



TURFGRASS SEED 1995

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AMENITY GRASS TESTING AT THE SPORTS TURF RESEARCH INSTITUTE (STRI)

The STRI is the only independent organisation in the United Kingdom that conducts merit tests on cultivars of amenity grasses. The testing programme has developed over the past 30 years and is now well established. Data from these trials are used to update this booklet on an annual basis. Results from individual trials are also presented in a report to turfgrass breeders and in scientific publications.

There are two grass testing programmes at the STRI, one for fine turfgrasses (red fescues, browntop bents, creeping bents, hard fescues and sheep's fescues) and one for coarse turfgrasses (perennial ryegrass, meadow-grasses, Timothy and tall fescue). The fine turfgrasses are evaluated for use in: close-mown turf for golf and bowling greens, ornamental lawns, golf fairways and for low maintenance uses. Coarse turfgrasses are tested for use in: football and Rugby pitches, which receive intensive wear during the winter, lawns and low maintenance situations. All amenity grass cultivars named in this booklet are maintained in current trials at the STRI. These trials can be viewed by appointment.

USING TURFGRASS SEED 1995

The lists contained within this booklet are designed to enable users of turfgrass seed to evaluate the suitability of different cultivars for various amenity

uses. Information for the major turfgrass species, with the exception of colour, is presented in the form of numerical scores. In each column larger numbers are better, for instance, cultivars with a score of 8.0 for shoot density would be expected to produce denser turf than those with a score of 7.0. Similarly, cultivars that have a score of 8.0 for short growth should be shorter growing than those with a score of 7.0.

Cultivars of the major grass species (Tables 1 to 8) have been placed in order of suitability for particular uses. Users should read the text regarding the selection of grasses for each table to determine if this order suits their particular needs. If it does not they should use the information within the table to select cultivars accordingly, in such cases cultivars that are best suited may not necessarily be at the top of the list. The columns for characteristics that have been used to determine the ranking order of cultivars in each table have been shaded. Where more than one characteristic has been used a column for the mean has been calculated and added to the table. Where calculated this mean has been placed within the shaded area to the right of the characteristics used in its calculation.

Columns for colour in summer and winter describe actual greenness. These ratings are not merit ratings. Users should select grasses according to personal preferences. The ratings given are: **LG** = light green; **MG** =

mid-green and; **DG** = dark green. Seed of all cultivars named should be available in the UK in 1995, but in smaller amounts where shown as LA (limited availability). The full names and addresses for the UK agents given in the tables are shown on page 12.

PERENNIAL RYEGRASS (TABLES 1 AND 2)

Two tables are shown with the cultivars ranked according to different sets of criteria. Table 1 is based on mean wear tolerance over low and high fertiliser inputs, recognising the importance of this characteristic for sports pitches receiving intensive wear during winter, such as soccer and Rugby pitches. Table 2 is based on the mean performance for shoot density, fineness of leaf, tolerance of close mowing and cleanness of cut. This table should be taken as a guide for cultivars suitable for finer turf situations, e.g. in lawns, general landscaping, cricket fields etc. Two columns for short growth are given. A column for slow regrowth under frequent cutting in Table 1 and both this column and a column for short growth under infrequent cutting (for low maintenance uses) in Table 2. To maintain an acceptable grass height for winter sports, cultivars that score highly for short regrowth would require fewer cuts and produce less clippings.

Each of the two tables has been split into two sections to give a main table and a new cultivar table. The latter

section is reserved for cultivars that have only been in the most recent set of STRI trials. The scores in this section should be treated with less certainty than the scores in the main section.

CHOICE OF CULTIVAR:

Tables 1 and 2 rank the cultivars according to means of different characteristics. It is unlikely, however, that these rankings will suit all situations. **Users should not, therefore, pick cultivars just because they appear towards the top of the list.**

Users should identify the particular properties that are important in their individual situations and choose cultivars that score well for those characteristics. In soccer and Rugby pitches, for example, it may be better to choose a cultivar with reduced susceptibility to red thread disease if this can be done without compromising too much on wear tolerance. This is particularly relevant if the use of fungicides is not viable or if there is a high risk of the disease occurring. Choosing a shorter growing cultivar with a high score for slow regrowth will help if reduced mowing frequency is required. Tolerance of close mowing will be important for turf mown much below 18 mm ($\frac{3}{4}$ "). Additionally, where good appearance is particularly required before wear, or in low wear situations, good shoot density, fineness of leaf and cleanness of cut scores will be important.

TABLE 1

PERENNIAL RYEGRASS (*Lolium perenne*) FOR HEAVY DUTY SPORTS TURF (SOCCER, RUGBY etc)

Important: Read pages 2 and 3 before evaluating cultivars.

