top performance.

Guaranteed quality

Turf managers maintaining the full range of sports areas will appreciate the extensive work carried out by our breeding team to produce cultivars offering high ratings for wear tolerance, sward density and tolerance of close mowing. The mixture formulations hereafter and the varieties used, take full advantage of these characteristics, providing the sports turf manager with assured sward performance.

Outstanding disease tolerance

The Johnsons Sports Seed mixtures are champions when it comes to disease resistance. Thanks to our global research programme, DLF have identified the most resistant varieties to Brown Patch and Grey Leaf Spot, helping turf managers to protect their turf by choice, not by chance.

Fast results

All varieties in the Johnsons Sports Seed range are selected so that they are hard-wearing, dense and disease resistant, minimising the invasion of *Poa annua* and other weed species.

High visual merit

The use of top rated cultivars in all Johnsons Sports Seed mixtures ensures very high visual merit throughout the season, as well as quick establishment, wear tolerance and disease resistance.

CREATING THE WORLDS
GREATEST STAGES

PREMIER WICKET

For County Quality cricket squares

The four top-rated cultivars in J Premier Wicket deliver class leading wear tolerance for county quality cricket squares. Delivering proven results at the highest level, rapid establishment, high disease resistance and camera appeal can be expected from this renovation mixture as standard.

NITRO PREMIER WICKET

ProNitro coated option available



- **25% Clementine** [Perennial Ryegrass]
Top-rated fine turf ryegrass bred for exceptional shoot density, fineness of leaf and cleanliness of cut
STRI Rating **6.9**
- **25% Monroe** [Perennial Ryegrass]
The top-ranked all-rounder – shoot density, fine leaf, recovery, disease resistance and coverage
STRI Rating **6.2**
- **25% Chardin** [Perennial Ryegrass]
High shoot density, fast recovery and a fine leaf, tolerant of close mown conditions
STRI Rating **5.9**
- **25% Chloe** [Perennial Ryegrass]
Slow growing, wear tolerant variety with strong performance even under dry conditions
STRI Rating **6.3**



Seed purity you can rely on

Sowing rate	35-75g/m ²
Oversowing	25-75g/m ²
Mowing height	Down to 2mm

“We’re now into our seventh season using the 100% perennial ryegrass **J Premier Wicket** mixture and wouldn’t consider using anything else.

The demands on the ground are increasing and our maintenance windows are reducing meaning we rely on a well-established and strong sward going into the season. The speed of germination with this mix is crucial for our autumn renovation work and throughout the season delivers outstanding disease tolerance and presentation that looks first-class from every angle.”

Vic Demain
Head Groundsman
Durham Cricket



PREMIER PITCH

For football and rugby stadia & training grounds

Providing exceptional wear tolerance, recovery, disease resistance and a camera-friendly finish for both natural and hybrid pitches, it's no surprise that J Premier Pitch delivers proven performance at many of Europe's leading football and rugby stadia.



Seed purity you can rely on



Significantly improved Brown Patch resistance thanks to the addition of Monroe and Gildara.

- **10% Europitch** [Perennial Ryegrass]
No. 1 rated for visual merit under high wear
STRI Rating **7.7**
- **20% Eurodiamond** [Perennial Ryegrass]
Provides high shoot density and rapid recovery under intensive winter sports wear
STRI Rating **7.6**
- **10% Eurobeat** [Perennial Ryegrass]
Strong shoot density and recovery with good visual merit
STRI Rating **7.8**
- **20% Gildara** [Perennial Ryegrass]
Combining best in class genetic turf colour with outstanding wear tolerance, shoot density, recovery and disease resistance including Brown Patch
STRI Rating **7.7**
- **20% Monroe** [Perennial Ryegrass]
The top-ranked all-rounder – shoot density, fine leaf, recovery, disease resistance and coverage
STRI Rating **7.5**
- **20% Saila** [Perennial Ryegrass]
Improved visual merit and high wear tolerance
STRI Rating **7.6**

Sowing rate	35-75g/m ²
Oversowing	25-75g/m ²
Mowing height	Down to 21mm



"Johnsons **J Premier Pitch** has been an absolute game-changer for us on both our stadium pitch and the surfaces at our training ground. The turf quality and quick establishment have surpassed our expectations, it's vitally important with the small windows we're given to grow the pitch back in after concerts and commercial events through the summer. It gives us more than just a great density of sward with vibrant green colour which looks fantastic in a stadium - the resilience and recovery is outstanding, particularly during intense periods of play and the bad weather we endure through the winter months.

