

STRI

BINGLEY

TURFGRASS SEED 1999

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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. 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 1999

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 1999, 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 16.

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.

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.

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.

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**

TABLE 1.1
PERENNIAL RYEGRASS FOR WINTER PITCHES (SOCCER, RUGBY etc)

Important: Read pages 2 and 3 before evaluating cultivars.

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								
Aberelf	7.0	8.4	7.7	7.2	6.9	6.5	6.0	6.0	DG	BSH
Allegro	7.9	7.4	7.7	5.2	4.9	6.1	6.2	4.9	MG	DLF
Eden (LA)	6.9	8.2	7.5	5.7	5.6	6.5	5.9	5.3	DG	FL
Master	7.6	7.3	7.5	4.3	4.5	4.5	5.4	6.7	MG	SI
Barlinda	7.1	7.7	7.4	5.3	6.2	5.1	5.7	5.7	DG	BAR
Brightstar	7.3	7.2	7.3	7.4	6.3	7.2	7.6	6.5	DG	SI
Verdi	6.9	7.6	7.2	7.0	4.9	6.0	7.1	5.6	MG	PHL
Dancer	7.0	7.2	7.1	6.8	6.5	6.4	6.2	5.6	DG	DLF
Disco (LA)	7.4	6.7	7.1	6.9	6.2	6.4	5.4	4.9	MG	Jns
Bardessa	7.4	6.6	7.0	6.1	6.7	6.6	6.0	6.9	MG	BAR
Plaisir	7.3	6.5	6.9	6.3	6.9	5.6	6.2	6.3	MG	PHL
Claudius	7.2	6.6	6.9	5.5	5.4	5.0	6.6	6.3	MG	BSH
Meteor	7.0	6.7	6.9	5.9	6.4	3.9	5.4	6.8	DG	BSH
Cartel	6.6	7.0	6.8	5.1	5.4	3.7	5.7	4.7	DG	Jns
Concerto (LA)	6.6	7.1	6.8	7.5	5.9	7.2	6.6	6.3	DG	SI
Chagall	7.0	6.6	6.8	5.7	6.1	4.7	5.1	6.0	DG	SI
Barclay	6.7	6.9	6.8	5.5	6.3	5.5	5.6	5.9	MG	BAR
Fragment	7.6	5.7	6.6	6.5	5.6	7.1	7.6	7.6	MG	Jns
Repell	6.5	6.8	6.6	6.3	5.3	6.2	5.4	6.6	DG	SI
Danilo	6.6	6.7	6.6	6.1	6.4	6.9	5.4	6.0	DG	DLF
Loretanova	6.7	6.5	6.6	6.0	7.1	6.1	5.9	7.2	MG	BSH
Barrage	6.9	6.3	6.6	4.9	4.2	5.2	6.0	6.4	DG	BAR
Avenue	6.6	6.6	6.6	5.8	6.1	5.1	6.4	5.9	MG	PC
Cavalier	6.3	6.8	6.5	6.0	5.2	6.3	6.1	6.1	DG	CEB
Martina	6.1	6.8	6.5	5.4	5.3	6.3	6.5	5.3	DG	DLF
Vienna	6.8	6.1	6.5	5.1	6.8	5.7	5.7	6.5	DG	Mom
Mondial	6.6	6.3	6.4	5.3	4.6	6.2	5.6	6.4	MG	Mom
Taya	6.1	6.7	6.4	5.5	5.3	6.1	7.1	4.8	MG	DLF
Lisabelle	6.4	6.5	6.4	6.3	6.4	5.0	5.6	6.1	LG	PHL
Envy	6.6	6.3	6.4	6.8	5.2	6.7	6.1	6.8	DG	Jns
Delaware Dwarf	6.0	6.8	6.4	6.2	6.0	6.8	7.2	6.6	MG	DLF
Advent	6.4	6.4	6.4	6.5	6.2	6.7	6.9	6.9	MG	PC
Caddy	6.6	6.1	6.4	5.9	5.5	6.6	5.5	6.3	DG	Jns
Superstar	6.4	6.4	6.4	7.1	6.9	4.1	5.5	5.9	DG	FL
Jetta	6.5	6.0	6.3	4.5	4.9	4.3	4.9	5.6	MG	PC
Gator	6.3	6.1	6.2	4.9	5.3	6.2	6.8	5.3	DG	BSH
Queens	6.1	6.3	6.2	6.3	6.0	6.1	6.3	6.0	DG	FL
Renoir	5.9	6.5	6.2	6.6	6.2	5.6	6.4	5.2	DG	CEB
Rambo	6.3	6.1	6.2	6.3	6.9	5.0	5.3	5.9	MG	FL
Score	6.1	6.0	6.1	4.5	4.3	3.0	5.0	4.6	DG	FL
Troubadour	6.1	6.0	6.1	5.8	6.6	5.7	5.9	5.6	DG	PC
Fancy	5.7	6.4	6.1	6.4	6.1	6.4	6.3	6.8	DG	SI
Gerona	6.1	6.0	6.1	5.6	5.4	5.5	5.5	5.8	DG	Mom
Numan	5.9	5.8	5.9	6.6	6.4	7.1	6.3	6.1	DG	PC
Lorina	5.9	5.7	5.8	6.7	6.5	7.5	7.1	5.2	MG	BSH
Juwel	5.6	5.8	5.7	4.9	4.5	4.5	6.1	5.4	MG	PHL
Elka	5.8	5.3	5.5	7.6	7.5	7.0	6.6	5.7	DG	SI
Barcredo	5.6	5.3	5.4	6.6	6.6	7.0	6.1	6.0	MG	BAR
New Cultivars										
Magic (LA)	6.5	7.0	6.7	6.6	6.5	6.0	5.8	5.1	DG	PHL

