

Released and Recommended New Crop Varieties
by the Varietal Release Committee
of the Department of Agriculture
Sri Lanka

22nd June 2012

Editor
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Department of Agriculture
Ministry of Agriculture
Peradeniya
Sri Lanka
2012

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Foreword



The Department of Agriculture (DOA) has contributed for the ever increasing demand of food in the country by providing several newly developed crop varieties through the rigorous crop improvement procedure of the respective research stations.

The successful crop varietal improvement programs of the DOA driven towards increasing the productivity while keeping quality and sustainability have achieved the expected targets to greater extent from several crops with improved varieties. Yet we were experienced laps in some crops and hybrid varieties of most possible crops.

It is important to notice that we were able to release a groundnut variety and two vegetable hybrid varieties for the general cultivation in this year. It was great achievement to have newly released varieties in each crop group for sustainably and enhanced productivity of cropping systems in the country.

I wish to thank and congratulate all the contributing breeders and other officials for their enthusiasm on achieving the success by presenting their valuable findings in Varietal Release Committee Meeting of the year 2012.

The book on “Released and Recommended New Crop Varieties for 2012” would provide essential technical information for several target groups of the DOA and other institutes for further dissemination of the findings.

I kindly acknowledge the secretary of the Varietal Release Committee Dr. Mrs. Amitha P. Bentota, for the utmost contribution on making all the arrangements for conducting a successful meeting and her effort for publication of this book.

Mr. K.G. Sriyapala,
Director General of Agriculture,
Department of Agriculture,
Peradeniya.

Preface



Varietal release committee meeting in the Department of Agriculture (DOA) is conducted annually, providing opportunity for researchers to nominate their candidate varieties for seeking approval to release or recommend for cultivation in the country. The book on “Released and Recommended new Crop Varieties for 2012” compiled 6 different varieties of 5 crops.

I wish to avail my sincere thanks to all the researchers who contributed to develop those varieties in different capacities with gratitude. Further, the effort of Extension and Training and Seed Certification Division of DOA should greatly appreciate. May I also thank the technical committee of VRC 2012 of the DOA and appreciate their services provided during the period to identify the potential nominations for VRC 2012.

The scientific comments made by participants during the VRC meeting were very useful in assessing the decisions of releasing or recommending the nominations. The valuable services rendered by Assistant Director and the staff of Audio Visual Centre as well as Assistant Director and the staff of DOA press for completing this publication in an attractive manner is greatly appreciated.

Dr (Mrs) Amitha P. Bentota, Additional Director
Secretary to the Varietal Release Committee
Department of Agriculture
Sri Lanka

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Abbreviations

RRDI	- Rice Research and Development Institute
FCRDI	- Field Crop Research and Development Institute
HORDI	- Horticulture Research and Development Institute
MI	- Mahailuppallama
R	- Resistant
MR	- Moderatly Resistant
MS	- Moderatly Susceptible
WC	- White Centre
DGA	- Director Genaral of Agriculture
PD	- Provincial Director
DDR	- Deputy Director Research
DDA	- Deputy Director Agriculture
DDIP	- Deputy Director Inter Provincial
ADA	- Assistant Director of Agriculture
ROIC	- Research Officer In-Charge
RO	- Research Officer
AE	- Agriculture Economist
AEA	- Agriculture Economist Assistant
PA	- Programme Assistant
AMO	- Agriculture Monitoring Officer
AI	- Agriculture Instructor
DUS	- Distinct, Uniformity and Stability
NCRVT	- National Co-ordinated Rice Varietal Testing
VAT	- Varietal Adaptability Testing
LSVAT	- Large Scale Varietal Adaptability Testing
FBS	- Farm Broadcasting Service
ETD	- Extension and Training Division
FRU	- Food Research Unit
PGRC	- Plant Genetic Resourse Centre
SEPC	- Socio Economic and Planning Centre
SCS	- Seed Certification Centre
FCRDI	- Fruit Crops Research and Development Institute
PDOA	- Provincial Department of Agriculture

01. Rice: Bg - 369



Released for cultivation in salinity affected areas of the country

Background

Variety name	: Bg 369
Line Designation	: Bg 11-139
Pedigree	: Bg 94-1 /Nonabokra
Type of cultivar	: Pure line
Origin	: Developed through hybridization and selection at the RRDI, Batalagoda
Method of propagation	: By Seeds

Yield (t/ha) (Under saline conditions)

Potential recorded	: 10.8
Average yield	
Yala season	: 5.0
Maha season	: 7.0

Maturity (days)

Yala season	: 104
Maha season	: 103

Tolerant to salinity : up to 10 dS/m

Reaction to diseases

Blast	: R/MR
Bacterial leaf blight	: MR/MS

Reaction to insect pests

Gall midge	: MR
Brown plant hoper	: MR

Quality characteristics

Brown rice recovery (%)	: 81.5
Milling recovery (%)	: 74.2
Head rice recovery (%)	: 58.9
Amylose content	: High
Gelatinization Temperature	: Intermediate

DUS report for candidate rice variety Bg 11-139

Candidate variety	: Bg 11-139
Seasons tested	: Maha 2011/12 Yala 2012
Test locations	: Post control field II, Gannoruwa

The candidate variety Bg 11-139 was tested for distinctness, uniformity and stability by comparing with recommended variety Bg 94-1 as the reference.

Distinctness

Candidate variety is distinctly different from the reference variety Bg 94-1 by its plant, flag leaf and grain characteristics.