This sport demands strong, healthy rooting if a surface is to withstand the pressures exerted by two 900kg scrum packs, without the help of any hybrid support. **J Premier Pitch** has delivered on this and so much more. It has elevated our pitches to a standard that professional athletes love to perform on."

Andy Miller
Head Groundsman
Northampton Saints



"I have used **J Premier Pitch** on our Stadium and Training Ground pitches for the last 7 seasons, and it's been used at AFC Bournemouth for a total of 12 seasons now. Seed quality is superb - we apply at 40g/m² at renovation, and in conjunction with our germination covers we get near 100% success. We also use it for in-season overseeding and producing our pre-germinated seed which is a vital aid to keeping our worn areas green throughout the season.

It also gives us disease tolerance as you would expect and, while I get competitors prices for the equivalent seed mix every year, it has always been the best price."

Ian Lucas
Head of Grounds
AFC Bournemouth

J PREMIER 4TURF 25



For football and rugby stadia with enhanced disease resistance

The ultimate football and rugby stadium renovation mixture for rapid establishment, wear tolerance and exceptional visual merit.

J Premier 4Turf 25 is the first mixture of its kind to offer proven Brown Patch and Grey Leaf Spot resistance thanks to the combination of disease-resistant diploid and 4Turf® cultivars.



Seed purity you can rely on



Cold Recovery Mix

- **15% Fabian** [Tetraploid Perennial Ryegrass]
No. 1 rated 4turf® tetraploid ryegrass for significantly improved wear tolerance, shoot density and recovery
STRI Rating **5.9**
- **10% Tetragame** [Tetraploid Perennial Ryegrass]
4turf® tetraploid ryegrass for significantly improved wear tolerance, shoot density, disease resistance and recovery
STRI Rating **5.0**
- **25% Fiesta 4** [Perennial Ryegrass]
Most tolerant variety to Grey Leaf Spot in DLF trials
STRI Rating **-**
- **10% Europitch** [Perennial Ryegrass]
No. 1 rated for visual merit under high wear
STRI Rating **7.7**
- **15% Eurodiamond** [Perennial Ryegrass]
Provides high shoot density and rapid recovery under intensive winter sports wear
STRI Rating **7.6**
- **10% Gildara** [Perennial Ryegrass]
Combining best in class genetic turf colour with outstanding wear tolerance, shoot density, recovery and disease resistance including Brown Patch
STRI Rating **7.7**
- **10% Monroe** [Perennial Ryegrass]
The top-ranked all-rounder – shoot density, fine leaf, recovery, disease resistance and coverage
STRI Rating **7.5**
- **5% Saila** [Perennial Ryegrass]
Improved visual merit and high wear tolerance
STRI Rating **7.6**

Sowing rate	35-75g/m ²
Oversowing	25-75g/m ²
Mowing height	Down to 21mm



Formulated for proven Brown Patch and Grey Leaf Spot resistance.



J 4TURF 50



For winter sports pitches, golf courses, racecourses and high wear turf

4turf® tetraploid rye is No. 1 ranked for disease resistance and ensures rapid establishment even under low soil temperatures (3-10°C). This makes the deep-rooting and high wear tolerant J 4Turf 50 the ideal choice for autumn and winter overseeding programmes on sports pitches and racecourses.



“We have been using a mix of the DLF diploid and tetraploid ryes on our courses for three years now. Most recently in the form of **J 4Turf 50**. Coping with hot and dry periods of our more recent summers has been the driver. 2022 and 2025 have shown the need for a more drought tolerant rye. Germination has been good, providing a hardy leaf capable of with standing lots of wear and tear. I have not seen any of the extra coarse leaf blades said to be prevalent with tetraploid grasses. Tees and Fairways have been the target surface with areas of semi rough also getting good results.”