Cultivar	Wear tolerance		Mean	Shoot density	Fineness of leaf	Clearness of cut	Slow regrowth (regular mowing)	Freedom from red thread	Winter greenness	UK agent
	Low N	High N								
Master	8.7	7.7	8.2	4.9	5.6	5.1	5.8	7.1	DG	SI
Barlinda (LA)	7.7	8.3	8.0	5.7	6.7	5.3	6.9	6.1	DG	Bar
Meteor	7.6	7.9	7.8	6.3	6.7	4.6	6.0	6.9	DG	BSH/SIL
Allegro	7.9	7.2	7.6	5.1	4.7	6.2	6.4	4.8	MG	DLF
Barclay	6.7	8.2	7.5	6.9	7.0	6.5	6.6	6.2	MG	Bar
Cartel	7.3	7.2	7.3	6.1	5.5	3.8	5.9	5.5	DG	Jns/SIL
Barlow	7.3	6.9	7.1	5.5	6.7	5.9	7.0	6.1	DG	Bar
Danilo	7.3	6.8	7.0	7.1	6.7	7.7	6.1	5.8	DG	DLF
Barrage	6.9	6.9	6.9	5.0	4.3	5.7	5.9	6.2	DG	Bar
Queens	7.2	6.5	6.8	6.7	6.1	6.1	6.9	6.1	DG	FL
Avenue (LA)	6.6	7.0	6.8	6.3	5.8	5.6	6.7	5.5	MG	PC/SIL
Score	6.6	6.9	6.8	5.5	5.4	3.1	4.7	6.0	MG	FL
Troubadour	6.9	6.4	6.6	6.1	7.0	5.9	6.4	5.8	MG	PC
Cavalier	6.3	6.7	6.5	6.5	6.0	6.4	5.5	6.1	DG	SIL
Superstar	6.5	6.5	6.5	7.1	7.0	4.2	5.6	5.4	MG	FL
Lisabelle	6.7	6.3	6.5	6.8	6.4	5.9	6.2	5.9	MG	IS
Taya	6.0	6.9	6.5	5.1	5.2	5.9	7.0	4.2	MG	DLF
Mondial	6.6	6.3	6.5	5.4	4.9	6.4	5.5	5.4	DG	Mom
Liselotte	6.4	6.5	6.4	6.1	6.7	5.5	6.2	6.5	MG	IS
Hermes	6.0	6.9	6.4	4.8	3.4	5.3	4.4	6.7	DG	BSH
Jetta	6.7	6.1	6.4	5.1	6.3	4.9	6.0	5.7	DG	PC/TFS
Barcredo	6.8	5.7	6.3	6.8	6.6	7.3	7.1	6.1	MG	Bar
Elka	6.5	6.1	6.3	7.8	7.5	7.2	6.8	5.1	DG	SI
Outsider	6.6	5.8	6.2	4.1	4.2	4.6	4.7	6.1	DG	Mom
Juwel	6.0	6.3	6.2	4.7	4.2	4.4	6.0	4.1	MG	IS
Manhattan	5.6	6.5	6.1	4.7	5.1	5.3	5.9	5.2	DG	PC/SIL
Barry	6.0	6.1	6.1	6.1	6.0	6.0	7.0	5.4	DG	Bar
Langa	5.8	6.0	5.9	5.8	5.8	5.9	5.9	7.2	DG	SI
Lisuna	6.1	5.6	5.9	5.5	5.7	5.9	5.5	6.7	DG	IS
Numan	5.8	5.8	5.8	6.8	6.7	7.0	6.0	6.5	DG	PC
Prester	5.9	5.7	5.8	6.3	4.7	7.9	5.9	7.1	DG	Jns
Sprinter	5.5	5.9	5.7	4.6	5.0	4.7	4.6	6.4	MG	FL
Gator	5.6	5.8	5.7	5.3	6.0	6.2	5.8	6.0	DG	BSH
Lorina	5.9	5.1	5.5	7.6	6.1	7.5	7.9	5.4	DG	BSH
New cultivars										
Rhapsody (LA)	8.3	8.2	8.3	7.4	6.8	5.3	4.4	7.1	-	PC/SIL
Rambo	7.9	7.9	7.9	7.9	6.9	4.8	7.7	6.7	MG	FL
Bardessa (LA)	7.3	5.9	6.6	7.0	6.8	7.1	5.4	7.3	-	Bar
Martina (LA)	5.7	6.8	6.3	6.3	6.1	6.6	6.1	6.5	-	DLF
Figaro (LA)	5.8	5.9	5.8	6.1	6.7	5.2	5.3	6.8	-	DLF
Lex 86	5.2	6.4	5.8	8.2	7.1	7.8	7.1	4.9	MG	BSH
Merci	7.2	4.2	5.7	7.9	8.3	6.1	6.8	6.3	-	FL
Lissabon (LA)	5.8	5.6	5.7	5.8	6.4	6.4	6.8	6.1	-	IS
Delaware (LA)	4.4	5.7	5.0	7.1	5.5	6.7	6.5	5.6	-	DLF
Hobbit (LA)	5.2	4.0	4.6	6.5	5.9	8.1	5.9	5.7	-	DLF

