



Manor browntop trial results

Manor browntop *Agrostis capillaris* was bred in New Zealand by PGG Wrightson Turf. It has been trialed in New Zealand at the Ceres Research Centre and in the UK at the STRI at Bingley in trials maintained as putting greens mown at 5mm in summer. Trial results from both trial sites are presented here.

Description of Manor

Manor is a quality improved browntop cultivar bred from genetic material selected in New Zealand and Australia. It is fine and dense with a light green colour. It is suitable for use on golf greens and all areas of the golf course, as well as in low maintenance and landscaping uses.

Colour

Manor has a light green colour that is lighter than medium green colour cultivars such as Egmont or Troy. Colour descriptions taken at different times of year illustrate that its colour performance is similar to Sefton.

Browntop seasonal colour descriptions						
	Sept	Oct	Jan	Feb	Mar	Apr
Manor	LG	LG	LG	LG	LG	LG
Sefton	LG	LG	LG	LG	LG	LG
Troy	LG	MG	MG	DG	LG	LG
Egmont	LG	MG	MG	DG	LG	LG

Establishment

The establishment rate of Manor is similar to that of most quality browntops. The mean establishment rate from two trials in NZ is shown.

Establishment rate	
Cultivar	Establish
Sefton	6.9
PG977	6.5
Troy	6.3
Manor	6.2
Egmont	5.9
PG982	5.3



Quality

Manor has consistently good performance in visually assessed quality, density, fineness and colour from trials maintained as golf greens in both New Zealand and UK. Manor is a top ranking cultivar with exceptional density and fineness in both countries.

The mean of density and fineness gives a good indication of its performance, disregarding colour. The scores indicate outstanding density and fineness. Manor is a light green colour cultivar. Light green colour lowers the overall visual quality scores in New Zealand but not in UK.

Golf green browntop trial NZ (PGGW 05)	
Cultivar	Quality
Egmont	7.3
Sefton	6.9
Troy	6.9
Manor	6.8
PG937	6.3
PG982	3.7
PG977	3.7
Trust	3.6
Punawai	3.5

Golf green browntop trial UK (STRI 02)	
Cultivar	Quality
Egmont	7.7
BAR AT 894	7.4
Heriot	7.1
Sefton	7.0
Manor	7.0
TAT721	6.8
AberRoyal	6.8
Troy	6.6
DP 12-9036	6.5
RTAt 11	6.5
TAT720	6.5
Denso	6.3
Arletta	6.3
CIS AT 5	6.1
PI 5696	6.0
2.0019	6.0
PI 5695	5.8
Ambrosia	5.6
Orient	5.6
Bardot	5.6
Radiance	5.6
Tracenta	5.5
PG 937	5.3
Lance	5.3
Vivaldi	5.3
ADV At 104	5.3



Golf green browntop trial NZ (PGGW 05)	
	Density
Sefton	7.1
Egmont	7.1
Manor	6.8
Troy	6.7
PG937	6.1
PG982	4.2
PG977	4.2
Punawai	3.9
Trust	3.7

Golf green browntop trial NZ (PGGW 05)	
	Fineness
Manor	6.7
Sefton	6.7
Egmont	6.6
PG937	6.4
Troy	6.3
PG982	4.4
PG977	4.2
Trust	4.2
Punawai	4.1

Golf green browntop trial NZ (PGGW 05)	
	D+F
Sefton	6.9
Egmont	6.8
Manor	6.8
Troy	6.5
PG937	6.3
PG982	4.3
PG977	4.2
Punawai	4.0
Trust	4.0

Golf green browntop trial UK (STRI 02)	
	Density
Egmont	7.1
Manor	6.7
Sefton	6.5
TAT721	6.5
TAT720	6.5
Troy	6.4
BAR AT 894	6.3
Heriot	6.2
RTAt 11	6.2
DP 12-9036	6.2
CIS AT 5	5.9
AberRoyal	5.9
PI 5695	5.9
Denso	5.9
Arletta	5.8
Ambrosia	5.8
PG 937	5.8
2.0019	5.7
ADV At 104	5.7
PI 5696	5.7
Bardot	5.6
Tracentia	5.3
Orient	5.3
Lance	5.2
Radiance	5.1
Vivaldi	4.9

Golf green browntop trial UK (STRI 02)	
	Fineness
Arletta	7.7
Heriot	7.5
ADV At 104	7.1
Sefton	7.0
Manor	6.9
Egmont	6.9
Troy	6.8
TAT721	6.6
Ambrosia	6.6
TAT720	6.5
PI 5695	6.5
RTAt 11	6.5
DP 12-9036	6.5
BAR AT 894	6.5
Bardot	6.3
AberRoyal	6.3
PG 937	6.3
Denso	6.2
Vivaldi	6.2
CIS AT 5	6.1
2.0019	6.0
PI 5696	5.9
Radiance	5.7
Tracentia	5.6
Orient	5.6
Lance	5.3

