

Notes of New Sugarcane Varieties of 2003 series

SL 03 336
SL 03 983
SL 03 1025
SL 03 1077

Prepared by

The Division of Crop Improvement in consultation with the other research divisions and the industries.



Sugarcane Research Institute
Uda Walawe
Sri Lanka

2023

SL 03 336

Historical Background

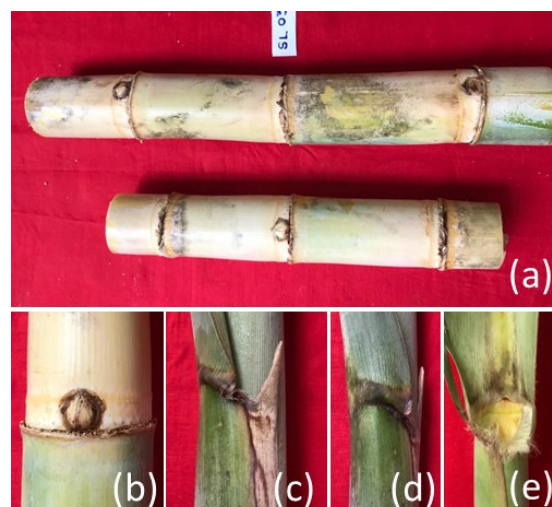
Breeding site: Uda Walawe
 Year of bred: 2003
 Parentage: CP 69 1052 (Self)

Distinguishing Characters

Trashing: Moderate
 Harvesting: Manual
 Germination: Good

General Appearance

Cane color: Greenish yellow
 Internodes (a): Shape: Cylindrical
 Bud (b): **Size:** Medium **Shape:** Ovate bud with emarginated basal wing region, **Position:** Bottom
 Leaves: **Auricle (c):** Long lanceolate, **Dewlap (d):** Large ascending squarish or rhomboid, **Ligules (e):** Crescent with lozenge



Agronomic Characteristics

Maturity time:	Mid (11-13 months)	Ratoonability:	Good
Planting time:	Early Maha – Uda walawe	Flowering:	Moderate
Diameter:	30 mm	Stalk Length:	268 cm

Yields	Uda Walawe		Pelwatta		Hingurana	
	SL 03 336	SL 83 06*	SL 03 336	SL 96 128*	SL 03 336	SL 96 128*
Avg. cane yield (mt/ha)	102.4	61.7	97	91.6	94.3	81.7
Avg. sugar yield (mt/ha)	12.9	8.2	11.9	10.0	10.8	9.4

POCS:	10.5-13%	Purity:	86%	Fibre:	13-15%
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Disease and pest response

Disease/pest	Screen results	Natural incidence			
		E	K	P	UW
Smut	Highly resistant	0	0 (P)	0 (P)	0-1.44 (P)
LSD	Highly resistant	0	0	0	0.13
WLD	High incidence (P-3.91, R1-19.42, R2-0)	83-100 (P)	0 (P)	71-87 (P)	0.9-13.3 (R)
Internode Borer		Very low incidence			
Shoot Borer		Very low incidence			

* - Standard variety

P- Plant crop, R – Ratoon, R1- Ratoon1, R2- Ratoon2; E- Ethimale, K- Kantale, P- Pelwatta, UW- Uda Walawe

SL 03 983

Historical Background

Breeding site: Uda Walawe
 Year of bred: 2003
 Parentage: SL 81 09 (Poly cross)

Distinguishing Characters

Trashing: Poor self-trashing
 Harvesting: Moderate
 Germination: Good
 Special feature: Erect, Hairy

General Appearance

Cane color: Greenish yellow
 Internodes (a): Shape: Conoidal
 Bud (b): **Size:** Medium, **Shape:** Ovate bud with emarginated basal wing region, **Position:** Bottom
 Leaves: **Auricle (c):** Falcate, **Dewlap (d):** Steeply descending crescent, **Ligules (e):** Crescent with lozenge



Agronomic Characteristics

Maturity time:	Early (10-12 months)	Ratoonability:	Good
Planting time:	Yala, Maha – Uda walawe	Flowering:	Moderate
Diameter:	27 mm	Stalk Length:	270 cm

Yields	Uda Walawe		Pelwatta		Hingurana	
	SL 03 983	SL 83 06*	SL 03 983	SL 96 128*	SL 03 983	SL 96 128*
Avg. cane yield (mt/ha)	64	61.7	87	91.6	75.6	81.7
Avg. sugar yield (mt/ha)	8.0	8.2	11.2	10.0	10.6	9.4

POCS:	10-13.5%	Purity:	84%	Fibre:	14-15%
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Disease and pest response

