

TURFGRASS SEED 2002

SECOND EDITION


 STRI

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SECOND EDITION

Please note that Table 1.1 has been updated in this edition.

THE SPORTS TURF RESEARCH INSTITUTE (STRI)

In 1929 the Home Golf Unions and the Royal & Ancient Golf Club of St. Andrews established what is now STRI. The main aims were to undertake research and provide advisory services for golf clubs. By the 1950's, the work of the STRI had expanded to include all other sports and amenity grass areas.

Today, the STRI is the independent market leader in turfgrass research and agronomy. It is the UK's National Centre for consultancy in Sports & Amenity Turf and is recognised as a world centre for research. The STRI's nationwide network of advisers visit over 2000 turf facilities a year throughout the UK, Ireland and many other countries. These include golf, sports clubs, local authorities, stadium venues, amenity grasslands and artificial turf.

AMENITY GRASS TESTING

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 35 years and is now well established. At the STRI 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, 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 2002

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.

Cultivars of the major turfgrass species have been placed in order of suitability for particular uses. Therefore, users should read the text regarding the selection of grasses for each table to determine if this order suits their particular needs. The characteristics that have been used to determine this ranking order 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. **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. 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 2001, but in smaller amounts where shown as LA (limited availability). The full names and addresses for the UK seed suppliers representing grasses in the tables are presented on page 19.

PERENNIAL RYEGRASS (TABLES 1.1 AND 1.2)

Two tables are shown with the cultivars ranked according to different sets of criteria. Table 1.1 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 1.2 is based on the mean performance for shoot density, fineness of leaf, tolerance of close mowing and slow regrowth with frequent mowing. 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 1.1 and both this column and a column for short growth under infrequent cutting (for low maintenance uses) in Table

1.2. To maintain an acceptable grass height for winter sports, cultivars that score highly for slow regrowth would require fewer cuts and produce less clippings.

Both perennial ryegrass tables have 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 tested 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.

Tables 1.1 and 1.2 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. They 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. Choosing a shorter growing cultivar with a high score for slow regrowth will help if reduced mowing frequency is required. 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 1.1
PERENNIAL RYEGRASS (*Lolium perenne*) FOR WINTER PITCHES
(SOCCER, RUGBY etc)

Important: Read pages 2 and 3 before evaluating cultivars.

Cultivar	Wear tolerance		Mean	Shoot density	Fineness of leaf	Cleanliness of cut	Slow regrowth (regular mowing)	Freedom from red thread	Winter greenness	UK agent
	Low N	High N								
AberImp	7.3	7.5	7.4	6.4	6.3	7.0	7.9	5.0	MG	BSH
Barlinda	6.7	7.8	7.2	5.5	6.1	5.2	5.7	5.4	DG	BAR
Verdi	6.8	7.7	7.2	6.5	5.2	6.2	7.1	5.4	MG	PHL/Jns
Essence	7.4	6.8	7.1	7.5	7.0	6.5	6.4	5.3	MG	CEB
Jade (LA)	7.0	7.2	7.1	5.9	6.3	5.8	6.2	7.3	MG	PHL/Jns
AberElf	7.0	7.2	7.1	7.0	6.7	6.8	5.9	6.2	DG	BSH
Allegro	7.6	6.6	7.1	5.2	5.0	6.2	6.2	5.2	MG	DLF/PC
Eden	7.0	7.1	7.0	5.3	4.8	6.1	5.7	5.8	DG	Ni
Ritmo	7.3	6.6	7.0	6.7	6.8	7.0	6.7	7.4	DG	PHL/Jns
Master	7.0	7.0	7.0	4.5	4.1	4.2	5.1	6.6	MG	ADV
Dancer	7.1	6.7	6.9	6.8	6.0	6.4	6.3	5.7	DG	DLF/PC
Concerto	6.8	6.9	6.8	7.3	5.6	6.9	6.7	6.0	DG	BAR ADV
Advent	7.0	6.7	6.8	6.6	6.1	6.6	6.9	6.7	MG	CEB/PC
Greenstar	7.0	6.6	6.8	6.5	6.1	5.8	5.4	5.3	MG	RT
Plaisir	7.0	6.5	6.7	6.4	6.8	6.0	6.2	6.8	MG	PHL/Jns
Repell	6.3	7.1	6.7	6.3	5.4	6.4	5.6	6.4	DG	Fa*
Gator	6.8	6.5	6.7	5.0	5.4	6.3	6.8	5.4	MG	CEB
Disco	6.7	6.6	6.7	6.4	5.9	6.4	5.7	5.3	MG	ADV
Bardessa	6.8	6.5	6.7	6.0	6.4	6.3	6.1	6.9	MG	BAR
Dragon	6.6	6.7	6.7	6.0	6.9	6.3	5.8	5.9	MG	Ni
Darius	6.6	6.7	6.6	7.4	7.3	7.0	6.9	5.2	DG	BSH
Claudius	6.9	6.4	6.6	5.4	5.1	5.0	6.2	6.6	MG	BSH
Delaware Dwarf	6.3	6.9	6.6	6.2	5.9	6.6	6.9	6.2	MG	DLF/PC
Danilo	6.5	6.6	6.6	6.0	6.0	6.7	5.4	6.1	DG	DLF/PC
Tucson (LA)	6.6	6.4	6.5	7.0	6.9	6.6	7.5	7.4	MG	RT
Troubadour	6.6	6.3	6.5	5.7	6.4	5.8	5.9	5.6	DG	DLF/PC
Fancy	6.3	6.5	6.4	6.3	6.0	6.4	6.4	6.2	DG	PHL/Jns
Lex 86	5.9	6.9	6.4	7.4	6.8	6.6	6.7	5.2	MG	BSH
Renoir	6.1	6.7	6.4	6.2	6.1	5.6	6.3	5.3	DG	CEB
Chagall	6.4	6.4	6.4	5.6	6.0	4.7	5.1	6.3	DG	CEB
Evita	6.5	6.3	6.4	6.7	7.9	5.2	6.0	7.4	DG	CEB
Fragment	6.8	5.9	6.4	6.5	5.9	6.9	7.2	7.1	DG	ADV
Ballet	6.3	6.3	6.3	6.9	6.5	6.6	6.9	5.8	DG	Ni
Titus	6.7	6.0	6.3	6.6	7.5	7.1	5.6	5.8	MG	BSH
Taya	5.9	6.7	6.3	5.7	5.6	6.2	6.9	5.9	MG	DLF/PC
Caddy	6.2	6.2	6.2	6.0	5.5	6.5	5.5	6.1	DG	ADV
Sensation	6.1	6.4	6.2	5.5	6.8	3.5	5.8	7.3	DG	CEB
Loretanova	6.3	6.1	6.2	6.0	6.9	6.3	6.1	7.3	MG	BSH
Numan	6.2	6.2	6.2	6.5	5.9	6.6	5.9	5.7	MG	DLF/PC
Vienna	6.1	6.2	6.2	5.2	6.2	5.7	5.7	6.3	MG	ADV
Barmona	6.0	6.3	6.2	6.9	6.6	5.8	6.3	5.2	DG	BAR