Lee Sayers
Golf Courses and Estate Manager
London Golf



- **25% Fabian** [Tetraploid Perennial Ryegrass]
No. 1 rated 4turf® tetraploid ryegrass for significantly improved wear tolerance, shoot density and recovery
STRI Rating **5.9**
- **25% Tetragame** [Tetraploid Perennial Ryegrass]
4turf® tetraploid ryegrass for significantly improved wear tolerance, shoot density, disease resistance and recovery
STRI Rating **5.0**
- **25% Gildara** [Perennial Ryegrass]
Combining best in class genetic turf colour with outstanding wear tolerance, shoot density, recovery and disease resistance including Brown Patch
STRI Rating **7.7**
- **25% Columbine** [Perennial Ryegrass]
For excellent colour and disease resistance
STRI Rating **7.3**

Sowing rate	35-75g/m ²
Oversowing	10-50g/m ²
Mowing height	Down to 21mm



J 4TURF 100



For football and rugby pitches, polo fields, racecourses, golf tees and pathways

Incorporating 100% 4turf® Tetraploid ryegrasses, this four cultivar blend delivers rapid renovation of worn areas on football & rugby pitches, polo fields, racecourses, golf tees and pathways. Larger root mass means J 4Turf 100 optimises water and fertiliser inputs resulting in good looking turf, that's cheaper to maintain and better for the environment.



- **25% Fabian** [Tetraploid Perennial Ryegrass]
No. 1 rated 4turf® tetraploid ryegrass for significantly improved wear tolerance, shoot density and recovery
STRI Rating **5.9**
- **25% Tetragame** [Tetraploid Perennial Ryegrass]
4turf® tetraploid ryegrass for significantly improved wear tolerance, shoot density, disease resistance and recovery
STRI Rating **5.0**
- **25% Double** [Tetraploid Perennial Ryegrass]
Rapid establishment, deep rooting and proven resistance to common sports turf diseases
STRI Rating **4.5**
- **25% Tetrastar** [Tetraploid Perennial Ryegrass]
A recent addition to the 4turf® family, demonstrates even denser and finer leaves without compromising stress tolerance
STRI Rating **5.5**



Cold Recovery Mix

Sowing rate	25-50g/m ²
Oversowing	25-50g/m ²
Mowing height	Down to 21mm

“Using Johnsons **J 4Turf 100** mixture, we have noticed positive benefits from germination to longer term plant health. In a fast-paced environment like a racecourse, the fact that the seed germinates so quickly is hugely significant as well as being durable in the winter months while we are racing, standing up well to the cold weather. We’re delighted with the Johnsons Sports Seed product and will continue to use it at Cheltenham Racecourse.”

Jon Pullin
Clerk of the Course
Cheltenham Racecourse



J MULTI SPORT

For sports fields, cricket outfields and athletics fields

A multi-purpose mixture designed for sports fields, cricket outfields and athletics use, where a high quality, flexible sward is required. Top rated cultivars provide a mixture that is ideal for renovations, providing a sward that establishes quickly and cuts cleanly.



- **25% Chardin** [Perennial Ryegrass] High shoot density, fast recovery and a fine leaf, tolerant of close mown conditions
STRI Rating **7.0**
- **25% Columbine** [Perennial Ryegrass] For excellent colour and disease resistance
STRI Rating **7.3**
- **25% Rossinante** [Strong Creeping Red Fescue] The fastest establishment of any red fescue, delivering strong density with low inputs
STRI Rating **5.8**
- **25% Sergei** [Strong Creeping Red Fescue] Well rated for both shoot density and visual merit
STRI Rating **5.8**

Sowing rate	35-50g/m ²
Oversowing	25-50g/m ²
Mowing height	Down to 10mm

J RESCUE STADIA

For winter overseeding, shaded sports turf and football and rugby pitches

Specifically designed for autumn/winter overseeding programmes, J Rescue Stadia features the latest generation of turf type Annual Ryegrass to deliver the fastest low temperature establishment. The excellent disease resistance, high shoot density and tolerance of wear and shade make it well suited for shaded areas on winter sports turf.



- **50% Quickston** [Annual Ryegrass] Secures quick establishment in difficult situations - the perfect nurse crop!
STRI Rating **-,-**
- **25% Tetragame** [Tetraploid Perennial Ryegrass] 4turf® tetraploid ryegrass for significantly improved wear tolerance, shoot density, disease resistance and recovery
STRI Rating **5.0**
- **20% Double** [Tetraploid Perennial Ryegrass] Rapid establishment, deep rooting and proven resistance to common sports turf diseases
STRI Rating **4.5**
- **5% Sabrena** [Rough Stalked Meadow Grass] High shoot density, excellent shade tolerance and overall winter hardiness
STRI Rating (Shoot Density) **8.2**



Cold Recovery Mix

Sowing rate	35-75g/m ²
Oversowing	10-50g/m ²
Mowing height	Down to 25mm

WILD FLOWER MIXTURES

PROFlora



Native Origin Wild Flower Mixtures

Add colour, biodiversity and interest to the golf course with native wild flower meadow mixtures.