- Plant of the candidate variety is taller compared to that of the reference variety.
- Angle of the flag leaf of candidate variety is erect while it is intermediate in the reference variety
- Flag leaf of the candidate variety is longer and wider than that of the reference variety.
- Flag leaves are prominent in candidate variety and panicles are prominent in reference variety.
- Boat shape appearance of the grain (before dehulled) is absent in the candidate variety while it is present in the reference variety.

Uniformity and stability

The candidate variety is sufficiently uniform and stable for the characteristics given in the descriptor

Seedling

Height (cm)	: 31.6
Leaf sheath colour	: Green
Penultimate leaf	:
Blade colour	: Green
Sheath colour	: Green
Collor colour	: Pale green
Blade pubescence	: Glabrous
Blade length (cm)	: 36.1
Blade width (cm)	: 1.2
Blade angle	: Intermediate

Flag leaf

Angle at flowering	: Erect
Angle at maturity	: Erect
Length (cm)	: 30.2
Width (cm)	: 1.5
Colour at harvest maturity	: Yellowish green

Ligule

Length (mm)	: 14.7
Shape	: 2-cleft
Colour	: white

Auricle

Colour	: Pale green
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Culm

Angle	: Erect
Height (cm)	: 58.6
Diameter (mm)	: 4.9

Tillers

No. per plant	: 10
No. of panicle bearing tillers	: 10

Flowering	
Duration from sowing to 50%	: 79
Flowering (d)	
Sensitivity to day length	: Insensitive
Internode	
Colour	: Light Gold
Spikelet	
Stigma Colour	: White
Apiculus Colour	: Straw
Presence of awn	: Absent
Sterility	: Fertile
Panicle	
Length (cm)	: 22.7
No. of grains / panicle	: 193
No. of filled grains / panicle	: 145
Panicle type	: Intermediate
Panicle exertion	: Moderately Well
Secondary branching within Panicle	: Heavy
Axis	: Straight
Grain	
Length(mm)	: 9.3
Width (mm)	: 3
Apiculus colour	: Straw
Colour of awn	: -
Shattering	: Moderate
1000 grain weight (g) at 13%	: 33.9
Moisture content	
Grain (dehulled)	
Pericarp Colour	: White
Length (mm)	: 6.8
Width (mm)	: 2.7
Shape	: Spindle shape
Duration	
For a transplanted crop (days)	: 109
Senescence Leaf	: Late & slow

Prepared by : K K S D Predeepika, RO, SCS, Gannoruwa, Peradeniya
 Conducted by : I K Wasala, RO, KBUCB, Kandeyaya, AI, SCS, Gannoruwa
 and WMPM Weerakoon, AI, Post control unit II, Gannoruwa

Officers responsible for developing variety

Nominating center : Rice Research and Development
 Institute, Batalagoda
 Breeder : D. N Sirisena
 Collaborating / supporting staff : Mr. P. V Hemachandra, RO
 Ms. B. M. E. M. Basnayake, TA
 Ms. W. M. N. Wanninayake, AI
 Mr. H. M. A. B. Herath, RA
 Cooperators : Dr. D. S De Z Abey Siriwardena D/ RRDI
 Dr. D. M N Dissanayake D/RRDI
 Mr. S. W Abeysekara, Add/D
 NCRVT, VAT and LSAVT Officers

Extension officers of the Puttalam and Polonnaruwa Districts

02. Groundnut ANKG1



Background

Variety name	: ANKG1
Line designation	: Red Testa
Pedigree	: Tissa x Red Spanish
Type of cultivar	: Pure line
Origin	: Developed through hybridization & selection at GLORDC, Angunakolapelessa
Method of Propagation	: By seeds

Yield(t/ha)

Potential Recorded	: 4.5
Average Yield	:
Yala season	: 2.6
Maha season	: 2.7

Maturity (days)

Yala season	: 90
Maha season	: 90-100

Important traits

100 pod weight (g)	: 125
100 seed weight(g)	: 45-53
Seed length - mm	: 15-16
Seed width - mm	: 9-19
Colour of the seed testa	: Red
Number of days to maturity	: 90-100

Reaction to

Diseases

Bud Necrosis Disease	: MR
Rust	: MR
Wilt	: MR
Leaf Spot	: MS

Quality characteristics

Oil (%)	: 42.8
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DUS Test Report for Candidate groundnut Variety Red Testa

Release Name of the variety	: ANKG 1
Name of candidate variety	: Red Testa
Seasons tested	: 2007/08 Maha, 2008 Yala
Test locations	: Post-control fields, Mahailuppallama and Gannoruwa

Distinctness

The candidate groundnut variety Red Testa was tested for distinctness; uniformity and stability by comparing with the recommended variety Tissa, in grow out trials. Also the data obtained on the candidate variety were compared with the data obtained on Red Spanish which is the other parent groundnut variety of the candidate.

The candidate variety was not clearly distinct from the reference varieties in plant characteristics. However, the seed colour of the candidate variety is distinctly different from the reference variety Tissa as well as all the other recommended varieties. Seed colour of the candidate variety is more tan compared that of Tissa.

When the varietal characters of the candidate variety compared with those of the previously popular variety Red Spanish; maturity duration of the candidate variety is shorter compared to that of Red Spanish.

Uniformity and Stability:

The candidate variety is sufficiently uniform and stable for morphological characteristics given in the descriptor.