Table 1.1 continued on next page

* Freely available

TABLE 1.1 Continued
PERENNIAL RYEGRASS (*Lolium perenne*) FOR WINTER PITCHES
(SOCCER, RUGBY etc)

Cultivar	Wear tolerance		Mean	Shoot density	Fineness of leaf	Cleansness of cut	Slow regrowth (regular mowing)	Freedom from red thread	Winter greenness	UK agent
	Low N	High N								
Chaparral	6.2	5.9	6.1	6.3	6.1	7.0	6.9	6.3	MG	TS
Superstar	6.1	5.9	6.0	6.9	6.4	3.9	5.7	5.7	MG	Ni
Mondial	6.1	5.9	6.0	5.0	4.6	6.3	6.0	6.2	MG	ADV
Lisabelle	6.0	5.9	5.9	6.1	6.5	5.1	5.3	6.4	LG	PHL/Jns
Score	6.0	5.8	5.9	4.6	4.3	3.0	4.8	4.4	MG	DLF/PC
Sauvignon	5.6	6.2	5.9	7.9	8.4	6.8	6.2	4.2	DG	DLF/PC
Queens	5.8	5.9	5.8	6.2	5.6	6.0	6.3	6.0	MG	Ni
Talgo	5.6	6.0	5.8	5.6	6.3	6.3	5.5	6.0	MG	BSH
Flair	6.0	5.5	5.8	5.9	6.5	4.7	5.6	6.0	MG	Ni
Capri	5.5	6.0	5.8	6.2	6.4	5.9	5.9	7.0	MG	DLF/PC
Merci	6.2	5.3	5.7	8.1	7.4	6.0	6.4	6.3	DG	Ni
Ace	5.6	5.8	5.7	7.4	7.7	7.2	6.3	6.8	MG	Ni
Lorina	5.8	5.6	5.7	6.2	6.8	7.6	6.8	5.0	MG	BSH
Barrage	5.6	5.7	5.7	4.8	4.1	5.2	6.0	7.0	DG	BAR
Dali	5.5	5.8	5.6	7.9	7.5	6.8	5.9	5.6	MG	PHL/Jns
Elka	5.7	5.1	5.4	7.4	7.5	7.1	6.6	6.0	MG	CEB
Juwel	4.9	5.1	5.0	4.8	4.5	4.4	5.9	5.3	MG	PHL/Jns
Barcredo	4.9	4.8	4.9	6.0	6.4	6.9	5.6	5.8	MG	BAR
Gerona	4.8	4.8	4.8	5.3	5.3	5.5	5.3	5.8	DG	ADV
New Cultivar										
Greenfair	7.6	7.3	7.4	7.7	7.3	6.4	7.4	7.2	DG	Ni
Action	7.9	7.0	7.4	6.7	7.6	6.1	5.9	7.3	MG	Ni
Imagine	7.6	7.1	7.4	6.4	5.8	5.9	8.8	5.4	MG	PHL/Jns
Romance	6.8	7.1	7.0	7.1	5.9	5.4	6.2	6.0	DG	BAR
Greenway	6.8	7.1	7.0	8.2	8.1	6.2	6.8	5.7	DG	Ni
Margarita	7.3	6.6	6.9	6.2	7.8	5.4	5.6	6.2	DG	DLF/PC
Sanremo	6.7	6.9	6.8	5.3	6.0	6.8	6.8	6.9	MG	ADV
Bargold	6.4	6.3	6.4	7.9	9.0	7.6	7.1	7.3	DG	BAR
Twingo	6.2	6.3	6.2	6.5	7.7	6.7	6.9	7.0	MG	ADV
Cyrus (LA)	6.1	6.4	6.2	5.7	6.8	5.0	5.8	7.3	MG	

TABLE 1.2
PERENNIAL RYEGRASS (*Lolium perenne*) FOR LAWNS,
LANDSCAPING, CRICKET FIELDS etc.

Important: Read pages 2 and 3 before evaluating cultivars.

Cultivar	Tolerance of close mowing	Shoot density	Fineness of leaf	Slow regrowth (regular mowing)	Mean	Cleanness of cut	Short growth (in-frequent mowing)	Freedom from red thread	Summer greenness	Winter greenness	UK agent
AberImp	8.8	10.4	6.3	7.9	8.3	7.0	7.5	5.0	MG	MG	BSH
Sauvignon	8.2	9.3	8.4	6.2	8.0	6.8	6.8	4.2	MG	DG	DLF/PC
Evita	8.2	8.4	7.9	6.0	7.6	5.2	5.9	7.4	DG	DG	CEB
Ace	7.7	8.0	7.7	6.3	7.4	7.2	7.2	6.8	MG	MG	Ni
AberElf	8.5	8.4	6.7	5.9	7.4	6.8	7.7	6.2	DG	DG	BSH
Amadeus	7.6	7.7	7.1	6.6	7.2	6.9	6.3	6.8	MG	DG	ADV
Darius	7.4	7.2	7.3	6.9	7.2	7.0	7.9	5.2	DG	DG	BSH
Bellevue	7.3	7.4	7.5	6.6	7.2	6.6	7.0	6.8	DG	DG	PHL/Jns
Tucson (LA)	7.1	7.2	6.9	7.5	7.2	6.6	7.6	7.4	MG	MG	RT
Merci	7.6	7.1	7.4	6.4	7.1	6.0	7.2	6.3	MG	DG	Ni
Elka	7.3	7.1	7.5	6.6	7.1	7.1	7.4	6.0	MG	MG	CEB
Bareine	6.7	6.6	7.8	7.3	7.1	6.3	7.0	4.2	MG	MG	BAR
Dali	7.5	7.4	7.5	5.9	7.1	6.8	6.7	5.6	MG	MG	PHL/Jns
Lorina	7.3	7.4	6.8	6.8	7.1	7.6	7.9	5.0	MG	MG	BSH
Ritmo	7.5	7.1	6.8	6.7	7.0	7.0	5.6	7.4	DG	DG	PHL/Jns
Plaisir	7.5	7.3	6.8	6.2	6.9	6.0	6.1	6.8	MG	MG	PHL/Jns
Ballet	7.3	6.5	6.5	6.9	6.8	6.6	7.4	5.8	MG	DG	Ni
Lex 86	6.6	6.8	6.8	6.7	6.7	6.6	6.6	5.2	MG	MG	BSH
Fragment	6.8	6.9	5.9	7.2	6.7	6.9	5.9	7.1	MG	DG	ADV
Titus	7.0	6.5	7.5	5.6	6.6	7.1	6.9	5.8	DG	MG	BSH
Dragon	7.1	6.8	6.9	5.8	6.6	6.3	6.5	5.9	DG	MG	Ni
Barlouise (LA)	7.3	6.5	5.5	7.3	6.6	6.5	7.4	8.4	MG	MG	BAR
Livonne	7.0	7.0	6.6	5.8	6.6	6.3	6.0	5.6	DG	MG	PHL/Jns
Loretta nova	6.7	6.7	6.9	6.1	6.6	6.3	6.4	7.3	MG	MG	BSH
Sensation	6.9	6.8	6.8	5.8	6.6	3.5	5.5	7.3	MG	DG	CEB
Elegana	6.6	6.8	7.4	5.5	6.5	6.9	5.9	4.7	LG	MG	PHL/Jns
Barmona	6.5	6.7	6.6	6.3	6.5	5.8	5.9	5.2	LG	DG	BAR
Advent	6.5	6.6	6.1	6.9	6.5	6.6	6.1	6.7	LG	MG	CEB/PC
Bardessa	6.8	6.6	6.4	6.1	6.5	6.3	6.1	6.9	MG	MG	BAR
Essence	6.0	6.3	7.0	6.4	6.4	6.5	5.6	5.3	LG	MG	CEB
Dancer	6.5	6.7	6.0	6.3	6.4	6.4	6.6	5.7	MG	DG	DLF/PC
Renoir	6.6	6.4	6.1	6.3	6.4	5.6	5.8	5.3	MG	DG	CEB
Flair	6.7	6.6	6.5	5.6	6.4	4.7	5.9	6.0	MG	MG	Ni
Superstar	6.7	6.5	6.4	5.7	6.4	3.9	6.0	5.7	MG	MG	Ni
Concerto	6.5	6.4	5.6	6.7	6.3	6.9	5.2	6.0	DG	DG	BAR
Jade (LA)	6.4	5.9	6.3	6.2	6.2	5.8	6.9	7.3	MG	MG	PHL/Jns
Delaware Dwarf	6.0	6.0	5.9	6.9	6.2	6.6	5.3	6.2	LG	MG	DLF/PC
Greenstar	6.6	6.5	6.1	5.4	6.1	5.8	6.4	5.3	DG	MG	RT
Disco	6.6	6.3	5.9	5.7	6.1	6.4	5.8	5.3	DG	MG	ADV
Danilo	6.3	6.6	6.0	5.4	6.1	6.7	6.1	6.1	MG	DG	DLF/PC
Chaparral	5.5	5.8	6.1	6.9	6.1	7.0	7.3	6.3	LG	MG	TS
Queens	6.2	6.2	5.6	6.3	6.1	6.0	6.0	6.0	MG	MG	Ni

