

Bentgrass Cultivar Field Day.

Royal Adelaide Golf Club



22nd April 2010

Trial Site Locations



Bentgrass cultivars being assessed

*007

*Authority

*CY 2

*Cobra 2

*Declaration

Dominant *X-treme*

*Mackenzie

*Penn A1

Penn G2

*Shark

SR1150

SRP1GMC

SRP1RH93

*T-1

*Tyee

AGCSA vegetative

Mariner^

RAGC blend^

* *Evaluated in 2003 NTEP trials*

Participating Companies



Royal Adelaide Golf Club



Germination (0 - 5)

Variety	8 DAS	14 DAS	21 DAS
007	0.7	3.0	4.3
Penn A1	1.7	3.5	4.8
Authority	1.3	3.7	5.0
CY 2	1.7	4.0	5.0
Cobra 2	1.7	4.2	5.0
Declaration	1.3	3.7	4.8
Dominant X-treme	1.7	3.7	4.8
Penn G2	1.7	3.7	4.8
RAGC Blend	0.7	3.8	4.8
Mackenzie	1.5	3.5	4.8
Mariner	2.3	4.0	5.0
Shark	0.5	3.2	4.8
SR1150	1.0	3.0	4.7
SRP1GMC	1.7	3.8	5.0
SRP1RH93	1.5	3.8	4.8
T-1	1.7	3.2	4.7
Tyee	1.7	3.8	5.0
LSD (P<0.05)	ns	ns	ns

Vigour (0 – 5)

Variety	14 DAS	21 DAS
Penn G2	2.8	4.2
Mariner	3.0	4.2
SRP1RH93	2.7	4.0
Penn A1	2.7	4.0
Tyee	2.3	3.8
SRP1GMC	2.7	3.8
Cobra 2	2.8	3.8
Authority	2.3	3.8
CY2	2.5	3.5
Mackenzie	2.0	3.3
Dominant X-treme	2.2	3.3
SR1150	1.7	3.2
Shark	1.7	3.2
RAGC Blend	1.7	3.2
T-1	2.2	3.0
Declaration	2.2	2.8
007	1.0	2.0
LSD (P<0.05)	1.0	0.9

% Cover

Variety	7/7/09	27/7/09	18/8/09	7/9/09	29/9/09
	83 DAS	103 DAS	125 DAS	145 DAS	167 DAS
007	70	75	79	85	88
Penn A1	83	85	90	93	95
Authority	75	78	83	88	93
CY2	80	82	87	93	96
Cobra 2	83	83	88	92	95
Declaration	73	77	85	88	93
Dominant <i>X-treme</i>	72	73	78	83	88
Penn G2	77	80	83	90	94
RAGC Blend	62	63	67	75	80
Mackenzie	75	77	82	88	92
Mariner	82	83	90	95	99
AGCSA 1	72	77	82	85	88
Shark	77	78	83	90	94
SR1150	68	70	75	85	90
SRP1GMC	82	85	90	90	94
SRP1RH93	77	77	82	87	90
T-1	67	68	73	71	83
Tyee	72	78	85	90	94
LSD (P<0.05)	ns	ns	ns	ns	ns



4-6-09



19-8-09 (side view)