Groundnut variety Red Spanish x Tissa

Pedigree	: Red Spanish x Tissa
Origin	: GLORDC, Angunakolapelessa
Plant	
Growth habit	: Erect
Stem	
Branching pattern	: Sequential
Pigmentation	: Absent*
Leaf	
Colour	: Light green
Root	
Nodulation	: Present
Flower	
Days to flowering	: 30-35
Colour	: Orange
Pod	
Days to maturity	: 90-100
Number of seeds per pod	: 1-2**
100 pod weight(g)	: 125
Pod size	: Medium
Peg pigmentation	: Present
Beak	: Slight to moderate
Constriction	: Deep
Reticulation	: Prominent

Seed

Size : Medium
Colour : Purple red
100 seed weight (g) : 51

Remarks

*Pigmented plants were observed occasionally.

** 3 seeded pods were observed (-5%) occasionally.

DUS report prepared by : Rohini Nanayakkara, R.O., Variety Section.

DUS testing conducted by : Rohini Nanayakkara (R.O.), G.J.
Dissanayake (A.I.), H.M.T.V. Welegama
(PA), D.M.D. Dassanayake (AI), Seed
Certification Service, Gannoruwa and
K.P. Sumanasiri, A.I., Post-control Field-IV,
Mahailuppallama.

Officers Responsible for Developing Variety

Nominating Institute/Centre : Grain Legumes and Oil crops Research
and Development Centre,
Angunakolapelessa

Breeder : Mrs S.P. Bandara (RO)
Mr. L.A. Weerasena (Additional Director)

Collaborating Scientists : Ms. D.G.C. Jeewani (RO)
Mrs. N.P.S. Silva (RO)
Mr. D. Weerasesera (RO)

Collaborating Supporting Staff : Mr. M.T. Gunasena (RO)
Late Mrs H.K. Malani.(AI)
Mrs M.D. Malkanthi (PA)
Mrs W.S. Arunakanthi (AI)

NCVT and VAT officers : Dr. Malima Perera (DDR, MI)
Mr. K.G. Ubayapala (AI)
Mr. Wakishta (AI)
Mrs. B. Bavaleeshwaran (RO)

03. Okra Hybrid Variety : OK H 1



Back ground

Candidate variety name	: OK H 1
Line designation	: HB 100
Pedigree	: OK 2 X OK 15
Origin	: FCRDI – Horana
Type of cultivar	: F 1 Hybrid
Variety / cultivar performance	: Monocrop
Method of propagation	: By seeds

Yield (t/ha)

Potential Yield Recorded	: 30
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Average yield

Yala season	: 21.59
Maha season	: 22.57

Flowering (days)

(50 % of plants with at least one flower)	: 40-50
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Maturity (days)

Days to maturity	: 82
Picking interval	: 2
Harvesting period	: more than 46

Reaction to Diseases

Leaf yellow vein mosaic virus	: tolerance
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Quality characteristics

Color of fruit at green harvest	: light green
No. of fruits per plant	: 22
Moisture (%)	: 91.2
Cooking time (min)	: 4
Shelf life (days)	: 5

DUS Test report for candidate Okra variety HB 100

Released name : OKH 1

Candidate Variety : HB 100
Seasons tested : Yala 2012 & Maha 2011/2012
Tested locations : Post control fields – Gannoruwa & Mahailuppallama

The candidate hybrid okra variety HB 100 was tested for distinctness, uniformity, and stability by comparing with the recommended varieties Haritha , MI 5 and other candidate varieties, HB 93, OK 2 and OK 15 as references.

Distinctness:

F 1 Hybrid Okra variety HB 100 is distinctly different from reference variety Haritha, in plant height, branching habit, stem color, leaf color, shape of leaf lobes, number of fruits, fruit length, fruit color and fruit shape.

The candidate variety HB 100 is distinctly different from MI 5 in branching habit, plant height, number of internodes , number of fruits, fruit shape, and number of ridges of fruits. The hybrid variety HB 100 is not clearly distinct from variety HB 93.

HB 100 has slight deviations from HB 93 on leaf shape , (two sub lobes in middle lobe in HB 93) and pigmentation(Prominent in HB 93).

The hybrid variety HB 100 is distinctly different from the parental variety OK 15 in stem color , flower pigmentation and fruit characters.

- Red patches in green color stem is more prominent in HB 100 compared to OK 15 which has prominent green color stem
- Anthocyanin color is observed on both sides of petal base of HB 100 while anthocyanin is found only inside of the petal base of OK15
- Fruit are more similar in OK 15 and HB 100 (Photos attached)

Variety HB 100 is not clearly distinct from morphological characters of OK 2. However there was a difference in these two varieties (HB 100 and OK 2) in days to flowering .

- Candidate variety HB 100, flowers earlier (41 days) than parent variety OK 2 , which floweres in 45 – 50 days .

Uniformity and stability

The candidate variety is sufficiently uniform and stable for the characteristics given in the descriptor.