Table 1.2 continued on next page

TABLE 1.2 Continued
PERENNIAL RYEGRASS (*Lolium perenne*) FOR LAWNS,
LANDSCAPING, CRICKET FIELDS etc.

Cultivar	Tolerance of close mowing	Shoot density	Fineness of leaf	Slow regrowth (regular mowing)	Mean	Cleanmess of cut	Short growth (in-frequent mowing)	Freedom from red thread	Summer greenness	Winter greenness	UK agent
Lisabelle	6.3	6.1	6.5	5.3	6.1	5.1	6.0	6.4	MG	LG	PHL/Jns
Numan	6.0	6.3	5.9	5.9	6.0	6.6	5.4	5.7	MG	MG	DLF/PC
Capri	6.0	5.9	6.4	5.9	6.0	5.9	5.0	7.0	DG	MG	DLF/PC
Verdi	5.7	6.0	5.2	7.1	6.0	6.2	6.2	5.4	LG	MG	PHL/Jns
Vienna	6.1	5.9	6.2	5.7	6.0	5.7	5.9	6.3	MG	MG	ADV
Chagall	6.6	6.2	6.0	5.1	6.0	4.7	6.0	6.3	MG	DG	CEB
Barcredo	6.0	5.9	6.4	5.6	6.0	6.9	6.0	5.8	DG	MG	BAR
Ronja	5.0	5.4	7.3	6.2	6.0	7.0	5.7	5.6	MG	MG	SW
Troubadour	5.9	5.7	6.4	5.9	6.0	5.8	5.6	5.6	MG	DG	DLF/PC
Eden	6.6	6.4	4.8	5.7	5.9	6.1	7.7	5.8	DG	DG	Ni
Caddy	6.0	6.3	5.5	5.5	5.9	6.5	5.9	6.1	MG	DG	ADV
Talgo	5.8	5.7	6.3	5.5	5.8	6.3	5.4	6.0	MG	MG	BSH
Barlinda	5.9	5.6	6.1	5.7	5.8	5.2	6.3	5.4	MG	DG	BAR
Fancy	5.4	5.2	6.0	6.4	5.8	6.4	5.4	6.2	MG	DG	PHL/Jns
Taya	5.2	5.3	5.6	6.9	5.8	6.2	5.4	5.9	MG	MG	DLF/PC
Gator	5.3	5.4	5.4	6.8	5.7	6.3	5.4	5.4	MG	MG	CEB
Sabor	5.4	5.5	6.5	5.2	5.7	6.9	6.9	5.9	DG	MG	BAR
Repell	5.6	5.8	5.4	5.6	5.6	6.4	5.7	6.4	MG	DG	Fa*
Claudius	5.7	5.2	5.1	6.2	5.6	5.0	7.3	6.6	MG	MG	BSH
Kelvin	5.8	5.4	5.0	5.9	5.5	6.9	6.6	7.0	DG	DG	ADV
Allegro	5.4	5.4	5.0	6.2	5.5	6.2	6.0	5.2	MG	MG	DLF/PC
Gerona	5.0	5.3	5.3	5.3	5.2	5.5	5.9	5.8	DG	DG	ADV
Mondial	5.1	5.1	4.6	6.0	5.2	6.3	6.2	6.2	MG	MG	ADV
Barrage	5.1	4.9	4.1	6.0	5.0	5.2	4.8	7.0	MG	DG	BAR
Score	4.8	4.9	4.3	4.8	4.7	3.0	5.4	4.4	MG	MG	DLF/PC
Master	4.2	4.5	4.1	5.1	4.5	4.2	4.8	6.6	MG	MG	ADV
New Cultivars											
Bargold	8.8	8.3	9.0	7.1	8.3	7.5	7.6	7.3	DG	DG	BAR
Greenway	7.9	7.5	8.1	6.8	7.6	6.2	6.5	5.7	MG	DG	Ni
Greenfair	7.6	7.2	7.3	7.4	7.4	6.4	6.3	7.2	DG	DG	Ni
Margarita	8.1	7.3	7.8	5.6	7.2	5.4	7.4	6.2	DG	DG	DLF/PC
Twingo	7.4	6.7	7.7	6.9	7.2	6.7	6.4	7.0	MG	MG	ADV
Bartwingo (LA)	6.8	6.8	8.4	6.3	7.1	7.5	6.5	6.5	DG	LG	BAR
Action	7.3	6.4	7.6	5.9	6.8	6.1	5.4	7.3	DG	MG	Ni
Imagine	5.6	6.9	5.8	8.8	6.8	5.9	6.1	5.4	LG	MG	PHL/Jns
Sanremo	6.8	6.4	6.0	6.8	6.5	6.8	6.5	6.9	MG	MG	ADV
Cyrus (LA)	7.0	6.2	6.8	5.8	6.4	5.0	5.6	7.3	MG	MG	
Romance	5.7	5.3	5.9	6.2	5.8	5.4	4.9	6.0	LG	DG	BAR

* Freely available

CHEWINGS FESCUES AND SLENDER CREEPING RED FESCUES (TABLES 2.1, 2.2, 3.1 AND 3.2)

Cultivars of Chewings fescue and slender creeping red fescue are shown in order of their suitability for use in very close mown turf (golf and bowling greens mown at 5 mm) and for more general uses such as lawns and golf fairways. The order for very close mown turf was determined from the mean of each cultivar's tolerance of close mowing and shoot density scores (Tables 2.1 and 3.1). For general turf, the cultivars have been placed in order of shoot density (Tables 2.2 and 3.2). The new cultivar section of each table 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, excluding shoot density scores, are comparable between all red fescue tables.** 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 red fescue. The ratings for shoot density in Tables 2.1 and 3.1 were calculated from

measurements made on trials mown at 5 mm. Ratings in Tables 2.2 and 3.2 are based on measurements made on trials mown at 13 mm.

