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

14th November 2014

Editor
Amitha P. Bentota

Department of Agriculture
Ministry of Agriculture
Peradeniya
Sri Lanka
2014
The Department of Agriculture in Sri Lanka contributes immensely to ensure food security in the country through recommendation of relevant and timely needed agriculture technologies including new improved crop varieties. Agriculture in Sri Lanka and elsewhere is highly vulnerable to changing climate and therefore challenges for the future agriculture will be much greater than the present. These changes offer a greater potential for new crop varieties which can tolerate the effects of climate changes. I am glad to be aware that breeders and other researchers have paid much attention on these aspects and successful stories of those efforts are also mentioned in this booklet.

Rice variety Bg 251 GSR which can tolerate low moisture conditions and Bg 455 which can withstand submerged conditions will gain tremendous popularity among local farmers all over the country who are facing crop losses due to droughts and floods.

I would like to convey my sincere gratitude to all the breeders and other relevant officials who contributed for such achievements.

Finally I wish to acknowledge the secretary of the Varietal Release Committee Dr. Mrs. Amitha Bentota for her tireless efforts and utmost contribution on publication of this book and making all the arrangements for conducting successful meeting.

Dr. Rohan Wijekoon
Director General of Agriculture
Department of Agroculture
Peradeniya.
Preface

Varietal release committee meeting in the Department of Agriculture (DOA) is an annual event at present as the crop improvement is a priority attempt in DOA to secure the food in the country in sustainable manner with consumer acceptable qualities.

The book on “Released and Recommended new Crop Varieties for 2014” compiled 14 different varieties of 8 crops. The rice varieties released this year will be an another turning point in rice varietal development history in the country as three of them are to cater for drought, flood and salinity which occurs more frequently than earlier indicating the scientists are in position of solving the climate change effects to the country staple food. The high yielding, non lodging rice variety, Ambalanthota Suwanda Samba is a greater attempt to cater for consumers who prefer the taste of traditional variety Suwadal. The Horana Papaya Hybrid 1 with the highly acceptable consumer preference was another remarkable achievement of DOA as it is the 1st papaya hybrid in the history of DOA. Thrips resistant Big Onion, weevil tolerant Sweet Potato, foot rot resistant Cowpea released in the VRC 2014 will contribute for reduce use of agro chemicals in the country. The genetic resources collected by Plant Genetic Resource Centre (PGRC), Gannoruwa were utilized and selected two Horse Gram (Kollu) varieties for cultivation in the country. The diversity in farmers’ field also concern by the scientist and could release a chilli variety and recommended three Larvulu collections. An introduced fruit crop, Chempadak was recommended for the cultivation in the country.

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 Service of DOA should greatly appreciate for providing valuable contribution for generating valuable data of the crops concern in VRC 2014. May I also thank the technical committee of VRC 2014 of the DOA and appreciate their services provided during the period to identify the potential nominations for VRC 2014.

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 Additional Director and the staff of Audio Visual Centre as well as Deputy Director and the staff of DOA press for completing this publication in an attractive manner is greatly appreciated.

Dr (Mrs) Amitha P. Bentota, Director (Rice Research and Development)
Secretary to the Varietal Release Committee
Department of Agriculture
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Abbreviations

ADA - Assistant Director of Agriculture
AE - Agriculture Economist
AEA - Agriculture Economist Assistant
AI - Agriculture Instructor
AMO - Agriculture Monitoring Officer
DDA - Deputy Director Agriculture
DDIP - Deputy Director Inter Provincial
DGA - Director General of Agriculture
DDR - Deputy Director Research
DUS - Distinct, Uniformity and Stability
ETD - Extension and Training Division
FBS - Farm Broadcasting Service
FCRDI - Field Crop Research and Development Institute
FRDI - Fruit Research and Development Institute
FRU - Food Research Unit
HORDI - Horticulture Research and Development Institute
LSVAT - Large Scale Varietal Adaptability Testing
MI - Mahailluppallama
MR - Moderately Resistant
MS - Moderately Susceptible
NCRVT - National Co-ordinated Rice Varietal Testing
PA - Programme Assistant
PD - Provincial Director
PDOA - Provincial Department of Agriculture
PGRC - Plant Genetic Resource Centre
R - Resistant
RO - Research Officer
ROIC - Research Officer In-Charge
RRDI - Rice Research and Development Institute
SCS - Seed Certification Service
SEPC - Socio Economic and Planning Centre
TSS - Total Soluble Solids
UOP - University of Peradeniya
VAT - Varietal Adaptability Testing
WC - White Centre
1. Rice  Bg 251 GSR