Pedigree : OK 2 X OK 15

Origin : Sri Lanka

Plant

Growth habit : Erect

Maximum Height (cm) : 221 (Gannoruwa), 102 (MI)

Number of internodes / plant : 29 (Gannoruwa), 12 (MI)

Stem

Color : Green with red patches

Branching : Medium

Leaf

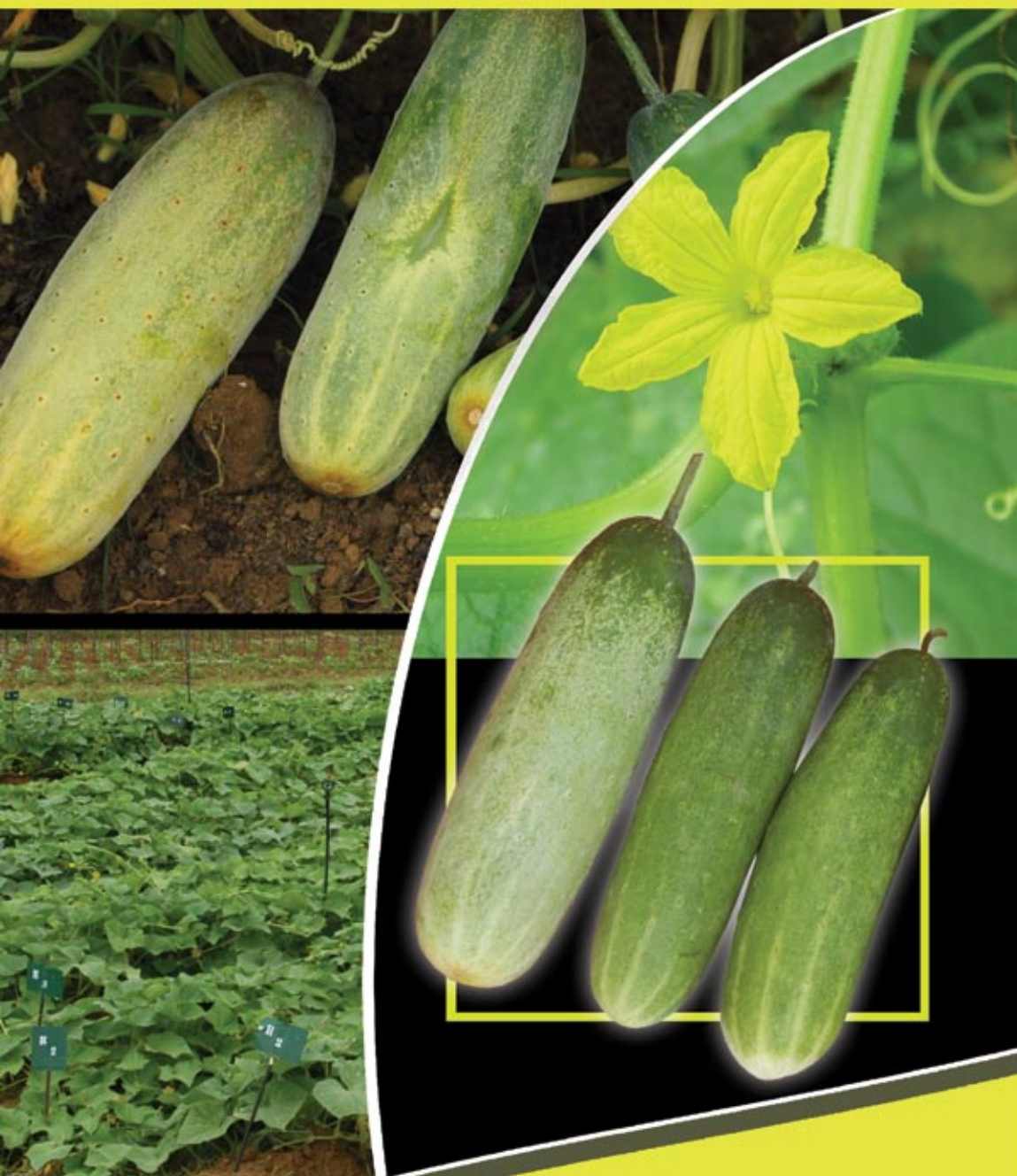
Shape of lower leaves (up to 5th) : Shallowly lobed

Shape of upper leaves	: deeply lobed
Color	: Green
Leaf anthocyanin	: present on leaf Petiole
Flower	
Days to 50 % flowering (Days)	: 41 (Gannoruwa), 41 (MI)
Number of epicalyx segments	: 8 -10
Shape of epicalyx segments	: Lenior
Petal color	: Yellow
Presence of anthocyanin	: inside and outside (both sides) colouration at base of petal (Gannoruwa), 107 (MI)
Fruit (2nd fruit at green harvest)	
Length / Diameter (cm)	: 24/2.6(Gannoruwa), : 17/2 (MI)
Shape of apex	: Narrow acute
Construction of basal part	: Weakly expresses
Color of fruit at table use maturity	: Green
Weight of Fresh fruit at table use maturity (g)	: 35 Gannoruwa, (12 MI)
Pubescence at table use maturity	: downey
No. of fruits per plant	: 22 (Gannoruwa) , 12 (MI)
No. of ridges	: 5
Days to maturity	: 82 (Gannoruwa), 76 (MI)
Seed	
Number of seeds per fruit	: 84 (Gannoruwa), 61 (MI)
Color	: Grayish black
Shape	: Round
Weight of 1000 dried seeds (g)	: 62
Remarks	: Virus diseases observed only in MI
Prepared by	: I. K. Wasala, (R.O.), SCS, Gannoruwa, Peradeniya
Conducted by	: R. Nanayakkara (R.O.), H.M.V.T. Welegama (P.A.), T.S. Samarasinghe(A.I.), P.A.G. Chandrika Kumari (AI), D.R. J. K. Senadheera (A.I.), SCS Gannoruwa and T. M. Abesundara (A.I.), Mahailuppallama and P.G.R. Ruwan Anunasiri, (RSA)