Disease/pest	Screen results	Natural incidence			
		E	K	P	UW
Smut	Highly resistant	0 (P)	0 (P)	0 (P)	0-1.64 (P)
LSD	Moderately susceptible (25.6)	0	0	0	0
WLD	Low incidence (P-0,R1-0, R2-1.33)	72-80 (P)	0 (P)	63-82 (P)	6.2-21 (R)
Internode Borer		Very low incidence			
Shoot Borer		Very low incidence			

* - Standard variety

P- Plant crop, R – Ratoon, R1- Ratoon1, R2- Ratoon2; E- Ethimale, K- Kantale, P- Pelwatta, UW- Uda Walawe

SL 03 1025

Historical Background

Breeding site: Uda Walawe
 Year of bred: 2003
 Parentage: SL 71 16 (Poly cross)

Distinguishing Characters

Trashing: Partially-trashing
 Harvesting: Moderate
 Germination: Good

General Appearance

Cane color: Brownish yellow
 Internodes (a): Shape: Curved
 Bud (b): **Size:** Medium **Shape:** Pentagonal bud, **Position:** Bottom
 Leaves: **Auricle (c):** Absent, **Dewlap (d):** Shallow deltoid-crescent with straight basal margin, **Ligules (e):** Crescent with narrow lozenge



Agronomic Characteristics

Maturity time:	Mid (12-14 months)	Ratoonability:	Good
Planting time:	Yala, Early Maha – Uda walawe	Flowering:	Low
Diameter:	30 mm	Stalk Length:	260 cm

Yields	Uda Walawe		Pelwatta		Hingurana	
	SL 03 1025	SL 83 06*	SL 03 1025	SL 96 128*	SL 03 1025	SL 96 128*
Avg. cane yield (mt/ha)	70.2	61.7	94.3	91.6	87.2	81.7
Avg. sugar yield (mt/ha)	8.0	8.2	11.3	10.0	11.3	9.4

POCS:	10-13%	Purity:	86%	Fibre:	14%
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Disease and pest response

Disease/pest	Screen results	Natural incidence			
		E	K	P	UW
Smut	Highly resistant	5.26 (P)	0 (P)	0 (P)	0.8-2.54 (P)
LSD	Resistant	0	0	0	0-0.51
WLD	Low incidence (P-0, R1-0, R2-0)	42-100 (P)	0 (P)	53-72 (P)	0-9.83 (R)
Internode Borer		Very low incidence			
Shoot Borer		Very low incidence			

* - Standard variety

P- Plant crop, R – Ratoon, R1- Ratoon1, R2- Ratoon2; E- Ethimale, K- Kantale, P- Pelwatta, UW- Uda Walawe

SL 03 1077

Historical Background

Breeding site: Uda Walawe
 Year of bred: 2003
 Parentage: PH 86 147 (Poly cross)

Distinguishing Characters

Trashing: Partially-trashing
 Harvesting: Normal
 Germination: Good

General Appearance

Cane color: Brown
 Internodes (a): Shape: Curved
 Bud (b): **Size:** Large, **Shape:** Roundish bud with crawfish-type wing, **Position:** Middle
 Leaves: **Auricle (c):** Straight transitional, **Dewlap (d):** Shallow deltoid-crescent with straight basal margin, **Ligules (e):** Crescent with lozenge



Agronomic Characteristics

Maturity time:	Mid (12-14 months)	Ratoonability:	Good
Planting time:	Yala, Maha – Uda walawe	Flowering:	Moderate
Diameter:	34 mm	Stalk Length:	242 cm

Yields	Uda Walawe		Pelwatta		Hingurana	
	SL 03 1077	SL 83 06*	SL 03 1077	SL 96 128*	SL 03 1077	SL 96 128*
Avg. cane yield (mt/ha)	87.5	61.7	105.7	91.6	71.1	81.7
Avg. sugar yield (mt/ha)	10.1	8.2	10.8	10.0	8.5	9.4

POCS:	10-12%	Purity:	85%	Fibre:	14%
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Disease and pest response

Disease/pest	Screen results	Natural incidence			
		E	K	P	UW
Smut	Moderately susceptible (17.6)	0	0-1.5 (P)	0 (P)	0-3.1 (P)
LSD	Highly susceptible (83)	0	0	0	0.05
WLD	Low incidence (P-0,R1-3.42, R2-0)	54-85 (P)	0 (P)	57-67 (P)	1-21 (R)
Internode Borer		Very low incidence			
Shoot Borer		Low incidence			

* - Standard variety

P- Plant crop, R – Ratoon, R1- Ratoon1, R2- Ratoon2; E- Ethimale, K- Kantale, P- Pelwatta, UW- Uda Walawe