Released for drought prone and rain fed areas of the country
Background
Variety name: Bg 251 GSR
Line designation: ZX788 (CNI 28)
Origin: Introduced from China
Type of cultivar: Pure line
Method of propagation: By seeds

Yield (t/ha)
Highest yield recorded: 8.34 (Murunkan, NCRVT 2011/12 maha)
Average yield:
- Irrigated condition: 5.5
- Rainfed condition: 3.57

Maturity (Days)
Yala season: 78
Maha season: 82

Reaction to diseases
Blast: R/MR
Bacterial leaf blight: MS

Reaction to Insects pests
Gall midge: R/MR
Brown Plant Hopper: MR

Quality characteristics
Brown rice recovery (%): 79
Milling recovery (%): 73.5
Head rice recovery (%): 68.2
Amylose content: High
Gelatinization Temperature: Intermediate
1000 grain weight: 21.5g
Grain shape: Long medium
Pericarp color: White
DUS report will be available to another VRC meeting.

**Officers Responsible for Developing Variety**

**Nominating center**: Rice Research & Development Institute, Batalagoda, Ibbagamuwa

**Scientist involved**: Dr. D.M.N. Dissanayake - Former Director, RRDI/Batalagoda  
Dr. W.M.W. Weerakoon - Director/FCRDI (Research Officer/RRDI)  
Dr. R.S.K. Keerthisena - Additional Director, RRDI/Batalagoda

**Supporting Staff**: Mrs. C.H. Piyasiri - Program assistant  
Mrs. R.M.U.S. Geethika - Technical assistant

**Collaborative officers**: Mr. S.W. Abeysekara (Former Deputy Director/RRDI)  
Mr. A.M.T. Abeywickrama (RO-Plant breeding)  
Mr. A.H. Gunadasa (RO - Plant breeding)  
Ms. T.K. Illangakoon (RO - Agronomy & Physiology)  
Ms. R.Walisinghe (AE)  
Ms. K.R.D. Gunapala (RO-Plant Pathology)  
Ms. M.A.R.A. Mandanayake (RO- Entomology)  
Ms. S.P. Rebeira (RO - Grain quality)  
Ms. R.J. Rathnayake (PA - Grain quality)  
NCRVT, VAT and LSVAT officers  
Ms. Kamani Wijesena (RO - Plant breeding)

**Extension staff**: Ms. A.H.M.V. Wadimangawa (ADA), Kuliyanipitiya  
Mr. Sisira Kumara (ADA), Ibbagamuwa  
Ms. H.L.M. Jinadari Lanka (ADA), Dambadeniya  
Ms. I.A.R. Damayanthi (ADA), Wariyapola  
Mr. W.M.S.Wanninayake (ADA), Galgamuwa  
Mr. Dharmarathne Banda, Maho (SMO), Paddy  
Mr. A.H. Kapuru Banda, Galgamuwa (SMO) Paddy  
Mr. B.M.S.B. Basnayake, Ibbagamuwa, SMO, Paddy
Released varieties in 2014

Bg 251 GSR

At 373

Bg 96-741

Bg 455

MIBO 01

ANKCP 01 (Anguna Cowpea)

ANK Black (Anguna Kalu Kollu)

ANK Brown (Anguna Duburu Kollu)

Horana Papaya Hybrid 01

Horana Larvulu 02

Horana Chempadak
2. Rice

Released for general cultivation and saline paddy lands in the country
Background
Variety Name : Bg 310
Line Designation : Bg 4-91
Pedigree : Bg 300 x Pokkali
Type of Cultivar : Pure Line
Origin : Developed through hybridization and selection at the RRDI, Batalagoda
Method of Propagation : By Seeds