Officers responsible for developing variety

Nominating institute / Centre	: Fruit Crop Research & Development Institute
Breeder	: Mrs. D.G.S Ratnapala
Collaborative scientist	: Mrs. S.T. Baddegama (RO)
Collaborating staff	: Ms. W.D. Jayalatha (A.I) Ms. H.D.P.L. Hiriyadeniya (RA) Mr. S.M. Bandara (ROIC) Mr. S. Ekanayake (RO) Ms. C.K.D. Wellala (AO)

04. Cucumber hybrid variety **HORDI Green F1**



Background

Variety name	: HORDI Green F1
Line designation	: H18
Type of cultivar	: F1 hybrid
Origen	: Locally developed at HORDI, Gannoruwa
Method of development	: F1 single cross by KW-1 X C1
Method of Propagation	: Seeds

Yield

Potential Recorded (t/ha)	: 55
Average yield (t/ha)	
Yala season	: 43.6
Maha season	: 41.2

Maturity (days)

Yala season	: 52
Maha season	: 54

Harvesting (days)

Time of picking (from female Flowering)	: 11-17
Picking intervals	: 2-4
No of picks	: 8-10

Quality characteristics

Fruit taste	: Crispy
Brix	: 3.0
pH	: 5.8
Moisture %	: 96.2
External skin colour Ref RHC chart before maturity	: Yellow green group 153 B-C
Internal skin colour Ref RHC chart before maturity	: Green white group157A
No of spine/fruit	: 15-21
Fruit firmness (kgcm 2)	: 3.2

Reaction to pests : No serious pest infestation

DUS Test Report for Cucumber Variety H 18 (HORDI green F1)

Variety : H 18(KW-1 x C 1)
Seasons : Yala 2012, Maha 2011/2012
Test Locations : Post control fields, Mahailuppallama and Gannoruwa

The candidate cucumber variety H 18 was tested for distinctness, uniformity and stability by comparing with the recommended varieties KW and Champion as the references.

Candidate cucumber variety H 18 is distinctly different from the reference variety KW and Champion by its leaf, flowering duration, and fruit characteristics

- Leaf size of candidate variety H 18 is bigger than that of KW and smaller than that of champion'
- Intermodal length of the variety H 18 is longer than that of the variety KW and shorter than that of the variety champion
- Both male and female flowers are borne earlier in the candidate variety H 18 and variety champion than that of variety KW
- Fruit Characters of candidate variety are distinctly different in shape, size and colour compared to reference variety KW and champion (photo 1)
- Immature fruits of variety H 18 are green in colour with light yellow stripes on the blossom end, where as those of reference variety KW, are yellow in colour and in the other reference variety champion, those are green with incomplete longitudinal whitish strips
- The candidate variety H 18 and variety champion have ellipsoid fruits while the reference variety KW has oblong fruits

Uniformity and stability

The candidate variety is sufficiently uniform and stable for the characteristics given in the descriptor.

Cucumber variety H 18

Variety name : H 18
Pedigree : KW-1, female x C 1, Male
Origin : HORDI, Gannoruwa

Plant

Growth habit : Prostrate
Internodes length(cm) : 9.33
Presence of tendrils : Present

Leaf Blade

Size(length/width)
of terminal lobes(cm) : 15.54/21.44

Flower

Days to flowering (male) flowers : 25-35
Days to flowering (female) flowers: 30-40

Fruit

Shape : Ellipsoid
Size(length, diameter) cm : 28.22/9.08

Shape of cross section	: Angular
Ratio total diameter/core diameter	: 2.4
Presence of neck	: Absent
Shape of the stem end	: Flattened
Shape of calyx end	: Round flat
Strips on blossom end	: Present (up to 1/3-1/2 of the blossom end)
Colour of strips	: Light yellow
Colour of spines	: Black
Colour before maturity	: Green with light yellow strips
Type of vesture	: Short hair and prickles
Colour of vesture	: Black
Skin mottling	: Absent
Skin texture at maturity	: Netted
Skin colour at maturity	: Brown
Presence of ribs	: Absent
Bitterness	: Absent (Gannoruwa) Low (MI)
Flesh thickness(cm)	: ± 2.59
Flesh colour	: White
Flesh texture	: Smooth firm
Number of seeds per fruit	: ± 468
Seed	
1000 seed weight in dry stage (g)	: ± 27

Remarks

Prepared by	: I K Wathsala,(R.O), SCS, Gannoruwa, Peradeniya
Conducted by	: R. Nanayakkara(R.O), M V T Weligama (P.A), T S Samarasinghe, (A.I), P A G Chandika Kumari (A.I) D R J K Senadheera(A.I), SCS, Gannoruwa and T M Abeyundara(A.I), Mahailuppallama,

Officers responsible for developing variety

Nominating institute / Centre	: Horticulture Crop Research & Development Institute
Name of the breeder	: N.Pararajasingam (RO)
Other collaborators	: Wijeratna Menike (AI)
NCVT	Mr Sanath Bandara RO, Dr Fahim RO, Ms G Balasingam RO, Wickramasinghe (AI)
Pest & disease assessments	Mrs I Wahundeniya (FormerAD), Dr.Rajapakshe{RO}
Quality analysis	Mr.S ,Eanayake(RO) In each column means with the same letter is not significantly different
VAT	Mr C.Perara D.D Kandy District,Mr P.Pallemulla D.D.Matale District,MS D.Bandara D,D Kegall District, Mr ,Karunathilaka (AI),Mr.M.Saman Kumara (AI), Jeevanthi Godigamuwa (AI) Mr. Amila Gurusinhe(AI}, MsN. Alahakoon (AI)

