

**RHODES GRASS***Chloris gayana***'Finecut'**

Application No: 93/080 Accepted: 10 Mar 1993.

Applicant: **The State of Queensland through its Department of Primary Industries, Brisbane, QLD.**

**Description** (Table 30, Figure 56) Plant: early maturing, erect, warm season, stoloniferous perennial grass. Maximum distance across plant (155 days after sowing): 1140 mm. Stem: mean culm length 1160 mm, 6.6 internodes, mean diameter (average of peduncle & second oldest internode) 2.3 mm. Leaf: flag, first and second leaves 126, 244, 329 mm long, and 3.7, 6.0 and 6.6 mm wide. Flowering: 82 days after sowing. Inflorescence: subdigitate panicle with means of 11.8 spikes 104 mm long (1210 mm total spike length per inflorescence). Seed: spikelet minus persistent glumes with short rigid awns 5.4 mm long.

**Origin** Synthetic variety derived from one cycle of selection and based on 10 clones selected from spaced plants representing two distinctly different 'Katambora' populations that originated from commercial seed fields near Biloela and Bundaberg in QLD. Breeder: D.S. Loch, Gympie, QLD. Selection criteria: dry matter production, early uniform flowering, dense upright growth for hay production. Propagation: seed.

**Comparative Trial** Comparator(s): 'Katambora' (ex Biloela), 'Katambora' (ex Bundaberg), 'Nemkat', 'Topcut', 'Pioneer'. Location: Tuchekoi, via Gympie; Oct 1992-Mar 1993. Conditions: seeds sown in dibbling tubes on 30 Oct 1992, thinned to one seedling per tube, and transplanted to the field on 25 Nov 1992. Trial design: randomised block, 3 replicates, 20 plants per plot, 1.5 m between plants within plots, 1.6 m between plots. Measurements: taken from all plants.

**Prior Applications and Sales** Nil.

Description: **D.S. Loch & G.L. Harvey**, Gympie, QLD.

**'Nemkat'**

Application No: 95/115 Accepted: 24 Apr 1995.

Applicant: **The State of Queensland through its Department of Primary Industries, Brisbane, QLD.**

**Description** (Table 30, Figure 58) Plant: early maturing, erect, warm season, stoloniferous perennial grass. Maximum distance across plant (101 days after sowing): 2100 mm. Stem: mean culm length 1480 mm, 7.6 internodes, mean diameter (average of peduncle & second oldest internode) 2.8 mm. Leaf: flag, first and second leaves 148, 271, 362 mm long, and 4.5, 7.4 and 8.1 mm wide. Flowering: 102 days after sowing. Inflorescence: subdigitate panicle with means of 13.9 spikes 104 mm long (1450 mm total spike length per inflorescence). Seed: spikelet minus persistent glumes with short rigid awns 5.8 mm long.

**Origin** Katambora-type Rhodes grass derived from CPI 125663 (ex Zimbabwe) and selected from six *Chloris gayana* lines in comparative screening trials for root-knot nematode resistance. Breeders: L. Schipke & J. Stanton. Selection criterion: tolerance to all known root-knot nematode (*Meloidogyne*) species in the north Queensland tobacco-producing area. Propagation: seed.

**Comparative Trial** Comparator(s): 'Finecut', 'Katambora' (ex Bundaberg), 'Katambora' (ex Biloela), 'Topcut', 'Pioneer'. Location: Tuchekoi, via Gympie; Nov 1993-Apr 1994. Conditions: seeds sown in dibbling tubes on 23 Nov 1993, thinned to one seedling per tube, and transplanted to the field on 17 Dec 1993. Trial design: randomised block, 3 replicates, 20 plants per plot, 1.5 m between plants within plots, 1.6 m between plots. Measurements: taken from all plants. Ratings of seedling development based on wider observations (sites x years).

**Prior Applications and Sales** Nil.

Description: **D.S. Loch & G.L. Harvey**, Gympie, QLD.