Golf green browntop trial UK (STRI 02)	
	D+F
Egmont	7.0
Heriot	6.9
Manor	6.8
Sefton	6.8
Arletta	6.8
Troy	6.6
TAT721	6.6
TAT720	6.5
ADV At 104	6.4
BAR AT 894	6.4
RTAt 11	6.4
DP 12-9036	6.3
PI 5695	6.2
Ambrosia	6.2
AberRoyal	6.1
Denso	6.0
PG 937	6.0
CIS AT 5	6.0
Bardot	6.0
2.0019	5.9
PI 5696	5.8
Vivaldi	5.6
Tracentia	5.5
Orient	5.4
Radiance	5.4
Lance	5.3

Colour

Manor is a light green cultivar comparable in colour to Sefton. Colour scores presented here relate to dark green colour assessed over the whole year.

Golf green browntop trial NZ (PGGW 05)	
	Colour
Egmont	6.0
Troy	5.8
PG937	5.2
Sefton	5.1
Manor	5.0
PG982	4.9
PG977	4.3
Punawai	4.2
Trust	4.2

Under summer drought stress or low fertility such as in the STRI (UK) trial browntop can exhibit slight browning of the foliage. Manor is less susceptible to exhibiting slight foliage browning under summer stress than Sefton. Foliage browning is unlikely to be a problem under the normal maintenance of golf greens or at higher heights of cut.

Golf green browntop trial NZ (PGGW 05)	
	Absence of brown
Egmont	7.1
Manor	7.1
Sefton	6.7
Troy	6.7
PG937	6.1
PG977	4.2
Trust	3.4
Punawai	3.3

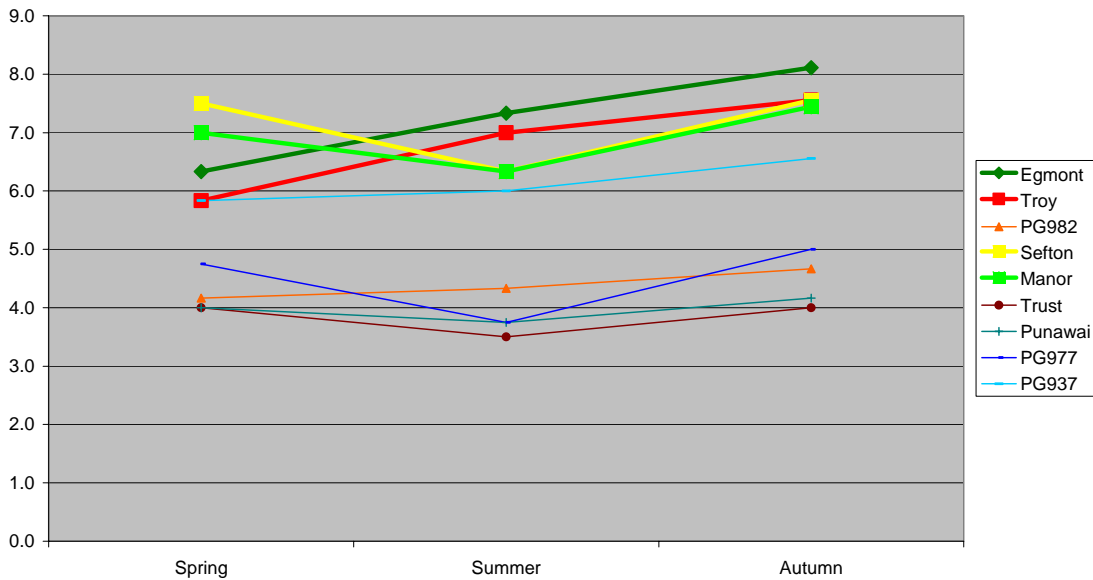
Seasonal overall quality of Manor browntop in NZ and UK

Manor has good year round performance in both NZ and UK. Density, fineness and colour remain excellent year round. There is a slight dip in the visual quality scores over summer with heat and drought stress of New Zealand summer. In the UK Manor maintains its quality and increases its ranking over summer.

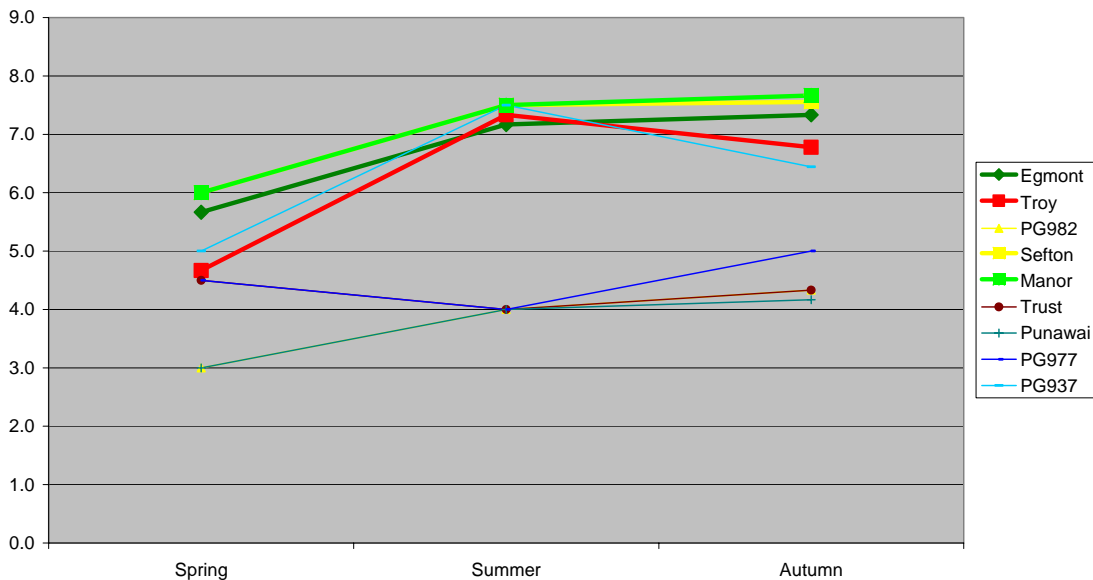
Manor seasonal quality in New Zealand.

Manor maintains good density and exceptional fineness throughout the year in New Zealand. Excellent spring and autumn density provides top playing quality.

Browntop density (NZ)



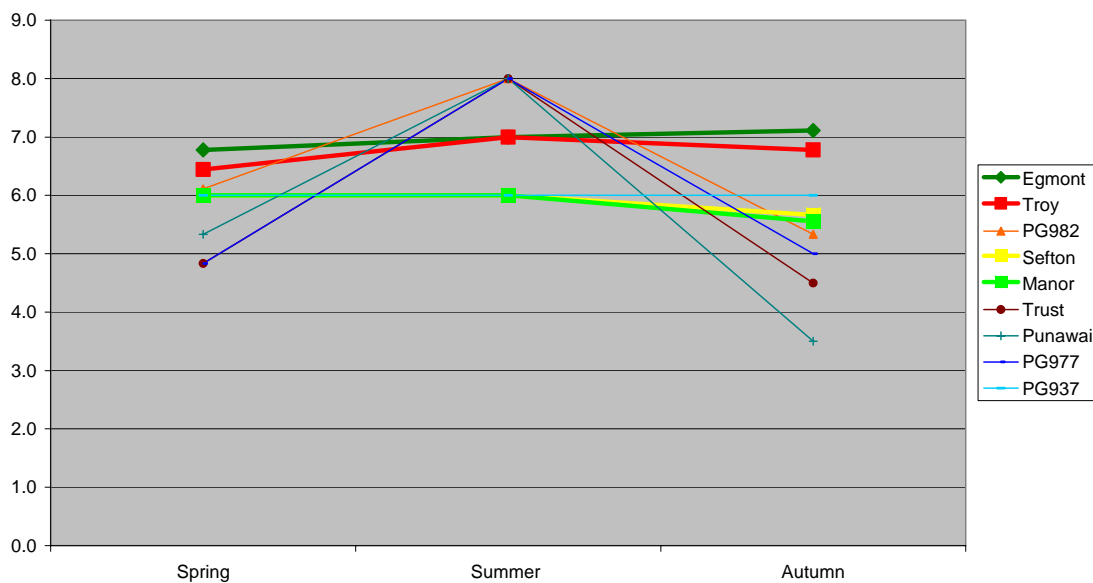
Browntop fineness (NZ)



Manor seasonal colour in New Zealand

Manor has a light green colour similar to Sefton. Colour remains relatively constant throughout the year.

Browntop colour (NZ)



Conclusion

Manor has excellent year round performance under putting green conditions in both New Zealand and UK. It maintains exceptional fineness and density through most of the year and has an attractive light green colour. Its fineness and density allow production of the highest quality putting surfaces.

In climates where browntop is adapted Manor can be used for golf greens, tees, green surrounds, fairways, rough, and lawns.

At higher heights of cut Manor is an attractive lawn grass that establishes well with a light, bright green colour.