TABLE 2
PERENNIAL RYEGRASS (*Lolium perenne*) FOR LAWNS,
LANDSCAPING, CRICKET FIELDS etc.

Cultivar	Tolerance of close mowing	Shoot density	Fineness of leaf	Cleanness of cut	Mean	Slow regrowth (regular mowing)	Short growth (in-frequent mowing)	Freedom from red thread	Summer greenness	Winter greenness	UK agent
Elka	7.1	7.8	7.5	7.2	7.4	6.8	7.1	5.1	MG	DG	SI
Elegana	6.8	7.2	8.3	7.3	7.4	6.1	6.1	4.8	LG	DG	SI
Lorina	7.9	7.6	6.1	7.5	7.3	7.9	8.2	5.4	DG	DG	BSH
Danilo	7.0	7.1	6.7	7.7	7.1	6.1	6.7	5.8	MG	DG	DLF
Barcredo	6.6	6.8	6.6	7.3	6.8	7.1	7.4	6.1	DG	MG	Bar
Barclay	6.9	6.9	7.0	6.5	6.8	6.6	6.0	6.2	DG	MG	Bar
Ronja (LA)	5.8	6.2	7.9	7.0	6.7	6.4	5.7	6.1	MG	DG	SW
Numan	6.1	6.8	6.7	7.0	6.6	6.0	5.3	6.5	MG	DG	PC
Flair	7.2	6.9	7.2	5.0	6.6	5.7	6.2	5.9	MG	LG	FL
Talگو	6.4	6.3	7.0	6.6	6.5	6.6	6.0	6.5	MG	MG	BSH
Renoir (LA)	6.7	7.1	6.3	5.9	6.5	6.6	5.6	4.4	DG	DG	SIL
Surf	6.3	6.5	6.8	6.0	6.4	5.8	5.5	7.5	DG	DG	FL
Queens	6.6	6.7	6.1	6.1	6.4	6.9	6.8	6.1	DG	DG	FL
Lisabelle	6.3	6.8	6.4	5.9	6.4	6.2	6.2	5.9	DG	MG	IS
Cavalier	6.4	6.5	6.0	6.4	6.3	5.5	5.6	6.1	MG	DG	SIL
Superstar	6.8	7.1	7.0	4.2	6.3	5.6	6.3	5.4	DG	MG	FL
Troubadour	5.7	6.1	7.0	5.9	6.2	6.4	5.9	5.8	MG	MG	PC
Prester	5.8	6.3	4.7	7.9	6.2	5.9	6.9	7.1	DG	DG	Jns
Liselotte	6.3	6.1	6.7	5.5	6.2	6.2	6.7	6.5	MG	MG	IS
Avenue (LA)	6.7	6.3	5.8	5.6	6.1	6.7	7.0	5.5	MG	MG	PC/SIL
Corso (LA)	5.9	6.0	5.4	7.2	6.1	6.7	5.9	5.4	DG	DG	TFS
Barry	6.4	6.1	6.0	6.0	6.1	7.0	6.0	5.4	LG	DG	Bar
Meteor	6.3	6.3	6.7	4.6	6.0	6.0	6.3	6.9	DG	DG	BSH/SIL
Barlow	5.7	5.5	6.7	5.9	6.0	7.0	7.4	6.1	DG	DG	Bar
Barlinda (LA)	5.8	5.7	6.7	5.3	5.9	6.9	6.5	6.1	MG	DG	Bar
Kelvin	5.5	5.5	4.7	7.6	5.8	6.8	6.4	7.8	DG	DG	Jns
Langa	5.6	5.8	5.8	5.9	5.8	5.9	5.8	7.2	DG	DG	SI
Gator	5.5	5.3	6.0	6.2	5.8	5.8	5.5	6.0	MG	DG	BSH
Boston (LA)	5.3	5.5	4.8	7.4	5.7	6.7	5.6	6.9	DG	DG	Mom
Rival	5.9	5.7	5.1	5.6	5.6	5.6	5.7	5.0	MG	LG	SI
Lisuna	5.3	5.5	5.7	5.9	5.6	5.5	5.4	6.7	DG	DG	IS
Mondial	5.3	5.4	4.9	6.4	5.5	5.5	6.4	5.4	DG	DG	Mom
Cherokee	5.7	5.4	5.0	5.7	5.5	5.4	5.5	5.8	MG	MG	Jns
Cartel	6.5	6.1	5.5	3.8	5.5	5.9	5.3	5.5	DG	DG	Jns/SIL
Taya	5.4	5.1	5.2	5.9	5.4	7.0	6.1	4.2	MG	MG	DLF
Jetta	4.8	5.1	6.3	4.9	5.3	6.0	6.1	5.7	DG	DG	TFS
Allegro	5.1	5.1	4.7	6.2	5.3	6.4	6.2	4.8	MG	MG	DLF
Barrage	5.3	5.0	4.3	5.7	5.1	5.9	5.4	6.2	MG	DG	Bar
Manhattan	4.7	4.7	5.1	5.3	5.0	5.9	5.4	5.2	MG	DG	PC/SIL
Pavo (LA)	4.9	4.7	4.9	5.5	5.0	5.2	4.7	5.8	DG	MG	SW
Master	4.6	4.9	5.6	5.1	5.0	5.8	5.1	7.1	MG	DG	SI
Score	5.6	5.5	5.4	3.1	4.9	4.7	5.4	6.0	DG	MG	FL
Hermes	5.3	4.8	3.4	5.3	4.7	4.4	4.9	6.7	DG	DG	BSH
Sprinter	4.2	4.6	5.0	4.7	4.6	4.6	5.8	6.4	DG	MG	FL
Outsider	4.4	4.1	4.2	4.6	4.3	4.7	5.4	6.1	DG	DG	Mom
New cultivars											
Lex86 (LA)	7.2	8.2	7.1	7.8	7.6	7.1	6.5	4.9	MG	MG	BSH
Merci	7.6	7.9	8.3	6.1	7.5	6.8	8.0	6.3	DG	-	FL
Bardessa (LA)	7.5	7.0	6.8	7.1	7.1	5.4	5.8	7.3	DG	-	Bar
Rambo	8.1	7.9	6.9	4.8	6.9	7.7	6.0	6.7	MG	MG	FL
Delaware (LA)	7.6	7.1	5.5	6.7	6.7	6.5	6.1	5.6	LG	-	DLF
Hobbit (LA)	6.2	6.5	5.9	8.1	6.7	5.9	6.0	5.7	DG	-	DLF
Rhapsody (LA)	6.8	7.4	6.8	5.3	6.6	4.4	5.9	7.1	DG	-	PC/SIL
Marlina	6.1	6.3	6.1	6.6	6.3	6.1	7.3	6.5	LG	-	DLF
Lissabon (LA)	5.3	5.8	6.4	6.4	6.0	6.8	6.6	6.1	DG	-	IS
Figaro (LA)	5.9	6.1	6.7	5.2	6.0	5.3	5.7	6.8	MG	-	DLF