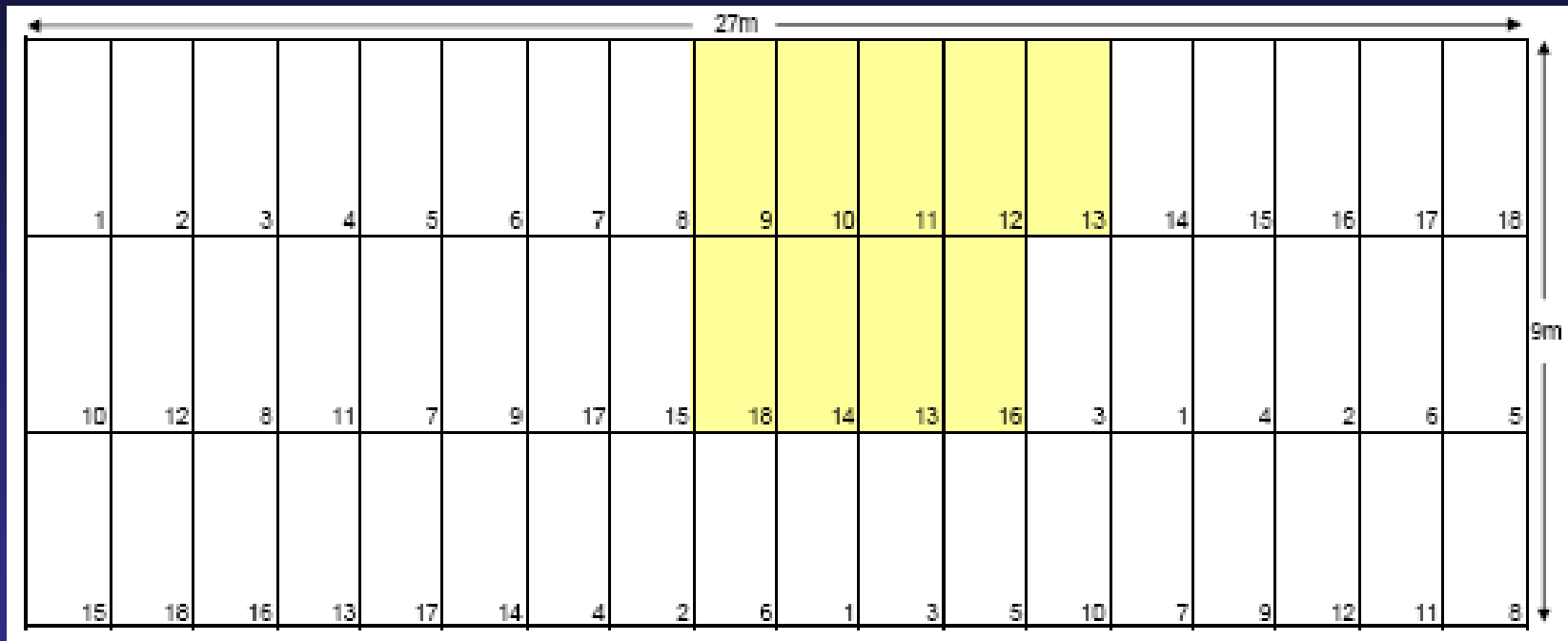


29-9-09



29-10-09

Inspection of Trial Area



- Conduct an assessment on each plot for overall turfgrass quality (0-9) and anything else that appears worth noting
- There have been some plots (shaded yellow) that suffered from drought stress and have been re-sown
- Plot names will be displayed once assessments have been made

Results to Date

- Since October results for;
 - turfgrass colour,
 - turfgrass density
 - and overall turfgrass qualityhave been recorded every two months
- Measurements of thatch accumulation, ball roll and surface hardness have also been taken

Turfgrass Colour (0 - 9)

Variety	29/10/09	16/12/09	16/12/10a	11/03/10
T-1	7.8	5.3	5.3	6.5
Dominant X-treme	7.3	6.0	6.0	7.2
RAGC blend	7.2	4.7	5.5	7.0
Cobra 2	7.2	7.2	7.2	7.5
007	7.2	6.7	6.7	7.5
Tyee	7.0	6.0	7.0	7.0
Shark	7.0	5.8	7.5	8.0
Penn G2	7.0	7.2	7.2	7.8
Penn A1	7.0	7.2	7.2	7.8
Mariner	7.0	5.3	6.5	7.3
Mackenzie	7.0	5.3	7.0	7.3
CY 2	7.0	7.0	7.0	7.7
Authority	7.0	6.7	6.7	7.3
AGCSA 1	7.0	6.2	7.8	6.3
SRP1RH93	6.8	5.8	6.8	7.5
SRP1GMC	6.8	5.8	5.8	7.5
SR1150	6.8	5.2	5.8	6.8
Declaration	6.7	5.7	5.7	7.3
LSD (P<0.05)	0.4	ns	ns	ns

Turfgrass Density (0 - 9)

Variety	29/10/09	16/12/09	16/12/2009a	11/03/10
007	7.2	6.8	6.8	7.7
Penn A1	6.8	7.2	7.2	7.8
Authority	6.8	7.0	7.0	7.2
CY 2	6.8	7.0	7.0	7.7
Cobra 2	6.8	6.7	6.7	7.3
Declaration	7.0	5.7	5.7	7.2
Dominant <i>X-treme</i>	6.7	5.3	5.3	7.2
Penn G2	7.0	6.8	6.8	7.8
RAGC blend	6.5	4.7	5.5	7.5
Mackenzie	6.8	5.2	6.8	7.5
Mariner	6.8	5.0	6.5	6.8
AGCSA 1	6.8	6.2	8.8	9.0
Shark	6.8	5.5	8.5	8.0
SR1150	6.8	5.7	6.5	7.3
SRPIGMC	7.0	6.0	6.0	6.5
SRPIRH93	6.8	5.8	6.8	7.3
T-1	7.2	5.7	5.7	6.7
Tyee	7.0	6.0	7.5	7.0
LSD (P<0.05)	ns	ns	ns	ns

Turfgrass Quality (0 - 9)