Yield (t/ha)
Highest yield recorded : 11.38
Average yield (t/ha)
  Yala : 5.5
  Maha : 6.0

Maturity (days)
  Yala : 93
  Maha : 89

Reaction to salinity : Up to 8 dS/m

Reaction to diseases
  Blast : R/MR
  Bacterial Leaf Blight : MR/MS

Reaction to insect pests
  Gall midge : R/MR
  Brown Plant Hopper : R/MR

Quality characteristics
  Brown rice recovery % : 81
  Milling recovery % : 75
  Head grain recovery % : 61.3
  Amylose content : High
  Geletinization Temperature : Intermediate
  Grain size and shape : Intermediate Bold
  Pericarp color : White
DUS Report for Candidate Rice Variety Bg 4-91  
(Released name - Bg 310)

Candidate variety : Bg 4-91  
Seasons tested : 2013/14 Maha, Maha 2014 Yala  
Test locations : Post-control field II, Gannoruwa

The candidate variety Bg4-91 tested for distinctness, uniformity and stability (DUS) by comparing with the recommended variety Bg 300 as the reference.

Distinctness
Candidate variety is slightly different from the reference variety Bg 300 by its Plant, panicle and seed characteristics.

- Number of tillers per plant of the candidate variety Bg 4-91 is little higher than the reference variety Bg 300
- Number of seeds per panicle of candidate variety Bg 4-91 is higher than the reference variety Bg 300
- Although the candidate variety and reference variety have half spindle shaped grains, size of the grain is little longer in candidate variety Bg 4-91 than the reference variety Bg 300

The slight differences among the candidate variety Bg 4-91 and reference variety Bg 300 are not clearly visible and therefore it is difficult to distinguish each variety separately in the field by morphological characters.

Uniformity and Stability
The candidate variety Bg 4-91 is sufficiently uniform and stable for the characteristics given in the descriptor.

Pedigree : Bg 300/Pokkali  
Origin : RRDI, Batalagoda - Sri Lanka  
Seedling
  Height (cm) : 31.75  
  Leaf sheath colour : Green  
Penultimate leaf
  Blade colour : Green  
  Sheath colour : Green  
  Collar colour : Pale green  
  Blade pubescence : Glabrous  
  Blade length (cm) : 40.7  
  Blade width (cm) : 1.23  
  Blade angle : Intermediate  
Flag leaf
  Angle at flowering : Intermediate
<table>
<thead>
<tr>
<th>Feature</th>
<th>Measurement</th>
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<tbody>
<tr>
<td>Angle at maturity</td>
<td>Intermediate</td>
</tr>
<tr>
<td>Length (cm)</td>
<td>29.6</td>
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<tr>
<td>Width (cm)</td>
<td>1.6</td>
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<tr>
<td>Colour at harvest maturity</td>
<td>Yellowish green</td>
</tr>
<tr>
<td>Ligule</td>
<td></td>
</tr>
<tr>
<td>Length (mm)</td>
<td>15.4</td>
</tr>
<tr>
<td>Shape</td>
<td>2 cleft</td>
</tr>
<tr>
<td>Colour</td>
<td>White</td>
</tr>
<tr>
<td>Auricle</td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>Pale green</td>
</tr>
<tr>
<td>Culm</td>
<td></td>
</tr>
<tr>
<td>Angle</td>
<td>Erect</td>
</tr>
<tr>
<td>Height (cm)</td>
<td>72.7</td>
</tr>
<tr>
<td>Diameter (mm)</td>
<td>5.1</td>
</tr>
<tr>
<td>Tillers</td>
<td></td>
</tr>
<tr>
<td>No. per plant</td>
<td>12.9</td>
</tr>
<tr>
<td>No. of panicle bearing tillers</td>
<td>12.5</td>
</tr>
<tr>
<td>Flowering</td>
<td></td>
</tr>
<tr>
<td>Duration from sowing to</td>
<td></td>
</tr>
<tr>
<td>50% flowering (d)</td>
<td>65</td>
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<tr>
<td>Sensitivity to day length</td>
<td>No</td>
</tr>
<tr>
<td>Internode</td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>Green</td>
</tr>
<tr>
<td>Spikelet</td>
<td></td>
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<tr>
<td>Stigma colour</td>
<td>White</td>
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<td>Apiculus colour</td>
<td>Straw</td>
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<td>Panicle</td>
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<td>Length (cm)</td>
<td>19.8</td>
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<tr>
<td>No. of grains / panicle</td>
<td>184.7</td>
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<td>No. of filled grains / panicle</td>
<td>126.5</td>
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<tr>
<td>Panicle type</td>
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<tr>
<td>Panicle exertion</td>
<td>Just</td>
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<tr>
<td>Secondary branching</td>
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<tr>
<td>within panicle</td>
<td>Heavy</td>
</tr>
<tr>
<td>Axis</td>
<td>Straight</td>
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<tr>
<td>Grain</td>
<td></td>
</tr>
<tr>
<td>Length (mm)</td>
<td>9.2</td>
</tr>
<tr>
<td>Width (mm)</td>
<td>3.5</td>
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<tr>
<td>apiculus colour</td>
<td>Strow</td>
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<tr>
<td>Colour of awn</td>
<td>-</td>
</tr>
<tr>
<td>Shattering %</td>
<td>11.2</td>
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<tr>
<td>1000 grain weight (g) at</td>
<td></td>
</tr>
</tbody>
</table>
13% moisture content : 29.4
Grain (dehulled)
  Pericarp colour : White
  Length (mm) : 6.7
  Width (mm) : 2.3
  Shape : Intermediate Bold
Duration
  For a transplanted crop (d) : 95
Senescence
  Leaf : Late & slow