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 important 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.

In addition to differences among cultivars, there are some general subspecies differences among the red fescues. Chewings fescues, in comparison with slender creeping red fescues, tend to be more resistant to diseases. They also tend to "green up" faster in the spring. The slender creeping red fescues are more drought tolerant and maintain colour and growth better in the autumn and early winter. Both Chewings and slender creeping red fescues are more tolerant of closer mowing than strong creeping red fescues and produce denser turf at all heights of cut.

TABLE 2.1
CHEWINGS FESCUE (*Festuca rubra* ssp. *commutata*) FOR USE IN
GOLF GREENS AND BOWLING GREENS

Important: Read pages 2 and 8 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	7.3	7.6	7.4	6.4	7.2	7.5	MG	MG	CEB
Raisa	7.1	7.6	7.3	6.9	6.8	7.3	MG	MG	BSH
Frida	6.9	7.4	7.2	6.9	7.1	7.1	MG	MG	BSH
Bargreen	7.1	7.1	7.1	7.1	7.3	7.0	DG	MG	BAR
Nimrod	7.0	7.2	7.1	6.7	6.2	6.9	DG	MG	PHL/Jns
Lobi	6.9	7.2	7.0	6.1	7.0	6.5	MG	MG	PHL/Jns
Trophy	7.1	6.9	7.0	6.7	7.4	7.4	DG	MG	CEB
Nadia	6.9	6.9	6.9	7.2	7.4	7.7	DG	LG	SW
Trump	6.9	6.9	6.9	6.2	6.3	5.4	DG	DG	Ni
Waldorf	6.8	7.0	6.9	5.9	7.6	7.3	MG	MG	ADV
Darwin	7.0	6.8	6.9	7.0	6.3	6.9	MG	LG	CEB/PC
Baruba	6.9	6.9	6.9	6.2	7.3	7.0	DG	MG	BAR
Olivia	6.7	6.8	6.7	6.9	6.5	6.4	DG	MG	BSH
Rainbow	6.8	6.6	6.7	6.7	7.1	7.0	MG	MG	ADV
Atlanta	6.7	6.7	6.7	6.5	5.9	5.4	MG	MG	ADV
Rossini	6.5	6.8	6.6	7.1	7.1	7.3	MG	MG	CEB
Bingo	6.7	6.6	6.6	6.1	6.1	6.5	MG	MG	Ni
Melody	6.5	6.7	6.6	6.5	7.0	6.4	MG	MG	Fa*
Baroxi	6.5	6.7	6.6	7.4	7.3	7.0	MG	MG	BAR
Wilma	6.7	6.5	6.6	5.9	6.1	6.1	MG	MG	SW
Alice (LA)	6.4	6.7	6.6	5.6	6.8	6.8	MG	MG	ADV
Roulette	6.6	6.5	6.5	6.9	7.4	7.2	MG	MG	Ni
Simone	6.4	6.6	6.5	6.2	6.8	6.5	MG	MG	DLF/PC
Quinta (LA)	6.5	6.3	6.4	6.9	7.1	7.6	MG	LG	Ni
Licato	6.4	6.3	6.4	6.0	7.0	6.6	MG	MG	PHL
Raymond	6.2	6.2	6.2	5.9	6.8	6.3	MG	MG	ADV
Lifalla	6.1	5.7	5.9	6.4	7.5	7.5	MG	MG	PHL/Jns
New Cultivars									
Calliope	7.0	8.2	7.6	7.1	5.9	7.2	DG	LG	Ni
Belleaire	6.9	6.8	6.8	5.9	5.8	6.2	DG	MG	Ni
Lucinda	6.2	6.7	6.5	6.3	6.3	6.6	DG	LG	

* Freely available

TABLE 2.2
**CHEWINGS FESCUE (*Festuca rubra* ssp. *commutata*) FOR LAWNS,
 GOLF FAIRWAYS AND LANDSCAPING**

Important: Read pages 2 and 8 before evaluating cultivars.

Cultivar	Shoot density	Short growth	Freedom from red thread	Freedom from dollar spot	Summer greenness	Winter greenness	UK agent
Raisa	7.9	6.9	6.8	7.3	MG	MG	BSH
Baroxi	7.8	7.4	7.3	7.0	MG	MG	BAR
Center	7.7	6.4	7.2	7.5	MG	MG	CEB
Frida	7.5	6.9	7.1	7.1	MG	MG	BSH
Nimrod	7.5	6.7	6.2	6.9	DG	MG	PHL/Jns
Lobi	7.5	6.1	7.0	6.5	MG	MG	PHL/Jns
Bargreen	7.3	7.1	7.3	7.0	DG	MG	BAR
Trump	7.2	6.2	6.3	5.4	DG	DG	Ni
Rossini	7.2	7.1	7.1	7.3	MG	MG	CEB
Darwin	7.1	7.0	6.3	6.9	MG	LG	CEB/PC
Waldorf	7.1	5.9	7.6	7.3	MG	MG	ADV
Alice (LA)	7.1	5.6	6.8	6.8	MG	MG	ADV
Nadia	7.0	7.2	7.4	7.7	DG	LG	SW
Olivia	7.0	6.9	6.5	6.4	DG	MG	BSH
Baruba	6.9	6.2	7.3	7.0	DG	MG	BAR
Rainbow	6.8	6.7	7.1	7.0	MG	MG	ADV
Simone	6.8	6.2	6.8	6.5	MG	MG	DLF/PC
Trophy	6.8	6.7	7.4	7.4	DG	MG	CEB
Atlanta	6.6	6.5	5.9	5.4	MG	MG	ADV
Bingo	6.5	6.1	6.1	6.5	MG	MG	Ni
Melody	6.5	6.5	7.0	6.4	MG	MG	Fa*
Roulette	6.5	6.9	7.4	7.2	MG	MG	Ni
Carina	6.4	5.0	7.0	7.1	MG	MG	DLF/PC
Wilma	6.1	5.9	6.1	6.1	MG	MG	SW
Licato	6.1	6.0	7.0	6.6	MG	MG	PHL
Lifalla	6.0	6.4	7.5	7.5	MG	MG	PHL/Jns
Raymond	5.9	5.9	6.8	6.3	MG	MG	ADV
New Cultivars							
Calliope	7.5	7.1	5.9	7.2	DG	LG	Ni
Lucinda	6.7	6.3	6.3	6.6	DG	LG	
Belleaire	6.6	5.9	5.8	6.2	DG	MG	Ni