Variety	29/10/09	16/12/09	16/12/09a	11/03/10
007	7.0	7.0	7.0	6.8
Penn A1	7.0	7.2	7.2	7.2
Authority	7.0	6.7	6.7	6.8
CY 2	7.2	6.7	6.7	7.0
Cobra 2	7.2	6.5	6.5	6.7
Declaration	7.2	6.3	6.3	6.3
Dominant <i>X-treme</i>	7.0	5.3	5.3	7.2
Penn G2	7.2	7.2	7.2	7.2
RAGC blend	6.7	4.3	5.0	7.0
Mackenzie	7.0	5.0	6.5	7.0
Mariner	7.2	5.2	6.8	6.3
AGCSA 1	6.5	6.0	8.5	6.8
Shark	7.2	4.7	8.0	7.5
SR1150	6.8	4.7	5.5	6.0
SRP1GMC	7.2	5.7	5.7	6.7
SRP1RH93	6.8	5.5	6.8	7.0
T-1	6.8	5.7	5.7	6.8
Tyee	7.2	5.7	7.0	6.5
LSD (P<0.05)	ns	ns	ns	ns

Thatch Accumulation (mm)

Variety	29/10/09	11/3/10
007	10	12
Penn A1	10	11
Authority	11	12
CY 2	11	13
Cobra 2	10	15
Declaration	10	14
Dominant <i>X-treme</i>	9	10
Penn G2	11	14
RAGC blend	12	13
Mackenzie	10	11
Mariner	10	13
AGCSA 1	12	20
Shark	12	16
SR1150	11	12
SRP1GMC	10	12
SRP1RH93	13	13
T-1	12	14
Tyee	11	15
LSD (P<0.05)	ns	ns

Ball Roll (cm)

Variety	16/12/10	11/3/10
SRPIGMC	164	186
Declaration	160	180
007	161	171
T-1	163	170
Mackenzie	167	169
RAGC blend	163	169
SR1150	170	166
Authority	162	165
Dominant X-treme	150	165
Cobra 2	157	165
CY 2	162	164
Penn G2	161	164
Penn A1	157	159
SRP1RH93	156	159
Tyee	160	158
Shark	167	149
Mariner	154	146
AGCSA 1	167	140
LSD (P<0.05)	ns	16

Surface Hardness (g)

Variety	16/12/10	11/3/10
007	70	70
Penn A1	68	67
Authority	68	73
CY 2	65	67
Cobra 2	68	68
Declaration	65	67
Dominant X-treme	65	67
Penn G2	63	63
RAGC blend	67	70
Mackenzie	62	65
Mariner	62	63
AGCSA 1	70	60
Shark	65	65
SR1150	67	73
SRPIGMC	65	67
SRP1RH93	67	60
T-1	65	63
Tyee	70	65
LSD (P<0.05)	ns	ns

Summary of Results at Other Locations

Keysborough

- Colour – the darkest green are generally T-1 and the vegetative variety (AGCSA1).
- Density – the densest varieties have been Shark, SRP1GMC, Declaration, Authority and the vegetative variety (AGCSA1).
- Quality – very little variation although T-1 and AGCSA1 are two of the poorer varieties to date.

Summary of Results at Other Locations

Keysborough

- Thatch Accumulation – no significant difference between any variety.
- Ball roll – the vegetative variety (AGCSA1) had the least amount of ball roll, significantly less than all but Dominant *X-treme*.
- Surface Hardness – no significant difference between any variety.

Summary of Results at Other Locations

Cromer

- Colour – the darkest green are generally T-1 and the vegetative variety (AGCSA1).
- Density – the densest varieties have been Shark, Tyee, SRP1GMC, SRP1RH93, SR1150 and the vegetative variety (AGCSA1).
- Quality – AGCSA1 and Shark are two of the better varieties to date.

Summary of Results at Other Locations

Cromer

- Thatch Accumulation – the vegetative variety (AGCSA1) has produced more thatch.
- Ball roll – no significant difference between any variety.
- Surface Hardness – no significant difference between any variety.

Acknowledgements

- Horticulture Australia for their financial assistance with the project
- Mr. Jeff Kaines and staff at Royal Adelaide Golf Club
- Mr. Daryl Sellar for his assistance in sowing the trials and on-going assessments

Surface Quality Assessment

Variety	22/04/10	Field Day Attendees
007	6.8	6.4
Penn A1	6.7	6.4
Authority	6.8	6.2
CY 2	7.0	6.4
Cobra 2	6.8	6.4
Declaration	6.5	5.8
Dominant Xtreme	6.3	6.2
Penn G2	6.7	6.2
RAGC blend	6.5	5.8
MacKenzie	6.8	5.8
Mariner	6.5	6.1
AGCSA 1	6.3	4.5
Shark	6.5	6.0
SR1150	6.5	5.1
SRP1GMC	6.5	5.6
SRP1RH93	7.0	6.0
T-1	6.7	5.4
Tyee	7.0	5.9
LSD (P<0.05)	ns	ns

Results to the right are a comparison of my assessment of surface quality compared to the average of the other field day attendees as at 22nd April 2010.

Thankyou all for your participation

