



AUSTRALIAN GOLF COURSE SUPERINTENDENTS' ASSOC. LTD.
A.C.N. 053 205 888
A.B.N. 96 053 205 888
Suite 1
752 Blackburn Road Clayton VIC 3168
Phone: (03) 9548 8600 Fax: (03) 9548 8622
Email: andrew@agcsa.com.au

FINAL RESULTS OF ANTEP PERENNIAL RYEGRASS & TALL FESCUE VARIETY TRIAL (2007 & 2008)



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1.0 INTRODUCTION

The location chosen to host the trial was at Mt. Scopus Memorial College in Burwood Victoria. The trial site was located on the north east corner of the main oval. The area was generally out of play as it was well away from the school buildings and outside the boundary line of the football oval. The area was also irrigated under an automatic irrigation system and there was no presence of kikuyu or couchgrass. The oval had been constructed with a sand profile and sown with perennial ryegrass. Over the years there has been considerable thatch accumulation and a large proportion of the turf cover was dominated by winter grass.

There were 39 perennial ryegrass varieties sown, of which one was Victorian perennial ryegrass, and 18 tall fescue varieties. The companies participating in the trial and the varieties they submitted can be seen in table 1.

2.0 ESTABLISHMENT METHODOLOGY

2.1 Site Preparation

The preparation of the trial site involved spraying out the existing grass cover with glyphosate. The trial area was then rotary hoed in two directions to a depth of 100-150mm to incorporate the thatch layer to aid with moisture retention during the establishment period.

Five weeks prior to the seeding the entire site was fumigated using Basamid® at the recommended rate. This process was undertaken by R&R Fumigation.

2.2 Seeding

The trial was sown on the 26th September, 2006. The perennial ryegrass varieties were sown at the equivalent rate of 30 g/m² and the tall fescue varieties at 40g/m². All varieties were adjusted to allow for their differing germination rates and sown to provide 100% germination.

The plot size of the perennial ryegrass varieties was 2 square metres (2.0m x 1.0m) and the tall fescue was 1.5 sq. metres (2.0m x 0.75m). All varieties were replicated on three occasions with the exception of the Victorian perennial ryegrass variety that was only replicated twice.

All of the plots were raked after seeding and the entire area was rolled with a water filled pedestrian roller.

2.3 Irrigation

Irrigation was applied on an as need basis during the establishment period. This was generally on two occasions, early morning and mid afternoon, although on very warm days a supplementary application was made in the middle of the day.

Irrigation continued to occur on an as need basis throughout the duration of the trial, although it was restricted with the implementation of water restrictions. Mt. Scopus was able to obtain an exception during the first year of the trial but during the second year when stage 3 restrictions were enforced limited the amount of water that was able to be applied and as such on some occasions there was some turf deterioration.

2.4 Mowing

The plots were first mown on the 10th November, 2006 and initially mown at a height of 50mm with a pedestrian rotary mower. The height was lowered on a weekly basis until the height of cut was equivalent to that of the rest of the oval. At that stage the plots were mature enough to be mown with the cylinder mower in conjunction with the rest of the oval. The first cut with the cylinder mower occurred on the 5th January, 2007. This had been delayed slightly due to some turfgrass injury from drought stress and the mowing height was kept a little higher with the pedestrian rotary mower to allow for complete turfgrass recovery. The varieties were mown at a height of 24mm throughout the duration of the trial.

2.5 Fertiliser Applications

Fertiliser applications were applied on an as need basis after the establishment has occurred. Generally the trial area received an annual application of 1.5kgN/100m².

Table 1: Participating Seed Companies and the varieties submitted

| Company | Ryegrass Variety | Tall fescue Variety |
|-------------------|---|--|
| Advanced Seed | SR 4220 SR 4420 SR 4600 Pacesetter Matilda | Grande II SR 8600 |
| DLF Seeds | All*Star 3 Derby Xtreme Keystone 2 PR 8821 Regal 5 Tophat II | Houndog 6 Jamboree Essential Rhizing Star |
| HG Turf | Pennant II Pennant III Roadster Saint | Shelby |
| Heritage Seeds | Brightstar SLT Citation Fore Premier II LP 40C LP 4317 Pinnacle II | Barvado RTF Barlexas II Tarheel II |
| John Gidley & Co. | Harrier 2 Indy Cutter 2 Penguin Pinstripe Ringer Penguin II | Turbo RZ Bullseye Escalade Regiment II |
| PGG Wrightson | Arena 2 Atlas Experimental Fiesta 4 Integra Mach 1 1G2 Centurion | Rebel 4 Justice |
| Seed Force | Ragtime Dart | Constitution |

Company contacts are at the back of the report.

3.0 ASSESSMENT METHODOLOGY

3.1 ESTABLISHMENT ASSESSMENTS

3.1.1 Turfgrass coverage

Turfgrass coverage was rated by visual assessment using a 0 - 9 scale, with 0 being no coverage and 9 being complete coverage.

3.1.2 Turfgrass vigour

Turfgrass vigour was a visual assessment primarily of plant height but also in general the maturity of the plant. Turfgrass vigour was assessed on two occasions for both the ryegrass and tall fescues.

3.2 REGULAR ASSESSMENTS

The duration of the trial was for two years, after the completion of the establishment period. After that time plots were assessed every two months for turfgrass colour, turfgrass density and leaf shredding. Once every season plots were assessed for growth and on an as need basis plots were rated for any sign of disease or other damage.

3.2.1 Turfgrass Colour

Turfgrass colour was a visual assessment based on how dark green the varieties looked. The scores range from 0 – being completely chlorotic to 9 – being extremely dark green.

3.2.2 Turfgrass Density

Turfgrass density was a visual assessment based on the density of leaf material. The scores range from 0 – extremely sparse to 9 – very dense cover with no space between grass leaves.

3.2.3 Leaf Shredding

Leaf shredding is a visual assessment of the amount of damage done to the tips of the leaves after mowing. Leaves that exhibit shredding have fine white strands protruding from the leaf tip. Leaf shredding was not observed in any of the tall fescue varieties and therefore there is no table of results for tall fescue leaf shredding. The scores range from 0 – no shredding to 9 – extreme shredding.

3.2.5 Incidence of Disease

Disease occurred over a two month period during the first year and was rated on a visual estimate of damage that had been caused to the surface. The scores range from 0 – no damage to 9 – complete loss of turf.

3.2.4 Seasonal Growth

Seasonal growth was assessed on one occasion per season for each of the two years. The rating is a visual estimate of the amount of growth that has occurred since mowing was ceased. Generally during the spring, summer and autumn the area was not mown for two weeks prior to the growth assessment being undertaken and for a period of three to four weeks during the winter. The scores range from 0 – no growth to 9 – excessive growth.

4.0 RESULTS

Tables

Turfgrass Colour, Turfgrass Density and Leaf Shredding

The first two tables represent the average score of the three replicates for each assessment date, with the yearly average shown in the far right column. The third table shows each year's average as well as the combined two year average and ranks each variety according to the two year average based on the LSD.

Disease Incidence

As disease only occurred over a two month period during the first year the first table represents the average score of the three replicates for each assessment date, with the average severity of disease during this period being shown in the far right column. The second table shows that average and ranks each variety according to the LSD.

Seasonal Growth

The first two columns of the table represent the average score of the three replicates for that variety on each assessment date in the first and second years. The right hand column shows the combined two year average and ranks each variety according to the two year average based on the LSD.

Significant Difference

Varieties are significantly different from each other if the difference in value between two varieties is greater than the LSD figure.

Ranking

This is illustrated using an alphabetical listing where varieties with no common letter are significantly different to each other. Where there is a common letter, the varieties are deemed to be not significantly different in their performance.

4.1 RESULTS – PERENNIAL RYEGRASS

Table 4.1.1: Percent cover of perennial ryegrass during establishment (0 - 9)

| Variety | 10 DAS | 14 DAS | 21 DAS | 1 MAS | 2 MAS | 3 MAS |
|----------------|--------|--------|--------|-------|-------|-------|
| Ragtime | 1.7 | 4.7 | 7.0 | 8.3 | 8.7 | 9.0 |
| Victorian Rye | 1.5 | 2.8 | 6.0 | 8.0 | 8.0 | 9.0 |
| Penguin II | 1.7 | 3.2 | 5.3 | 7.3 | 7.7 | 9.0 |
| PR 8821 | 2.0 | 3.2 | 6.0 | 7.3 | 8.0 | 9.0 |
| Indy | 0.7 | 4.3 | 6.0 | 7.3 | 7.7 | 9.0 |
| Tophat II | 1.5 | 3.0 | 5.0 | 7.0 | 8.0 | 8.7 |
| SR 4220 | 1.7 | 3.0 | 5.7 | 7.0 | 7.3 | 8.7 |
| Dart | 1.5 | 2.8 | 5.7 | 7.0 | 8.0 | 8.7 |
| Pinnacle II | 1.8 | 4.3 | 5.7 | 7.0 | 7.7 | 8.7 |
| 1G2 | 1.8 | 3.3 | 6.0 | 7.0 | 7.7 | 9.0 |
| Penguin | 1.2 | 2.7 | 5.7 | 7.0 | 8.0 | 8.3 |
| Matilda | 1.3 | 3.3 | 5.3 | 7.0 | 8.0 | 8.0 |
| Premier II | 2.2 | 3.8 | 5.7 | 7.0 | 7.7 | 9.0 |
| Harrier 2 | 1.8 | 3.5 | 6.0 | 7.0 | 7.7 | 9.0 |
| Derby Xtreme | 1.7 | 4.3 | 5.3 | 7.0 | 8.0 | 9.0 |
| All Star 3 | 2.3 | 4.2 | 6.7 | 7.0 | 8.0 | 9.0 |
| Saint | 1.8 | 3.2 | 5.0 | 6.7 | 7.7 | 8.7 |
| Regal 5 | 1.7 | 2.8 | 5.0 | 6.7 | 7.7 | 9.0 |
| Cutter 2 | 1.3 | 3.0 | 5.7 | 6.7 | 8.3 | 9.0 |
| Integra | 2.0 | 3.5 | 5.0 | 6.7 | 7.7 | 8.7 |
| Fiesta 4 | 2.0 | 4.3 | 5.3 | 6.7 | 7.7 | 8.7 |
| Pennant II | 1.8 | 3.3 | 5.0 | 6.7 | 7.3 | 9.0 |
| Citation Fore | 1.7 | 3.2 | 6.0 | 6.7 | 8.0 | 9.0 |
| Brightstar SLT | 1.5 | 3.0 | 5.7 | 6.7 | 7.3 | 9.0 |
| Keystone 2 | 1.3 | 2.5 | 5.0 | 6.7 | 7.3 | 8.7 |
| Atlas | 1.5 | 3.3 | 5.0 | 6.7 | 7.7 | 8.7 |
| Roadster | 2.2 | 3.3 | 4.7 | 6.3 | 7.3 | 9.0 |
| Centurion | 1.5 | 2.7 | 5.3 | 6.3 | 7.0 | 8.7 |
| Mach 1 | 1.5 | 3.2 | 5.0 | 6.3 | 7.7 | 8.7 |
| Pennant III | 2.0 | 3.3 | 5.0 | 6.3 | 7.3 | 8.3 |
| LP 40C | 1.3 | 2.8 | 4.7 | 6.3 | 7.7 | 8.7 |
| Experimental | 2.2 | 3.7 | 5.0 | 6.3 | 7.3 | 8.7 |
| Arena 2 | 1.7 | 3.7 | 5.3 | 6.3 | 7.3 | 8.3 |
| SR 4600 | 1.7 | 3.5 | 5.0 | 6.0 | 7.3 | 8.3 |
| Pinstripe | 1.0 | 3.0 | 5.0 | 6.0 | 7.7 | 8.3 |
| Ringer | 1.0 | 2.3 | 4.3 | 5.7 | 7.0 | 8.7 |
| Pacesetter | 1.3 | 2.8 | 5.0 | 5.7 | 7.0 | 8.7 |
| SR 4420 | 1.3 | 2.5 | 4.3 | 5.3 | 7.0 | 8.3 |
| LP 4317 | 1.3 | 2.5 | 4.0 | 5.3 | 7.0 | 8.3 |
| LSD (P<0.05) | ns | ns | ns | 0.6 | ns | ns |