* Freely available

TABLE 3.1
SLENDER CREEPING RED FESCUES (*Festuca rubra* ssp. *litoralis* etc.)
FOR USE IN GOLF GREENS AND BOWLING GREENS

Important: Read pages 2 and 8 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	8.2	8.9	8.5	7.6	8.1	7.3	DG	DG	BAR
Cezanne	8.1	8.7	8.4	7.8	6.7	6.7	DG	DG	CEB
Barpearl	7.8	8.1	8.0	7.6	7.6	7.6	DG	DG	BAR
Mocassin	7.8	8.1	8.0	6.3	7.6	7.6	DG	DG	ADV
Carousel	7.6	7.7	7.6	7.1	5.2	5.8	DG	DG	ADV
Barskol	7.6	7.3	7.4	6.2	5.5	6.4	DG	DG	BAR
Helena	7.1	7.7	7.4	6.3	5.3	5.7	DG	MG	Ni
Javelin (LA)	7.4	7.1	7.3	6.9	6.8	7.4	DG	DG	PHL/Jns
Smirna	7.2	7.2	7.2	6.7	5.7	5.8	DG	MG	DLF/PC
Oriflamme	7.1	7.1	7.1	5.8	5.7	5.4	DG	MG	ADV
Jupiter	7.1	7.1	7.1	6.7	6.0	5.9	DG	DG	PHL/Jns
Estica	6.9	7.1	7.0	6.5	5.1	5.6	DG	MG	CEB
Liprosa	6.8	6.9	6.9	6.5	5.2	5.9	DG	DG	PHL/Jns
Libano	6.8	6.9	6.9	6.0	5.3	5.3	MG	MG	PHL/Jns
Symphony	6.8	6.7	6.7	6.3	6.5	6.3	DG	MG	Ni
Cinderella	6.7	6.7	6.7	6.3	5.7	5.7	MG	MG	DLF/PC
Dawson	6.7	6.7	6.7	5.6	5.4	5.6	DG	DG	ADV
Lovisa	6.7	6.5	6.6	6.2	5.2	5.6	MG	MG	SW
Samanta	6.7	6.4	6.6	6.1	5.8	5.7	DG	MG	CEB
Rufilla	6.3	6.4	6.3	5.1	6.2	6.1	DG	MG	BSH
Suzette	6.4	6.1	6.3	5.1	5.6	6.0	DG	DG	DLF/PC
New Cultivars									
Leonora (LA)	7.8	7.6	7.7	5.4	5.8	6.4	DG	DG	DLF/PC

TABLE 3.2
SLENDER CREEPING RED FESCUES (*Festuca rubra* ssp. *litoralis* etc.)
FOR LAWNS, GOLF FAIRWAYS AND LANDSCAPING

Important: Read pages 2 and 8 before evaluating cultivars.

Cultivar	Shoot density	Short growth	Freedom from red thread	Freedom from dollar spot	Summer greenness	Winter greenness	UK agent
Barcrown	9.3	7.6	8.1	7.3	DG	DG	BAR
Cezanne	8.6	7.8	6.7	6.7	DG	DG	CEB
Barpearl	8.4	7.6	7.6	7.6	DG	DG	BAR
Mocassin	8.0	6.3	7.6	7.6	DG	DG	ADV
Javelin (LA)	7.7	6.9	6.8	7.4	DG	DG	PHL/Jns
Helena	7.6	6.3	5.3	5.7	DG	MG	Ni
Carousel	7.6	7.1	5.2	5.8	DG	DG	ADV
Smirna	7.3	6.7	5.7	5.8	DG	MG	DLF/PC
Estica	7.0	6.5	5.1	5.6	DG	MG	CEB
Jupiter	7.0	6.7	6.0	5.9	DG	DG	PHL/Jns
Barskol	7.0	6.2	5.5	6.4	DG	DG	BAR
Liprosa	6.9	6.5	5.2	5.9	DG	DG	PHL/Jns
Cinderella	6.8	6.3	5.7	5.7	MG	MG	DLF/PC
Oriflamme	6.8	5.8	5.7	5.4	DG	MG	ADV
Libano	6.7	6.0	5.3	5.3	MG	MG	PHL/Jns
Symphony	6.7	6.3	6.5	6.3	DG	MG	Ni
Lovisa	6.4	6.2	5.2	5.6	MG	MG	SW
Dawson	6.3	5.6	5.4	5.6	DG	DG	ADV
Suzette	6.2	5.1	5.6	6.0	DG	DG	DLF/PC
Samanta	6.1	6.1	5.8	5.7	DG	MG	CEB
Rufilla	5.8	5.1	6.2	6.1	DG	MG	BSH
New Cultivars							
Leonora (LA)	7.5	5.4	5.8	6.4	DG	DG	DLF/PC

STRONG CREEPING RED FESCUES (TABLE 4)

Strong creeping red fescues are shown in order of their suitability for use in general landscaping, lawns 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.

It should be noted that cultivars of strong creeping red fescue are not

generally suitable for use in very close mown turf (cutting height less than 13 mm). Also, in comparison with Chewings and slender creeping red fescues, they tend to produce a faster growing and a more open sward at other heights of cut. Please note that a more open sward may be desirable in some situations. In this regard, it may be easier to encourage the development of indigenous grasses and wild flowers in such swards.

TABLE 4
STRONG CREEPING RED FESCUE (*Festuca rubra* ssp. *rubra*)
 Important: Read pages 2 and 12 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	5.6	5.5	7.1	6.0	4.6	5.3	MG	LG	DLF/PC
Hollywood	5.6	5.7	6.0	5.8	5.2	5.4	MG	MG	Ni
Salsa	5.3	5.6	6.0	5.6	5.2	5.0	MG	MG	BAR
Cindy	5.3	5.2	6.1	5.5	5.3	5.5	MG	MG	CEB
Aniset	5.0	5.1	6.2	5.4	4.7	4.5	LG	LG	DLF/PC
Felix	4.9	4.8	6.5	5.4	5.1	4.9	LG	MG	ADV
Herald	5.4	5.2	5.7	5.4	4.8	5.2	MG	MG	CEB
Picnic	5.3	5.3	5.7	5.4	5.2	4.9	LG	MG	RT
Jasper	5.1	5.0	5.7	5.3	5.0	5.3	MG	MG	BSH
Pernille	5.2	5.1	5.1	5.1	5.0	5.0	MG	MG	DLF/PC
Camilla	5.2	5.0	5.1	5.1	5.4	5.0	MG	MG	
Gentil	5.0	5.0	5.2	5.1	5.0	4.9	LG	MG	ADV
Corail	4.7	5.2	5.1	5.0	4.8	5.2	MG	MG	CEB
Rumba	5.1	5.0	4.9	5.0	5.4	5.0	LG	MG	BAR
Sunset	4.4	4.9	5.5	4.9	5.2	5.3	LG	LG	Ni
Kristina	4.7	4.6	5.5	4.9	4.4	4.5	LG	MG	SW
Franklin	4.6	4.7	5.0	4.7	5.0	5.1	LG	MG	ADV
Sylvia	4.4	4.5	4.8	4.6	4.6	4.9	LG	MG	SW
Boreal	4.7	4.5	4.1	4.4	4.5	4.6	LG	MG	Fa*
				*					
New Cultivars									
Mystic (LA)	5.5	5.1	5.6	5.4	5.6	4.3	LG	DG	Ni
Lambda (LA)	5.1	4.9	6.0	5.3	4.9	4.8	MG	MG	Fa*