**Table 30 *Chloris* varieties**

	'Nemkat'	'Finecut'	**'Katambora' (ex Bundaberg)	**'Katambora' (ex Biloela)	**'Topcut'	**'Pioneer'
<b>SEEDLING DEVELOPMENT</b>						
Growth Habit (1=prostrate, 9=erect)	2	8	4	8	8	7
Spread by Stolons (1=strong, 9=weak)	2	6	3	7	6	5
<b>NO. OF CULM INTERNODES</b>						
mean	7.6	5.9	6.5	5.8	5.7	5.4
std deviation	1.3	0.8	0.9	0.9	0.8	0.7
LSD/sig.	0.8	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01
<b>MAXIMUM DISTANCE ACROSS PLANT after 101 days (mm)</b>						
mean	2100	1540	1940	1430	1700	1780
std deviation	540	620	520	640	600	670
LSD/sig.	490	P≤0.01	ns	P≤0.01	ns	ns
<b>DAYS TO FIRST FLOWERING</b>						
mean	101.7	75.5	81.9	77.5	72.9	78.8

std deviation	12.9	9.7	11.9	9.6	8.2	9.1
LSD/sig.	10.9	P≤0.01	P≤0.01	P≤0.01	P≤0.01	P≤0.01
<b>NO. OF SPIKES PER INFLORESCENCE</b>						
mean	14.2	13.9	14.9	15.8	17.6	16.0
std deviation	3.9	2.9	3.5	2.9	4.3	3.9
LSD/sig.	2.0	ns	ns	ns	P≤0.01	ns
<b>AWN LENGTH (mm)</b>						
mean	5.8	5.6	5.7	4.7	4.0	4.4
std deviation	1.0	1.1	1.1	1.0	0.7	0.9
LSD/sig.	0.5	ns	ns	P≤0.01	P≤0.01	P≤0.01

**‘Topcut’**

Application No: 93/081 Accepted: 10 Mar 1993.

Applicant: **The State of Queensland through its Department of Primary Industries, Brisbane, QLD.**

**Description** (Table 31, Figure 57) Plant: early maturing, erect, warm season, stoloniferous perennial grass. Maximum distance across plant (155 days after sowing): 1030 mm. Stem: mean culm length 1130 mm, 6.2 internodes, mean diameter (average of peduncle & second oldest internode) 2.3 mm. Leaf: flag, first and second leaves 119, 239, 315 mm long, and 4.3, 7.2 and 7.6 mm wide. Flowering: 79 days after sowing. Inflorescence: subdigitate panicle with means of 13.6 spikes 90 mm long (1230 mm total spike length per inflorescence). Seed: spikelet minus persistent glumes with short rigid awns 4.1 mm long.

**Origin** Synthetic variety derived from one cycle of selection and based on 7 clones selected from spaced plants of ‘Pioneer’. Breeder: D.S. Loch, Gympie, QLD. Selection criteria: dry matter production, early uniform flowering, dense upright growth for hay production. Propagation: seed.

**Comparative Trial** Comparator(s): ‘Pioneer’, ‘Katambora’ (ex Biloela), ‘Katambora’ (ex Bundaberg), ‘Nemkat’, ‘Finecut’. Location: Tuchekoi, via Gympie; Oct 1992-Mar 1993. Conditions: seeds sown in dibbling tubes on 30 Oct 1992, thinned to one seedling per tube, and transplanted to the field on 25 Nov 1992. Trial design: randomised block, 3 replicates, 20 plants per plot, 1.5 m between plants within plots, 1.6 m between plots. Measurements: taken from all plants.

**Prior Applications and Sales** Nil.

Description: **D.S. Loch & G.L. Harvey**, Gympie, QLD.