In order to meet with the increasing demand for conservation mixtures, DLF Seeds has utilised in-house research and production facilities to formulate a number of high-quality wild flora mixtures, each designed to recreate a particular habitat.

DLF has many years of experience in the contract production of wild flower seed and plants; particularly useful where large quantities or unusual/rare species are required. Our experienced team is on hand to provide advice on mixture selection and, for larger projects, site visits and written reports are available.

Seed Mixtures		UK Native Wild Flowers	Grasses
PRO FLORA 1	<i>Cornfield Annuals</i>	20%	80%
PRO FLORA 2	<i>Acid Soils (below pH6)</i>		
PRO FLORA 3	<i>Damp Soils</i>		
PRO FLORA 4	<i>Calcareous Soils (Chalk)</i>		
PRO FLORA 5	<i>Wet Soils</i>		
PRO FLORA 6	<i>Dry Soils</i>		
PRO FLORA 7	<i>Hedgerow & Light Shade</i>		
PRO FLORA 8	<i>Legacy General Purpose</i>		
PRO FLORA 9	<i>Heritage General Purpose</i>	10%	90%
PRO FLORA 10	<i>General purpose - plus Annuals</i>		
PRO FLORA 11	<i>Woodland & General Shade</i>	20%	80%
PRO FLORA 12	<i>Water Margins & Pond Edges</i>		
PRO FLORA 13	<i>Species Rich Lawn & Landscape</i>		
PRO FLORA 14	<i>Tall Herb & Tussock</i>		
PRO FLORA 15	<i>Pollinator</i>		
PRO FLORA 16	<i>Coastal</i>		
PRO FLORA 17	<i>SUDS OneMix</i>		
PRO FLORA 110	<i>Economy General Purpose - plus Annuals</i>	5%	95%



It is important that the correct mixture is selected to coincide with the soil type and drainage characteristics.

Subsoils often provide a weed-free, low nutrient status seed bed, ideal for wild flora.

In high fertility areas, it may be necessary to remove topsoil to prevent the growth of more vigorous grasses and pernicious weeds.

Preparation

- Remove topsoil if applicable
- Treat existing vegetation with a systemic herbicide, cultivate to 10cm and allow to fallow if practical. A repeat herbicide application may be necessary

Sowing

Sowing can take place throughout the year providing a good tilth can be prepared, however March/April and August/September are generally the most suitable.

- Mix seed to ensure even species distribution
- Sow at 5g/m² for mixtures with grass, or 0.5-1.0g/m² for pure wild flower mixtures

ENHANCE BIODIVERSITY



Colour **BOOST**



High Impact Amenity Flower Mixtures

The Colour Boost range has been designed for maximum floral impact, incorporating both wild flower and garden flowering species. Colour Boost mixtures establish rapidly to deliver a dazzling floral display throughout the year whilst providing welcome food and shelter for wildlife.

Seed Mixtures	
Carnival	<i>A stunning celebration of bright and bold annuals</i>
Floral Carpet	<i>Low growing annuals to recreate a summer meadow</i>
Skyscraper	<i>Light the sky with high impact taller growing species</i>
Biodiversity	<i>Deliver colour and life with this important mix for wildlife</i>
Honey Bee & Butterfly	<i>A mix of flowering species popular with pollinators</i>
Blush	<i>Annuals to appeal to the heart, in tones of roses and red</i>
Classical	<i>A regal mix of beautiful blues and wonderful whites</i>
Chameleon	<i>Ever-changing mix for bold colour throughout the season</i>
Poppy	<i>100% Poppy - The epitome of remembrance and reflection</i>

“Because we host weddings and corporate events alongside the golf, the introduction of a wildflower area sown with **Carnival** at our club entrance makes a strong first impression. The flowers don’t just deliver visual impact, they help us to enhance biodiversity – creating environments to encourage and support all types of insects and wildlife.”

Dave Taylor
Course Manager
Bristol Golf Club



Special mixture service

Whilst our standard mixtures will cater for most situations we are always happy to advise upon and produce mixtures to your own specification.

Our experienced team of national technical representatives are available for DLF customers, delivering sound advice on mixtures, field support and maintenance.

- Bulk up small seeding rates with **Rehofix MK1500** (1 part seed : 5 part bulking granules)
- Rake or harrow at approx. 0.5cm depth and Cambridge roll to firm seed bed

First Year Maintenance

Control the weeds and reduce competition from grasses. If sown in March/April, make the first cut in May to a height of 5-7cm. Subsequently cut every 2 months, or when the sward reaches 15cm. Make a final cut in September/October, remove all cuttings and dig out/spot treat any perennial weeds.

Future Maintenance

Cut to 5-7cm during March/April and remove cuttings. A second cut at the same height should then take place at the

end of the flowering season (August-October), remove all cuttings and conduct additional cuts in the autumn to remove untidy growth if required.

Cornfield/Colour Boost Annuals

Weed treat the ground if necessary, cultivate and re-seed in spring (or autumn for Cornfield Annuals). Cut once the flowering period is over.

Colour Boost Perennials

Dig out/spot treat any weeds as required, cut and remove dead top growth before the next spring.

GLOBAL SEED BREEDING

DLF are at the forefront in the development of new varieties. Our knowledge of the way plants grow and the changing demands of professionals across the globe is guiding breeding programmes both here in the UK at DLF Didbrook – the largest grass testing site in the UK – and across a network of sites throughout Europe, North and South America, New Zealand, Australia and South Africa.



It is important that our products are going to perform to the highest industry standards and that they will provide the end user with varieties that will be highly reliable, stable and disease resistant. The network across Europe gives us an opportunity to test material across a wide variety of environments and soil types. We see drought in Czech Republic, disease in France and freezing conditions in Russia year after year so we know that DLF Seeds will perform under whatever conditions our climate can throw at them.

Year 1-3

Different grasses are crossed in order to find new and improved varieties. The new varieties are propagated and sown in thousands of test plots.

Year 4-8

The new breeding lines are tested. Only the best varieties continue in our breeding programme.

Year 9-10

Every year we test new varieties under different climatic conditions to evaluate their performance. The very best varieties are chosen for further official trials e.g. STRI.

Year 11-14

The chosen varieties are tested and evaluated in trials by official independent authorities. The highest performing varieties are put into initial production with our experienced seed growers.

PROGRAMME & TRIALS



Every year, approximately 3,000 amenity plots are sown at our 100 acre Didbrook facility which will be evaluated over two years. The total of 6,000 plots cover the main species including red fescues, perennial ryegrass and smooth stalked meadow grass together with smaller amounts of other species. In addition to these, DLF have 20,000 single plants in nurseries which are characterised and assessed as parents to create new varieties for the UK climate.



DLF are working with the latest tools and techniques including drones in order to evaluate the grass plots on a number of characteristics – including disease and density of the plots depending on the cameras used.

Biotechnology also plays a key part in our breeding programme:

- Genome wide selection is a system of evaluating varieties using genetic markers. Over ten years of research work allows us to identify characteristics in the DNA of grass we want meaning we can screen out a lot of material before field evaluations take place.
- Hydroponics is utilised to provide a focused system to identify many characteristics in plants which would be difficult in the field. With this, DLF can evaluate a plants ability to take up nitrogen or any other nutrient we wish to analyse. It is also used to measure salt tolerance by varying salt concentrations in the growing media.

Grass breeding is a very long term process and it can take over 15 years for a breeder to see their work come to maturity - from initial crossing of the parents to the sale of a bag of seed for a sports pitch, green or fairway. Independent turf trials are crucial for ensuring that new cultivars are adapted to management and growth under local conditions.

Year 14

Official trials are completed. Only the varieties that have passed the official tests appear on the lists of recommended varieties e.g. STRI, STERF.

Year 15

Certified seeds are harvested, cleaned and samples are taken and tested for purity and germination in our own laboratories.

Year 15+

After careful selection the varieties are mixed and packed into our famous black bags at our dedicated amenity warehouse.



SALT • HEAT • DROUGHT

GRASS SPECIES

Perennial Ryegrass

Latin Name	<i>Lolium perenne</i>
Seeds/gram	600
Germination	1-2 weeks
Shoot Density	200-350 shoots/m ²
Cutting height	Normal: 25-40mm (not less than 4mm)
Growth	Non-spreading growth habit



Properties

This hard-wearing species is highly suitable for both sports areas and fine turf and is ideal for overseeding because of its rapid germination and establishment in a range of soils.

Distinguishing features

- Leaves largely parallel-sided, but narrow to a fine tip
- Upper leaf surface dull with clear ribs
- Underside of leaf glossy with prominent keel
- Leaves and stems reddish at base
- Leaf blade folded in the shoot
- Ligule up to 2mm long
- Clear sheath/auricle

4turf® Tetraploid Perennial Ryegrass

Latin Name	<i>Lolium perenne</i>
Seeds/gram	550
Germination	1-2 weeks
Shoot Density	150-250 shoots/m ²
Cutting height	Normal: 25-40mm (not less than 4mm)
Growth	Non-spreading growth habit



Properties

4turf® Tetraploid Perennial Ryegrass delivers a stronger, deeper rooting system resulting in exceptional wear qualities, significantly improved disease resistance and tolerance to a range of environmental stresses. Increased chloroplast and chlorophyll production improves nitrogen efficiency, producing a deeper colour throughout the seasons. Germinating quickly and establishing rapidly, this species is a highly suitable mixture partner for sports turf.

Distinguishing features

- 4 sets of chromosomes
- Leaves largely parallel-sided, but narrow to a fine tip
- Upper leaf surface dull with clear ribs
- Underside of leaf glossy with prominent keel
- Leaf blade folded in the shoot
- Ligule up to 2mm long
- Clear sheath/auricle



4turf[®]
by DLF

Annual Ryegrass

Latin Name	<i>Lolium multiflorum</i>
Seeds/gram	500
Germination	3-7 days
Shoot Density	150 and 250 shoots/m ²
Cutting height	Normal: Not less than 15mm
Growth	Non-spreading growth habit



Properties

Rapid establishment at low temperature, can be used as a nursery crop and ideal for localised repair.

Distinguishing features

- Germination as low as 3°C
- Rapid germination

Chewings Fescue

Latin Name	<i>Festuca rubra commutata</i>
Seeds/gram	1,000
Germination	Approx 2 weeks
Shoot Density	450-800 shoots/m ²
Cutting height	Normal: 20-35mm (not less than 5mm)
Growth	Non-spreading growth habit



Properties

The high shoot density and tolerance to close mowing makes this species particularly suitable for golf greens, tees, and fairways. Chewings Fescue tolerates acidic soils, requires minimal water and fertiliser, and retains good colour and a fine appearance year-round.

Distinguishing features

- Leaves fine, stiff and filamentous
- Young leaf folded in shoot (generally remains unfolded when mature)
- Ligule short, blunt and difficult to distinguish
- Roots bunched together
- No rhizomes
- Leaf sheath complete, not overlapping

Slender Creeping Red Fescue

Latin Name	<i>Festuca rubra litoralis</i>
Seeds/gram	1,000
Germination	Approx 2 weeks
Shoot Density	450-800 shoots/m ²
Cutting height	Normal: 20-35mm (not less than 5mm)
Growth	Creeping with short rhizomes



Properties

The high shoot density and tolerance to close cutting makes this species particularly suitable for golf greens, tees and fairways, with the runners regenerating cover in worn areas. Slender Creeping Red Fescue is highly salt tolerant and mixes well with *Festuca rubra commutata*.

Distinguishing features

- Leaves stiff and filamentous
- Young leaf folded in shoot (generally remains unfolded when mature)
- Ligule short, blunt & difficult to distinguish
- Short rhizomes
- Leaf sheath complete, not overlapping

4salt
by DLF

Sheeps and Hard Fescue

Latin Name	<i>Festuca ovina</i>
Seeds/gram	950
Germination	2-3 weeks
Shoot Density	800-1,000 shoots/m ²
Cutting height	Normal: 15-35mm (not less than 5mm)
Growth	Non-spreading growth habit



Properties

A highly flexible, drought tolerant species that requires low nutritional inputs. It can be used in a diverse range of mixtures from moorland to golf, tolerant of both close-mown and low-maintenance situations - visually attractive if left uncut. It is a capable species in a range of soil conditions from acidic to neutral.

Distinguishing features

- Very fine leaved plant with high shoot density
- Leaves are thread like, hairless with a strongly ribbed ridged upper surface
- Leaves greyish to blue green colouration
- Characteristically forms whorls as a mature plant (Sheeps fescue)
- Ligule is very short
- Leaf sheaths open and overlapping

Tall Fescue

Latin Name	<i>Festuca arundinacea</i>
Seeds/gram	650
Germination	2-3 weeks
Shoot Density	200 shoots/m ²
Cutting height	Normal: 30-40mm (not less than 10mm)
Growth	Non-spreading growth habit



Properties

A species that has very high tolerance of drought and good resistance to extremes of hot and cold weather. With some varieties forming rhizomes, tall fescues demonstrate moderate to good wear tolerance.