* Freely available

**MISCELLANEOUS FINE FESCUES
(TABLE 5)**

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. They are also suited to low maintenance conditions and may be of value in environmentally sensitive areas, particularly where the natural grasses are of the same species. Please note that sheep's and fine-leaved sheep's fescues tend to grow in different

directions and as such do not produce a uniform sward. Also, most of these grasses have been found to be fairly intolerant of wear and as a result should only be considered for use in ornamental and low maintenance areas. In contrast, the cultivar of sheep's fescue (Quatro) has been found to be fairly wear tolerant. In golf and bowling green trials at the STRI this cultivar has been shown to have comparable wear tolerance to Chewings and slender creeping red fescues.

TABLE 5
MISCELLANEOUS FESCUES (*Festuca* spp.)
Important: Read pages 2 and 13 before evaluating cultivars.

Cultivar	Shoot density	Short growth	Freedom from red thread	Summer greenness	Winter greenness	UK agent
Hard fescue						
(<i>F. longifolia</i>)						
Crystal	7.9	7.4	6.7	MG	MG	ADV
Pintor	6.1	6.9	5.4	MG	MG	BSH
Pamela	6.1	5.8	6.3	DG	MG	DLF/PC
Bardur	6.1	7.0	7.5	DG	DG	BAR
Serra	5.9	4.3	6.9	MG	MG	Fa*
Nordic	5.5	4.9	5.9	DG	MG	CEB
Triana	4.0	4.5	4.8	LG	LG	DLF/PC
New Cultivars						
Discovery	6.5	6.2	–	DG	MG	Ni
Reliant II	6.4	6.8	–	DG	MG	Fa*
Fine-leaved sheep's fescue (<i>F. tenuifolia</i>)						
Barok	8.1	6.2	4.3	MG	MG	BAR
Sheep's fescue (<i>F. ovina</i>)						
Quatro	8.4	7.5	8.4	DG	DG	CEB/PHL

* Freely available

BROWNTOP, VELVET AND CREEPING BENTS (TABLES 6.1 AND 6.2)

Cultivars of browntop bent (*Agrostis tenuis*) and creeping bent (*A. stolonifera*) are listed in order of their suitability for use in very close mown turf, such as golf and bowling greens (Table 6.1), and for use in more general turf such as ornamental lawns and golf fairways (Table 6.2). The new cultivar section of these lists in-

cludes cultivars that have recently become available but have only been tested in the latest STRI trials.

Velvet bentgrass produces exceptionally dense turf and generally has better drought tolerance than the other bentgrass species. However, it also produces more thatch than other bents and this would need to be controlled to maintain the very good surface which

TABLE 6.1
BROWNTOP, VELVET AND CREEPING BENTS (*Agrostis* spp.) FOR USE IN VERY CLOSE MOWN TURF (GOLF AND BOWLING GREENS)

Important: Read pages 2, 14 and 15 before evaluating cultivars.

Cultivar	Shoot density	Fineness of leaf	Short growth	Freedom from red thread	Summer greenness	Winter greenness	UK agent
<i>A. tenuis</i>							
Heriot	7.3	7.4	6.8	5.4	MG	DG	BAR
Lance	7.3	7.1	7.0	6.1	MG	MG	PHL/Jns
Sefton	7.2	7.3	5.6	4.7	MG	DG	ADV
Egmont	7.1	6.9	6.9	6.1	MG	DG	Ni
Denso	7.0	7.1	6.6	6.5	MG	MG	CEB/PC
Bardot	6.5	7.1	6.6	6.2	MG	MG	BAR
Duchess	6.3	6.9	6.2	5.7	MG	MG	BSH
Tracenta	5.4	6.0	6.3	5.3	MG	MG	ADV
Orient	5.3	5.4	5.2	6.1	MG	DG	PHL/Jns
Litenta	5.3	6.3	4.6	6.4	MG	MG	PHL/Jns
Vivaldi	4.9	5.3	6.2	5.7	MG	MG	DLF/PC
New Cultivars							
Radiance (LA)	5.8	5.9	5.9	6.6	MG	MG	TS
<i>A. castellana</i>							
Highland	4.9	5.0	3.2	4.3	LG	DG	Fa*
<i>A. canina</i>							
Avalon	9.8	8.5	6.6	4.1	DG	DG	BSH
<i>A. stolonifera</i>							
Penn A1	7.1	5.7	6.3	6.7	MG	MG	TS
Bueno	6.6	5.4	6.1	5.6	LG	LG	Ni
Barifera	6.1	5.8	7.4	6.2	MG	LG	BAR
Providence	6.0	5.5	6.4	6.4	MG	MG	BSH
Crenshaw	5.7	5.3	6.0	6.3	MG	MG	Fa*
Penneagle	5.6	5.0	6.4	7.2	MG	MG	TS
Cobra	5.6	5.2	6.0	7.2	MG	MG	CEB
Penncross	5.5	5.7	6.6	6.5	MG	MG	TS
Pennlinks	5.2	5.0	6.2	6.5	MG	LG	TS
Oasis	5.1	5.3	7.7	6.4	LG	MG	Ni
Prominent	4.7	4.9	5.2	7.2	MG	MG	Ni
New Cultivars							
Penn G-6	7.0	6.1	7.4	6.1	MG	MG	TS
Penn A-4	6.5	5.9	6.0	6.7	MG	MG	TS
L 93	5.5	5.7	6.6	6.8	LG	MG	Fa*

* Freely available

this grass can produce.

'Highland' browntop bent is generally acceptable for most UK situations in which bent is sown and seed of this species is usually readily available. However, for very fine turf such as golf

greens and bowling greens the finer and denser cultivars of *A. tenuis* should be used in preference to 'Highland'. In other situations the appearance and disease resistance of bentgrass turf can be greatly improved by replacing some or all of its 'Highland' content

TABLE 6.2
BROWNTOP, VELVET AND CREEPING BENTS (*Agrostis* spp.) FOR
USE IN LAWNS, GOLF FAIRWAYS AND LANDSCAPING

Important: Read pages 2, 14 and 15 before evaluating cultivars.