**Table 31 *Chloris varieties***

	‘Finecut’	‘Topcut’ (ex Biloela)	*‘Katambora’ (ex Bundaberg)	*‘Katambora’	*‘Nemkat’	*‘Pioneer’
<b>CULM LENGTH (mm) Protected LSD (0.01)= 120</b>						
mean	1160 a	1130 a	1110 a	1300 b	1290 b	1100 a
std deviation	110	100	100	100	100	100
<b>NO. OF CULM INTERNODES Protected LSD (0.01) = 0.6</b>						
mean	6.6 b	6.2 ab	6.3 b	6.2 ab	6.9 b	5.6 a
std deviation	0.9	0.8	1.0	0.7	1.0	0.8
<b>MAXIMUM DISTANCE ACROSS PLANT (mm)( after 155 days) Protected LSD (0.01) = 300</b>						
mean	1140 bc	1030 ab	790 a	1370 cd	1580 d	750 a
std deviation	370	400	320	440	590	270
<b>LEAF LENGTH (mm)(Second Leaf) Protected LSD (0.01) = 47</b>						
mean	329 b	316 ab	321ab	305 ab	275 a	284 a
std deviation	60	55	70	60	56	64
<b>LEAF WIDTH (mm)( Second Leaf ) Protected LSD (0.01) = 0.9</b>						
mean	6.6 a	7.6 bc	7.9 c	6.7 ab	6.1 a	7.8 bc
std deviation	1.0	1.4	1.2	1.0	1.0	1.4
<b>LENGTH:WIDTH RATIO(Second Leaf ) Protected LSD (0.01) = 5.2</b>						
mean	50.1 c	42.6 b	41.0 ab	46.1 bc	45.1 bc	36.8 a
std deviation	8.6	8.9	8.0	9.0	8.5	9.0
<b>LENGTH:WIDTH RATIO( First Leaf ) Protected LSD (0.01) = 3.4</b>						
mean	40.6 d	33.3 b	32.6 b	35.8 bc	36.1 c	28.7 a
std deviation	5.3	6.1	6.1	7.1	6.2	6.8
<b>LENGTH:WIDTH RATIO(Flag Leaf) Protected LSD (0.01) = 5.3</b>						
mean	35.0 c	28.2 ab	26.4 ab	29.8 bc	29.0 b	23.2 a
std deviation	7.2	6.1	6.4	10.2	8.6	7.6

## DAYS TO FIRST FLOWERING Protected LSD (0.01) = 12.8

mean	82.2 a	79.3 a	75.9 a	95.8 b	99.3 b	75.9 a
std deviation	8.6	5.2	7.1	16.9	15.3	10.7

## MEAN INDIVIDUAL SPIKE LENGTH (mm) Protected LSD (0.01) = 7.0

mean	104 c	90 a	89 a	96 ab	102 bc	90 a
std deviation	13	11	12	12	10	13

## AWN LENGTH (mm) Protected LSD (0.01) = 0.8

mean	5.4 b	4.1 a	4.7 ab	5.4 b	6.3 c	4.0 a
std deviation	1.1	0.8	0.8	1.0	1.0	1.2

Mean values followed by the same letter are not significantly different at P = 0.01 according to Protected LSD.

## ROSE

*Rosa*

## ‘Meiguitan’ syn Marilyn

Application No: 95/105 Accepted: 22 Mar 1995.

Applicant: **SNC Meilland et Cie.**, Antibes, France.

Agent: **HA Oakes and Son**, Carrum Downs, VIC.