Distinguishing features

- Strongly veined upper leaf surface
- Blade rolled when young
- Large flat mature leaf
- Ligules short
- Small hairy auricles
- Purple red leaf sheath

GRASS SPECIES

Strong Creeping Red Fescue

Latin Name	<i>Festuca rubra rubra</i>
Seeds/gram	800
Germination	Approx 2 weeks
Shoot Density	250-450 shoots/m ²
Cutting height	Normal: 20-35mm (not less than 5mm)
Growth	Creeping long rhizomes



Properties

As the largest seed of the red fescues, this produces rapid establishment and its rhizomatous growth stabilises root zones and provides good recovery from damage. Used in turf production for its binding properties, it is not suited to close mown areas such as golf greens. Due to its regenerative capacity, it is ideal for tees, fairways and landscape usage.

Distinguishing features

- Leaves stiff and filamentous
- Young leaf folded in shoot (tends to remain unfolded when mature)
- Ligule short, blunt and difficult to distinguish
- Long rhizomes
- Leaf sheath complete, not overlapping

Smooth Stalked Meadow Grass

Latin Name	<i>Poa pratensis</i>
Seeds/gram	3,000
Germination	3-4 weeks
Shoot Density	200-350 shoots/m ²
Cutting height	Normal: 20-35mm (not less than 8mm)
Growth	Creeping with rhizomes



Properties

Forms an attractive carpet with good wearing qualities and regenerative ability. Slower to establish making it ideal for turf production, tees and sports areas.

Distinguishing features

- Leaves dark green or with bluish bloom
- Of uniform width, abruptly terminating in boat-shaped tip
- Two pale parallel lines visible along midrib when leaf is held up against light
- Underside of leaf with keel
- Leaf blade folded in the shoot
- Ligule short, rounded, 1-3mm long

Rough Stalked Meadow Grass

Latin Name	<i>Poa trivialis</i>
Seeds/gram	4,000
Germination	3-4 weeks
Shoot Density	200-350 shoots/m ²
Cutting height	Normal: 20-35mm (not less than 8mm)
Growth	Creeping with rhizomes



Properties

Mainly used in conditions where light is insufficient due to shade or in the winter months. Dense, fine and darker colour, High shade tolerance, Good frost tolerance, Erect growth and fast establishment.

Distinguishing features

- Of uniform width, abruptly terminating in boat-shaped tip
- Leaves dark green or with bluish bloom

Browntop Bent Grass

Latin Name	<i>Agrostis capillaris syn. tenuis</i>
Seeds/gram	10,000
Germination	2-3 weeks
Shoot Density	400-600 shoots/m ²
Cutting height	Normal: 4-12mm (good durability at 5mm)
Growth	Slow colonizing short rhizomes



Properties

An ideal partner with *Festuca rubra commutata* and *Festuca rubra litoralis* for golf greens mixtures. This species does best under relatively poor growth conditions however, over-fertilising, over-watering and compact/waterlogged soil will result in displacement of the species by *Poa annua*.

Distinguishing features

- Leaves matt green and broadest at base, gradually narrowing to a fine tip
- Leaf with parallel venation, no keel
- Upper surface and lower surface of similar appearance
- Leaf rolled in shoot
- Ligule short, truncated, 0.5-2.0mm long
- Short rhizomes, to a lesser degree, stolons

Creeping Bent Grass

Latin Name	<i>Agrostis stolonifera</i>
Seeds/gram	12,000
Germination	Approx 2 weeks
Shoot Density	400-600 shoots/m ²
Cutting height	Normal: 3-12mm (not over 15mm)
Growth	Creeping stolons



Properties

Relative to browntop bent grass, this species requires intensive management, fertilising and watering. While it has high tolerance to close cutting, creeping bent tends to become dormant in winter.

Distinguishing features

- Leaves matt grey-green and broadest at base, gradually narrowing to fine tip
- Leaf with ribs above
- Leaf rolled in shoot
- Ligule rounded, lightly toothed, up to 5mm long
- Can root at nodes
- Numerous stolons

Velvet Bent Grass

Latin Name	<i>Agrostis canina</i>
Seeds/gram	12,000
Germination	Approx 2 weeks
Shoot Density	700-800 shoots/m ²
Cutting height	Normal: 3-10mm (not over 15mm)
Growth	Slender creeping stolons



Properties

Of the bent grass species, velvet bent tolerates the closest cutting and forms a dense attractive sward which can help to prevent the invasion of *Poa annua*. This native bent grass has the highest natural resistance to common turf grass diseases and demonstrates exceptional drought tolerance. Over feeding will cause excessive growth and thatch build up.