Table 4.1.2: Turfgrass vigour of perennial ryegrass during establishment (0 - 9)

| Variety | 10 DAS | 14 DAS |
|----------------|--------|--------|
| Matilda | 5.7 | 8.0 |
| Victorian Rye | 5.5 | 7.5 |
| PR 8821 | 5.0 | 6.7 |
| Saint | 4.3 | 6.3 |
| Roadster | 3.7 | 6.0 |
| Ragtime | 4.0 | 6.0 |
| Pinnacle II | 3.7 | 6.0 |
| 1G2 | 3.3 | 6.0 |
| Brightstar SLT | 4.0 | 6.0 |
| Experimental | 4.0 | 6.0 |
| Arena 2 | 3.7 | 6.0 |
| SR 4220 | 3.7 | 5.7 |
| Pinstripe | 3.3 | 5.7 |
| Centurion | 3.7 | 5.7 |
| Pennant III | 3.7 | 5.7 |
| Pennant II | 3.7 | 5.7 |
| Penguin | 3.3 | 5.7 |
| LP 40C | 3.0 | 5.7 |
| Premier II | 4.0 | 5.7 |
| Citation Fore | 3.7 | 5.7 |
| Harrier 2 | 3.7 | 5.7 |
| Atlas | 3.7 | 5.7 |
| SR 4420 | 3.0 | 5.3 |
| Ringer | 3.3 | 5.3 |
| Cutter 2 | 3.0 | 5.3 |
| Mach 1 | 3.7 | 5.3 |
| Pacesetter | 3.7 | 5.3 |
| Keystone 2 | 3.0 | 5.3 |
| Derby Xtreme | 3.3 | 5.3 |
| Tophat II | 3.3 | 5.0 |
| Penguin II | 3.7 | 5.0 |
| Dart | 3.3 | 5.0 |
| Regal 5 | 3.3 | 5.0 |
| Integra | 3.0 | 5.0 |
| Fiesta 4 | 3.3 | 5.0 |
| LP 4317 | 3.0 | 5.0 |
| SR 4600 | 3.0 | 4.7 |
| All Star 3 | 3.7 | 4.7 |
| Indy | 3.0 | 4.0 |
| LSD (P<0.05) | 0.7 | 0.9 |

Table 4.1.3: First year results for colour of perennial ryegrass varieties (0 - 9)

| Variety | 16/1/07 | 20/3/07 | 22/5/07 | 2/7/07 | 10/9/07 | 23/11/07 | Average |
|------------------------|------------|------------|------------|------------|------------|------------|------------|
| Pennant III | 7.8 | 7.7 | 7.8 | 8.0 | 8.0 | 7.8 | 7.9 |
| Fiesta 4 | 7.5 | 7.2 | 7.2 | 7.7 | 7.2 | 7.2 | 7.3 |
| Derby Xtreme | 7.3 | 6.8 | 7.2 | 7.5 | 7.2 | 7.3 | 7.2 |
| Regal 5 | 7.2 | 6.7 | 7.2 | 7.8 | 7.2 | 7.2 | 7.2 |
| Cutter 2 | 7.7 | 6.5 | 7.0 | 7.5 | 7.3 | 7.2 | 7.2 |
| All Star 3 | 7.5 | 7.0 | 7.0 | 7.5 | 7.2 | 7.0 | 7.2 |
| SR 4600 | 7.0 | 7.0 | 7.0 | 7.5 | 7.2 | 7.2 | 7.1 |
| 1G2 | 7.2 | 6.7 | 7.2 | 7.7 | 7.0 | 7.0 | 7.1 |
| Pinstripe | 7.5 | 6.0 | 7.2 | 7.7 | 7.0 | 7.2 | 7.1 |
| Harrier 2 | 7.0 | 6.7 | 6.8 | 7.5 | 7.0 | 6.7 | 6.9 |
| Keystone 2 | 7.0 | 6.5 | 6.7 | 7.5 | 7.0 | 6.8 | 6.9 |
| Tophat II | 7.0 | 5.8 | 6.8 | 7.7 | 7.2 | 6.8 | 6.9 |
| Mach 1 | 7.0 | 6.0 | 7.0 | 7.3 | 7.0 | 7.0 | 6.9 |
| SR 4420 | 7.0 | 5.8 | 7.0 | 7.5 | 7.0 | 6.8 | 6.9 |
| SR 4220 | 7.0 | 6.2 | 6.8 | 7.3 | 7.0 | 6.8 | 6.9 |
| Pinnacle II | 7.2 | 5.5 | 6.8 | 7.5 | 7.0 | 7.0 | 6.8 |
| Ringer | 7.0 | 5.8 | 7.0 | 7.5 | 7.0 | 6.7 | 6.8 |
| Integra | 7.0 | 5.7 | 6.8 | 7.7 | 7.0 | 6.7 | 6.8 |
| Premier II | 7.0 | 6.0 | 6.7 | 7.2 | 6.8 | 7.2 | 6.8 |
| Roadster | 7.0 | 6.3 | 6.8 | 7.2 | 7.0 | 6.5 | 6.8 |
| Dart | 7.0 | 5.7 | 6.7 | 7.5 | 7.0 | 6.7 | 6.8 |
| Pennant II | 7.0 | 5.7 | 6.7 | 7.5 | 7.0 | 6.5 | 6.7 |
| Arena 2 | 7.0 | 6.0 | 6.3 | 7.2 | 6.8 | 6.8 | 6.7 |
| LP 4317 | 7.0 | 5.8 | 6.5 | 7.3 | 6.8 | 6.7 | 6.7 |
| Citation Fore | 6.8 | 5.8 | 6.7 | 7.2 | 7.0 | 6.7 | 6.7 |
| Brightstar SLT | 6.7 | 5.5 | 6.7 | 7.3 | 7.0 | 6.7 | 6.6 |
| Penguin II | 6.3 | 5.7 | 6.5 | 7.5 | 7.0 | 6.7 | 6.6 |
| Experimental | 7.0 | 6.0 | 6.3 | 7.0 | 6.8 | 6.3 | 6.6 |
| Centurion | 6.5 | 5.7 | 6.5 | 7.0 | 6.8 | 6.8 | 6.6 |
| LP 40C | 7.0 | 5.2 | 6.3 | 7.5 | 6.7 | 6.5 | 6.5 |
| Pacesetter | 6.5 | 5.3 | 6.3 | 7.0 | 6.8 | 6.3 | 6.4 |
| Atlas | 6.5 | 6.0 | 6.2 | 7.0 | 6.2 | 6.3 | 6.4 |
| Penguin | 6.5 | 5.3 | 6.0 | 7.0 | 6.8 | 6.5 | 6.4 |
| PR 8821 | 6.3 | 5.5 | 6.3 | 6.7 | 6.5 | 6.3 | 6.3 |
| Indy | 6.0 | 5.3 | 5.8 | 7.0 | 6.5 | 6.0 | 6.1 |
| Saint | 6.2 | 5.0 | 5.8 | 6.5 | 6.2 | 6.0 | 5.9 |
| Ragtime | 6.0 | 5.2 | 5.8 | 6.3 | 6.0 | 6.0 | 5.9 |
| Matilda | 5.0 | 4.2 | 5.0 | 6.0 | 4.7 | 4.7 | 4.9 |
| Victorian Rye | 5.0 | 4.0 | 4.8 | 5.8 | 4.3 | 3.5 | 4.5 |
| LSD (P<0.05) | 0.3 | 0.5 | 0.6 | 0.4 | 0.2 | 0.6 | 0.3 |

Table 4.1.4: Second year results for colour of perennial ryegrass varieties (0-9)

| Variety | 16/1/08 | 19/3/08 | 21/5/08 | 1/7/08 | 11/9/08 | 28/11/08 | Average |
|------------------------|------------|------------|------------|------------|------------|------------|------------|
| Pennant III | 7.7 | 7.7 | 7.5 | 7.5 | 7.8 | 7.3 | 7.6 |
| Derby Xtreme | 7.2 | 7.5 | 7.0 | 7.2 | 7.0 | 6.8 | 7.1 |
| SR 4600 | 7.3 | 7.0 | 6.7 | 7.2 | 7.0 | 6.8 | 7.0 |
| Cutter 2 | 7.2 | 7.2 | 6.8 | 6.8 | 7.0 | 6.7 | 6.9 |
| Fiesta 4 | 7.3 | 7.0 | 6.7 | 6.8 | 7.0 | 6.7 | 6.9 |
| Tophat II | 7.0 | 7.2 | 6.7 | 7.0 | 6.8 | 6.7 | 6.9 |
| Regal 5 | 7.2 | 7.0 | 6.8 | 6.8 | 6.7 | 6.8 | 6.9 |
| All Star 3 | 6.7 | 7.2 | 6.8 | 6.8 | 7.0 | 6.7 | 6.9 |
| 1G2 | 7.2 | 7.0 | 6.7 | 6.8 | 6.7 | 6.7 | 6.8 |
| Pinstripe | 7.0 | 6.8 | 6.5 | 7.0 | 6.7 | 6.5 | 6.8 |
| SR 4420 | 6.7 | 6.8 | 6.7 | 6.7 | 6.7 | 6.8 | 6.7 |
| Pinnacle II | 7.0 | 6.7 | 6.5 | 6.7 | 6.8 | 6.7 | 6.7 |
| Harrier 2 | 6.7 | 6.8 | 6.7 | 6.8 | 7.0 | 6.3 | 6.7 |
| Mach 1 | 6.5 | 6.8 | 6.8 | 6.7 | 6.7 | 6.7 | 6.7 |
| Dart | 6.7 | 7.0 | 6.7 | 6.7 | 6.7 | 6.3 | 6.7 |
| Ringer | 7.0 | 6.7 | 6.7 | 6.7 | 6.5 | 6.5 | 6.7 |
| Integra | 6.8 | 6.8 | 6.7 | 6.7 | 6.3 | 6.7 | 6.7 |
| SR 4220 | 6.8 | 6.8 | 6.5 | 6.8 | 6.5 | 6.3 | 6.6 |
| Roadster | 7.0 | 6.8 | 6.5 | 6.7 | 6.7 | 6.2 | 6.6 |
| Pennant II | 7.0 | 6.7 | 6.7 | 6.5 | 6.5 | 6.3 | 6.6 |
| Penguin | 6.5 | 6.7 | 6.5 | 7.0 | 6.7 | 6.3 | 6.6 |
| Brightstar SLT | 6.8 | 6.5 | 6.7 | 6.7 | 6.7 | 6.3 | 6.6 |
| Keystone 2 | 7.0 | 6.7 | 6.5 | 6.5 | 6.3 | 6.5 | 6.6 |
| LP 4317 | 6.5 | 6.5 | 6.5 | 6.8 | 6.5 | 6.3 | 6.5 |
| Premier II | 6.8 | 6.8 | 6.5 | 6.5 | 6.3 | 6.2 | 6.5 |
| Experimental | 6.7 | 6.8 | 6.3 | 6.7 | 6.2 | 6.5 | 6.5 |
| Penguin II | 6.7 | 6.5 | 6.7 | 6.7 | 6.5 | 6.0 | 6.5 |
| LP 40C | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.3 | 6.5 |
| Citation Fore | 6.5 | 6.2 | 6.5 | 6.8 | 6.3 | 6.5 | 6.5 |
| Centurion | 6.7 | 6.7 | 6.3 | 6.7 | 6.2 | 6.0 | 6.4 |
| Pacesetter | 6.3 | 6.3 | 6.3 | 6.7 | 6.3 | 6.3 | 6.4 |
| Arena 2 | 6.3 | 6.5 | 6.3 | 6.5 | 6.3 | 6.2 | 6.4 |
| Atlas | 6.7 | 6.0 | 6.2 | 6.3 | 6.3 | 6.5 | 6.3 |
| Indy | 6.3 | 6.3 | 6.2 | 6.5 | 6.3 | 6.2 | 6.3 |
| PR 8821 | 6.5 | 6.3 | 6.2 | 6.3 | 6.3 | 5.7 | 6.2 |
| Saint | 6.2 | 6.3 | 6.2 | 6.2 | 6.0 | 5.8 | 6.1 |
| Ragtime | 6.0 | 6.0 | 6.0 | 6.3 | 5.7 | 5.7 | 5.9 |
| Matilda | 4.5 | 5.0 | 5.0 | 5.2 | 4.0 | 5.2 | 4.8 |
| Victorian Rye | 5.0 | 4.0 | 4.3 | 4.5 | 4.0 | 5.0 | 4.5 |
| LSD (P<0.05) | 0.5 | 0.5 | 0.4 | 0.5 | 0.5 | 0.5 | 0.3 |

Table 4.1.5: Overall ranking of each perennial ryegrass variety for turfgrass color after two years.

| Variety | Yr 1 Ave | Yr 2 Ave | Overall | Ranking |
|------------------------|------------|------------|------------|---------|
| Pennant III | 7.9 | 7.6 | 7.7 | a |
| Derby Xtreme | 7.2 | 7.1 | 7.2 | b |
| Fiesta 4 | 7.3 | 6.9 | 7.1 | bc |
| SR 4600 | 7.1 | 7.0 | 7.1 | bc |
| Cutter 2 | 7.2 | 6.9 | 7.1 | bc |
| Regal 5 | 7.2 | 6.9 | 7.0 | bcd |
| All Star 3 | 7.2 | 6.9 | 7.0 | bcd |
| 1G2 | 7.1 | 6.8 | 7.0 | bcd |
| Pinstripe | 7.1 | 6.8 | 6.9 | bcde |
| Tophat II | 6.9 | 6.9 | 6.9 | bcde |
| Harrier 2 | 6.9 | 6.7 | 6.8 | cdef |
| Mach 1 | 6.9 | 6.7 | 6.8 | cdef |
| SR 4420 | 6.9 | 6.7 | 6.8 | cdef |
| Pinnacle II | 6.8 | 6.7 | 6.8 | cdef |
| SR 4220 | 6.9 | 6.6 | 6.8 | cdef |
| Ringer | 6.8 | 6.7 | 6.8 | cdef |
| Keystone 2 | 6.9 | 6.6 | 6.8 | cdef |
| Integra | 6.8 | 6.7 | 6.7 | defg |
| Roadster | 6.8 | 6.6 | 6.7 | defg |
| Dart | 6.8 | 6.7 | 6.7 | defg |
| Premier II | 6.8 | 6.5 | 6.7 | defg |
| Pennant II | 6.7 | 6.6 | 6.7 | defg |
| Brightstar SLT | 6.6 | 6.6 | 6.6 | efgh |
| LP 4317 | 6.7 | 6.5 | 6.6 | efgh |
| Citation Fore | 6.7 | 6.5 | 6.6 | efgh |
| Experimental | 6.6 | 6.5 | 6.6 | efgh |
| Penguin II | 6.6 | 6.5 | 6.6 | efgh |
| Arena 2 | 6.7 | 6.4 | 6.5 | fghi |
| LP 40C | 6.5 | 6.5 | 6.5 | fghi |
| Centurion | 6.6 | 6.4 | 6.5 | fghi |
| Penguin | 6.4 | 6.6 | 6.5 | fghi |
| Pacesetter | 6.4 | 6.4 | 6.4 | ghi |
| Atlas | 6.4 | 6.3 | 6.3 | hij |
| PR 8821 | 6.3 | 6.2 | 6.3 | hij |
| Indy | 6.1 | 6.3 | 6.2 | ijk |
| Saint | 5.9 | 6.1 | 6.0 | jk |
| Ragtime | 5.9 | 5.9 | 5.9 | k |
| Matilda | 4.9 | 4.8 | 4.9 | l |
| Victorian Rye | 4.5 | 4.5 | 4.5 | m |
| LSD (P<0.05) | 0.3 | 0.3 | 0.3 | |

Table 4.1.6: First year results for density of perennial ryegrass varieties (0-9)

| Variety | 16/1/07 | 20/3/07 | 22/5/07 | 2/7/07 | 10/9/07 | 23/11/07 | Average |
|------------------------|------------|------------|------------|------------|------------|------------|------------|
| Cutter 2 | 8.0 | 7.0 | 7.3 | 7.7 | 7.2 | 7.7 | 7.5 |
| Keystone 2 | 7.7 | 7.3 | 7.3 | 7.3 | 7.0 | 7.7 | 7.4 |
| Fiesta 4 | 7.3 | 7.0 | 7.5 | 7.5 | 7.2 | 7.5 | 7.3 |
| Premier II | 8.0 | 7.0 | 7.3 | 7.2 | 7.0 | 7.2 | 7.3 |
| All Star 3 | 7.7 | 7.0 | 7.2 | 7.2 | 7.0 | 7.5 | 7.3 |
| Derby Xtreme | 6.7 | 7.0 | 7.8 | 7.5 | 7.2 | 7.2 | 7.2 |
| Harrier 2 | 7.3 | 7.0 | 7.3 | 7.5 | 7.0 | 7.0 | 7.2 |
| Citation Fore | 7.3 | 7.0 | 7.0 | 7.2 | 7.0 | 7.3 | 7.1 |
| SR 4600 | 7.0 | 7.0 | 6.8 | 7.3 | 7.2 | 7.3 | 7.1 |
| SR 4220 | 7.3 | 6.7 | 7.0 | 7.2 | 7.0 | 7.3 | 7.1 |
| Arena 2 | 7.0 | 7.2 | 7.0 | 7.2 | 7.0 | 7.2 | 7.1 |
| Dart | 7.3 | 6.7 | 6.7 | 7.2 | 7.2 | 7.2 | 7.0 |
| Mach 1 | 6.7 | 6.7 | 7.2 | 7.3 | 7.0 | 7.3 | 7.0 |
| LP 40C | 7.0 | 6.7 | 6.8 | 7.2 | 7.0 | 7.3 | 7.0 |
| PR 8821 | 7.7 | 6.5 | 6.7 | 6.8 | 7.0 | 7.2 | 7.0 |
| Brightstar SLT | 7.0 | 6.5 | 7.0 | 7.2 | 6.8 | 7.3 | 7.0 |
| Regal 5 | 7.0 | 6.7 | 6.7 | 7.0 | 7.0 | 7.3 | 6.9 |
| Pinnacle II | 6.7 | 6.3 | 7.0 | 7.2 | 7.0 | 7.5 | 6.9 |
| Tophat II | 7.0 | 6.7 | 6.8 | 7.0 | 7.0 | 7.2 | 6.9 |
| Penguin II | 7.0 | 6.7 | 7.0 | 7.0 | 6.8 | 7.2 | 6.9 |
| Integra | 7.0 | 6.8 | 6.8 | 7.2 | 7.0 | 6.8 | 6.9 |
| Pennant II | 7.0 | 6.7 | 6.8 | 7.3 | 7.0 | 6.8 | 6.9 |
| LP 4317 | 6.7 | 6.3 | 7.2 | 7.0 | 7.0 | 7.3 | 6.9 |
| SR 4420 | 6.7 | 6.7 | 7.0 | 7.0 | 7.0 | 7.2 | 6.9 |
| Atlas | 7.0 | 6.8 | 7.0 | 7.0 | 7.0 | 6.7 | 6.9 |
| Ringer | 7.0 | 6.7 | 6.8 | 6.8 | 7.0 | 7.0 | 6.9 |
| Ragtime | 7.3 | 6.3 | 6.8 | 6.8 | 6.8 | 7.0 | 6.9 |
| 1G2 | 7.3 | 6.5 | 6.5 | 6.8 | 7.0 | 7.0 | 6.9 |
| Pennant III | 7.0 | 6.5 | 6.7 | 7.0 | 6.8 | 7.2 | 6.9 |
| Roadster | 7.0 | 6.8 | 6.8 | 6.7 | 6.8 | 6.8 | 6.8 |
| Centurion | 6.7 | 6.5 | 6.8 | 7.0 | 7.0 | 6.8 | 6.8 |
| Pacesetter | 6.7 | 6.5 | 6.7 | 7.0 | 7.0 | 6.8 | 6.8 |
| Experimental | 6.7 | 6.5 | 6.8 | 7.0 | 6.7 | 7.0 | 6.8 |
| Indy | 7.0 | 6.7 | 6.2 | 6.7 | 6.7 | 6.2 | 6.6 |
| Penguin | 7.3 | 6.5 | 5.8 | 5.5 | 6.8 | 6.8 | 6.5 |
| Saint | 6.7 | 6.2 | 6.0 | 6.5 | 6.8 | 6.5 | 6.4 |
| Pinstripe | 6.3 | 6.0 | 6.2 | 6.5 | 6.8 | 6.7 | 6.4 |
| Victorian Rye | 5.5 | 5.0 | 5.3 | 6.0 | 5.5 | 4.8 | 5.3 |
| Matilda | 4.7 | 4.0 | 4.8 | 6.0 | 5.0 | 4.5 | 4.8 |
| LSD (P<0.05) | 0.5 | 0.3 | 0.5 | 0.5 | 0.3 | 0.4 | 0.3 |

Table 4.1.7: Second year results for density of perennial ryegrass varieties (0-9)

| Variety | 16/1/08 | 19/3/08 | 21/5/08 | 1/7/08 | 11/9/08 | 28/11/08 | Average |
|------------------------|------------|------------|------------|------------|------------|------------|------------|
| Derby Xtreme | 7.3 | 7.5 | 7.7 | 7.3 | 7.3 | 7.3 | 7.4 |
| SR 4600 | 7.7 | 7.3 | 7.3 | 7.0 | 7.2 | 7.5 | 7.3 |
| Fiesta 4 | 7.3 | 7.3 | 7.5 | 7.3 | 7.0 | 7.3 | 7.3 |
| Cutter 2 | 7.7 | 7.3 | 7.3 | 7.0 | 7.0 | 7.2 | 7.3 |
| All Star 3 | 7.0 | 7.3 | 7.2 | 7.3 | 7.3 | 7.2 | 7.2 |
| Keystone 2 | 7.5 | 7.3 | 7.0 | 7.0 | 6.8 | 7.2 | 7.1 |
| SR 4220 | 7.0 | 7.3 | 7.3 | 7.0 | 7.0 | 7.0 | 7.1 |
| Pennant III | 6.5 | 7.3 | 7.3 | 7.2 | 7.2 | 7.2 | 7.1 |
| Regal 5 | 7.5 | 7.2 | 7.2 | 7.2 | 6.7 | 6.8 | 7.1 |
| PR 8821 | 7.3 | 7.2 | 7.2 | 7.3 | 6.8 | 6.7 | 7.1 |
| Integra | 7.2 | 7.0 | 7.2 | 7.0 | 6.8 | 7.2 | 7.1 |
| LP 4317 | 7.2 | 7.2 | 7.3 | 7.0 | 6.7 | 7.0 | 7.1 |
| Harrier 2 | 7.5 | 7.0 | 7.2 | 7.0 | 6.8 | 6.8 | 7.1 |
| Arena 2 | 7.0 | 7.2 | 7.0 | 7.2 | 6.7 | 7.3 | 7.1 |
| Citation Fore | 7.0 | 7.3 | 7.0 | 7.3 | 6.7 | 7.0 | 7.1 |
| Penguin II | 7.2 | 7.0 | 7.2 | 7.0 | 6.8 | 7.0 | 7.0 |
| Centurion | 7.2 | 7.2 | 7.0 | 7.0 | 7.0 | 6.8 | 7.0 |
| Atlas | 7.3 | 7.2 | 7.0 | 7.0 | 6.7 | 7.0 | 7.0 |
| Mach 1 | 7.0 | 7.2 | 7.5 | 7.2 | 6.8 | 6.3 | 7.0 |
| Pennant II | 7.3 | 7.0 | 7.0 | 7.0 | 6.7 | 7.0 | 7.0 |
| SR 4420 | 7.2 | 7.2 | 7.0 | 6.8 | 6.8 | 6.8 | 7.0 |
| Premier II | 7.0 | 7.0 | 7.2 | 7.0 | 6.8 | 6.8 | 7.0 |
| Tophat II | 7.3 | 7.0 | 7.0 | 7.0 | 6.8 | 6.5 | 6.9 |
| Pacesetter | 6.8 | 7.0 | 7.2 | 6.8 | 6.8 | 6.8 | 6.9 |
| LP 40C | 7.0 | 6.7 | 7.2 | 7.2 | 6.5 | 7.0 | 6.9 |
| Ragtime | 7.0 | 6.8 | 7.3 | 7.2 | 6.3 | 6.7 | 6.9 |
| Roadster | 7.2 | 7.0 | 7.0 | 6.7 | 6.3 | 6.8 | 6.8 |
| 1G2 | 6.5 | 7.0 | 7.0 | 6.8 | 6.8 | 6.8 | 6.8 |
| Experimental | 6.8 | 7.0 | 7.2 | 7.0 | 6.5 | 6.5 | 6.8 |
| Ringer | 6.8 | 7.0 | 6.8 | 6.8 | 6.5 | 6.8 | 6.8 |
| Brightstar SLT | 6.7 | 6.8 | 7.0 | 6.8 | 6.8 | 6.7 | 6.8 |
| Pinnacle II | 6.5 | 6.8 | 6.8 | 6.8 | 6.7 | 6.8 | 6.8 |
| Dart | 6.2 | 7.0 | 6.8 | 6.8 | 6.5 | 6.5 | 6.6 |
| Penguin | 6.3 | 6.7 | 6.7 | 6.8 | 6.3 | 6.8 | 6.6 |
| Saint | 5.5 | 6.7 | 6.5 | 6.7 | 6.3 | 6.7 | 6.4 |
| Indy | 6.2 | 6.7 | 6.3 | 6.3 | 5.8 | 7.0 | 6.4 |
| Pinstripe | 5.3 | 6.3 | 6.8 | 6.8 | 6.2 | 6.7 | 6.4 |
| Victorian Rye | 5.3 | 5.8 | 5.5 | 5.8 | 4.5 | 4.5 | 5.2 |
| Matilda | 4.7 | 5.0 | 4.7 | 4.8 | 3.7 | 4.5 | 4.6 |
| LSD (P<0.05) | 0.8 | 0.3 | 0.5 | 0.4 | 0.5 | 0.6 | 0.3 |

Table 4.1.8: Overall ranking of each perennial ryegrass variety for turfgrass density after two years.

| Variety | Yr 1 Ave | Yr 2 Ave | Overall | Ranking |
|------------------------|------------|------------|------------|---------|
| Cutter 2 | 7.5 | 7.3 | 7.4 | a |
| Fiesta 4 | 7.3 | 7.3 | 7.3 | ab |
| Derby Xtreme | 7.2 | 7.4 | 7.3 | ab |
| Keystone 2 | 7.4 | 7.1 | 7.3 | ab |
| All Star 3 | 7.3 | 7.2 | 7.2 | abc |
| SR 4600 | 7.1 | 7.3 | 7.2 | abc |
| Premier II | 7.3 | 7.0 | 7.1 | abcd |
| Harrier 2 | 7.2 | 7.1 | 7.1 | abcd |
| SR 4220 | 7.1 | 7.1 | 7.1 | abcd |
| Citation Fore | 7.1 | 7.1 | 7.1 | abcd |
| Arena 2 | 7.1 | 7.1 | 7.1 | abcd |
| PR 8821 | 7.0 | 7.1 | 7.0 | bcd |
| Regal 5 | 6.9 | 7.1 | 7.0 | bcd |
| Mach 1 | 7.0 | 7.0 | 7.0 | bcd |
| Integra | 6.9 | 7.1 | 7.0 | bcd |
| Pennant III | 6.9 | 7.1 | 7.0 | bcd |
| LP 4317 | 6.9 | 7.1 | 7.0 | bcd |
| Penguin II | 6.9 | 7.0 | 7.0 | bcd |
| Pennant II | 6.9 | 7.0 | 7.0 | bcd |
| Atlas | 6.9 | 7.0 | 7.0 | bcd |
| LP 40C | 7.0 | 6.9 | 7.0 | bcd |
| Tophat II | 6.9 | 6.9 | 6.9 | cd |
| SR 4420 | 6.9 | 7.0 | 6.9 | cd |
| Centurion | 6.8 | 7.0 | 6.9 | cd |
| Brightstar SLT | 7.0 | 6.8 | 6.9 | cd |
| Ragtime | 6.9 | 6.9 | 6.9 | cd |
| Pinnacle II | 6.9 | 6.8 | 6.8 | de |
| Ringer | 6.9 | 6.8 | 6.8 | de |
| 1G2 | 6.9 | 6.8 | 6.8 | de |
| Pacesetter | 6.8 | 6.9 | 6.8 | de |
| Dart | 7.0 | 6.6 | 6.8 | de |
| Roadster | 6.8 | 6.8 | 6.8 | de |
| Experimental | 6.8 | 6.8 | 6.8 | de |
| Penguin | 6.5 | 6.6 | 6.5 | ef |
| Indy | 6.6 | 6.4 | 6.5 | ef |
| Saint | 6.4 | 6.4 | 6.4 | fg |
| Pinstripe | 6.4 | 6.4 | 6.4 | fg |
| Victorian Rye | 5.3 | 5.2 | 5.3 | h |
| Matilda | 4.8 | 4.6 | 4.7 | i |
| LSD (P<0.05) | 0.3 | 0.3 | 0.3 | |

Table 4.1.9: First year results for leaf shredding of perennial ryegrass varieties (0-9)

| Variety | 16/1/07 | 20/3/07 | 22/5/07 | 2/7/07 | 10/9/07 | 23/11/07 | Average |
|------------------------|------------|------------|------------|-----------|-----------|------------|------------|
| Victorian Rye | 3.5 | 3.0 | 1.0 | 0.0 0.0 | | 2.5 | 1.7 |
| Matilda | 2.3 | 1.7 | 1.0 | 0.0 0.0 | | 1.0 | 1.0 |
| Indy | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.3 | 0.1 |
| Atlas | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.3 | 0.1 |
| Tophat II | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Penguin II | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| SR 4600 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| SR 4420 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| SR 4220 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Dart | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Saint | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Roadster | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Ringer | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Regal 5 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Ragtime | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| PR 8821 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Cutter 2 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Pinstripe | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Pinnacle II | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Centurion | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| 1G2 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Integra | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Fiesta 4 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Mach 1 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Pennant III | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Pennant II | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Penguin | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Pacesetter | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| LP 4317 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| LP 40C | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Premier II | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Citation Fore | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Brightstar SLT | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Keystone 2 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Harrier 2 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Derby Xtreme | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Experimental | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| Arena 2 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | 0.0 | 0.0 |
| All Star 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LSD (P<0.05) | 0.1 | 0.1 | 0.2 | ns | ns | 0.1 | 0.1 |

Table 4.1.10: Second year results for leaf shredding of perennial ryegrass varieties (0-9)

| Variety | 16/1/08 | 19/3/08 | 21/5/08 | 1/7/08 | 11/9/08 | 28/11/08 | Average |
|------------------------|-----------|------------|------------|------------|------------|------------|------------|
| Victorian Rye | 0.0 | 2.0 | 4.0 | 3.0 | 2.5 | 2.5 | 2.3 |
| Matilda | 0.0 | 1.7 | 3.0 | 1.7 | 1.7 | 1.3 | 1.6 |
| Tophat II | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Penguin II | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SR 4600 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SR 4420 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SR 4220 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dart | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Saint | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Roadster | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ringer | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Regal 5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ragtime | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PR 8821 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cutter 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pinstripe | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pinnacle II | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Centurion | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1G2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Integra | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fiesta 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Mach 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pennant III | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pennant II | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Penguin | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pacesetter | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LP 4317 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LP 40C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Premier II | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Citation Fore | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Brightstar SLT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Keystone 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indy | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Harrier 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Derby Xtreme | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Experimental | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Atlas | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Arena 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| All Star 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| LSD (P<0.05) | ns | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 |

Table 4.1.11: Overall ranking of each perennial ryegrass variety for leaf shredding after two years.

| Variety | Yr 1 Ave | Yr 2 Ave | Overall | Ranking |
|------------------------|------------|------------|------------|---------|
| Victorian Rye | 1.7 | 2.3 | 2.0 | a |
| Matilda | 1.0 | 1.6 | 1.3 | b |
| Indy | 0.1 | 0.0 | 0.0 | c |
| Atlas | 0.1 | 0.0 | 0.0 | c |
| Tophat II | 0.0 | 0.0 | 0.0 | c |
| Penguin II | 0.0 | 0.0 | 0.0 | c |
| SR 4600 | 0.0 | 0.0 | 0.0 | c |
| SR 4420 | 0.0 | 0.0 | 0.0 | c |
| SR 4220 | 0.0 | 0.0 | 0.0 | c |
| Dart | 0.0 | 0.0 | 0.0 | c |
| Saint | 0.0 | 0.0 | 0.0 | c |
| Roadster | 0.0 | 0.0 | 0.0 | c |
| Ringer | 0.0 | 0.0 | 0.0 | c |
| Regal 5 | 0.0 | 0.0 | 0.0 | c |
| Ragtime | 0.0 | 0.0 | 0.0 | c |
| PR 8821 | 0.0 | 0.0 | 0.0 | c |
| Cutter 2 | 0.0 | 0.0 | 0.0 | c |
| Pinstripe | 0.0 | 0.0 | 0.0 | c |
| Pinnacle II | 0.0 | 0.0 | 0.0 | c |
| Centurion | 0.0 | 0.0 | 0.0 | c |
| 1G2 | 0.0 | 0.0 | 0.0 | c |
| Integra | 0.0 | 0.0 | 0.0 | c |
| Fiesta 4 | 0.0 | 0.0 | 0.0 | c |
| Mach 1 | 0.0 | 0.0 | 0.0 | c |
| Pennant III | 0.0 | 0.0 | 0.0 | c |
| Pennant II | 0.0 | 0.0 | 0.0 | c |
| Penguin | 0.0 | 0.0 | 0.0 | c |
| Pacesetter | 0.0 | 0.0 | 0.0 | c |
| LP 4317 | 0.0 | 0.0 | 0.0 | c |
| LP 40C | 0.0 | 0.0 | 0.0 | c |
| Premier II | 0.0 | 0.0 | 0.0 | c |
| Citation Fore | 0.0 | 0.0 | 0.0 | c |
| Brightstar SLT | 0.0 | 0.0 | 0.0 | c |
| Keystone 2 | 0.0 | 0.0 | 0.0 | c |
| Harrier 2 | 0.0 | 0.0 | 0.0 | c |
| Derby Xtreme | 0.0 | 0.0 | 0.0 | c |
| Experimental | 0.0 | 0.0 | 0.0 | c |
| Arena 2 | 0.0 | 0.0 | 0.0 | c |
| All Star 3 | 0.0 | 0.0 | 0.0 | c |
| LSD (P<0.05) | 0.1 | 0.1 | 0.1 | |

Table 4.1.12: First year results for Incidence of disease in perennial ryegrass varieties (0-9)

Disease only occurred during a two month period over autumn in the first year and was rated on a visual estimate of damage that had been caused to the surface. The disease pathogens present were *Curvularia* spp. and *Drechslera* spp. The scores range from 0 – no damage to 9 – complete loss of turf.

| Variety | 18/4/07 | 24/4/07 | 22/5/07 | Average |
|------------------------|------------|------------|------------|------------|
| Penguin | 3.7 | 5.3 | 4.0 | 4.3 |
| Saint | 2.3 | 3.3 | 2.8 | 2.8 |
| Indy | 1.0 | 3.0 | 2.7 | 2.2 |
| Pinstripe | 1.3 | 2.2 | 2.0 | 1.8 |
| PR 8821 | 0.2 | 2.0 | 0.7 | 0.9 |
| Victorian Rye | 0.0 | 1.8 | 1.0 | 0.9 |
| Roadster | 0.0 | 1.5 | 1.0 | 0.8 |
| Matilda | 0.0 | 1.8 | 0.7 | 0.8 |
| Pennant III | 0.2 | 1.3 | 0.7 | 0.7 |
| Pennant II | 0.3 | 0.5 | 1.0 | 0.6 |
| Ragtime | 0.2 | 1.2 | 0.3 | 0.6 |
| 1G2 | 0.3 | 0.8 | 0.3 | 0.5 |
| Penguin II | 0.0 | 0.8 | 0.3 | 0.4 |
| Dart | 0.0 | 0.8 | 0.2 | 0.3 |
| LP 40C | 0.0 | 0.5 | 0.5 | 0.3 |
| Brightstar SLT | 0.0 | 0.7 | 0.3 | 0.3 |
| Pinnacle II | 0.2 | 0.5 | 0.2 | 0.3 |
| Atlas | 0.0 | 0.2 | 0.7 | 0.3 |
| Tophat II | 0.0 | 0.5 | 0.2 | 0.2 |
| Ringer | 0.0 | 0.3 | 0.3 | 0.2 |
| Centurion | 0.0 | 0.3 | 0.3 | 0.2 |
| Integra | 0.0 | 0.3 | 0.2 | 0.2 |
| Pacesetter | 0.0 | 0.3 | 0.2 | 0.2 |
| LP 4317 | 0.0 | 0.3 | 0.2 | 0.2 |
| Experimental | 0.0 | 0.5 | 0.0 | 0.2 |
| Regal 5 | 0.0 | 0.2 | 0.2 | 0.1 |
| SR 4220 | 0.0 | 0.2 | 0.0 | 0.1 |
| Premier II | 0.0 | 0.2 | 0.0 | 0.1 |
| Citation Fore | 0.0 | 0.2 | 0.0 | 0.1 |
| Keystone 2 | 0.0 | 0.0 | 0.2 | 0.1 |
| Harrier 2 | 0.0 | 0.2 | 0.0 | 0.1 |
| SR 4600 | 0.0 | 0.0 | 0.0 | 0.0 |
| SR 4420 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cutter 2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fiesta 4 | 0.0 | 0.0 | 0.0 | 0.0 |
| Mach 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Derby Xtreme | 0.0 | 0.0 | 0.0 | 0.0 |
| Arena 2 | 0.0 | 0.0 | 0.0 | 0.0 |
| All Star 3 | 0.0 | 0.0 | 0.0 | 0.0 |
| LSD (P<0.05) | 0.6 | 1.0 | 1.0 | 0.7 |

Table 4.1.13: Overall ranking for incidence of disease based on the one occasion during the first year when *Curvularia* spp. and *Drechslera* spp. were identified.

| Variety | Yr 1 Ave | Ranking |
|------------------------|------------|---------|
| Penguin | 4.3 | a |
| Saint | 2.8 | b |
| Indy | 2.2 | bc |
| Pinstripe | 1.8 | c |
| PR 8821 | 0.9 | d |
| Victorian Rye | 0.9 | d |
| Roadster | 0.8 | de |
| Matilda | 0.8 | de |
| Pennant III | 0.7 | def |
| Pennant II | 0.6 | def |
| Ragtime | 0.6 | def |
| 1G2 | 0.5 | def |
| Penguin II | 0.4 | def |
| Dart | 0.3 | def |
| LP 40C | 0.3 | def |
| Brightstar SLT | 0.3 | def |
| Pinnacle II | 0.3 | def |
| Atlas | 0.3 | def |
| Tophat II | 0.2 | def |
| Ringer | 0.2 | def |
| Centurion | 0.2 | def |
| Integra | 0.2 | def |
| Pacesetter | 0.2 | def |
| LP 4317 | 0.2 | def |
| Experimental | 0.2 | def |
| Regal 5 | 0.1 | ef |
| SR 4220 | 0.1 | ef |
| Premier II | 0.1 | ef |
| Citation Fore | 0.1 | ef |
| Keystone 2 | 0.1 | ef |
| Harrier 2 | 0.1 | ef |
| SR 4600 | 0.0 | f |
| SR 4420 | 0.0 | f |
| Cutter 2 | 0.0 | f |
| Fiesta 4 | 0.0 | f |
| Mach 1 | 0.0 | f |
| Derby Xtreme | 0.0 | f |
| Arena 2 | 0.0 | f |
| All Star 3 | 0.0 | f |
| LSD (P<0.05) | 0.7 | |

Table 4.1.14: Autumn growth of perennial ryegrass varieties in the first and second years

| Variety | Yr 1 | Yr 2 | Overall | Ranking |
|------------------------|------------|------------|------------|---------|
| Matilda | 7.0 | 7.0 | 7.0 | a |
| Victorian Rye | 6.0 | 6.3 | 6.1 | b |
| PR 8821 | 5.3 | 4.3 | 4.8 | c |
| SR 4600 | 5.0 | 4.5 | 4.8 | c |
| SR 4220 | 5.0 | 4.5 | 4.8 | c |
| Centurion | 4.7 | 4.8 | 4.8 | c |
| Regal 5 | 4.7 | 4.5 | 4.6 | cd |
| Brightstar SLT | 4.3 | 4.8 | 4.6 | cd |
| Tophat II | 4.3 | 4.7 | 4.5 | cde |
| Premier II | 4.7 | 4.3 | 4.5 | cde |
| Pennant II | 4.3 | 4.7 | 4.5 | cde |
| Arena 2 | 4.7 | 4.3 | 4.5 | cde |
| Citation Fore | 4.7 | 4.3 | 4.5 | cde |
| Roadster | 4.3 | 4.5 | 4.4 | cdef |
| Ringer | 4.3 | 4.5 | 4.4 | cdef |
| Ragtime | 4.3 | 4.5 | 4.4 | cdef |
| 1G2 | 4.3 | 4.5 | 4.4 | cdef |
| SR 4420 | 4.0 | 4.7 | 4.3 | cdef |
| Dart | 4.0 | 4.7 | 4.3 | cdef |
| Pacesetter | 4.0 | 4.7 | 4.3 | cdef |
| Penguin II | 4.3 | 4.3 | 4.3 | cdef |
| LP 4317 | 4.3 | 4.3 | 4.3 | cdef |
| Indy | 3.7 | 5.0 | 4.3 | cdef |
| Pinnacle II | 4.0 | 4.5 | 4.3 | cdef |
| Pennant III | 4.0 | 4.5 | 4.3 | cdef |
| Experimental | 4.0 | 4.5 | 4.3 | cdef |
| Atlas | 3.7 | 4.7 | 4.2 | cdef |
| Cutter 2 | 4.0 | 4.3 | 4.2 | cdef |
| LP 40C | 4.0 | 4.3 | 4.2 | cdef |
| Keystone 2 | 4.0 | 4.3 | 4.2 | cdef |
| Derby Xtreme | 4.0 | 4.3 | 4.2 | cdef |
| Fiesta 4 | 4.0 | 4.2 | 4.1 | def |
| Mach 1 | 4.0 | 4.2 | 4.1 | def |
| All Star 3 | 4.0 | 4.2 | 4.1 | def |
| Saint | 3.7 | 4.5 | 4.1 | def |
| Integra | 3.7 | 4.5 | 4.1 | def |
| Harrier 2 | 3.7 | 4.3 | 4.0 | def |
| Pinstripe | 3.3 | 4.5 | 3.9 | ef |
| Penguin | 3.3 | 4.3 | 3.8 | f |
| LSD (P<0.05) | 0.9 | 0.5 | 0.6 | |

Table 4.1.15: Winter growth of perennial ryegrass varieties in the first and second years

| Variety | Yr 1 | Yr 2 | Overall | Ranking |
|------------------------|------------|------------|------------|---------|
| Matilda | 7.7 | 7.3 | 7.5 | a |
| Victorian Rye | 6.5 | 5.8 | 6.1 | b |
| Atlas | 5.7 | 5.0 | 5.3 | c |
| PR 8821 | 5.3 | 5.3 | 5.3 | c |
| SR 4600 | 5.0 | 5.2 | 5.1 | cd |
| Saint | 5.2 | 5.0 | 5.1 | cd |
| 1G2 | 5.0 | 5.2 | 5.1 | cd |
| Pacesetter | 5.0 | 5.2 | 5.1 | cd |
| Indy | 5.0 | 5.2 | 5.1 | cd |
| Centurion | 5.3 | 4.8 | 5.1 | cd |
| SR 4420 | 5.0 | 5.0 | 5.0 | cde |
| Pennant II | 5.0 | 5.0 | 5.0 | cde |
| Harrier 2 | 5.0 | 5.0 | 5.0 | cde |
| Ragtime | 4.7 | 5.2 | 4.9 | cdef |
| Derby Xtreme | 4.7 | 5.2 | 4.9 | cdef |
| Integra | 5.0 | 4.8 | 4.9 | cdef |
| Arena 2 | 5.0 | 4.8 | 4.9 | cdef |
| Premier II | 4.7 | 5.0 | 4.8 | def |
| LP 4317 | 4.7 | 5.0 | 4.8 | def |
| Penguin II | 4.7 | 4.8 | 4.8 | def |
| SR 4220 | 4.7 | 4.8 | 4.8 | def |
| Dart | 4.7 | 4.8 | 4.8 | def |
| Pinnacle II | 4.3 | 5.2 | 4.8 | def |
| Fiesta 4 | 4.7 | 4.8 | 4.8 | def |
| Mach 1 | 4.7 | 4.8 | 4.8 | def |
| LP 40C | 4.7 | 4.8 | 4.8 | def |
| Brightstar SLT | 4.7 | 4.8 | 4.8 | def |
| Keystone 2 | 4.7 | 4.8 | 4.8 | def |
| Tophat II | 4.7 | 4.7 | 4.7 | def |
| Ringer | 4.7 | 4.7 | 4.7 | def |
| All Star 3 | 4.3 | 5.0 | 4.7 | def |
| Citation Fore | 4.7 | 4.5 | 4.6 | ef |
| Roadster | 4.3 | 4.8 | 4.6 | ef |
| Regal 5 | 4.3 | 4.8 | 4.6 | ef |
| Cutter 2 | 4.3 | 4.8 | 4.6 | ef |
| Pennant III | 4.3 | 4.8 | 4.6 | ef |
| Experimental | 4.3 | 4.8 | 4.6 | ef |
| Pinstripe | 4.3 | 4.7 | 4.5 | f |
| Penguin | 4.0 | 5.0 | 4.5 | f |
| LSD (P<0.05) | 0.7 | 0.5 | 0.4 | |

Table 4.1.16: Spring growth of perennial ryegrass varieties in the first and second years

| Variety | Yr 1 | Yr 2 | Overall | Ranking |
|------------------------|------------|------------|------------|---------|
| Victorian Rye | 7.8 | 7.5 | 7.6 | a |
| Matilda | 7.3 | 7.2 | 7.3 | ab |
| Indy | 6.5 | 5.5 | 6.0 | c |
| Saint | 6.0 | 5.8 | 5.9 | cd |
| Experimental | 6.0 | 5.8 | 5.9 | cd |
| Centurion | 6.0 | 5.7 | 5.8 | cde |
| Pennant II | 6.2 | 5.5 | 5.8 | cde |
| Tophat II | 5.8 | 5.8 | 5.8 | cde |
| SR 4420 | 6.2 | 5.2 | 5.7 | cdef |
| Pacesetter | 5.8 | 5.5 | 5.7 | cdef |
| Atlas | 6.0 | 5.3 | 5.7 | cdef |
| Roadster | 5.5 | 5.7 | 5.6 | cdefg |
| Ringer | 6.0 | 5.2 | 5.6 | cdefg |
| PR 8821 | 5.7 | 5.5 | 5.6 | cdefg |
| Penguin | 5.8 | 5.3 | 5.6 | cdefg |
| Penguin II | 5.8 | 5.2 | 5.5 | cdefgh |
| SR 4220 | 5.8 | 5.2 | 5.5 | cdefgh |
| Dart | 5.5 | 5.3 | 5.4 | defghi |
| 1G2 | 5.5 | 5.3 | 5.4 | defghi |
| Mach 1 | 6.0 | 4.8 | 5.4 | defghi |
| LP 4317 | 5.5 | 5.3 | 5.4 | defghi |
| Brightstar SLT | 5.7 | 5.0 | 5.3 | efghi |
| Harrier 2 | 5.5 | 5.2 | 5.3 | efghi |
| Citation Fore | 5.7 | 5.0 | 5.3 | efghi |
| All Star 3 | 5.7 | 5.0 | 5.3 | efghi |
| Regal 5 | 5.3 | 5.3 | 5.3 | efghi |
| Premier II | 5.5 | 5.0 | 5.3 | efghi |
| Arena 2 | 5.8 | 4.7 | 5.3 | efghi |
| SR 4600 | 5.7 | 4.7 | 5.2 | fghi |
| Keystone 2 | 5.2 | 5.2 | 5.2 | fghi |
| Ragtime | 5.3 | 5.0 | 5.2 | fghi |
| Integra | 5.5 | 4.8 | 5.2 | fghi |
| LP 40C | 4.8 | 5.5 | 5.2 | fghi |
| Pinnacle II | 5.0 | 5.2 | 5.1 | ghi |
| Cutter 2 | 5.3 | 4.8 | 5.1 | ghi |
| Fiesta 4 | 5.3 | 4.8 | 5.1 | ghi |
| Derby Xtreme | 5.3 | 4.8 | 5.1 | ghi |
| Pennant III | 4.8 | 5.2 | 5.0 | hi |
| Pinstripe | 4.8 | 5.0 | 4.9 | i |
| LSD (P<0.05) | 0.5 | 0.7 | 0.5 | |

Table 4.1.17: Summer growth of perennial ryegrass varieties in the first and second years

| Variety | Yr 1 | Yr 2 | Overall | Ranking |
|------------------------|------------|------------|------------|---------|
| Victorian Rye | 7.3 | 7.5 | 7.4 | a |
| Matilda | 7.3 | 7.3 | 7.3 | a |
| Ragtime | 6.0 | 5.7 | 5.8 | b |
| Pacesetter | 6.0 | 5.7 | 5.8 | b |
| Indy | 6.0 | 5.7 | 5.8 | b |
| Saint | 5.7 | 5.7 | 5.7 | bc |
| Experimental | 5.7 | 5.7 | 5.7 | bc |
| Atlas | 5.5 | 5.8 | 5.7 | bc |
| PR 8821 | 5.7 | 5.5 | 5.6 | bcd |
| SR 4220 | 5.3 | 5.7 | 5.5 | bcde |
| Brightstar SLT | 5.5 | 5.5 | 5.5 | bcde |
| Arena 2 | 5.7 | 5.3 | 5.5 | bcde |
| SR 4600 | 5.5 | 5.3 | 5.4 | cdef |
| Ringer | 5.3 | 5.5 | 5.4 | cdef |
| Centurion | 5.3 | 5.5 | 5.4 | cdef |
| Pennant II | 5.5 | 5.3 | 5.4 | cdef |
| Tophat II | 5.3 | 5.3 | 5.3 | defg |
| SR 4420 | 5.3 | 5.3 | 5.3 | defg |
| 1G2 | 5.3 | 5.3 | 5.3 | defg |
| Mach 1 | 5.3 | 5.3 | 5.3 | defg |
| Penguin II | 5.2 | 5.3 | 5.3 | defg |
| Pinstripe | 5.2 | 5.3 | 5.3 | defg |
| Integra | 5.2 | 5.3 | 5.3 | defg |
| Fiesta 4 | 5.0 | 5.5 | 5.3 | defg |
| LP 4317 | 5.2 | 5.3 | 5.3 | defg |
| Keystone 2 | 5.2 | 5.3 | 5.3 | defg |
| Harrier 2 | 5.2 | 5.3 | 5.3 | defg |
| Derby Xtreme | 5.0 | 5.5 | 5.3 | defg |
| Citation Fore | 5.2 | 5.3 | 5.3 | defg |
| Roadster | 5.2 | 5.2 | 5.2 | efg |
| Premier II | 5.2 | 5.2 | 5.2 | efg |
| Dart | 5.0 | 5.2 | 5.1 | fg |
| Cutter 2 | 5.2 | 5.0 | 5.1 | fg |
| LP 40C | 5.0 | 5.2 | 5.1 | fg |
| All Star 3 | 5.0 | 5.2 | 5.1 | fg |
| Regal 5 | 5.0 | 5.0 | 5.0 | g |
| Pinnacle II | 5.0 | 5.0 | 5.0 | g |
| Pennant III | 4.8 | 5.2 | 5.0 | g |
| Penguin | 5.0 | 5.0 | 5.0 | g |
| LSD (P<0.05) | 0.5 | 0.5 | 0.3 | |

4.2 RESULTS – TALL FESCUE

Table 4.2.1: Percent cover of tall fescue during establishment (0 - 9)

| Variety | 14 DAS | 21 DAS | 1 MAS | 2 MAS | 3 MAS |
|------------------------|-----------|-----------|-----------|-----------|------------|
| Jamboree | 1.7 | 3.3 | 5.0 | 7.0 | 8.3 |
| Constitution | 2.0 | 3.3 | 4.7 | 7.0 | 8.0 |
| Grande II | 1.3 | 3.3 | 5.0 | 6.7 | 8.0 |
| Bullseye | 1.8 | 3.7 | 5.3 | 6.7 | 8.0 |
| Essential | 1.7 | 3.0 | 4.3 | 6.3 | 8.0 |
| Tarheel II | 1.7 | 3.3 | 5.0 | 6.0 | 8.0 |
| Regiment II | 1.7 | 3.0 | 4.7 | 6.7 | 7.7 |
| Barlexas II | 1.7 | 3.0 | 4.3 | 6.7 | 7.7 |
| SR 8600 | 1.3 | 3.3 | 5.3 | 6.3 | 7.7 |
| RTF | 1.0 | 2.7 | 4.3 | 6.0 | 7.7 |
| Barvado | 1.7 | 3.3 | 4.7 | 6.0 | 7.7 |
| Rebel 4 | 1.7 | 3.0 | 4.7 | 7.0 | 7.3 |
| Shelby | 1.3 | 2.7 | 4.7 | 6.3 | 7.3 |
| Turbo RZ | 1.3 | 2.7 | 4.7 | 6.3 | 7.3 |
| Justice | 1.7 | 2.7 | 4.3 | 6.0 | 7.3 |
| Hounddog 6 | 0.8 | 2.0 | 3.3 | 5.3 | 7.3 |
| Rhizing Star | 1.7 | 3.3 | 4.3 | 5.7 | 7.0 |
| Escalade | 1.5 | 2.7 | 4.0 | 6.0 | 6.7 |
| LSD (P<0.05) | ns | ns | ns | ns | 0.7 |

Table 4.2.2: Turfgrass vigour of tall fescue during establishment (0 - 9)

| Variety | 21 DAS | 1 MAS |
|------------------------|-----------|-----------|
| Rhizing Star | 4.3 | 5.3 |
| Escalade | 3.7 | 5.3 |
| Shelby | 4.0 | 5.0 |
| Constitution | 4.7 | 5.0 |
| Essential | 4.0 | 5.0 |
| Barlexas II | 4.0 | 5.0 |
| Justice | 3.7 | 4.7 |
| Jamboree | 3.3 | 4.7 |
| Grande II | 4.3 | 4.7 |
| Barvado | 4.3 | 4.7 |
| Rebel 4 | 4.0 | 4.7 |
| Tarheel II | 4.7 | 4.3 |
| SR 8600 | 4.7 | 4.3 |
| Hounddog 6 | 3.3 | 4.3 |
| RTF | 4.0 | 4.3 |
| Bullseye | 4.7 | 4.3 |
| Regiment II | 4.0 | 4.0 |
| Turbo RZ | 3.7 | 4.0 |
| LSD (P<0.05) | ns | ns |

Table 4.2.3: First year results for colour of tall fescue varieties (0-9)

| Variety | 16/1/07 | 20/3/07 | 22/5/07 | 2/7/07 | 10/9/07 | 23/11/07 | Average |
|------------------------|-----------|-----------|------------|------------|-----------|-----------|-----------|
| Regiment II | 6.0 | 6.0 | 6.5 | 5.5 | 6.7 | 7.2 | 6.3 |
| Turbo RZ | 6.3 | 6.0 | 6.3 | 5.5 6.5 | | 7.2 | 6.3 |
| Rebel 4 | 6.0 | 6.3 | 6.0 | 5.5 | 6.5 | 7.2 | 6.3 |
| Shelby | 6.0 | 6.2 | 6.0 | 5.5 6.5 | | 7.2 | 6.2 |
| Hounddog 6 | 6.0 | 6.0 | 6.3 | 5.5 6.5 | | 7.0 | 6.2 |
| Bullseye | 6.0 | 6.0 | 6.0 | 5.5 | 6.5 | 7.2 | 6.2 |
| Jamboree | 6.0 | 6.2 | 6.0 | 5.3 6.5 | | 7.0 | 6.2 |
| Constitution | 6.0 | 5.5 | 6.2 | 5.5 | 6.5 | 7.2 | 6.1 |
| Justice | 6.0 | 5.5 | 6.2 | 5.7 6.5 | | 7.0 | 6.1 |
| Barlexas II | 6.0 | 6.0 | 5.8 | 5.5 | 6.5 | 7.0 | 6.1 |
| Barvado | 6.0 | 5.7 | 6.0 | 5.5 6.5 | | 7.0 | 6.1 |
| Essential | 6.3 | 5.7 | 6.0 | 5.5 | 6.5 | 6.7 | 6.1 |
| SR 8600 | 6.0 | 5.5 | 6.0 | 5.5 6.5 | | 7.0 | 6.1 |
| RTF | 6.0 | 5.7 | 6.0 | 5.5 | 6.3 | 6.8 | 6.1 |
| Grande II | 6.0 | 5.5 | 6.0 | 5.3 6.5 | | 7.0 | 6.1 |
| Escalade | 6.0 | 5.3 | 6.0 | 5.5 6.5 | | 6.8 | 6.0 |
| Tarheel II | 6.0 | 5.5 | 5.8 | 5.3 | 6.5 | 6.8 | 6.0 |
| Rhizing Star | 6.0 | 5.7 | 6.0 | 5.0 6.3 | | 6.7 | 5.9 |
| LSD (P<0.05) | ns | ns | 0.3 | 0.2 | ns | ns | ns |

Table 4.2.4: Second year results for colour of tall fescue varieties (0-9)

| Variety | 16/1/08 | 19/3/08 | 21/5/08 | 1/7/08 | 11/9/08 | 28/11/08 | Average |
|------------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Regiment II | 7.3 | 6.7 | 6.8 | 6.8 | 6.8 | 6.3 | 6.8 |
| Turbo RZ | 6.8 | 6.7 | 7.0 | 6.8 7.0 | | 6.3 | 6.8 |
| Hounddog 6 | 7.0 | 6.7 | 6.8 | 6.7 6.8 | | 6.2 | 6.7 |
| Shelby | 6.5 | 6.8 | 7.0 | 6.7 6.8 | | 6.2 | 6.7 |
| Justice | 6.7 | 6.7 | 7.0 | 6.7 6.8 | | 6.2 | 6.7 |
| Barvado | 6.5 | 6.7 | 7.0 | 6.8 6.8 | | 6.2 | 6.7 |
| Rebel 4 | 6.7 | 6.8 | 6.8 | 6.7 | 6.7 | 6.3 | 6.7 |
| Bullseye | 6.5 | 6.5 | 7.0 | 6.8 | 6.8 | 6.3 | 6.7 |
| Grande II | 6.8 | 6.5 | 7.0 | 6.5 6.8 | | 6.2 | 6.6 |
| Constitution | 6.5 | 6.5 | 6.7 | 6.8 | 6.8 | 6.3 | 6.6 |
| Essential | 6.5 | 6.7 | 7.0 | 6.7 | 6.8 | 6.0 | 6.6 |
| RTF | 6.7 | 6.5 | 6.8 | 6.5 | 6.8 | 6.3 | 6.6 |
| Jamboree | 6.5 | 6.7 | 7.0 | 6.5 6.7 | | 6.2 | 6.6 |
| Barlexas II | 6.7 | 6.7 | 6.8 | 6.5 | 6.7 | 6.0 | 6.6 |
| SR 8600 | 6.7 | 6.7 | 6.7 | 6.5 6.5 | | 6.2 | 6.5 |
| Rhizing Star | 6.5 | 6.5 | 6.8 | 6.5 6.5 | | 6.3 | 6.5 |
| Tarheel II | 6.5 | 6.5 | 6.8 | 6.3 | 6.7 | 6.2 | 6.5 |
| Escalade | 6.5 | 6.5 | 6.8 | 6.5 6.5 | | 6.2 | 6.5 |
| LSD (P<0.05) | 0.3 | ns | ns | ns | ns | ns | ns |

Table 4.2.5: Overall ranking of each tall fescue variety for turfgrass colour after two years.

| Variety | Yr 1 Ave | Yr 2 Ave | Overall | Ranking |
|------------------------|-----------|-----------|------------|---------|
| Regiment II | 6.3 | 6.8 | 6.6 | a |
| Turbo RZ | 6.3 | 6.8 | 6.5 | ab |
| Hounddog 6 | 6.2 | 6.7 | 6.5 | ab |
| Rebel 4 | 6.3 | 6.7 | 6.5 | ab |
| Shelby | 6.2 | 6.7 | 6.4 | abc |
| Bullseye | 6.2 | 6.7 | 6.4 | abc |
| Justice | 6.1 | 6.7 | 6.4 | abc |
| Barvado | 6.1 | 6.7 | 6.4 | abc |
| Constitution | 6.1 | 6.6 | 6.4 | abc |
| Jamboree | 6.2 | 6.6 | 6.4 | abc |
| Essential | 6.1 | 6.6 | 6.4 | abc |
| Grande II | 6.1 | 6.6 | 6.3 | bc |
| Barlexas II | 6.1 | 6.6 | 6.3 | bc |
| RTF | 6.1 | 6.6 | 6.3 | bc |
| SR 8600 | 6.1 | 6.5 | 6.3 | bc |
| Escalade | 6.0 | 6.5 | 6.3 | bc |
| Tarheel II | 6.0 | 6.5 | 6.3 | bc |
| Rhizing Star | 5.9 | 6.5 | 6.2 | c |
| LSD (P<0.05) | ns | ns | 0.2 | |

Table 4.2.6: First year results for density of tall fescue varieties (0-9)

| Variety | 16/1/07 | 20/3/07 | 22/5/07 | 2/7/07 | 10/9/07 | 23/11/07 | Average |
|------------------------|------------|-----------|------------|------------|------------|------------|------------|
| Jamboree | 7.3 | 6.8 | 7.2 | 7.7 | 7.3 | 7.5 | 7.3 |
| Bullseye | 6.7 | 7.2 | 7.3 | 7.7 | 6.8 | 7.7 | 7.2 |
| Essential | 6.7 | 6.8 | 6.8 | 7.5 | 7.2 | 7.5 | 7.1 |
| Turbo RZ | 7.0 | 6.5 | 6.5 | 7.2 | 6.8 | 7.2 | 6.9 |
| Rebel 4 | 7.0 | 6.8 | 6.2 | 7.2 | 6.8 | 7.0 | 6.8 |
| Tarheel II | 7.0 | 6.5 | 6.3 | 6.8 | 6.5 | 6.8 | 6.7 |
| SR 8600 | 6.7 | 6.5 | 6.2 | 7.0 | 6.5 | 7.0 | 6.6 |
| Grande II | 7.0 | 6.3 | 6.0 | 7.0 | 6.5 | 7.0 | 6.6 |
| Barvado | 6.3 | 6.3 | 6.2 | 7.2 | 6.7 | 7.2 | 6.6 |
| Justice | 6.3 | 6.2 | 6.2 | 7.0 | 7.0 | 7.0 | 6.6 |
| Shelby | 6.3 | 6.5 | 6.2 | 6.8 | 6.7 | 7.0 | 6.6 |
| Constitution | 6.7 | 6.5 | 6.0 | 6.8 | 6.5 | 7.0 | 6.6 |
| Regiment II | 6.7 | 6.5 | 6.0 | 6.8 | 6.7 | 6.8 | 6.6 |
| Barlexas II | 6.7 | 6.7 | 6.0 | 6.7 | 6.5 | 7.0 | 6.6 |
| Escalade | 6.0 | 6.2 | 6.3 | 7.0 | 6.7 | 7.0 | 6.5 |
| Hounddog 6 | 6.0 | 6.3 | 6.0 | 6.7 | 6.5 | 7.0 | 6.4 |
| RTF | 6.3 | 6.3 | 6.0 | 6.7 | 6.3 | 6.8 | 6.4 |
| Rhizing Star | 5.7 | 6.3 | 6.0 | 7.0 | 6.3 | 7.0 | 6.4 |
| LSD (P<0.05) | 0.5 | ns | 0.3 | 0.4 | 0.4 | 0.3 | 0.3 |

Table 4.2.7: Second year results for density of tall fescue varieties (0-9)

| Variety | 16/1/08 | 19/3/08 | 21/5/08 | 1/7/08 | 11/9/08 | 28/11/08 | Average |
|------------------------|------------|------------|------------|------------|------------|------------|------------|
| Bullseye | 7.7 | 7.2 | 7.7 | 7.5 7 | .5 | 7.2 | 7.4 |
| Jamboree | 7.8 | 7.2 | 7.5 | 7.2 7 | .3 | 7.2 | 7.4 |
| Essential | 7.2 | 7.0 | 7.8 | 7.2 7 | .5 | 7.3 | 7.3 |
| Justice | 6.8 | 6.5 | 6.8 | 7.0 6 | .7 | 6.3 | 6.7 |
| Turbo RZ | 6.8 | 6.5 | 6.7 | 6.8 6 | .8 | 6.3 | 6.7 |
| Escalade | 6.7 | 6.5 | 6.8 | 6.7 6 | .7 | 6.3 | 6.6 |
| Rebel 4 | 6.7 | 6.7 | 6.8 | 6.7 6 | .7 | 6.2 | 6.6 |
| Grande II | 6.8 | 6.5 | 6.7 | 6.5 6 | .7 | 6.3 | 6.6 |
| Tarheel II | 6.8 | 6.5 | 6.5 | 6.7 6 | .5 | 6.2 | 6.5 |
| Barvado | 6.7 | 6.5 | 6.5 | 6.7 6 | .7 | 6.0 | 6.5 |
| SR 8600 | 6.7 | 6.5 | 6.7 | 6.5 6 | .5 | 6.0 | 6.5 |
| Regiment II | 6.7 | 6.5 | 6.7 | 6.5 6 | .5 | 6.0 | 6.5 |
| Hounddog 6 | 6.5 | 6.3 | 6.5 | 6.7 6 | .5 | 6.3 | 6.5 |
| Barlexas II | 6.7 | 6.5 | 6.7 | 6.5 6 | .5 | 6.0 | 6.5 |
| Shelby | 6.7 | 6.3 | 6.7 | 6.5 6 | .5 | 5.8 | 6.4 |
| Constitution | 6.7 | 6.2 | 6.5 | 6.5 6 | .5 | 6.0 | 6.4 |
| Rhizing Star | 6.5 | 6.3 | 6.3 | 6.3 6 | .5 | 6.0 | 6.3 |
| RTF | 6.3 | 6.3 | 6.5 | 6.3 6 | .3 | 6.0 | 6.3 |
| LSD (P<0.05) | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 |