**Description** (Figure 2) Plant: miniature, bushy, short and narrow. Young shoot: anthocyanin colouration present, bronze hue. Thorns: present, light to medium density long thorns (mean 6.7mm), upper side mainly flat (to slightly catena), lower side concave. Leaf: size small to medium, colour dark green, glossiness upper surface weak. Terminal leaflet: cross section flat (to slightly concave), margin undulation weak, length short (mean 33.7mm), width very narrow to narrow (mean 19.7mm), base shape wedge (obtuse), petiolule; length medium (mean 11.2mm). Flowering shoot: flower number medium to many. Flower pedicel: number of hairs or small thorns few. Flower bud: shape ovate. Flower: type double, petal number many to very many, diameter small (mean 60.6mm), view from above star shaped, upper profile flattened convex, lower profile flattened convex, fragrance weak, Sepal:(length medium; mean 27.6mm), extensions weak. Flower petal: size small, reflexed margins medium, margin undulations absent or very weak, inside surface; colour middle zone near RHS 36D (RHS 56B) and margin RHS 36D (RHS 56B), basal spot; present, size medium to large, colour near RHS 4C/4D. Outside surface; colour middle zone near RHS 36C-36D (RHS 62C), margin RHS 36C-36D (RHS 62C), basal spot present, size medium, colour near RHS 4D. (petal near centre of flower: colour inside surface middle zone and margin RHS 36D) Stamen: colour yellow. Style: colour pale greenish yellow, reddish stain near stigma. Stigma same level as anther. Seed vessel: size small, shape pitcher towards funnel. Flowering: remontant. (Note: data in brackets from local observations and measurements)

**Origin** Controlled pollination: ‘Lavline’ x (‘Joseph Guy’ x ‘Sultan’). Breeder: Alain Antoine Meilland, Antibes, France. Selection criteria: free-flowering miniature rose, suitable pot culture, attractive double flowers of good morphology. Propagation: vegetatively through numerous generations.

**Comparative Trial** Description based on official French PBR documents and data confirmed by local observations and measurements. Location: Carrum Downs, VIC (Latitude 38°06’ south, elevation 35m), summer-autumn 1996/97. Conditions: trial conducted in a polyhouse for

continuous flower production; plants propagated from cuttings, once rooted planted in threes into 210mm pots filled with soilless potting mix (pine bark based), nutrition maintained with slow release fertilizers, pest and disease control treatments applied as required, plants periodically pruned to control growth. Trial design: randomized block of ten pots each of variety and comparator. Measurements: minimum of 20 taken at random from ten pots. leaf measurements made on first or second 5-7 leaflet leaf down from inflorescence, thorns assessed on stem tissue in vicinity of measured leaves. The qualified person considers ‘Ballerina Parade’ to be a close comparator in Australia.

## Prior Applications and Sales

Country	Year	Status	Name Applied
France	1992	Granted	‘Meiguitan’
Denmark	1993	Granted	‘Meiguitan’
Germany	1993	Applied	‘Meiguitan’

First sold Denmark 1992.

Description: **Dr. Brian Hanger, Rosemary Ridge Pty Ltd**, Monbulk, VIC.

## ‘Meiguni’ syn Tequila

Application No: 95/101 Accepted: 22 Mar 1995

Applicant: **SNC Meilland et Cie.**, Antibes, France.

Agent: **HA Oakes and Son**, Carrum Downs, VIC.

**Description** (Table 32 Figure 1) Plant: miniature, narrow bushy to bushy, Young shoot: anthocyanin colouration generally absent, some shoots faint reddish brown hue. Thorns: present, density low, size short (mean 5.2mm), upper side concave, lower side strongly concave. Leaf: size small to medium, colour dark green, glossiness upper surface weak to medium. Terminal leaflet: cross section slightly concave, margin undulation weak, length short (mean 30.8mm), width narrow (mean 20.6mm), base shape obtuse, petiolule: length medium (mean 10.3mm). Flowering shoot: flower number many. Flower pedicel: colourless fine hairs, medium density short glandular hairs. Flower bud: shape round. Flower: type double, petal number many (38-48), diameter small to medium (mean 59.2mm), view from above irregularly round, upper profile flattened convex, lower profile flat, fragrance absent to very weak. Sepal: length medium (mean 24.1mm), extensions medium to strong. Flower petal: size small to medium, reflexed margins medium, margin undulations weak, colour yellow, dark pink staining of margins inside surface; colour middle zone and margin RHS 14C, basal spot absent, outside surface; colour middle zone RHS 14C, margin tinged pink near RHS 50A/52A, basal spot absent. Stamen: