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



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1.0 METHODOLOGY

1.1 Turfgrass Colour

Turfgrass colour was assessed on twelve occasions during the two year trial. Turfgrass colour is a visual assessment based on how dark green the varieties are. The scores range from 0 – being completely chlorotic to 9 – being extremely dark green.

1.2 Turfgrass Density

Turfgrass density was assessed on twelve occasions during the two year trial. Turfgrass density is a visual assessment based on the density of leaf material. The scores range from 0 – no coverage to 9 – very dense cover with no space between grass leaves.

1.3 Leaf Shredding

Leaf shredding was assessed on twelve occasions during the two year trial. 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 has not been 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.

1.4 Incidence of Disease

Disease only occurred during a one 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.

1.5 Seasonal Growth

Seasonal growth has been assessed on two occasions per season during the two year trial. The assessment is a visual estimate of the amount of vertical extension that has occurred since mowing was ceased. Assessments normally occurred two weeks after this time. The scores range from 0 – no growth to 9 – excessive growth.

2.0 RESULTS

2.1 Tables

The first two tables for each grass type and parameter represent the individual scores for each assessment date with the yearly average shown. The final 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.

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

3.0 RESULTS – PERENNIAL RYEGRASS

Table 3.1: 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
PG 1F004	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
PM 101	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
PG 22806	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
PG 1606	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
PG 1PRG	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
SF R51-001	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
CT 027	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
LP 2AGB-F	6.7	5.5	6.7	7.3	7.0	6.7	6.6
SRX4SLT	6.3	5.7	6.5	7.5	7.0	6.7	6.6
CT 076	7.0	6.0	6.3	7.0	6.8	6.3	6.6
PG 970	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
CT 057	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
MAPA 2	5.0	4.2	5.0	6.0	4.7	4.7	4.9
Vic 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	0.4

Table 3.2: 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
PM 101	7.2	7.2	6.8	6.8	7.0	6.7	6.9
PG 1F004	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
PG 22806	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
PG 1606	6.5	6.8	6.8	6.7	6.7	6.7	6.7
SF R51-001	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
PG 1PRG	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
LP 2AGB-F	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
CT 076	6.7	6.8	6.3	6.7	6.2	6.5	6.5
SRX4SLT	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
PG 970	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
CT 027	6.3	6.5	6.3	6.5	6.3	6.2	6.4
CT 057	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
MAPA 2	4.5	5.0	5.0	5.2	4.0	5.2	4.8
Vic 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	0.2

Table 3.3: 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	ab
PG 1F004	7.3	6.9	7.1	abc
SR 4600	7.1	7.0	7.1	abc
PM 101	7.2	6.9	7.1	abc
Regal 5	7.2	6.9	7.0	bcd
All Star 3	7.2	6.9	7.0	bcd
PG 22806	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	bcdef
PG 1606	6.9	6.7	6.8	bcdef
SR 4420	6.9	6.7	6.8	bcdef
Pinnacle II	6.8	6.7	6.8	bcdef
SR 4220	6.9	6.6	6.8	bcdef
Ringer	6.8	6.7	6.8	bcdef
Keystone 2	6.9	6.6	6.8	bcdef
PG 1PRG	6.8	6.7	6.7	bcdefg
Roadster	6.8	6.6	6.7	bcdefg
SF R51-001	6.8	6.7	6.7	bcdefg
Premier II	6.8	6.5	6.7	bcdefg
Pennant II	6.7	6.6	6.7	bcdefg
LP 2AGB-F	6.6	6.6	6.6	bcdefgh
LP 4317	6.7	6.5	6.6	bcdefgh
Citation Fore	6.7	6.5	6.6	bcdefgh
CT 076	6.6	6.5	6.6	bcdefgh
SRX4SLT	6.6	6.5	6.6	bcdefgh
CT 027	6.7	6.4	6.5	cdefghi
LP 40C	6.5	6.5	6.5	cdefghi
PG 970	6.6	6.4	6.5	cdefghi
Penguin	6.4	6.6	6.5	cdefghi
Pacesetter	6.4	6.4	6.4	defghi
CT 057	6.4	6.3	6.3	efghi
PR 8821	6.3	6.2	6.3	efghi
Indy	6.1	6.3	6.2	fghi
Saint	5.9	6.1	6.0	hi
Ragtime	5.9	5.9	5.9	i
MAPA 2	4.9	4.8	4.9	jk
Vic Rye	4.5	4.5	4.5	k
LSD p<0.05	0.3	0.5	0.6	

Table 3.4: 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
PM 101	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
PG 1F004	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
CT 027	7.0	7.2	7.0	7.2	7.0	7.2	7.1
SF R51-001	7.3	6.7	6.7	7.2	7.2	7.2	7.0
PG 1606	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
LP 2AGB-F	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
SRX4SLT	7.0	6.7	7.0	7.0	6.8	7.2	6.9
PG 1PRG	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
CT 057	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
PG 22806	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
PG 970	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
CT 076	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
Vic Rye	5.5	5.0	5.3	6.0	5.5	4.8	5.3
MAPA 2	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 3.5: 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
PG 1F004	7.3	7.3	7.5	7.3	7.0	7.3	7.3
PM 101	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
PG 1PRG	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
CT 027	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
SRX4SLT	7.2	7.0	7.2	7.0	6.8	7.0	7.0
PG 970	7.2	7.2	7.0	7.0	7.0	6.8	7.0
CT 057	7.3	7.2	7.0	7.0	6.7	7.0	7.0
PG 1606	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
PG 22806	6.5	7.0	7.0	6.8	6.8	6.8	6.8
CT 076	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
LP 2AGB-F	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
SF R51-001	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
Vic Rye	5.3	5.8	5.5	5.8	4.5	4.5	5.2
MAPA 2	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	0.2

Table 3.6: Overall ranking of each perennial ryegrass variety for turfgrass density after two years.

Variety	Yr 1 Ave	Yr 2 Ave	Overall	Ranking
PM 101	7.5	7.3	7.4	a
PG 1F004	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
CT 027	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
PG 1606	7.0	7.0	7.0	bcd
PG 1PRG	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
SRX4SLT	6.9	7.0	7.0	bcd
Pennant II	6.9	7.0	7.0	bcd
CT 057	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
PG 970	6.8	7.0	6.9	cd
LP 2AGB-F	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
PG 22806	6.9	6.8	6.8	de
Pacesetter	6.8	6.9	6.8	de
SF R51-001	7.0	6.6	6.8	de
Roadster	6.8	6.8	6.8	de
CT 076	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
Vic Rye	5.3	5.2	5.3	h
MAPA 2	4.8	4.6	4.7	i
LSD p<0.05	0.3	0.2	0.3	

Table 3.7: 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
Vic Rye	3.5	3.0	1.5	0.0	0.0	2.5	1.8
MAPA 2	2.3	1.7	1.3	0.0	0.0	1.7	1.2
Indy	0.0	0.0	0.0	0.0	0.0	0.3	0.1
CT 057	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
SRX4SLT	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
SF R51-001	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
PM 101	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
PG 970	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PG 22806	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PG 1PRG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PG 1F004	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PG 1606	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
LP 2AGB-F	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
CT 076	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CT 027	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	0.2	0.2

Table 3.8: 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
Vic Rye	0.0	2.0	2.5	3.0	2.5	2.5	2.1
MAPA 2	0.0	2.0	2.7	1.7	1.7	1.3	1.6
Tophat II	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SRX4SLT	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
SF R51-001	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
PM 101	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
PG 970	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PG 22806	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PG 1PRG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PG 1F004	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PG 1606	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
LP 2AGB-F	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
CT 076	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CT 057	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CT 027	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	0.2	0.2	0.2	0.2	0.2	0.2

Table 3.9: Overall ranking of each perennial ryegrass variety for leaf shredding after two years.

Variety	Yr 1 Ave	Yr 2 Ave	Overall	Ranking
Vic Rye	1.8	2.1	1.9	a
MAPA 2	1.2	1.6	1.4	b
Indy	0.1	0.0	0.0	c
CT 057	0.1	0.0	0.0	c
Tophat II	0.0	0.0	0.0	c
SRX4SLT	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
SF R51-001	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
PM 101	0.0	0.0	0.0	c
Pinstripe	0.0	0.0	0.0	c
Pinnacle II	0.0	0.0	0.0	c
PG 970	0.0	0.0	0.0	c
PG 22806	0.0	0.0	0.0	c
PG 1PRG	0.0	0.0	0.0	c
PG 1F004	0.0	0.0	0.0	c
PG 1606	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
LP 2AGB-F	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
CT 076	0.0	0.0	0.0	c
CT 027	0.0	0.0	0.0	c
All Star 3	0.0	0.0	0.0	c
LSD p<0.05	0.2	0.2	0.1	

Table 3.10: First year results for Incidence of disease in perennial ryegrass varieties (0-9)

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
Vic Rye	0.0	1.8	1.0	0.9
Roadster	0.0	1.5	1.0	0.8
MAPA 2	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
PG 22806	0.3	0.8	0.3	0.5
SRX4SLT	0.0	0.8	0.3	0.4
SF R51-001	0.0	0.8	0.2	0.3
LP 40C	0.0	0.5	0.5	0.3
Citation Fore	0.0	0.7	0.3	0.3
Pinnacle II	0.2	0.5	0.2	0.3
CT 057	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
PG 970	0.0	0.3	0.3	0.2
PG 1PRG	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
CT 076	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
LP 2BR-F	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
PM 101	0.0	0.0	0.0	0.0
PG 1F004	0.0	0.0	0.0	0.0
PG 1606	0.0	0.0	0.0	0.0
Derby Xtreme	0.0	0.0	0.0	0.0
CT 027	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	0.6

Table 3.11: 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
Vic Rye	0.9	d
Roadster	0.8	de
MAPA 2	0.8	de
Pennant III	0.7	def
Pennant II	0.6	defg
Ragtime	0.6	defg
PG 22806	0.5	defg
SRX4SLT	0.4	defg
SF R51-001	0.3	defg
LP 40C	0.3	defg
LP 2AGB-F	0.3	defg
Pinnacle II	0.3	defg
CT 057	0.3	defg
Tophat II	0.2	efg
Ringer	0.2	efg
PG 970	0.2	efg
PG 1PRG	0.2	efg
Pacesetter	0.2	efg
LP 4317	0.2	efg
CT 076	0.2	efg
Regal 5	0.1	fg
SR 4220	0.1	fg
Premier II	0.1	fg
Citation Fore	0.1	fg
Keystone 2	0.1	fg
Harrier 2	0.1	fg
SR 4600	0.0	g
SR 4420	0.0	g
PM 101	0.0	g
PG 1F004	0.0	g
PG 1606	0.0	g
Derby Xtreme	0.0	g
CT 027	0.0	g
All Star 3	0.0	g
LSD p<0.05	0.6	

Table 3.12: Autumn growth of perennial ryegrass varieties in the first and second years

Variety	Yr 1	Yr 2	Overall	Ranking
MAPA 2	7.0	7.0	7.0	a
Vic 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
PG 970	4.7	4.8	4.8	c
Regal 5	4.7	4.5	4.6	cd
LP 2AGB-F	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
CT 027	4.7	4.3	4.5	cde
Citation Fore	4.7	4.3	4.5	cde
Roadster	4.3	4.5	4.4	cde
Ringer	4.3	4.5	4.4	cde
Ragtime	4.3	4.5	4.4	cde
PG 22806	4.3	4.5	4.4	cde
SR 4420	4.0	4.7	4.3	cde
SF R51-001	4.0	4.7	4.3	cde
Pacesetter	4.0	4.7	4.3	cde
SRX4SLT	4.3	4.3	4.3	cde
LP 4317	4.3	4.3	4.3	cde
Indy	3.7	5.0	4.3	cde
Pinnacle II	4.0	4.5	4.3	cde
Pennant III	4.0	4.5	4.3	cde
CT 076	4.0	4.5	4.3	cde
CT 057	3.7	4.7	4.2	cde
PM 101	4.0	4.3	4.2	cde
LP 40C	4.0	4.3	4.2	cde
Keystone 2	4.0	4.3	4.2	cde
Derby Xtreme	4.0	4.3	4.2	cde
PG 1F004	4.0	4.2	4.1	cde
PG 1606	4.0	4.2	4.1	cde
All Star 3	4.0	4.2	4.1	cde
Saint	3.7	4.5	4.1	cde
PG 1PRG	3.7	4.5	4.1	cde
Harrier 2	3.7	4.3	4.0	de
Pinstripe	3.3	4.5	3.9	de
Penguin	3.3	4.3	3.8	e
LSD p<0.05	0.9	0.5	0.7	

Table 3.13: Winter growth of perennial ryegrass varieties in the first and second years

Variety	Yr 1	Yr 2	Overall	Ranking
MAPA 2	7.7	7.3	7.5	a
Vic Rye	6.5	5.8	6.1	b
CT 057	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
PG 22806	5.0	5.2	5.1	cd
Pacesetter	5.0	5.2	5.1	cd
Indy	5.0	5.2	5.1	cd
PG 970	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
PG 1PRG	5.0	4.8	4.9	cdef
CT 027	5.0	4.8	4.9	cdef
Premier II	4.7	5.0	4.8	cdef
LP 4317	4.7	5.0	4.8	cdef
SRX4SLT	4.7	4.8	4.8	cdef
SR 4220	4.7	4.8	4.8	cdef
SF R51-001	4.7	4.8	4.8	cdef
Pinnacle II	4.3	5.2	4.8	cdef
PG 1F004	4.7	4.8	4.8	cdef
PG 1606	4.7	4.8	4.8	cdef
LP 40C	4.7	4.8	4.8	cdef
LP 2AGB-F	4.7	4.8	4.8	cdef
Keystone 2	4.7	4.8	4.8	cdef
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
PM 101	4.3	4.8	4.6	ef
Pennant III	4.3	4.8	4.6	ef
CT 076	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	0.5	

Table 3.14: Spring growth of perennial ryegrass varieties in the first and second years

Variety	Yr 1	Yr 2	Overall	Ranking
MAPA 2	7.3	7.2	7.3	a
Indy	6.5	5.5	6.0	b
Saint	6.0	5.8	5.9	bc
CT 076	6.0	5.8	5.9	bc
PG 970	6.0	5.7	5.8	bcd
Pennant II	6.2	5.5	5.8	bcd
Tophat II	5.8	5.8	5.8	bcd
SR 4420	6.2	5.2	5.7	bcde
Pacesetter	5.8	5.5	5.7	bcde
CT 057	6.0	5.3	5.7	bcde
Roadster	5.5	5.7	5.6	bcdef
Ringer	6.0	5.2	5.6	bcdef
PR 8821	5.7	5.5	5.6	bcdef
Penguin	5.8	5.3	5.6	bcdef
SRX4SLT	5.8	5.2	5.5	bcdef
SR 4220	5.8	5.2	5.5	bcdef
SF R51-001	5.5	5.3	5.4	bcdef
PG 22806	5.5	5.3	5.4	bcdef
PG 1606	6.0	4.8	5.4	bcdef
LP 4317	5.5	5.3	5.4	bcdef
LP 2AGB-F	5.7	5.0	5.3	bcdef
Harrier 2	5.5	5.2	5.3	bcdef
Citation Fore	5.7	5.0	5.3	bcdef
All Star 3	5.7	5.0	5.3	bcdef
Regal 5	5.3	5.3	5.3	bcdef
Premier II	5.5	5.0	5.3	bcdef
CT 027	5.8	4.7	5.3	bcdef
SR 4600	5.7	4.7	5.2	cdef
Keystone 2	5.2	5.2	5.2	cdef
Ragtime	5.3	5.0	5.2	cdef
PG 1PRG	5.5	4.8	5.2	cdef
LP 40C	4.8	5.5	5.2	cdef
Pinnacle II	5.0	5.2	5.1	def
PM 101	5.3	4.8	5.1	def
PG 1F004	5.3	4.8	5.1	def
Derby Xtreme	5.3	4.8	5.1	def
Pennant III	4.8	5.2	5.0	ef
Pinstripe	4.8	5.0	4.9	f
LSD p<0.05	0.5	0.7	0.7	

Table 3.15: Summer growth of perennial ryegrass varieties in the first and second years

Variety	Yr 1	Yr 2	Overall	Ranking
Vic Rye	7.3	7.5	7.4	a
MAPA 2	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
CT 076	5.7	5.7	5.7	bc
CT 057	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
LP 2AGB-F	5.5	5.5	5.5	bcde
CT 027	5.7	5.3	5.5	bcde
SR 4600	5.5	5.3	5.4	cdef
Ringer	5.3	5.5	5.4	cdef
PG 970	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
PG 22806	5.3	5.3	5.3	defg
PG 1606	5.3	5.3	5.3	defg
SRX4SLT	5.2	5.3	5.3	defg
Pinstripe	5.2	5.3	5.3	defg
PG 1PRG	5.2	5.3	5.3	defg
PG 1F004	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
SF R51-001	5.0	5.2	5.1	fg
PM 101	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	

4.0 RESULTS – TALL FESCUE

Table 4.1: First year results for colour of tall fescue varieties (0-9)

Varieties	16/1/07	20/3/07	22/5/07	2/7/07	10/9/07	23/11/07	Average
Regiment 11	6.0	6.0	6.5	5.5	6.7	7.2	6.3
Blur TF 8	6.3	6.0	6.3	5.5	6.5	7.2	6.3
CT 4TFR	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
CIS TF 156	6.0	6.0	6.0	5.5	6.5	7.2	6.2
IS-TF 128	6.0	6.2	6.0	5.3	6.5	7.0	6.2
SFR52-001	6.0	5.5	6.2	5.5	6.5	7.2	6.1
PG 1TF3J	6.0	5.5	6.2	5.7	6.5	7.0	6.1
FA L143	6.0	6.0	5.8	5.5	6.5	7.0	6.1
FA 1005	6.0	5.7	6.0	5.5	6.5	7.0	6.1
IS-TF 154	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 11	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
TF 545(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 <0.05	ns	ns	0.3	0.2	ns	ns	ns

Table 4.2: Second year results for colour of tall fescue varieties (0-9)

Varieties	16/1/08	19/3/08	21/5/08	1/7/08	11/9/08	28/11/08	Average
Regiment 11	7.3	6.7	6.8	6.8	6.8	6.3	6.8
Blur TF 8	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
PG 1TF3J	6.7	6.7	7.0	6.7	6.8	6.2	6.7
FA 1005	6.5	6.7	7.0	6.8	6.8	6.2	6.7
CT 4TFR	6.7	6.8	6.8	6.7	6.7	6.3	6.7
CIS TF 156	6.5	6.5	7.0	6.8	6.8	6.3	6.7
Grande 11	6.8	6.5	7.0	6.5	6.8	6.2	6.6
SFR52-001	6.5	6.5	6.7	6.8	6.8	6.3	6.6
IS-TF 154	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
IS-TF 128	6.5	6.7	7.0	6.5	6.7	6.2	6.6
FA L143	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
TF 545(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 <0.05	0.3	ns	ns	ns	ns	ns	ns

Table 4.3: Overall ranking of each tall fescue variety for turfgrass colour after two years.

Varieties	Yr 1 Ave	Yr 2 Ave	Overall	Ranking
Regiment 11	6.3	6.8	6.6	a
Blur TF 8	6.3	6.8	6.5	a
Houndog 6	6.2	6.7	6.5	a
CT 4TFR	6.3	6.7	6.5	a
Shelby	6.2	6.7	6.4	a
CIS TF 156	6.2	6.7	6.4	a
PG 1TF3J	6.1	6.7	6.4	a
FA 1005	6.1	6.7	6.4	a
SFR52-001	6.1	6.6	6.4	a
IS-TF 128	6.2	6.6	6.4	a
IS-TF 154	6.1	6.6	6.4	a
Grande 11	6.1	6.6	6.3	a
FA L143	6.1	6.6	6.3	a
RTF	6.1	6.6	6.3	a
SR 8600	6.1	6.5	6.3	a
Escalade	6.0	6.5	6.3	a
TF 545(II)	6.0	6.5	6.3	a
Rhizing Star	5.9	6.5	6.2	a
LSD <0.05	ns	ns	ns	

Table 4.4: First year results for density of tall fescue varieties (0-9)

Varieties	16/1/07	20/3/07	22/5/07	2/7/07	10/9/07	23/11/07	Average
IS-TF 128	7.3	6.8	7.2	7.7	7.3	7.5	7.3
CIS TF 156	6.7	7.2	7.3	7.7	6.8	7.7	7.2
IS-TF 154	6.7	6.8	6.8	7.5	7.2	7.5	7.1
Blur TF 8	7.0	6.5	6.5	7.2	6.8	7.2	6.9
CT 4TFR	7.0	6.8	6.2	7.2	6.8	7.0	6.8
TF 545(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 11	7.0	6.3	6.0	7.0	6.5	7.0	6.6
FA 1005	6.3	6.3	6.2	7.2	6.7	7.2	6.6
PG 1TF3J	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
SFR52-001	6.7	6.5	6.0	6.8	6.5	7.0	6.6
Regiment 11	6.7	6.5	6.0	6.8	6.7	6.8	6.6
FA L143	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
Houndog 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 <0.05	0.5	ns	0.3	0.4	0.4	0.3	0.4

Table 4.5: Second year results for density of tall fescue varieties (0-9)

Varieties	16/1/08	19/3/08	21/5/08	1/7/08	11/9/08	28/11/08	Average
CIS TF 156	7.7	7.2	7.7	7.5	7.5	7.2	7.4
IS-TF 128	7.8	7.2	7.5	7.2	7.3	7.2	7.4
IS-TF 154	7.2	7.0	7.8	7.2	7.5	7.3	7.3
PG 1TF3J	6.8	6.5	6.8	7.0	6.7	6.3	6.7
Blur TF 8	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
CT 4TFR	6.7	6.7	6.8	6.7	6.7	6.2	6.6
Grande 11	6.8	6.5	6.7	6.5	6.7	6.3	6.6
TF 545(II)	6.8	6.5	6.5	6.7	6.5	6.2	6.5
FA 1005	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 11	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
FA L143	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
SFR52-001	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 <0.05	0.5	0.4	0.4	0.4	0.4	0.4	0.2

Table 4.6: Overall ranking of each tall fescue variety for turfgrass density after two years.

Varieties	Yr 1 Ave	Yr 2 Ave	Overall	Ranking
IS-TF 128	7.3	7.4	7.3	a
CIS TF 156	7.2	7.4	7.3	a
IS-TF 154	7.1	7.3	7.2	ab
Blur TF 8	6.9	6.7	6.8	bc
CT 4TFR	6.8	6.6	6.7	c
PG 1TF3J	6.6	6.7	6.7	c
Grande 11	6.6	6.6	6.6	c
TF 545(II)	6.7	6.5	6.6	c
FA 1005	6.6	6.5	6.6	c
Escalade	6.5	6.6	6.6	c
SR 8600	6.6	6.5	6.6	c
Regiment 11	6.6	6.5	6.5	c
FA L143	6.6	6.5	6.5	c
Shelby	6.6	6.4	6.5	c
SFR52-001	6.6	6.4	6.5	c
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 <0.05	0.4	0.2	0.4	

Table 4.7: First year results for Incidence of disease in tall fescue varieties (0-9)

Varieties	24/4/07	22/5/07	Average
Hounddog 6	1.5	0.7	1.1
FA L143	0.8	0.0	0.4
Regiment 11	0.7	0.0	0.3
TF 545(II)	0.5	0.0	0.3
PG 1TF3J	0.5	0.0	0.3
RTF	0.5	0.0	0.3
CT 4TFR	0.5	0.0	0.3
SR 8600	0.3	0.0	0.2
Shelby	0.2	0.0	0.1
SFR52-001	0.2	0.0	0.1
Grande 11	0.2	0.0	0.1
Escalade	0.2	0.0	0.1
Rhizing Star	0.0	0.0	0.0
IS-TF 154	0.0	0.0	0.0
IS-TF 128	0.0	0.0	0.0
FA 1005	0.0	0.0	0.0
CIS TF 156	0.0	0.0	0.0
Blur TF 8	0.0	0.0	0.0
LSD <0.05	ns	ns	ns

Table 4.8: Overall ranking for incidence of disease based on the one occasion during the first year when *Curvularia* spp. and *Drechslera* spp. were identified.

Varieties	Average	Ranking
Hounddog 6	1.1	a
FA L143	0.4	a
Regiment 11	0.3	a
TF 545(II)	0.3	a
PG 1TF3J	0.3	a
RTF	0.3	a
CT 4TFR	0.3	a
SR 8600	0.2	a
Shelby	0.1	a
SFR52-001	0.1	a
Grande 11	0.1	a
Escalade	0.1	a
Rhizing Star	0.0	a
IS-TF 154	0.0	a
IS-TF 128	0.0	a
FA 1005	0.0	a
CIS TF 156	0.0	a
Blur TF 8	0.0	a
LSD <0.05	ns	

Table 4.9: 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
TF 545(II)	5.0	4.5	4.8	ab
SR 8600	4.7	4.5	4.6	abc
SFR52-001	4.7	4.5	4.6	abc
FA L143	4.7	4.5	4.6	abc
Rhizing Star	4.3	4.7	4.5	abc
Grande 11	4.3	4.5	4.4	bcd
Escalade	4.3	4.5	4.4	bcd
Blur TF 8	4.3	4.5	4.4	bcd
FA 1005	4.0	4.7	4.3	bcd
PG 1TF3J	4.3	4.3	4.3	bcd
Shelby	4.0	4.5	4.3	bcd
Regiment 11	4.0	4.5	4.3	bcd
CT 4TFR	4.0	4.5	4.3	bcd
Hounddog 6	4.0	4.3	4.2	bcd
IS-TF 128	4.0	4.2	4.1	cd
IS-TF 154	4.0	4.0	4.0	cd
CIS TF 156	3.7	4.0	3.8	d
LSD <0.05	0.8	0.3	0.6	

Table 4.10: 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 11	4.0	5.0	4.5	a
SR 8600	4.0	4.7	4.3	a
Rhizing Star	4.0	4.7	4.3	a
TF 545(II)	4.0	4.5	4.3	a
Shelby	4.0	4.5	4.3	a
SFR52-001	4.0	4.5	4.3	a
Regiment 11	4.0	4.5	4.3	a
PG 1TF3J	4.0	4.5	4.3	a
IS-TF 154	4.0	4.5	4.3	a
Hounddog 6	4.0	4.5	4.3	a
FA L143	4.0	4.5	4.3	a
FA 1005	4.0	4.5	4.3	a
Escalade	4.0	4.5	4.3	a
CT 4TFR	4.0	4.5	4.3	a
Blur TF 8	4.0	4.5	4.3	a
CIS TF 156	4.0	4.3	4.2	a
IS-TF 128	4.0	4.2	4.1	a
LSD <0.05	0.2	0.3	ns	

Table 4.11: 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
FA L143	5.5	5.8	5.7	a
Shelby	5.5	5.7	5.6	a
Regiment 11	5.5	5.7	5.6	a
SFR52-001	5.7	5.0	5.3	a
Grande 11	5.5	5.2	5.3	a
CT 4TFR	5.5	5.2	5.3	a
TF 545(II)	5.3	5.3	5.3	a
SR 8600	5.3	5.2	5.3	a
PG 1TF3J	5.5	5.0	5.3	a
Hounddog 6	5.3	5.2	5.3	a
FA 1005	5.5	5.0	5.3	a
Blur TF 8	5.5	5.0	5.3	a
IS-TF 128	5.5	4.8	5.2	a
Escalade	5.5	4.8	5.2	a
IS-TF 154	5.5	4.5	5.0	a
CIS TF 156	5.3	4.7	5.0	a
LSD <0.05	ns	0.5	ns	

Table 4.12: 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
SFR52-001	6.0	6.0	6.0	ab
RTF	6.2	5.8	6.0	ab
FA L143	6.0	6.0	6.0	ab
SR 8600	6.0	5.8	5.9	abc
Blur TF 8	6.0	5.8	5.9	abc
Rhizing Star	5.8	5.8	5.8	abc
Regiment 11	5.8	5.8	5.8	abc
Grande 11	6.0	5.5	5.8	abc
TF 545(II)	5.7	5.7	5.7	abcd
FA 1005	5.7	5.7	5.7	abcd
CT 4TFR	5.8	5.5	5.7	abcd
Escalade	5.7	5.5	5.6	bcd
PG 1TF3J	5.5	5.5	5.5	cd
IS-TF 154	5.3	5.7	5.5	cd
Hounddog 6	5.5	5.5	5.5	cd
IS-TF 128	5.2	5.5	5.3	d
CIS TF 156	5.2	5.5	5.3	d
LSD <0.05	0.5	0.3	0.4	