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
Amadeus	7.8	7.9	7.3	6.7	7.4	7.0	6.3	6.7	MG	DG	Mom
Bellevue (LA)	7.4	7.4	8.0	6.8	7.4	6.4	7.4	7.0	MG	DG	SI
Ace (LA)	7.8	7.9	7.6	6.2	7.4	7.2	7.4	6.9	LG	MG	FL
Aberelf	8.5	8.0	6.9	6.0	7.4	6.5	8.0	6.0	DG	DG	BSH
Bareine (LA)	7.0	6.9	8.1	7.4	7.3	6.3	7.6	4.0	LG	MG	BAR
Merci	7.6	7.3	7.6	6.4	7.2	6.0	7.5	6.0	MG	DG	FL
Lorina	7.6	7.6	6.5	7.1	7.2	7.5	7.9	5.2	MG	MG	BSH
Dali	7.6	7.6	7.8	5.6	7.1	6.8	6.9	5.1	MG	MG	Jns
Elka	7.2	7.2	7.5	6.6	7.1	7.0	7.3	5.7	MG	DG	SI
Plaisir	7.6	7.4	6.9	6.2	7.0	5.6	6.2	6.3	MG	MG	PHL
Lex86	6.8	7.1	7.0	7.0	7.0	7.2	6.6	5.2	LG	MG	BSH
Livonne	7.2	7.3	6.8	6.2	6.9	6.8	6.5	5.2	MG	MG	PHL
Barmona	6.9	6.9	6.9	6.4	6.8	5.9	6.0	6.2	LG	DG	BAR
Brightstar	6.5	6.6	6.3	7.6	6.7	7.2	6.6	6.5	MG	DG	SI
Elegana	6.7	6.9	7.6	5.7	6.7	7.1	6.0	4.6	LG	DG	SI
Fragment	6.6	6.9	5.6	7.6	6.7	7.1	5.7	7.6	MG	MG	Jns
Advent	6.8	6.7	6.2	6.9	6.6	6.7	5.9	6.9	LG	MG	PC
Flair	7.0	6.9	6.8	5.7	6.6	4.5	6.3	6.2	MG	MG	FL
Superstar	7.1	6.9	6.9	5.5	6.6	4.1	6.3	5.9	MG	DG	FL
Dancer	6.8	6.9	6.5	6.2	6.6	6.4	6.4	5.6	MG	DG	DLF
Loretanova	6.6	6.7	7.1	5.9	6.6	6.1	6.6	7.2	MG	MG	BSH
Bardessa	6.8	6.6	6.7	6.0	6.5	6.6	6.0	6.9	MG	MG	BAR
Aphrodite	6.5	6.3	6.1	6.9	6.5	6.9	7.2	5.9	MG	MG	Jns
Rambo	6.5	7.2	6.9	5.3	6.5	5.0	6.2	5.9	LG	MG	FL
Renoir	6.6	6.5	6.2	6.4	6.4	5.6	5.7	5.2	MG	DG	CEB
Delaware Dwarf	6.3	6.2	6.0	7.2	6.4	6.8	5.0	6.6	LG	MG	DLF
Avenue	6.5	6.5	6.1	6.4	6.4	5.1	6.8	5.9	MG	MG	PC
Concerto (LA)	6.5	6.3	5.9	6.6	6.3	7.2	5.2	6.3	MG	DG	SI
Barcredo	6.3	6.2	6.6	6.1	6.3	7.0	6.5	6.0	MG	MG	BAR
Danilo	6.6	6.8	6.4	5.4	6.3	6.9	6.1	6.0	MG	DG	DLF
Envy	7.0	7.0	5.2	6.1	6.3	6.7	5.3	6.8	MG	DG	Jns
Numan	6.1	6.4	6.4	6.3	6.3	7.1	5.2	6.1	MG	DG	PC
Eden (LA)	6.8	6.9	5.6	5.9	6.3	6.5	7.9	5.3	MG	DG	FL
Queens	6.3	6.2	6.0	6.3	6.2	6.1	6.3	6.0	MG	DG	FL
Lisabelle	6.4	6.4	6.4	5.6	6.2	5.0	6.3	6.1	MG	LG	PHL
Vienna	6.3	5.9	6.8	5.7	6.2	5.7	5.8	6.5	MG	DG	Mom
Talgo	6.1	6.1	6.6	5.8	6.2	6.6	6.0	6.1	MG	MG	BSH
Figaro	6.1	6.0	6.6	6.0	6.2	4.5	4.7	6.3	MG	DG	DLF
Disco (LA)	6.6	6.3	6.2	5.4	6.1	6.4	6.2	4.9	MG	MG	Jns
Meteor	6.2	6.4	6.4	5.4	6.1	3.9	6.2	6.8	MG	DG	BSH
Chagall	6.6	6.4	6.1	5.1	6.1	4.7	5.9	6.0	MG	DG	SI
Ronja	5.1	5.4	7.4	6.3	6.1	7.1	5.8	5.3	MG	MG	SW
Capri	6.0	5.9	6.4	5.9	6.1	6.0	5.2	7.1	MG	MG	FL
Barclay	6.2	6.1	6.3	5.6	6.0	5.5	5.4	5.9	MG	MG	BAR
Verdi	5.8	6.0	4.9	7.1	6.0	6.0	6.5	5.6	LG	MG	PHL
Troubadour	5.7	5.7	6.6	5.9	6.0	5.7	5.6	5.6	MG	DG	PC