Distinguishing features

- Leaves bright green or grey green, finely bladed
- Hairless and finely ribbed above
- Ligules often pointed, 2-4mm long
- Numerous slender stolons rooting at the nodes



This is a guide only, individual varieties will vary.
For further information please visit:
<https://www.dlf.co.uk/amenity/species>

5 = highest rated, 1 = lowest rated.

QUICK REFERENCE GUIDE

		Perennial Ryegrass (diploid)	Tetraploid Ryegrass	Strong Creeping Red Fescue	Slender Creeping Red Fescue	Chewings Fescue	Hard/Sheeps Fescue	Tall Fescue	Smooth Stalked Meadow Grass	Browntop Bent
CHARACTERISTICS OF SPECIES	Establishment Vigour	4	5	3	2	2	2	3	1	2
	Leaf Texture/fineness of leaf	4	3	4	5	5	5	1	3	4
	Shoot Density	4	3	3	4	5	5	1	3	4
	Wear Tolerance	5	4	3	2	3	2	4	4	3
	Salt Tolerance	3	5	3	5	3	3	4	3	3
	Close Mown	3	2	2	4	4	3	1	3	5
	Drought Tolerance	3	5	3	4	3	4	5	3	2

USEFUL DATA

For information on UK listed varieties, please visit the BSPB website.



Sports Pitch Dimensions

	Dimensions Metres (length x width)	Area
Football	100 x 64	6,400m ²
Rugby	100 x 69	6,900m ²
Hockey	91.4 x 55	5,027m ²
Cricket Square	30 x 23	690m ²
Lawn Tennis	23.8 x 11	262m ²
Bowls	40 x 40	1,600m ²
Croquet	32 x 25.5	816m ²
Golf Green	-	500m ² /600m ²
Golf Tee	-	250m ² /500m ²

Conversion Factors

Weight			
lbs	to kilograms	divide by	2.205
kilograms	to lbs	multiply by	2.205
tons	to tonnes	multiply by	1.016
tonnes	to tons	divide by	1.016
cwts	to kilograms	multiply by	50.794
kilograms	to cwts	divide by	50.794

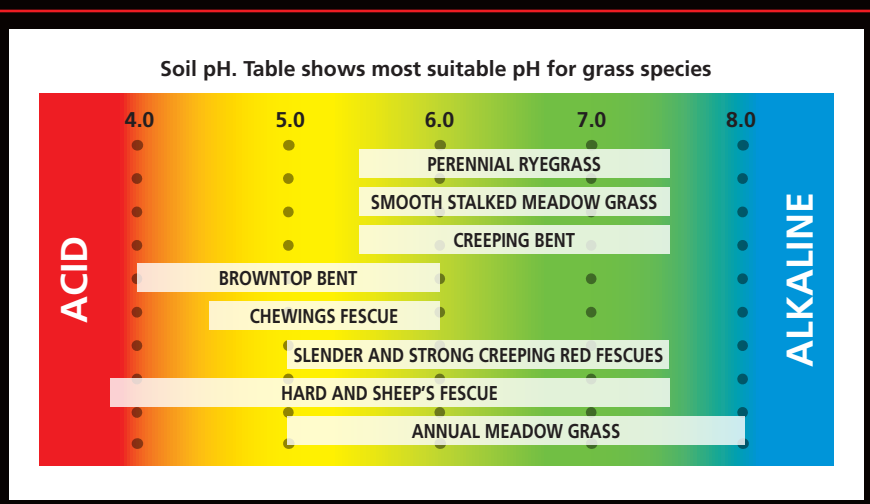
Area			
acres	to hectares	divide by	2.471
hectares	to acres	multiply by	2.471
square yards	to square metres	multiply by	0.8361
square metres	to square yards	divide by	0.8361

Sowing rate and depths

Bag size	m ² coverage by sowing rate			
	20g/m ²	25g/m ²	35g/m ²	50g/m ²
20kg	1,000m ²	800m ²	571m ²	400m ²

	Sowing depths per species (mm)	
	Optimal sowing depth	Maximum sowing depth
Perennial Ryegrass	10-15	15
Red Fescue	4-7	7
Smooth Stalked Meadow Grass	4-7	7
Bents	Rootzone contact	-

Soil pH and Turf Growth



You can claim CPD points for reading through the 2026 Johnsons Sports Seed catalogue by visiting:

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