CHEWINGS, SLENDER CREEPING AND STRONG CREEPING RED FESCUES (TABLES 3, 4 AND 5)

Cultivars of Chewings fescue and slender creeping red fescue are shown in order of their suitability for use in close mown turf (mown at 5-13 mm). This order was determined from the mean of each cultivar's tolerance of close mowing and shoot density scores. Strong creeping red fescues are shown in order of their suitability for use in general landscaping and low maintenance amenity turf. This ranking was derived from the mean of the ratings for tolerance of close mowing, shoot density and short growth. The new cultivar section of each table (where given) contains cultivars that have recently become available, but have only been assessed in the latest STRI trials. Information for cultivars in this category should be treated with less certainty than that given for the more established cultivars in the main body of each table. **It should be noted that the individual merit ratings for each characteristic are comparable between tables 3, 4 and 5.** Therefore, seed specifications may be prepared which contain a mixture of the different types of fescue, using the full range of desirable characteristics found in different cultivars and types of fescue.

Cultivars at the top of each list may not be the best cultivars for every use. Users should identify which characteristics are most important for their intended use and then select cultivars accordingly. Short growth will be imp-

ortant where the frequency of cutting is low, such as for low maintenance areas. Resistance to disease will be important where the incidence of disease is likely to be high or if disease is unlikely to be controlled. Tolerance of close mowing and shoot density will be of most importance for ornamental lawns and very close mown turf such as golf and bowling greens.