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	Cleanliness of cut	Short growth (infrequent mowing)	Freedom from red thread	Summer greenness	Winter greenness	UK agent
Cartel	6.4	6.3	5.4	5.7	5.9	3.7	5.6	4.7	MG	DG	Jns
Caddy	6.3	6.4	5.5	5.5	5.9	6.6	6.2	6.3	MG	DG	Jns
Barlinda	5.9	5.7	6.2	5.7	5.9	5.1	6.5	5.7	MG	DG	BAR
Martina	5.6	5.8	5.3	6.5	5.8	6.3	5.9	5.3	LG	DG	DLF
Fancy	5.5	5.3	6.1	6.3	5.8	6.4	5.5	6.8	MG	DG	SI
Cavalier	5.7	6.0	5.2	6.1	5.7	6.3	5.3	6.1	MG	DG	CEB
Sabor	5.4	5.4	6.9	5.3	5.7	7.0	7.3	6.1	MG	MG	BAR
Claudius	5.5	5.3	5.4	6.6	5.7	5.0	7.9	6.3	MG	MG	BSH
Taya	5.2	5.3	5.3	7.1	5.7	6.1	5.7	4.8	MG	MG	DLF
Repell	5.8	6.0	5.3	5.4	5.6	6.2	5.8	6.6	MG	DG	SI
Gator	5.1	5.2	5.3	6.8	5.6	6.2	5.4	5.3	LG	DG	BSH
Kelvin	5.7	5.4	5.2	5.9	5.5	7.0	6.8	6.6	MG	DG	Jns
Corso	5.4	5.4	5.1	6.0	5.5	6.8	5.6	5.3	MG	DG	PC
Allegro	5.3	5.4	4.9	6.2	5.5	6.1	6.1	4.9	MG	MG	DLF
Cherokee	5.3	5.5	4.8	5.9	5.4	5.8	5.5	5.9	MG	MG	Jns
Gerona	5.0	5.3	5.4	5.5	5.3	5.5	6.0	5.8	MG	DG	Mom
Barrage	5.2	5.1	4.2	6.0	5.1	5.2	5.1	6.4	LG	DG	BAR
Mondial	5.1	5.1	4.6	5.6	5.1	6.2	6.4	6.4	MG	MG	Mom
Rival	4.9	4.7	4.5	5.5	4.9	5.4	5.0	5.2	MG	MG	SI
Score	4.9	5.0	4.3	5.0	4.8	3.0	5.5	4.6	MG	DG	FL
Jetta	4.5	4.5	4.9	4.9	4.7	4.3	6.3	5.6	MG	MG	PC
Master	4.1	4.5	4.5	5.4	4.6	4.5	4.8	6.7	MG	MG	SI
New Cultivars											
Magic (LA)	6.5	5.9	6.5	5.8	6.2	6.0	6.3	5.1	MG	DG	PHL
Chaparral	5.5	5.8	6.0	6.7	6.0	6.8	6.4	5.2	LG	MG	PHL

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 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

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

Important: Read pages 2, 3, 6, 7 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	7.4	7.6	7.5	6.6	7.2	7.3	MG	MG	Jns/SI
Raisa	7.2	7.7	7.4	7.3	7.0	7.1	MG	MG	BSH
Bargreen	7.2	7.2	7.2	7.3	7.2	7.0	DG	MG	BAR
Frida	7.0	7.3	7.1	6.8	7.3	7.2	MG	MG	BSH
Enjoy	7.0	7.2	7.1	6.6	6.6	6.8	MG	MG	PC
Lobi	6.9	7.2	7.1	6.2	6.9	6.4	MG	MG	PC
Waldorf	7.0	7.0	7.0	6.3	7.6	7.3	MG	MG	Jns
Darwin	7.2	6.9	7.0	7.3	6.4	7.2	MG	LG	PC/CEB
Trophy	7.1	6.9	7.0	6.7	7.4	7.3	DG	MG	CEB
Rossini	6.8	7.0	6.9	6.9	7.2	7.7	MG	MG	SI
Trump (LA)	6.9	6.8	6.9	6.5	6.6	4.6	MG	DG	FL
Olivia	6.8	6.8	6.8	6.9	6.4	6.4	DG	MG	BSH
Baruba	6.8	6.8	6.8	6.2	7.2	7.1	DG	MG	BAR
Melody	6.7	6.9	6.8	6.5	7.0	6.3	MG	MG	PHL
Rainbow	6.8	6.7	6.8	6.9	7.0	7.0	MG	MG	Mom
Atlanta	6.7	6.7	6.7	6.5	6.1	5.1	MG	MG	SI
Roulette	6.7	6.6	6.7	7.1	7.2	7.1	MG	MG	FL
Simone	6.6	6.7	6.7	6.5	6.9	6.4	MG	MG	DLF
Wilma	6.8	6.5	6.7	6.1	6.1	6.2	MG	MG	SW
Baroxi	6.5	6.7	6.6	7.3	7.4	6.9	MG	MG	BAR
Bingo	6.6	6.5	6.5	6.0	6.2	6.4	MG	MG	FL
Licato	6.6	6.5	6.5	6.3	6.9	6.8	MG	MG	PHL
Tamara	6.5	6.2	6.3	5.4	7.2	7.2	MG	MG	DLF
Mary	6.4	6.1	6.3	6.0	6.6	6.4	MG	MG	Mom
Raymond	6.3	6.2	6.3	6.3	6.7	6.3	LG	MG	SI
Lifalla	6.1	5.7	5.9	6.3	7.4	7.7	MG	MG	PHL
Lustre	5.9	5.8	5.8	6.0	6.9	7.3	MG	MG	FL
Banner	5.9	5.5	5.7	5.2	6.2	6.1	MG	MG	Jns

be of most importance for ornamental lawns and very close mown turf such as golf and bowling greens.

STRONG CREEPING RED FESCUES (TABLE 4)

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.

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

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

Important: Read pages 2, 3, 6, 7 and 8 before evaluating cultivars.

Cultivar	Shoot density	Short growth	Freedom from red thread	Freedom from dollar spot	Summer greenness	Winter greenness	UK Agent
Baroxi	8.0	7.3	7.4	6.9	MG	MG	BAR
Raisa	8.0	7.3	7.0	7.1	MG	MG	BSH
Lobi	7.6	6.2	6.9	6.4	MG	MG	PC
Center	7.5	6.6	7.2	7.3	MG	MG	Jns/SI
Frida	7.4	6.8	7.3	7.2	MG	MG	BSH
Bargreen	7.4	7.3	7.2	7.0	DG	MG	BAR
Trump (LA)	7.3	6.5	6.6	4.6	MG	DG	FL
Rossini	7.3	6.9	7.2	7.7	MG	MG	SI
Enjoy	7.3	6.6	6.6	6.8	MG	MG	PC
Darwin	7.2	7.3	6.4	7.2	MG	LG	PC/CEB
Olivia	7.2	6.9	6.4	6.4	DG	MG	BSH
Waldorf	7.0	6.3	7.6	7.3	MG	MG	Jns
Rainbow	6.9	6.9	7.0	7.0	MG	MG	Mom
Baruba	6.8	6.2	7.2	7.1	DG	MG	BAR
Simone	6.7	6.5	6.9	6.4	MG	MG	DLF
Trophy	6.7	6.7	7.4	7.3	DG	MG	CEB
Atlanta	6.7	6.5	6.1	5.1	MG	MG	SI
Roulette	6.6	7.1	7.2	7.1	MG	MG	FL
Melody	6.6	6.5	7.0	6.3	MG	MG	PHL
Bingo	6.6	6.0	6.2	6.4	MG	MG	FL
Carina	6.4	5.1	7.1	6.7	MG	MG	DLF
Mary	6.2	6.0	6.6	6.4	MG	MG	Mom
Licato	6.1	6.3	6.9	6.8	MG	MG	PHL
Lifalla	6.1	6.3	7.4	7.7	MG	MG	PHL
Wilma	6.1	6.1	6.1	6.2	MG	MG	SW
Tamara	6.0	5.4	7.2	7.2	MG	MG	DLF
Raymond	5.9	6.3	6.7	6.3	LG	MG	SI
Lustre	5.6	6.0	6.9	7.3	MG	MG	FL
Banner	5.1	5.2	6.2	6.1	MG	MG	Jns

generally suitable for use in 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.