Table 4.2.8: Overall ranking of each tall fescue variety for turfgrass density after two years.

| Variety | Yr 1 Ave | Yr 2 Ave | Overall | Ranking |
|------------------------|------------|------------|------------|---------|
| Jamboree | 7.3 | 7.4 | 7.3 | a |
| Bullseye | 7.2 | 7.4 | 7.3 | a |
| Essential | 7.1 | 7.3 | 7.2 | a |
| Turbo RZ | 6.9 | 6.7 | 6.8 | b |
| Rebel 4 | 6.8 | 6.6 | 6.7 | bc |
| Justice | 6.6 | 6.7 | 6.7 | bc |
| Grande II | 6.6 | 6.6 | 6.6 | bc |
| Tarheel II | 6.7 | 6.5 | 6.6 | bc |
| Barvado | 6.6 | 6.5 | 6.6 | bc |
| Escalade | 6.5 | 6.6 | 6.6 | bc |
| SR 8600 | 6.6 | 6.5 | 6.6 | bc |
| Regiment II | 6.6 | 6.5 | 6.5 | bc |
| Barlexas II | 6.6 | 6.5 | 6.5 | bc |
| Shelby | 6.6 | 6.4 | 6.5 | bc |
| Constitution | 6.6 | 6.4 | 6.5 | bc |
| Hounddog 6 | 6.4 | 6.5 | 6.4 | c |
| Rhizing Star | 6.4 | 6.3 | 6.4 | c |
| RTF | 6.4 | 6.3 | 6.4 | c |
| LSD (P<0.05) | 0.3 | 0.3 | 0.3 | |

Table 4.2.9: First year results for incidence of disease in tall fescue varieties (0-9)

| Variety | 24/4/07 | 22/5/07 | Average |
|------------------------|-----------|-----------|-----------|
| Hounddog 6 | 1.5 | 0.7 | 1.1 |
| Barlexas II | 0.8 | 0.0 | 0.4 |
| Regiment II | 0.7 | 0.0 | 0.3 |
| Tarheel II | 0.5 | 0.0 | 0.3 |
| Justice | 0.5 | 0.0 | 0.3 |
| RTF | 0.5 | 0.0 | 0.3 |
| Rebel 4 | 0.5 | 0.0 | 0.3 |
| SR 8600 | 0.3 | 0.0 | 0.2 |
| Shelby | 0.2 | 0.0 | 0.1 |
| Constitution | 0.2 | 0.0 | 0.1 |
| Grande II | 0.2 | 0.0 | 0.1 |
| Escalade | 0.2 | 0.0 | 0.1 |
| Rhizing Star | 0.0 | 0.0 | 0.0 |
| Essential | 0.0 | 0.0 | 0.0 |
| Jamboree | 0.0 | 0.0 | 0.0 |
| Barvado | 0.0 | 0.0 | 0.0 |
| Bullseye | 0.0 | 0.0 | 0.0 |
| Turbo RZ | 0.0 | 0.0 | 0.0 |
| LSD (P<0.05) | ns | ns | ns |

Table 4.2.10: Overall ranking for incidence of disease based on the one occasion during the first year when *Curvularia* spp. and *Drechslera* spp. were identified.

| Variety | Average | Ranking |
|------------------------|-----------|---------|
| Hounddog 6 | 1.1 | a |
| Barlexas II | 0.4 | a |
| Regiment II | 0.3 | a |
| Tarheel II | 0.3 | a |
| Justice | 0.3 | a |
| RTF | 0.3 | a |
| Rebel 4 | 0.3 | a |
| SR 8600 | 0.2 | a |
| Shelby | 0.1 | a |
| Constitution | 0.1 | a |
| Grande II | 0.1 | a |
| Escalade | 0.1 | a |
| Rhizing Star | 0.0 | a |
| Essential | 0.0 | a |
| Jamboree | 0.0 | a |
| Barvado | 0.0 | a |
| Bullseye | 0.0 | a |
| Turbo RZ | 0.0 | a |
| LSD (P<0.05) | ns | |

Table 4.2.11: Autumn growth of tall fescue varieties in the first and second years.

| Variety | Yr 1 | Yr 2 | Overall | Ranking |
|------------------------|------------|------------|------------|---------|
| RTF | 5.3 | 4.8 | 5.1 | a |
| Tarheel II | 5.0 | 4.5 | 4.8 | ab |
| SR 8600 | 4.7 | 4.5 | 4.6 | bc |
| Constitution | 4.7 | 4.5 | 4.6 | bc |
| Barlexas II | 4.7 | 4.5 | 4.6 | bc |
| Rhizing Star | 4.3 | 4.7 | 4.5 | bcd |
| Grande II | 4.3 | 4.5 | 4.4 | bcde |
| Escalade | 4.3 | 4.5 | 4.4 | bcde |
| Turbo RZ | 4.3 | 4.5 | 4.4 | bcde |
| Barvado | 4.0 | 4.7 | 4.3 | cde |
| Justice | 4.3 | 4.3 | 4.3 | cde |
| Shelby | 4.0 | 4.5 | 4.3 | cde |
| Regiment II | 4.0 | 4.5 | 4.3 | cde |
| Rebel 4 | 4.0 | 4.5 | 4.3 | cde |
| Houndog 6 | 4.0 | 4.3 | 4.2 | cdef |
| Jamboree | 4.0 | 4.2 | 4.1 | def |
| Essential | 4.0 | 4.0 | 4.0 | ef |
| Bullseye | 3.7 | 4.0 | 3.8 | f |
| LSD (P<0.05) | 0.8 | 0.3 | 0.4 | |

Table 4.2.12: Winter growth of tall fescue varieties in the first and second years.

| Variety | Yr 1 | Yr 2 | Overall | Ranking |
|------------------------|------------|------------|------------|---------|
| RTF | 5.0 | 5.3 | 5.2 | a |
| Grande II | 4.0 | 5.0 | 4.5 | b |
| SR 8600 | 4.0 | 4.7 | 4.3 | bc |
| Rhizing Star | 4.0 | 4.7 | 4.3 | bc |
| Tarheel II | 4.0 | 4.5 | 4.3 | bc |
| Shelby | 4.0 | 4.5 | 4.3 | bc |
| Constitution | 4.0 | 4.5 | 4.3 | bc |
| Regiment II | 4.0 | 4.5 | 4.3 | bc |
| Justice | 4.0 | 4.5 | 4.3 | bc |
| Essential | 4.0 | 4.5 | 4.3 | bc |
| Houndog 6 | 4.0 | 4.5 | 4.3 | bc |
| Barlexas II | 4.0 | 4.5 | 4.3 | bc |
| Barvado | 4.0 | 4.5 | 4.3 | bc |
| Escalade | 4.0 | 4.5 | 4.3 | bc |
| Rebel 4 | 4.0 | 4.5 | 4.3 | bc |
| Turbo RZ | 4.0 | 4.5 | 4.3 | bc |
| Bullseye | 4.0 | 4.3 | 4.2 | c |
| Jamboree | 4.0 | 4.2 | 4.1 | c |
| LSD (P<0.05) | 0.2 | 0.3 | 0.2 | |

Table 4.2.13: Spring growth of tall fescue varieties in the first and second years.

| Variety | Yr 1 | Yr 2 | Overall | Ranking |
|------------------------|-----------|------------|------------|---------|
| RTF | 5.8 | 6.0 | 5.9 | a |
| Rhizing Star | 5.7 | 5.8 | 5.8 | a |
| Barlexas II | 5.5 | 5.8 | 5.7 | a |
| Shelby | 5.5 | 5.7 | 5.6 | ab |
| Regiment II | 5.5 | 5.7 | 5.6 | ab |
| Constitution | 5.7 | 5.0 | 5.3 | bc |
| Grande II | 5.5 | 5.2 | 5.3 | bc |
| Rebel 4 | 5.5 | 5.2 | 5.3 | bc |
| Tarheel II | 5.3 | 5.3 | 5.3 | bc |
| SR 8600 | 5.3 | 5.2 | 5.3 | bc |
| Justice | 5.5 | 5.0 | 5.3 | bc |
| Hounddog 6 | 5.3 | 5.2 | 5.3 | bc |
| Barvado | 5.5 | 5.0 | 5.3 | bc |
| Turbo RZ | 5.5 | 5.0 | 5.3 | bc |
| Jamboree | 5.5 | 4.8 | 5.2 | c |
| Escalade | 5.5 | 4.8 | 5.2 | c |
| Essential | 5.5 | 4.5 | 5.0 | c |
| Bullseye | 5.3 | 4.7 | 5.0 | c |
| LSD (P<0.05) | ns | 0.5 | 0.3 | |

Table 4.2.14: Summer growth of tall fescue varieties in the first and second years.

| Variety | Yr 1 | Yr 2 | Overall | Ranking |
|------------------------|------------|------------|------------|---------|
| Shelby | 6.3 | 5.8 | 6.1 | a |
| Constitution | 6.0 | 6.0 | 6.0 | ab |
| RTF | 6.2 | 5.8 | 6.0 | ab |
| Barlexas II | 6.0 | 6.0 | 6.0 | ab |
| SR 8600 | 6.0 | 5.8 | 5.9 | abc |
| Turbo RZ | 6.0 | 5.8 | 5.9 | abc |
| Rhizing Star | 5.8 | 5.8 | 5.8 | abcd |
| Regiment II | 5.8 | 5.8 | 5.8 | abcd |
| Grande II | 6.0 | 5.5 | 5.8 | abcd |
| Tarheel II | 5.7 | 5.7 | 5.7 | bcd |
| Barvado | 5.7 | 5.7 | 5.7 | bcd |
| Rebel 4 | 5.8 | 5.5 | 5.7 | bcd |
| Escalade | 5.7 | 5.5 | 5.6 | cde |
| Justice | 5.5 | 5.5 | 5.5 | de |
| Essential | 5.3 | 5.7 | 5.5 | de |
| Hounddog 6 | 5.5 | 5.5 | 5.5 | de |
| Jamboree | 5.2 | 5.5 | 5.3 | e |
| Bullseye | 5.2 | 5.5 | 5.3 | e |
| LSD (P<0.05) | 0.5 | 0.3 | 0.3 | |

5.0 COMPANY CONTACTS

Advanced Seed

Mr. Mick Ahearn
General Manager
(03) 9462 0340
0408 877 016 (mobile)
mick@adseed.com.au



DLF Seeds Ltd

Mr. Stephen Lester
PO Box 16826 Hornby, Christchurch 8441, NZ
+61 3 982 7133
+64 21 413 088 (mobile)
sl@dlfseeds.co.nz



HG Turf

Mr. Hamish Sutherland
Managing Director
(03) 9370 6078
0418 325 615 (mobile)
hsutherland@hgturf.com.au



Heritage Seeds

Mr. Matthew Merrick
National Business Manager – Seed
(03) 9501 7016
0413 442 811 (mobile)
mmerrick@heritageseeds.com.au



John Gidley & Co. Pty Ltd

Mr. John Browne
(03) 9434 5669
0438 528 860 (mobile)
john@johngidley.com.au

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Mr. Cameron Henley
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1800 DURATURF
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Seed Force

Mr. Scott Woollard
Southern Region Business Manager
(03) 9705 9314
0448 224 621 (mobile)
scottwoollard@seedforce.com