Cultivar	Shoot density	Fineness of leaf	Short growth	Freedom from red thread	Summer greenness	Winter greenness	UK agent
<i>A. tenuis</i>							
Heriot	7.2	7.4	6.8	5.4	MG	DG	BAR
Lance	7.1	7.1	7.0	6.1	MG	MG	PHL/Jns
Denso	6.8	7.1	6.6	6.5	MG	MG	CEB/PC
Egmont	6.7	6.9	6.9	6.1	MG	DG	Ni
Sefton	6.7	7.3	5.6	4.7	MG	DG	ADV
Bardot	6.5	7.1	6.6	6.2	MG	MG	BAR
Duchess	6.0	6.9	6.2	5.7	MG	MG	BSH
Orient	5.7	5.4	5.2	6.1	MG	DG	PHL/Jns
Tracenta	5.4	6.0	6.3	5.3	MG	MG	ADV
Litenta	5.2	6.3	4.6	6.4	MG	MG	PHL/Jns
Vivaldi	4.7	5.3	6.2	5.7	MG	MG	DLF/PC
New Cultivars							
Radiance (LA)	5.6	5.9	5.9	6.6	MG	MG	TS
<i>A. castellana</i>							
Highland	4.7	5.0	3.2	4.3	LG	DG	Fa*
<i>A. canina</i>							
Avalon	9.9	8.5	6.6	4.1	DG	DG	BSH
<i>A. stolonifera</i>							
Bueno	6.9	5.4	6.1	5.6	LG	LG	Ni
Providence	6.4	5.5	6.4	6.4	MG	MG	BSH
Penn A1	6.4	5.7	6.3	6.7	MG	MG	TS
Barifera	6.3	5.8	7.4	6.2	MG	LG	BAR
Penneagle	6.0	5.0	6.4	7.2	MG	MG	TS
Penncross	5.7	5.7	6.6	6.5	MG	MG	TS
Cobra	5.7	5.2	6.0	7.2	MG	MG	CEB
Crenshaw	5.6	5.3	6.0	6.3	MG	MG	Fa*
Prominent	5.3	4.9	5.2	7.2	MG	MG	Ni
Pennlinks	5.2	5.0	6.2	6.5	MG	LG	TS
Oasis	5.1	5.3	7.7	6.4	LG	MG	Ni
New Cultivars							
Penn G-6	7.1	6.1	7.4	6.1	MG	MG	TS
L 93	6.1	5.7	6.6	6.8	LG	MG	Fa*
Penn A-4	5.9	5.9	6.0	6.7	MG	MG	TS

* Freely available

with a finer browntop bent.

SMOOTH-STALKED MEADOW-GRASS (TABLES 7.1 AND 7.2)

Cultivars of smooth-stalked meadow-grass are shown in order of their performance under football-type wear for inclusion in winter pitches (Table 7.1), and for finer turf uses such as lawns and landscaping (Table 7.2).

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.

TABLE 7.1
SMOOTH-STALKED MEADOW-GRASS (*Poa pratensis*)
FOR USE IN WINTER PITCHES (SOCCER, RUGBY, etc.)
Important: Read pages 2 and 16 before evaluating cultivars.

Cultivar	Wear tolerance	Shoot density	Fineness of leaf	Slow regrowth (regular mowing)	Freedom from leaf spot	Orange stripe rust resistance	Summer greenness	Winter greenness	UK agent
Julia	7.6	6.4	6.1	5.2	7.1	6.3	MG	MG	BSH
Panduro	7.2	6.4	5.8	5.3	7.1	6.1	MG	MG	DLF/PC
Limousine	7.1	8.6	7.7	5.9	6.0	4.3	DG	MG	PHL/Jns
Haga	6.9	5.5	5.2	6.1	5.8	6.5	MG	MG	SW
Lily	6.9	5.3	4.6	6.6	4.6	5.5	DG	LG	PHL/Jns
Broadway	6.9	6.3	5.3	5.5	6.3	5.9	DG	MG	Ni
Barcelona	6.8	6.2	6.0	6.6	5.7	6.9	DG	MG	BAR
Miracle	6.7	7.1	5.8	6.7	4.3	7.2	DG	MG	CEB
Cocktail	6.7	7.6	7.7	6.0	6.3	6.2	DG	MG	ADV
Cesar	6.4	6.4	7.4	6.6	4.9	5.9	DG	MG	CEB
Cynthia	6.2	6.2	7.4	5.9	5.2	5.7	MG	MG	ADV
Saskia	5.7	6.3	6.7	5.7	6.1	6.6	DG	MG	ADV
Conni	5.7	6.9	6.6	6.2	5.5	6.1	DG	MG	DLF/PC
Elysee	5.3	6.4	7.2	7.7	6.4	7.4	DG	LG	Ni
Enprima	5.0	5.7	6.2	6.5	5.1	4.9	DG	LG	CEB
Opal	4.5	5.9	7.2	6.0	5.5	4.2	MG	LG	SW
New Cultivars									
Baronie	6.7	4.5	4.6	7.7	5.8	5.6	MG	MG	BAR
Ikone (LA)	6.6	6.2	6.0	6.2	8.2	6.9	MG	MG	RT
Samoa (LA)	6.4	5.3	4.7	5.6	7.7	7.2	MG	DG	
Princeton	6.0	4.9	5.1	6.2	6.3	6.9	MG	LG	Fa*
Lipatos	5.4	6.5	6.2	6.0	5.4	5.7	DG	MG	PHL/Jns

* Freely available

TABLE 7.2
SMOOTH-STALKED MEADOW-GRASS (*Poa pratensis*)
FOR USE IN LAWNS, LANDSCAPING, etc.

Important: Read pages 2 and 16 before evaluating cultivars.

Cultivar	Shoot density	Fineness of leaf	Mean	Slow regrowth (regular mowing)	Short growth (infrequent mowing)	Freedom from leaf spot	Orange stripe rust resistance	Summer greenness	Winter greenness	UK agent
Limousine	8.6	7.7	8.1	5.9	6.2	6.0	4.3	DG	MG	PHL/Jns
Cocktail	7.6	7.7	7.7	6.0	5.5	6.3	6.2	DG	MG	ADV
Cesar	6.4	7.4	6.9	6.6	6.2	4.9	5.9	DG	MG	CEB
Cynthia	6.2	7.4	6.8	5.9	6.3	5.2	5.7	MG	MG	ADV
Elysee	6.4	7.2	6.8	7.7	7.4	6.4	7.4	DG	LG	Ni
Conni	6.9	6.6	6.8	6.2	6.5	5.5	6.1	DG	MG	DLF/PC
Opal	5.9	7.2	6.5	6.0	6.2	5.5	4.2	MG	LG	SW
Saskia	6.3	6.7	6.5	5.7	6.4	6.1	6.6	DG	MG	ADV
Miracle	7.1	5.8	6.4	6.7	7.1	4.3	7.2	DG	MG	CEB
Lipoa	6.0	6.5	6.2	6.7	7.5	5.4	7.2	MG	MG	PHL
Julia	6.4	6.1	6.2	5.2	5.1	7.1	6.3	MG	MG	BSH
Barcelona	6.2	6.0	6.1	6.6	6.0	5.7	6.9	DG	MG	BAR
Panduro	6.4	5.8	6.1	5.3	5.3	7.1	6.1	MG	MG	DLF/PC
Enprima	5.7	6.2	6.0	6.5	5.7	5.1	4.9	DG	LG	CEB
Broadway	6.3	5.3	5.8	5.5	5.5	6.3	5.9	DG	MG	Ni
Haga	5.5	5.2	5.4	6.1	6.0	5.8	6.5	MG	MG	SW
Lily	5.3	4.6	5.0	6.6	5.5	4.6	5.5	DG	LG	PHL/Jns
New Cultivars										
Lipatos	6.5	6.2	6.3	6.0	6.2	5.4	5.7	DG	MG	PHL/Jns
Ikone (LA)	6.2	6.0	6.1	6.2	5.3	8.2	6.9	MG	MG	RT
Samoa (LA)	5.3	4.7	5.0	5.6	5.8	7.7	7.2	MG	DG	
Princeton	4.9	5.1	5.0	6.2	6.7	6.3	6.9	MG	LG	Fa*
Baronie	4.5	4.6	4.5	7.7	5.9	5.8	5.6	MG	MG	BAR

* Freely available

TALL FESCUE (TABLE 8)

Generally, cultivars of this grass form turf that would be acceptable for many coarse turf uses. However, they are no substitute for perennial ryegrass in normal turf situations in the UK. Tall fescues are slower in establishment, coarser in leaf texture and, as a result,

less attractive in appearance. They may, however, have a place under dry or low fertility conditions. Tall fescues have also been used successfully where fairly tall (6 to 8 inches) but still erect swards are desirable such as the grassed areas surrounding air fields.

TABLE 8
TALL FESCUE (*Festuca arundinacea*)

Important: Read pages 2 and 17 before evaluating cultivars.

Cultivar	Wear tolerance	Tolerance of close mowing	Shoot density	Fineness of leaf	Short growth	UK agent
Cochise	6.0	5.4	6.5	6.1	6.1	DLF/PC
New Cultivars						
Amalia	7.2	8.3	6.2	6.5	5.4	PHL/Jns
Farandole	6.1	6.7	9.1	6.2	7.8	TS

OTHER TURFGRASS SPECIES (TABLE 9)

This table lists the availability of minor turfgrass species. Please note that the performance of these grasses will differ from the more traditional amenity grass species and that these differences have yet to be fully determined. They should, therefore, be treated with some caution as their growth characteristics and susceptibility to disease will differ from more commonly used grass species. That

said, ratings are given which can be used to make some comparisons with grass species listed in other tables.

Note: The tufted hairgrass 'Barcampsia' differs from the grass listed under this name in previous years. For this grass, the original ecotype has been replaced by a new cultivar. The performance of the cultivar available now may differ from that of the grass sold in previous years.

TABLE 9
OTHER TURFGRASS SPECIES

Important: Read pages 2 and 18 before evaluating cultivars.

Cultivar (Species)	Wear tolerance	Shoot density	Fineness of leaf	Short growth	Slow regrowth	UK agent
<i>Koeleria cristata</i> ¹						
Barkoel	–	6.3	4.4	6.4	–	BAR
<i>Poa trivialis</i> ²						
Solo	5.8	8.6	7.8	–	8.4	PHL/Jns
<i>Poa supina</i> ²						
Supra	8.7	7.6	3.9	–	4.6	BSH
<i>Deschampsia caespitosa</i> ³						
Barcampsia	6.6	10.8	10.6	3.5	4.8	BAR
Voyager	6.5	7.0	7.3	2.6	7.0	Ni

¹ Performance ratings comparable with browntop and creeping bents, Table 6.2

² Performance ratings comparable with smooth-stalked meadow-grass, Table 7.1

³ Performance ratings comparable with perennial ryegrass, Tables 1.1 and 1.2

UK AGENTS

The seed merchants listed below are the primary agents for grasses listed in this booklet. Short codes have been given so that the grasses listed in the different tables can be cross-referenced with their suppliers.

- ADV** **Advanta Seeds UK Ltd.**, Sleaford, Lincs., NG34 7HA. ☎ 01529 304511. Fax: 01529 413137.
- BAR** **Barenbrug UK Ltd.**, 33 Perkins Road, Rougham Industrial Estate, Rougham, Bury St. Edmunds, Suffolk, IP30 9ND. ☎ 01359 272000. Fax: 01359 272001.
- BSH** **British Seed Houses Ltd.**, Camp Road, Witham St. Hughs, Lincoln, LN6 9QJ. ☎ 01522 868714. Fax: 01522 868382.
- CEB** **Cebeco Seeds**, The Old Wood South, Skellingthorpe, Lincoln, LN6 5UA. ☎ 01522 507300. Fax: 01522 507319.
- DLF/PHL** **DLF-Perryfields Ltd.**, Thorn Farm, Inkberrow, Worcestershire, WR7 4LJ. ☎ 01386 793135. Fax: 01386 792715.
- Jns** **Johnsons Sport and Amenity**, c/o Thorn Farm, Inkberrow, Worcestershire, WR7 4LJ. ☎ 01386 793135. Fax: 01386 792715.
- Ni** **Nickerson (UK) Ltd.**, Rothwell, Market Rasen, Lincolnshire, LN7 6DT. ☎ 01472 371220. Fax: 01472 371195.
- PC** **Pope & Chapman**, Woodside, Dunmow Road, Bishop's Stortford, Herts., CM23 5RG. ☎ 01279 653251. Fax: 01279 505849.
- RT** **Rigby Taylor Ltd.**, Rigby Taylor House, Garside Street, Bolton, Lancashire, BL1 4AE. ☎ 01204 377777. Fax: 01204 377715.
- SW** **Semundo Ltd.**, 49 North Road, Great Abington, Cambridge, CB1 6AS. ☎ 01223 890777. Fax: 01223 890666.
- TS** **Turf Seed UK Ltd.**, 46 Cameron Street, Heckington, Sleaford, Lincolnshire, NG34 9RP. ☎ 01529 469411. Fax: 01529 469410.

TURFGRASS BREEDERS REPRESENTATIVES' COMMITTEE

This body advises the STRI on matters relating to the Seed Trade. This includes use of the *Turfgrass Seed* booklet and all issues related to the availability and sale of amenity grasses in the UK.

Please note that this is not a complete list of seed suppliers. Names and addresses of all companies representing grasses listed in this booklet are provided on page 19.

Committee Members

- ADV** **Advanta Seeds UK Ltd.**, Sleaford, Lincs., NG34 7HA. ☎ 01529 304511. Fax: 01529 413137. Website: www.advantaseeds.co.uk
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- BSH** **British Seed Houses Ltd.**, Camp Road, Witham St. Hughs, Lincoln, LN6 9QJ. ☎ 01522 868714. Fax: 01522 868382. E-mail: seeds@bshlincoln.co.uk Website: www.britishseedhouses.com
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- TS** **Turf Seed UK Ltd.**, 46 Cameron Street, Heckington, Sleaford, Lincolnshire, NG34 9RP. ☎ 01529 469411. Fax: 01529 469410. E-mail: johnb@turf-seed.com Website: www.turf-seed.com

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