05. Durian Horana Durian 1 (Horana gold)



Background

Variety Name	: Horana Durian 1 (Horana Gold)
Line designation	: HOD-13
Pedigree	: Local seedling cultivar collected from FCRDC, Horana, and grafted to Durian rootstock
Type of cultivar	: Clone
Origin	: Collected from Seedling trees at FCRDC Horana and evaluated in field gene bank FCRDC, Horana
Method of propagation	: Grafting

Yield Recorded number of fruits /tree	: 1st year: 23
	2nd Year: 15
	3rd Year: 12
	4th Year: 128

Flowering

Flowering months	: March-April
Fruiting season	: July – August

Important Traits

Fruit

weight (kg)	: 2.8
Height (cm)	: 26.0
Width (cm)	: 19.5
Size	: medium
Shape	: Oval
Skin Colour	: G.Y.G 162A-B
Number of carple/fruit	: 5
Aril weight /fruit (g)	: 756
Aril weight/ peel weight (g)	: 0.48
Easiness of splitting	: Easy

Perfect Aril

Number per fruit	: 20
Flesh Colour	: Yellowish orange
Aril Thickness (cm)	: 1.3
Number of filled seeds/ fruit	: 17
Unfilled seeds/fruit	: 3
Seedless (Aril only)	: 2
Flesh aroma	: Strong
Flesh taste	: Sweet
Flesh stickiness	: no
Brix value	: 30.3
Texture of Aril	: Soft, Bland
Presence of fibre	: present

Spine

Shape	: Conical
Density	: Intermediate
Spine length (cm)	: 1.5

Husk

Husk weight/ fruit weight	: 0.60
Adherence of husk	: Easily separable
Time taken from flowering to ripening (days)	: 100-130
Shelf life (days after fruit fall down)	: 2-3

Insect pest

Stem borer	: Hardly present
Scale insect	: Common but not severe
Leaf eating caterpillar	: Hardly present

Tree characters (at the age of 9th year)

Tree height (m)	: 7.5
Canopy spread (m)	: 9-9.5
Canopy shape	: Elliptical
Branch density	: Dense
Leaf colour	: Green
Tree growth habit	: Erect
Branch angle	: Wide

Leaf characters

Vegetative life cycle	: Ever green
Leaf density	: Medium
Length (cm)	: Large(15<)
Width (cm)	: Large (5<)
Shape	: Elliptic
Margin	: Entire

Officers Responsible for developing varieties

Nominating Institute/Center	: Fruit Crops Research and Development Center, Kananwila, Horana
Scientists	: Mr. W.D. Lesly and Dr. Shanta peiris
Collaborating Supporting Staff	: Dr. P. Alahakoon (Pathology) Mrs. A.S.Pushpakumari and A. piyasena (Entomology) Mrs. C. D. Wickramasinghe(RA), Mr. Sarath Gunerathne (AI), Mrs. B. J. Hettiarachchi (AI), Ms. Deepa Hettiarachchi (AI), Mrs. A.T.Ekanayake (P.A.), Mr. K.M.D.G.Wickramathilake (AI), Mr. J.A. C.D. Jayasinghe (RA)

06. Durian Horana Durian 2 (Horana Jambo)



Background

Variety Name	: Horana Durian 2 (Horana Jambo)
Line designation	: HOD-16
Pedigree	: Introduction from Thailand
Type of cultivar	: Clone
Origin	: Collected from Mr. Dandeniya Acrachchi, Raigama, Bandaragama and evaluated in field gene bank FCRDC, Horana

Method of propagation : Grafting

Yield

Recorded number of fruits /tree	: 1st year - 16
	2nd Year- 14
	3rd Year- 08
	4th Year-115

Flowering

Flowering months	: March-April
Fruiting season	: July – August

Fruit

weight (kg)	: 3.1
Height (cm)	: 24.8
Size	: large
Width (cm)	: 20.2
Shape	: Obovate
Skin Colour	: G.Y.G 162 A-B
Number of carple/fruit	: 5
Aril weight /fruit (g)	: 1183
Aril weight/ peel weight (g)	: 0.65
Easiness of splitting	: Easy
Skin thickness	: medium

Perfect Aril

Number per fruit	: 16
Flesh Colour	: Yellow
Ari Thickness (cm)	: 2.2
Number of filled seeds/ fruit	: 3
Unfilled seeds/fruit	: 13
Seedless (Aril only)	: 4
Flesh aroma	: mild
Flesh taste	: Sweet
Flesh stickiness	: no
Brix value	: 29.9
Texture of Aril	: Intermediate, Bland
Presence of fibre	: Present

Spine

Shape	: Pyramidal
Density	: Intermediate
Spine length (cm)	: 1.2

Husk

Husk weight/ fruit weight	: 0.63
Adherence of husk	: Easily separable
Time taken from flowering to ripening (days)	: 120- 140
Shelf life (days after fruit fall down)	: 3-4

Insect pest

Stem borer	: Hardly present
Scale insect	: Not common not severe
Leaf eating caterpillar	: Common but not severe

Tree characters (at the age of 9th year)

Tree height (m)	: 8.0
Canopy spread	: 7.0-7.5
Canopy shape	: Spherical
Branch density	: Intermediate
Leaf colour	: Green
Tree growth habit	: Erect
Branch angle	: Wide