Cultivars of strong creeping red fescue are not generally suitable for use in close mown turf (cutting height less than 13 mm). Whereas, the better cultivars of Chewings and slender creeping red fescues are suitable for use in close mown turf and will tolerate mowing at 5 mm, for use in golf and bowling greens. Cultivars of slender creeping and Chewings fescues also tend to produce finer and denser turf at other heights of cut. In low maintenance situations where wild flowers are to be encouraged the less dense fescue cultivars may be more appropriate than the high density turf-type cultivars. However, the high density cultivars would be more desirable if ground cover and soil stabilisation was the primary objective of the low maintenance mixture.

As suggested above, mixtures may also be selected which contain cultivars of different red fescue species, as ratings in Tables 3, 4 and 5 are comparable. For instance, in close mown turf a mixture of Chewings and slender creeping red fescues may be advantageous. This would combine the greater drought

tolerance and ability to spread from rhizomes of the slender creeping red fescues with the greater disease resistance of the Chewings fescues. Finally, it should be noted that there

are often several cultivars of equal merit for any particular use. In such cases, the final selection of cultivars can be made according to price or other commercial factors.

TABLE 3
CHEWINGS FESCUE (*Festuca rubra* ssp. *commutata*)
 Important: Read pages 2 and 6 before evaluating cultivars.

Cultivar	Tolerance of close mowing	Shoot density	Mean	Short growth	Freedom from red thread	Freedom from dollar spot	Summer greenness	Winter greenness	UK agent
Center	7.4	7.4	7.4	6.8	7.1	7.0	MG	MG	SIL
Lobi	7.3	7.5	7.4	6.1	7.0	6.9	DG	MG	PC/TFS
Nimrod	7.3	7.3	7.3	5.9	6.1	7.2	MG	MG	PC/SIL
Frida	7.2	7.4	7.3	6.4	7.4	7.1	MG	MG	BSH
Enjoy	7.1	7.3	7.2	6.7	6.8	6.8	MG	MG	PC
Olivia	7.1	7.3	7.2	7.3	6.6	6.7	DG	MG	BSH
Bargreen	7.2	7.2	7.2	7.7	7.3	6.7	DG	MG	Bar
Baruba	7.0	7.1	7.0	6.7	7.1	7.2	MG	DG	Bar
Waldorf	6.9	7.0	7.0	6.0	7.5	7.4	MG	MG	Jns
Baroxi (LA)	6.5	7.4	6.9	7.3	7.6	7.2	LG	DG	Bar
Trophy (LA)	7.0	6.8	6.9	6.6	7.3	7.1	DG	MG	PC/SIL
Atlanta	6.9	6.9	6.9	6.6	6.3	5.2	MG	DG	SI
Rainbow	6.8	6.9	6.8	6.9	6.9	7.1	MG	MG	Mom
Roulette	6.8	6.8	6.8	7.3	7.5	7.7	MG	DG	FL
Bingo	6.8	6.8	6.8	6.5	6.3	6.8	LG	DG	FL
Alltop	6.6	6.8	6.7	6.2	7.4	7.0	MG	DG	SI
Mary	6.7	6.7	6.7	6.5	6.6	6.3	MG	MG	Mom
Wilma	6.8	6.5	6.6	6.6	5.8	6.4	LG	MG	SW
Agram	6.4	6.5	6.5	6.9	7.1	6.6	LG	MG	TFS
Tamara	6.5	6.3	6.4	5.8	7.1	7.1	MG	DG	DLF
Raymond	6.4	6.3	6.4	6.6	6.4	6.3	MG	MG	Mom
Weekend	6.4	6.2	6.3	7.2	6.1	6.6	MG	DG	SI
Capitol	6.4	6.2	6.3	6.5	6.3	7.0	MG	MG	SIL
Scarlet	6.1	6.1	6.1	6.8	6.5	6.4	DG	DG	Mom
Lifalla	6.1	6.0	6.0	6.5	7.5	6.9	MG	DG	IS
Lustre	6.2	5.8	6.0	5.9	7.0	7.3	MG	MG	FL
Banner	5.9	5.6	5.7	5.5	6.1	6.0	MG	MG	Jns
Barnica	5.7	5.5	5.6	5.2	6.6	6.1	MG	DG	Bar
Ivalo	5.5	5.3	5.4	5.0	7.0	6.2	MG	DG	DLF
Koket	5.5	5.3	5.4	5.7	6.8	5.6	MG	MG	Mom
Tatjana	5.3	5.3	5.3	5.1	6.3	6.6	MG	DG	DLF
New cultivars									
Darwin (LA)	7.0	7.3	7.1	8.0	5.9	6.4	—	LG	PC/SIL
Licato	6.6	6.3	6.4	7.4	6.4	6.6	—	MG	IS
Angela (LA)	6.3	5.8	6.1	8.1	6.0	6.1	—	MG	DLF

TABLE 4
SLENDER CREEPING RED FESCUE (*Festuca rubra* ssp. *litoralis* etc.)

Important: Read pages 2 and 6 before evaluating cultivars.

Cultivar	Tolerance of close mowing	Shoot density	Mean	Short growth	Freedom from red thread	Freedom from dollar spot	Summer greenness	Winter greenness	UK agent
Barcrown	8.5	8.9	8.7	7.4	8.0	7.1	MG	DG	Bar
Smirna	7.2	7.3	7.3	6.7	6.1	6.0	MG	MG	FL
Logro	6.9	7.3	7.1	6.4	6.9	6.2	MG	MG	BSH
Oriflamme	7.1	7.0	7.1	6.4	6.0	5.4	DG	DG	SI
Jupiter	7.0	7.1	7.1	6.5	6.0	6.0	DG	DG	Jns
Estica	7.0	7.1	7.0	6.9	5.5	5.5	MG	DG	PC
Recent	7.1	7.0	7.0	6.3	4.6	5.5	DG	DG	SIL
Barlander (LA)	6.7	6.9	6.8	7.7	6.9	7.2	MG	MG	Bar
Cinderella (LA)	6.8	6.9	6.8	6.5	5.4	5.8	MG	DG	DLF
Symphony	6.7	6.8	6.8	6.2	6.7	7.3	DG	DG	FL
Liprosa	6.7	6.8	6.8	6.3	6.0	6.2	MG	DG	IS
Horizon	6.6	6.8	6.7	5.8	6.1	5.7	DG	DG	Mom
Dawson	6.6	6.6	6.6	5.2	5.5	5.5	DG	DG	Jns
Lovisa	6.6	6.4	6.5	5.6	5.3	6.1	MG	MG	SW
Marker	6.4	6.4	6.4	7.1	5.6	5.7	MG	MG	PC/SIL
Rufilla	6.3	6.4	6.3	5.4	6.3	7.0	DG	MG	BSH
Samanta	6.5	5.9	6.2	5.6	5.7	6.3	MG	DG	PC/SIL
Rondo	6.1	6.2	6.2	5.5	5.4	5.3	DG	MG	DLF
Suzette	6.2	6.1	6.1	5.1	5.0	6.1	DG	DG	DLF
Merlin	6.1	5.6	5.9	5.8	6.0	6.7	MG	DG	Jns
New cultivars									
Mocassin (LA)	7.8	8.2	8.0	5.9	8.5	7.7	—	DG	Mom
Helena (LA)	7.0	7.9	7.4	6.7	5.8	6.4	—	DG	FL
Barskol (LA)	7.3	7.2	7.2	6.0	5.3	—	DG	DG	Bar
Libano	6.8	6.8	6.8	5.3	5.6	5.3	—	DG	IS
Limarin	6.6	6.6	6.6	6.2	5.5	5.0	—	DG	IS

MISCELLANEOUS FINE FESCUES (TABLE 6)

Cultivars of hard fescue are shown in order of suitability for use in fine turf. These grasses, along with the sheep's fescues, may be used for fine turf in very dry or infertile conditions. However, sheep's fescues tend to grow in different directions and as such, do not produce a uniform sward. Both types of grass are fairly intolerant of wear and as a result, should only be considered for use in ornamental and low maintenance areas.

BROWNTOP AND CREEPING BENTS (TABLE 7)

Cultivars of browntop bent (*Agros-*

tis tenuis) and creeping bent (*A. stolonifera*) are listed in order of their suitability for use in close mown turf, such as golf and bowling greens. The new cultivar section of these lists includes cultivars that have recently become available but have only been tested in the latest STRI trials.

'Highland' browntop bent is generally acceptable for most UK situations in which bent is sown and seed of this species is usually more readily available than that of other cultivars of bent. However, for very fine turf such as golf greens and bowling greens the STRI now

advises that the finer and denser cultivars of *A. tenuis* are used in preference to 'Highland'. In other situations the appearance and disease

resistance of bentgrass turf can be improved by replacing some or all of its 'Highland' content with a finer browntop bent.

TABLE 5
STRONG CREEPING RED FESCUE (*Festuca rubra* ssp. *rubra*)

Important: Read pages 2 and 6 before evaluating cultivars.

Cultivar	Tolerance of close mowing	Shoot density	Short growth	Mean	Freedom from red thread	Freedom from dollar spot	Summer greenness	Winter greenness	UK agent
Diego	5.8	5.7	6.6	6.1	4.4	5.9	MG	MG	DLF
Cindy	5.3	5.3	6.4	5.7	5.7	5.1	DG	MG	SI
Hollywood	5.7	5.8	5.6	5.7	5.3	5.6	MG	MG	FL
Herald	5.4	5.2	5.7	5.4	4.5	5.0	DG	DG	PC/SIL
Ensylva	5.1	5.2	5.7	5.3	5.1	5.1	DG	DG	PC/SIL
Elanor	5.2	5.2	5.2	5.2	5.5	5.3	MG	MG	DLF
Jasper	4.7	4.7	6.1	5.2	4.3	3.9	MG	DG	BSH
Pernille	5.2	5.1	5.1	5.1	5.1	5.2	DG	DG	DLF
Sunset	4.7	5.1	5.4	5.1	5.8	5.0	LG	MG	FL
Flyer	4.5	4.8	4.9	4.7	5.0	4.6	LG	MG	Jns
Victor	4.7	4.7	4.7	4.7	4.4	4.1	MG	MG	Mom
Laxton	4.5	4.6	5.1	4.7	4.9	4.8	MG	MG	DLF
Franklin	4.5	4.7	4.7	4.7	5.0	5.2	LG	MG	Mom
Boreal	4.8	4.5	4.3	4.5	4.7	3.9	MG	MG	Fa*
Ceres	4.5	4.8	4.1	4.5	5.3	4.4	MG	MG	SI
Commodore	4.0	4.3	3.6	4.0	5.6	4.8	MG	MG	SI
New cultivars									
Aniset (LA)	5.1	5.3	6.0	5.5	4.9	4.3	—	MG	DLF
Picnic	5.4	5.3	5.2	5.3	4.9	5.0	—	MG	FL

*Freely available

TABLE 6
MISCELLANEOUS FESCUES (*Festuca* spp.)

Cultivar	Shoot density	Short growth	Freedom from red thread	Summer greenness	Winter greenness	UK agent
Hard fescue (<i>F. longifolia</i>)						
Crystal	7.5	6.7	6.6	MG	MG	Mom
Valda	6.3	5.0	5.1	MG	MG	SIL
Eureka	5.8	5.9	6.2	DG	MG	PC/SIL
Waldina	5.7	5.9	6.9	MG	MG	SI
Scaldis	5.6	4.4	6.1	DG	MG	Jns
Livina	5.4	5.7	6.7	LG	LG	IS
Fine-leaved sheep's fescue (<i>F. tenuifolia</i>)						
Barok	7.2	7.0	4.4	DG	MG	Bar
Sheep's fescue (<i>F. ovina</i>)						
Quatro	8.1	7.9	8.1	DG	DG	SIL

TABLE 7
BROWNTOP AND CREEPING BENTS (*Agrostis* spp.)
 Important: Read pages 2 and 8 before evaluating cultivars.

Cultivar	Shoot density	Fineness of leaf	Short growth	Freedrom from red thread	Summer greenness	Winter greenness	UK Agent
A. tenuis							
Heriot	7.7	7.5	7.1	5.7	MG	DG	Bar
Lance	7.5	7.5	6.6	6.3	MG	MG	Jns
Sefton	7.5	7.6	5.8	4.6	MG	DG	SI
Egmont	7.0	5.8	5.9	6.3	MG	DG	FL
Bardot	6.7	7.2	6.8	5.8	MG	MG	Bar
Duchess	6.5	7.0	6.7	5.5	MG	MG	BSH
Tracenta	5.9	7.0	7.1	4.1	MG	MG	Mom
New cultivars							
Denso	7.4	7.1	6.6	6.4	MG	MG	SIL
Enbenta (LA)	6.4	7.7	6.3	4.2	MG	MG	PC/SIL
Litenta (LA)	5.4	6.4	5.0	5.5	MG	MG	IS
A. castellana							
Highland	4.9	5.3	3.4	3.6	LG	DG	Fa*
A. stolonifera							
Penneagle	6.0	5.3	6.0	6.8	MG	MG	BSH
Carmen	5.9	5.8	5.6	6.6	LG	MG	Mom
Pencross	5.7	5.5	6.3	6.6	MG	MG	BSH
Prominent	5.2	5.6	5.2	7.1	MG	DG	FL
Emerald	5.2	5.0	6.0	6.5	MG	MG	SW
New cultivars							
Providence (LA)	6.9	6.0	6.5	6.1	LG	MG	BSH

*Freely available

SMOOTH-STALKED MEADOW-GRASS (TABLE 8)

Cultivars of smooth-stalked meadow-grass are shown in order of the mean of the scores for wear tolerance and shoot density. As a result, the best grasses for different uses may not be at the top of the list. Users who require a high degree of wear tolerance should select grasses with a good rating for wear tolerance. Those who require good, fine turf characteristics should choose grasses which rate highly for shoot density and fineness of leaf. Once established, smooth-stalked meadow-grass can be as hard wearing as perennial ryegrass and usually has better tolerance of close mowing. Its rhizomes give good recovery from wear

and some drought tolerance. However, establishment of this grass is slow and best results can only be achieved if at least 12 months is left between sowing and use.

OTHER TURFGRASS SPECIES (TABLE 9)

Timothy tolerates wet, heavy soils but has fairly broad leaves which tend to be blue-green in colour. The turf-type cultivars of tall fescue are no substitute for perennial ryegrass in normal turf situations in the UK, being slower in establishment, coarser in leaf texture and as a result, less attractive in appearance. They may, however, have a place in dry or low fertility conditions.

TABLE 8
SMOOTH-STALKED MEADOW-GRASS (*Poa pratensis*)

Cultivar	Wear tolerance	Shoot density	Mean	Fineness of leaf	Short growth	Freedom from leaf spot	Orange stripe rust resistance	Summer greenness	Winter greenness	UK agent
Limousine	7.2	8.6	7.9	7.7	6.1	6.3	4.0	DG	MG	IS
Julia	7.5	6.3	6.9	6.0	5.2	7.1	6.1	MG	MG	BSH
Melba	6.1	7.1	6.6	6.1	6.5	5.9	5.8	DG	MG	DLF
Broadway	6.8	6.3	6.5	4.9	5.2	6.9	5.5	MG	DG	FL
Minstrel	6.9	5.9	6.4	5.4	5.1	5.3	7.0	MG	MG	Jns
Haga	7.0	5.6	6.3	4.9	6.2	6.0	6.5	DG	DG	SW
Cynthia	6.4	6.3	6.3	7.5	6.4	5.7	5.1	MG	DG	Mom
Conni	5.6	7.0	6.3	6.3	6.5	5.7	6.2	DG	MG	DLF
Trampas	5.5	6.5	6.0	5.9	6.1	5.4	6.0	MG	DG	DLF
Nimbus (LA)	6.1	5.7	5.9	5.5	6.6	5.1	6.6	DG	DG	TFS
Andante	5.5	6.2	5.8	6.3	6.5	6.7	6.0	MG	MG	DLF
Ampellia	5.6	5.9	5.8	6.3	4.4	7.4	5.6	MG	DG	SIL
Parade	6.5	4.7	5.6	5.4	6.4	5.1	6.6	MG	DG	Jns
Fylking	5.1	6.0	5.6	7.3	5.9	6.2	6.2	-	-	SW
Entopper	5.8	5.2	5.5	4.6	6.2	5.8	6.0	MG	MG	PC/SIL
Enprima	5.1	5.6	5.3	6.2	5.6	5.3	4.6	MG	MG	PC
New cultivars										
Cocktail	6.9	7.8	7.4	7.4	5.5	6.9	5.7	DG	MG	Jns
Rocardo	5.9	8.3	7.1	8.1	6.0	6.9	7.0	MG	LG	PC/SIL
Miracle	6.8	7.3	7.1	5.9	7.0	5.0	7.1	MG	MG	SI/SIL
Barvictor	6.6	6.4	6.5	5.9	6.6	5.9	5.6	DG	DG	Bar
Cesar (LA)	6.6	6.2	6.4	7.0	6.2	5.1	5.4	DG	MG	PC/SIL
Star (LA)	6.9	5.9	6.4	4.0	6.4	5.0	6.8	MG	LG	DLF
Saskia	5.6	6.3	6.0	6.3	7.1	6.2	6.8	MG	DG	Mom
Cardiff	6.0	5.4	5.7	5.7	6.5	4.1	5.8	DG	MG	PC
Fortuna	5.7	5.7	5.7	5.9	7.5	5.2	6.4	DG	DG	SIL
Opal	4.4	6.2	5.3	6.9	6.4	5.6	4.3	MG	MG	SW

TABLE 9
OTHER TURFGRASS SPECIES

Species	Cultivar	UK agent
Crested hair-grass (<i>Koeleria cristata</i>)	Barkoel	Bar
Flattened meadow-grass (<i>Poa compressa</i>)	Canon	SI
Timothy (<i>Phleum pratense</i>)	Barvanti	Bar
Tall fescue (<i>Festuca arundinacea</i>)	Bartes Cochise Dovey Ligeorge (LA) Miro Olga	Bar DLF Bar IS SIL Jns

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