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

TABLE 3.1
SLENDER CREEPING RED FESCUES (*Festuca rubra* ssp. *litoralis* etc.)
FOR USE IN GOLF GREENS AND BOWLING GREENS
 Important: Read pages 2, 3, 6, 7 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	8.1	8.8	8.5	7.6	7.9	7.5	DG	DG	BAR
Mocassin	7.6	7.9	7.7	6.3	7.4	7.6	DG	MG	Mom
Barskol	7.5	7.2	7.4	6.3	5.5	5.5	DG	DG	BAR
Carousel	7.2	7.4	7.3	7.2	5.2	4.9	DG	MG	Jns
Oriflamme	7.1	7.1	7.1	6.1	5.7	5.3	DG	MG	SI
Helena	6.8	7.4	7.1	6.4	5.2	5.8	DG	MG	FL
Smirna	7.0	7.1	7.1	6.8	5.5	5.7	DG	MG	FL
Jupiter	7.0	7.1	7.0	6.7	6.0	5.6	DG	DG	Jns
Estica	6.8	7.0	6.9	6.6	5.2	5.3	DG	MG	PC
Libano	6.8	6.8	6.8	6.3	5.2	5.2	MG	MG	PHL
Horizon	6.7	6.8	6.7	5.7	5.7	5.7	DG	DG	Mom
Symphony	6.7	6.7	6.7	6.1	6.5	6.5	DG	DG	FL
Liprosa	6.6	6.6	6.6	6.4	5.6	5.8	MG	DG	PHL
Dawson	6.5	6.7	6.6	5.5	5.3	5.4	DG	MG	Jns
Cinderella	6.4	6.5	6.5	6.4	5.9	5.2	MG	MG	DLF
Lovisa	6.5	6.4	6.5	6.2	5.4	5.5	MG	MG	SW
Samanta	6.6	6.3	6.5	6.0	5.8	5.6	MG	MG	PC
Rufilla	6.3	6.4	6.4	5.4	6.1	6.4	DG	MG	BSH
Suzette	6.1	6.0	6.0	5.1	5.1	5.8	DG	DG	DLF
Merlin (LA)	6.0	5.9	5.9	6.4	6.1	6.5	MG	MG	Jns

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

Cultivar	Shoot density	Short growth	Freedom from red thread	Freedom from dollar spot	Summer greenness	Winter greenness	UK agent
Barcrown	9.2	7.6	7.9	7.5	DG	DG	BAR
Mocassin	7.8	6.3	7.4	7.6	DG	MG	Mom
Helena	7.5	6.4	5.2	5.8	DG	MG	FL
Carousel	7.4	7.2	5.2	4.9	DG	MG	Jns
Smirna	7.1	6.8	5.5	5.7	DG	MG	FL
Jupiter	7.1	6.7	6.0	5.6	DG	DG	Jns
Estica	7.0	6.6	5.2	5.3	DG	MG	PC
Oriflamme	6.9	6.1	5.7	5.3	DG	MG	SI
Barskol	6.8	6.3	5.5	5.5	DG	DG	BAR
Cinderella	6.8	6.4	5.9	5.2	MG	MG	DLF
Liprosa	6.7	6.4	5.6	5.8	MG	DG	PHL
Libano	6.6	6.3	5.2	5.2	MG	MG	PHL
Symphony	6.6	6.1	6.5	6.5	DG	DG	FL
Horizon	6.5	5.7	5.7	5.7	DG	DG	Mom
Lovisa	6.4	6.2	5.4	5.5	MG	MG	SW
Dawson	6.3	5.5	5.3	5.4	DG	MG	Jns
Suzette	5.9	5.1	5.1	5.8	DG	DG	DLF
Rufilla	5.9	5.4	6.1	6.4	DG	MG	BSH
Samanta	5.9	6.0	5.8	5.6	MG	MG	PC
Merlin (LA)	5.4	6.4	6.1	6.5	MG	MG	Jns

TABLE 4
STRONG CREEPING RED FESCUE (*Festuca rubra* ssp. *rubra*)

Important: Read pages 2, 7 and 8 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	5.2	MG	LG	DLF
Hollywood	5.5	5.8	5.9	5.7	5.4	5.3	MG	MG	FL
Cindy	5.3	5.2	6.1	5.5	5.5	5.6	MG	MG	SI
Picnic	5.2	5.2	5.7	5.4	5.2	4.9	LG	MG	FL
Aniset	5.0	5.2	5.8	5.3	4.7	4.5	LG	LG	DLF
Jasper	5.1	5.1	5.9	5.3	5.1	5.8	MG	MG	Fa*
Herald	5.3	5.1	5.4	5.3	4.6	5.2	DG	MG	PC
Gentil	5.0	4.9	5.3	5.1	5.1	5.2	LG	MG	Jns
Corail (LA)	4.6	5.1	5.5	5.1	4.9	5.5	MG	MG	CEB
Pernille	5.2	5.0	5.0	5.1	5.1	5.1	MG	MG	DLF
Rumba	5.1	4.9	5.1	5.0	5.4	4.9	LG	MG	BAR
Kristina (LA)	4.9	4.9	5.3	5.0	4.1	4.6	MG	MG	SW
Sunset	4.4	4.9	5.3	4.9	5.6	5.3	LG	LG	FL
Ceres	4.6	5.0	4.5	4.7	5.2	4.8	MG	MG	CEB
Franklin	4.6	4.7	4.5	4.6	5.2	5.2	LG	MG	SI
Sylvia	4.4	4.5	4.7	4.6	4.7	5.2	MG	MG	SW
Boreal	4.6	4.6	4.2	4.5	4.7	4.5	LG	MG	Fa*
Victor	4.5	4.5	4.2	4.4	4.9	4.9	MG	MG	Mom
New Cultivars									
Salsa (LA)	5.5	5.5	6.3	5.8	5.1	—	MG	MG	Jns

*Freely available

TABLE 5
MISCELLANEOUS FESCUES (*Festuca* spp.)

Important: Read pages 2, 8 and 11 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	7.8	7.3	6.7	MG	MG	Mom
Valda (LA)	6.2	5.2	5.6	MG	MG	CEB
Pintor	6.0	7.1	5.4	MG	MG	BSH
Eureka (LA)	5.7	5.9	5.6	DG	MG	PC
Scaldis	5.7	4.4	6.2	DG	MG	Jns
Livina	5.6	5.5	5.7	LG	LG	PHL
Triana	4.1	4.5	4.8	LG	LG	DLF
New Cultivars						
Pamela (LA)	6.2	5.8	6.3	DG	MG	DLF
Bardur	6.1	6.8	7.5	DG	DG	BAR
Barreppo	5.9	6.9	5.9	MG	MG	BAR
Fine-leaved sheep's fescue (<i>f. tenuifolia</i>)						
Barok	7.6	6.5	4.3	MG	MG	BAR
Sheep's fescue (<i>F. ovina</i>)						
Quatro (LA)	8.3	7.6	8.4	DG	DG	CEB

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

Important: Read pages 2, 12 and 13 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>							
Lance	7.4	7.3	6.6	6.3	MG	MG	Jns
Heriot	7.3	7.4	7.0	5.7	MG	DG	BAR
Sefton	7.3	7.4	5.6	4.7	MG	DG	SI
Denso	7.0	7.2	6.7	6.3	LG	MG	PC/CEB
Egmont	6.6	6.8	6.4	5.7	MG	MG	FL
Bardot	6.5	7.2	6.5	6.0	MG	MG	BAR
Duchess	6.3	7.1	6.5	5.6	MG	MG	BSH
Tracenta (LA)	5.5	6.5	6.6	4.6	MG	LG	Mom
Litentia	5.3	6.5	4.9	5.8	MG	MG	PHL
New Cultivars							
Ambrosia	5.6	7.0	5.7	5.9	LG	MG	BSH
Orient (LA)	5.4	5.9	5.4	6.5	DG	MG	PHL
<i>A. castellana</i>							
Highland	5.1	5.4	3.3	3.5	MG	DG	Fa*
<i>A. canina</i>							
Avalon	10.4	8.6	5.4	4.6	DG	DG	BSH
<i>A. stolonifera</i>							
Bueno (18th Green)	6.6	5.5	6.5	5.7	LG	LG	Jns
Providence	6.4	5.7	6.7	6.4	MG	MG	BSH
Carmen	5.7	5.9	5.5	6.7	MG	MG	Mom
Penneagle	5.7	5.1	6.2	7.0	MG	MG	SI
Penncross	5.6	5.6	6.4	6.5	MG	MG	SI
Prominent	5.1	5.3	5.8	6.8	MG	MG	FL
New Cultivars							
Barifera (LA)	6.4	5.8	7.3	6.7	DG	MG	BAR
Cobra	6.0	5.5	6.3	7.1	DG	MG	CEB/PC
Oasis (LA)	5.9	5.3	8.0	6.9	MG	MG	FL

* Freely available

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

Important: Read pages 2, 12 and 13 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	7.1	7.4	7.0	5.7	MG	DG	BAR
Lance	7.0	7.3	6.6	6.3	MG	MG	Jns
Denso	6.9	7.2	6.7	6.3	LG	MG	PC/CEB
Sefton	6.8	7.4	5.6	4.7	MG	DG	SI
Bardot	6.6	7.2	6.5	6.0	MG	MG	BAR
Egmont	6.6	6.8	6.4	5.7	MG	MG	FL
Duchess	6.2	7.1	6.5	5.6	MG	MG	BSH
Tracenta (LA)	5.5	6.5	6.6	4.6	MG	LG	Mom
Litenta	5.3	6.5	4.9	5.8	MG	MG	PHL
New Cultivars							
Ambrosia	6.1	7.0	5.7	5.9	LG	MG	BSH
Orient (LA)	5.4	5.9	5.4	6.5	DG	MG	PHL
<i>A. castellana</i>							
Highland	4.9	5.4	3.3	3.5	MG	DG	Fa*
<i>A. canina</i>							
Avalon	10.0	8.6	5.4	4.6	DG	DG	BSH
<i>A. stolonifera</i>							
Bueno (18th Green)	7.0	5.5	6.5	5.7	LG	LG	Jns
Providence	6.9	5.7	6.7	6.4	MG	MG	BSH
Carmen	6.1	5.9	5.5	6.7	MG	MG	Mom
Penneagle	6.1	5.1	6.2	7.0	MG	MG	SI
Penncross	5.8	5.6	6.4	6.5	MG	MG	SI
Prominent	5.7	5.3	5.8	6.8	MG	MG	FL
New Cultivars							
Barifera (LA)	6.7	5.8	7.3	6.7	DG	MG	BAR
Cobra	6.3	5.5	6.3	7.1	DG	MG	PC/CEB
Oasis (LA)	5.5	5.3	8.0	6.9	MG	MG	FL

* 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 includes 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 this grass can produce.

'Highland' browntop bent is generally

TABLE 7.1
SMOOTH-STALKED MEADOW-GRASS (*Poa pratensis*)
FOR USE IN WINTER PITCHES (SOCCER, RUGBY, etc.)
 Important: Read pages 2, 13 and 14 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	6.3	5.9	5.0	7.1	6.1	MG	MG	BSH
Limousine	7.2	8.5	7.7	6.0	6.2	4.0	MG	MG	PHL
Haga	7.1	5.7	5.0	6.4	5.7	6.5	MG	DG	SW
Miracle	6.8	7.4	5.5	6.8	4.5	7.1	MG	MG	SI
Broadway	6.8	6.3	5.0	5.8	6.5	5.5	MG	MG	FL
Barvictor	6.8	6.4	5.9	5.9	4.9	5.6	DG	DG	BAR
Cocktail	6.7	7.8	7.6	6.0	6.9	5.7	DG	MG	Jns
Cesar (LA)	6.5	6.4	7.2	7.0	5.7	5.4	MG	MG	PC
Cynthia	6.4	6.2	7.5	5.9	5.5	5.1	MG	MG	Mom
Asset	6.3	5.5	5.0	5.6	6.0	6.3	DG	MG	SI
Nimbus	5.9	5.6	5.3	5.9	5.4	6.6	DG	DG	S2T
Fortuna	5.7	5.7	5.8	7.3	5.4	6.4	MG	MG	CEB
Conni	5.7	7.0	6.5	6.3	5.8	6.2	DG	MG	DLF
Saskia	5.7	6.4	6.2	6.2	6.9	6.8	MG	MG	Mom
Trampas	5.6	6.5	6.0	6.5	5.2	6.0	MG	MG	DLF
Andante	5.4	6.1	6.2	5.9	7.1	6.0	MG	MG	DLF
Enprima	5.1	5.6	6.3	6.4	5.1	4.6	MG	MG	PC
Opal (LA)	4.5	6.1	7.1	6.3	5.7	4.3	MG	MG	SW
New Cultivars									
Panduro (LA)	7.3	6.2	5.7	5.5	7.3	5.4	MG	DG	DLF
Barcelona	7.2	6.3	5.6	6.5	5.7	6.9	MG	MG	BAR
Lily	7.1	5.6	4.8	5.9	4.6	5.7	MG	LG	PHL
Pepaya (LA)	6.2	6.6	5.3	5.7	6.6	4.9	LG	MG	DLF
Unique	6.1	7.0	6.9	7.7	7.0	5.0	MG	DG	Oli
Elysee (LA)	5.1	6.3	6.8	8.1	7.1	7.6	MG	MG	FL
Lipoa	4.8	5.9	6.5	6.5	6.3	7.9	MG	MG	PHL

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

Important: Read pages 2, 13 and 14 before evaluating cultivars.

Cultivar	Shoot density	Fineness of leaf		Slow regrowth (regular mowing)	Short growth (infrequent mowing)	Freedom from leaf spot	Orange stripe rust resistance	Summer greenness	Winter greenness	UK agent
	Mean									
Limousine	8.5	7.7	8.1	6.0	6.2	6.2	4.0	MG	MG	PHL
Cocktail	7.8	7.6	7.7	6.0	5.6	6.9	5.7	DG	MG	Jns
Cynthia	6.2	7.5	6.9	5.9	6.5	5.5	5.1	MG	MG	Mom
Cesar (LA)	6.4	7.2	6.8	7.0	6.3	5.7	5.4	MG	MG	PC
Conni	7.0	6.5	6.7	6.3	6.6	5.8	6.2	DG	MG	DLF
Opal (LA)	6.1	7.1	6.6	6.3	6.3	5.7	4.3	MG	MG	SW
Miracle	7.4	5.5	6.5	6.8	6.9	4.5	7.1	MG	MG	SI
Saskia	6.4	6.2	6.3	6.2	7.1	6.9	6.8	MG	MG	Mom
Trampas	6.5	6.0	6.3	6.5	6.1	5.2	6.0	MG	MG	DLF
Barvictor	6.4	5.9	6.2	5.9	7.0	4.9	5.6	DG	DG	BAR
Andante	6.1	6.2	6.1	5.9	7.0	7.1	6.0	MG	MG	DLF
Julia	6.3	5.9	6.1	5.0	5.2	7.1	6.1	MG	MG	BSH
Enprima	5.6	6.3	5.9	6.4	5.7	5.1	4.6	MG	MG	PC
Fortuna	5.7	5.8	5.7	7.3	7.9	5.4	6.4	MG	MG	CEB
Broadway	6.3	5.0	5.6	5.8	5.3	6.5	5.5	MG	MG	FL
Nimbus	5.6	5.3	5.4	5.9	6.6	5.4	6.6	DG	DG	S2T
Haga	5.7	5.0	5.3	6.4	6.2	5.7	6.5	MG	DG	SW
Asset	5.5	5.0	5.2	5.6	6.0	6.0	6.3	DG	MG	SI
New Cultivars										
Unique	7.0	6.9	6.9	7.7	6.3	7.0	5.0	MG	DG	Oli
Elysee (LA)	6.3	6.8	6.5	8.1	7.1	7.1	7.6	MG	MG	FL
Lipoa	5.9	6.5	6.2	6.5	7.8	6.3	7.9	MG	MG	PHL
Panduro (LA)	6.2	5.7	6.0	5.5	5.5	7.3	5.4	MG	DG	DLF
Barcelona	6.3	5.6	6.0	6.5	5.7	5.7	6.9	MG	MG	BAR
Pepaya (LA)	6.6	5.3	5.9	5.7	6.7	6.6	4.9	LG	MG	DLF
Lily	5.6	4.8	5.2	5.9	4.6	4.6	5.7	MG	LG	PHL

TALL FESCUE (TABLE 8)

The two available cultivars of tall fescue have been placed in **alphabetical order**. Please note that these grasses are generally no substitute for perennial ryegrass in normal turf situations in the UK. They are 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. 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 15 before evaluating cultivars.

Cultivar Alphabetical order	Wear tolerance	Tolerance of close mowing	Shoot density	Fineness of leaf	Short growth	UK agent
Cochise	6.5	5.7	8.3	6.0	6.0	DLF
Talisman	5.9	6.0	6.7	5.4	7.1	—

OTHER TURFGRASS SPECIES (TABLE 9)

This table lists the availability of minor turfgrass species which may be used in more specialist amenity

situations. It also includes, where possible, comparative performance ratings which can be compared with particular grass species listed in other tables.

TABLE 9
OTHER TURFGRASS SPECIES

Important: Read pages 2 and 15 before evaluating cultivars.

Species	Cultivar	UK agent
Flattened meadow-grass (<i>Poa compressa</i>)	Canon	SI
Crested hair-grass (<i>Koeleria cristata</i>)	Barkoel	BAR
Performance ratings (comparable with browntop and creeping bents, Table 6.2)		
Shoot density 6.1	Fineness of leaf 5.7	Short growth 6.5
Tufted hair-grass (<i>Deschampsia caespitosa</i>)	Barcampsia	BAR
Performance ratings (comparable with smooth-stalked meadow-grass, Table 7.1)		
Wear tolerance 7.4	Shoot density 7.5	Fineness of leaf 8.0
		Slow regrowth 1.7

NAMES AND ADDRESSES OF UK AGENTS

- BAR** **Barenbrug UK Ltd.**, 33 Perkins Road, Rougham Industrial Estate, Bury St. Edmunds, Suffolk, IP30 9NW. ☎ 01359 272000. Fax: 01359 272001.
- BSH** **British Seed Houses Ltd.**, Bewsey Industrial Estate, Pitt Street, Warrington, Cheshire, WA5 5LE. ☎ 01925 654411. Fax: 01925 416676.
- DLF** **DLF-Trifolium UK & Ireland Ltd.**, Priory Industrial Estate, Tetbury, Gloucs., GL8 8HZ. ☎ 01666 502834. Fax: 01666 502401.
- FL** **Force Limagrain**, J.N.R.C., Rothwell, Market Rasen, Lincolnshire, LN7 6DT. ☎ 01472 371220. Fax: 01472 371195.
- Jns** **Johnsons Seeds**, London Road, Boston, Lincs., PE21 8AD. ☎ 01205 365051. Fax: 01205 359857.
- Mom** **Mommersteeg International**, The Anderson Centre, Spitfire Close, Ermine Business Park, Huntingdon, PE18 6XY. ☎ 01480 459500. Fax: 01480 459990.
- Oli** **Oliver Bros. (Seeds) Ltd.**, North Cliff Farm, Noth Carlton, Lincoln, LN1 2RP. ☎ 01522 730836. Fax: 01522 731069.
- PHL** **Perryfields Holdings Ltd.**, Thorn Farm, Inkberrow, Worcs., WR7 4LJ. ☎ 01386 793135. Fax: 01386 792715.
- PC** **Pope & Chapman Ltd.**, Woodside, Dunmow Road, Bishop's Stortford, Herts., CM23 5RG. ☎ 01279 653251. Fax: 01279 505849.
- S2T** **Seeds 2000 Ltd.**, Middleton House, Purton, Berkeley, Gloucs., GL13 9HY. ☎ 01453 511930. Fax: 01453 511800.
- CEB** **Cebeco Seed Innovations Ltd.**, Commercial & Technical Centre, Barroway Drove, Downham Market, Norfolk, PE38 0AR. ☎ 01366 383845. Fax: 01366 384740.
- SI** **Sharpes International Ltd.**, Sleaford, Lincs., NG34 7HA. ☎ 01529 304511. Fax: 01529 413137.
- SW** **Svalöf Weibull**, 49 North Road, Great Abington, Cambridge, CB1 6AS. ☎ 01223 890777. Fax: 01223 890666.

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