Leaf characters

Vegetative life cycle	: Ever green
Leaf density	: medium
Length (cm)	: Large (15<)
Width (cm)	: Large (5<)
Shape	: Ovate-lanceolate
Margin	: Entire

Officers Responsible for developing variety

- Nominating Institute/Center : Fruit Crops Research and Development Center, Kananwila, Horana
- Scientists : Mr. W.D. Lesly and Dr. Shanta peiris
- Collaborating Supporting Staff : Dr. P. Alahakoon (Pathology)
Mrs. A.S.Pushpakumari and A. piyasena (Entomology)
Mrs. C. D. Wickramasinghe(RA), Mr. Sarath Gunerathne (AI),
Mrs. B. J. Hettiarachchi (AI), Ms. Deepa Hettiarachchi (AI), Mrs. A.T.Ekanayake (P.A.),
Mr.K.M.D.G.Wickramathilake (AI), Mr. J.A. C.D. Jayasinghe (RA)

07. Varietal Release Technical Committee - 2012

The following officers nominated by the Director General of Agriculture visited the sites where the candidate varieties were grown and provided reports.

Ms. I. Wahundeniya (Act.Ad.Director, HORDI)

Mr. K. Yasakethu (ADA, Ex & Tr Division)

Dr. K. Hettiarachchi (Breeder)

Dr. R.G.S. Rajapaksha (Pathologist)

Dr. R.M. Herath (Economist)

Dr. W.M.W. Weerakoon (Agronomist)

Mr. J.P. Sumanarathna (Breeder)

Dr. Amitha Bentota (Breeder)

08. List of participants - Varietal Release Committee Meeting (2012)

Mr. K.G. Sriyapala	DGA	Peradeniya
Dr. Amitha Bentota	Add. Director	GLORDC, A'pelessa
Ms. D.G.C. Jeewani	RO	GLORDC, A'pelessa
Mr. M.C. Millawithanachchi	RO	GLORDC, A'pelessa
Ms. M.S. Abeyrathne	RO	FCRDI, Horana
Mr. W.D. Lesley	RO	FCRDI, Horana
Mr. I. Kalubowila	RO	FCRDI, Horana
Ms. H.D.P.L. Hiriyaadeniya	RA	FCRDI, Horana
Mr. A.H. Gunadasa	RO	FCRDI, Horana
Dr. W.M.W. Weerakoon	Director	FCRDI, Mahailuppallama
Dr. A. De Silva	Add. Director	FCRDI, MI
Ms. D.C.M.S.I. Wijewardana	RO	FCRDI, MI
Dr. A.M. Perera	DDR	FCRDI, MI
Mr. M.J.M.P. Kumararathna	RO	FCRDI, MI
Mr. E.S. Edirisinghe	RO	FCRDI, MI
Ms. B.M.K. Senarathna	RO	FCRDI, MI
Ms. W.A.R. Dammika	RO	FCRDI, MI
Ms. N.H.M.N. Chithrapala	RO	FCRDI, MI
Mr. H.M.S.N. Herath	RO	FCRDI, MI
Mr. W.M.K. Fenando	RO	FCRDI, MI
Mr. P.G.B.A. Palkadapaala	RO	FCRDI, MI
Dr. K.W. Katipearachchi	ROIC	FCRDI, Gannoruwa
Mr. J.A.C.D. Jayasinghe	RA	FCRDC, Horana
Ms. S.T. Baddegama	RO	FCRDC, Horana
Dr. G.M.W. Chithral	Director	SPMDC
Mr. H. M. S. P. Herath	DD(Seed paddy)	SPMDC
Mr. H. P. Thilakarathna	DD	SPMDC
Mr. H.M. Sirimewan Herath	DD	PDOA, Kurunegala
Mr. D.M.M. Disanayaka	ADA	PDOA (NWP), Kurunegala
Mr. H.G.N. Sumanathilaka	P.A	Agricultural School, Karapincha
Mr. W.G.M.C. Dayawansa	Director (ETC)	ETC - Peradeniya
Ms. Jayantha Athapaththu	Add. Director	ETC - Peradeniya
Ms. R.R. Samuel	Add. Director	ETC, Peradeniya
Ms. M.G. Rasika Ranaweera	AI	ETC, Peradeniya
Ms. K.A.K. Wijesena	RO	RRDI, Bathalagoda
Ms. A.V.C. Abayagunasekara	RO	RRDI, Bathalagoda
Ms. D. S. Kakulandava	RO	RRDI, Bathalagoda
Mr. R.J. Rathnayaka	PA	RRDI, Bathalagoda
Ms. S.S. Paththinige	RO	RRDI, Bathalagoda
Ms. R.M.N.H. Senanayaka	RO	RRDI, Bathalagoda
Ms. K.G.P.B. Karunarathne	RO	RRDI, Bathalagoda
Ms. W.S. Priyantha	RO	RRDI, Bathalagoda
Mr. W.M.N. Wanninayaka	AI	RRDI, Bathalagoda
Dr. D.M.N. Disanayaka	Director	RRDI, Bathalagoda

Mr. S.W. Abeyssekara	Add. Director	RRDI, Bathalagoda
Dr. W.L.G. Samarasinghe	RO	RRDI, Bathalagoda
Mr. R.S.K. Keerthisena	RO	RRDI, Bathalagoda
Ms. M. Thavabalachandram	RO	HORDI, Gannoruwa
Ms. Indra Eriyagama	RO	HORDI, Gannoruwa
Mr. K.G.S. Senavirathna	RO	HORDI, Gannoruwa
Ms. L.D. Galanihe	RO	HORDI, Gannoruwa
Dr. Samantha Wasala	RO	HORDI, Gannoruwa
Ms. Priyanthi Bandara	RO	HORDI, Gannoruwa
Mr. K.A.D.S. D. Kahandawa Arachchi	RO	HORDI, Gannoruwa
Ms. N.L. A.T.S. Nanayakkara	RO	HORDI, Gannoruwa
Ms. N. Pararajasinghe	RO	HORDI, Gannoruwa
Dr. H.M. Ariyaratna	AD	HORDI, Gannoruwa
Mr. H.P.D. Sumanasinghe	PA	HORDI, Gannoruwa
Dr. R.G.A.S. Rajapaksha	RO	HORDI, Gannoruwa
Dr. Hemal Fonseka	Add. Director	HORDI, Gannoruwa
Ms. P. Malathie	RO	HORDI, Gannoruwa
Mr. L.C. Wijethilaka	DDR	RARDC, Makandura
Mr. W.M.S.R. Weerasinghe	RO	RARDC, Makandura
Ms. S.A.S.M. Kumari	RO	RARDC, Makandura
Mr. M.A.A. Kalees	DDA	RARDC, Makandura
Mr. B.A.N.K. Balasuriya	RO	RARDC, Makandura
Mr. M.A. Kularathna	RO	RARDC, Makandura
Ms. H.M.C. Hitinayaka	RO	RARDC, Aralaganwila
Mr. M.S.W. Fernando	RO	RARDC, Aralaganwila
Mr. B.H.D. Weerasinghe	RO	RARDC, Bandarawela
Dr. J.B.D.S. Kahandawala	DDR	RARDC, Bandarawela
Ms. R.M.N. Disanayaka	RO	RARDC, Bandarawela
Mr. D.M. Gunasekara	RO	RARDC, Bandarawela
Mr. K.N. Arunathilaka	DDA	IP, Ampara
Mr. R. P. Kasthuruarachchi	AD	ISTI, Gannoruwa
Mr. T.A. Kamiss	AO	ISTI, Gannoruwa
Ms. L.A.D.S. Wijesinghe	PA	ISTI, Gannoruwa
Mr. U.A.P. Wimalasena	DDA	(IP) Anuradapura
Mr. P. W. Rathnasiri	DD	PGRC, Gannoruwa
Mr. W.M.D. Wasala	RO	PGRC, Gannoruwa
Mr. A.S.M. Liyanage	RO	PGRC, Gannoruwa
Ms. S.M.S.W. Wanigadeera	RO	PGRC, Gannoruwa
Dr. K. Hettiarachchi	RO	PGRC, Gannoruwa
Mr. P.C. Peiris	DD	PMEU
Mr. N.P.C. de Silva	DDA	ETC, Peradeniya
Mr. S. Rathnasinghe	PD	Southern (P) Dep. of Agric.
Mr. K.A. Kamal Premarathna	SMO	(I/P) Polonnaruwa
Mr. V. Jayalath	ADA (AO)	(IP) Polonnaruwa
Mrs. D.S. Rathnasinghe	ADA	EX & T. Div, Peradeniya
Mr. J.P. Sumanarathna	District Director	DS. Monaragala
Mr. T. Karunaidh	ROIC	ARS, Vavuniya

Mr. S.J.I. Pushpakumara	RA	ARS, Setaeliya
Ms. M.G.N. Rupasinghe	ROIC	ARS, Bentota
Mr. S. Vijayarathnam	ROIC	ARS, Thirunelvely
Ms. M.B. Weerasuruya	ADA	DDA (IP) Office, Hambantota
Mr. J.R.D.B. Dammika	SMO	DD Office Kegalle
Mr. D.F.C. Jayantha	SMO	DD Office Rathnapura
Mr. M.K. Vincent Perera	SMO Paddy	DD Office (IP) Ampara
Mr. U.R. Muthubanda	SMO Paddy	DD Office (IP) Hasalaka
Ms. N.M.W.M. Bandara	RO	ARS, Sitaeliya
Ms. N.P.S. De Silva	RO	RRDC, Bombuwela
Ms. W.D.P. Weerasinghe	RO	RRDC, Bombuwela
Mr. Gamini de Silva	Director	SCS, Gannoruwa
Ms. I.K. Wasala	RO	SCS, Gannoruwa
Ms. K.K.S.D. Pradeepika	RO	SCS, Gannoruwa
Ms. R. Nanayakkara	DD	SCS, Gannoruwa
Ms. R.F. Hafeel	ROIC	RRS, At
Mr. G.A. Jinadasa	ROIC	RRS, Labuduwa
Dr. D.M. Withanawasam	RO	RRS, Ambalantota
Ms. D.G.S. Rathapala	District Director	Rathnapura
Dr. W. M.A.D.B. Wickramasinghe	Director	NRMC, Peradeniya
Dr. Y. Katipearachchi	Director	Polonnaruwa Dis. Secret.
Mr. K.P. Karawita	PD	Sabaragamuwa
Dr. Sumith Abeysiriwardena	Consultant Scientist	CIC
Mr. H.U. Warnakulasooriya	Add. D	SEPC
Dr. H.M.S. Heenkenda	Director	FRDI, Horana