Conducted by : I.K. Wasala, RO, K.B.U.C.B. Kandeyaya, AI, SCS,
             Gannoruwa and W.M.P.M. Weerakoon, AI,
             P.S. Amarasingha (RA), Post-control Unit II, Gannoruwa

**Officers Responsible for developing variety**

Nominating Center : Rice Research and Development Institute,
                    Batalagoda
Name/Names of the breeder : D.N. Sirisena
Collaborating/Supporting staff : Mr. P.V. Hemachandra (RO)
                                Ms. W.M.N. Wanninayake (AI)
                                Ms. B.M.I.M. Basnayake (TA)
Cooperators : Dr. Sumith Abesiriwardena
              (Former Director RRDI)
              NCRVT, VAT and LS VAT Officers,
              Extension officers of the North Western
              Province (Puttalam District)
3. Rice
At 373
(Ambalantota Suwanda Samba)

Released for general cultivation in the country
Background
Variety Name : At 373 (Ambalantota Suwanda Samba)
Line designation : At 06-631
Pedigree : IR 70422-66-5-2/Bg 98-2571
Type of Cultivar : Pure Line
Origin : Hybridization & Selection at RRS, Ambalantota
Method of Propagation : By seeds

Yield
Potential recorded (t/ha) : 6.7 t/ha (Werunkulama)
Average yield (t/ha)
   Yala season : 5.3
   Maha season : 4.4

Maturity (Days)
   Yala season : 103
   Maha season (days) : 102

Important traits
   Seedling height (cm) : 25.3
   Culm length (cm) : 76.6
   Tillerling : Medium
   Panicle length (cm) : 20.0
   Grain length (mm) : 4.9
   Grain width (mm) : 2.4
   1000 grain weight (g) at 13 % moisture : 11.0
   Grain type : Short Round
   Endosperm type : Non waxy
   Lemma and Palea colour : Straw
   Pericarp colour : White

Reaction to Diseases
   Blast : MR/MS
   Bacterial Leaf Blight : MR/MS

Reaction to Insect pest
   Gall Midge : R
   Brown Plant Hopper : MR

Quality characteristics
   Brown Rice Recovery (%) : 80.2
   Milling Recovery : 75.3
   Head Rice recovery : 73.3
   White belly/center : WC-2
   Amylose content : H
   Geletinization temperature : I-H
   Translucency : I
DUS Report for Candidate Rice Variety At 06-631
(Released name - At 373, Ambalantota Suwanda Samba)

Candidate variety : At 06-631
Seasons tested : Yala 2011, Maha 2010/11
Test locations : Post-control field II, Gannoruwa

Distinctness
- Candidate variety is distinctly different from the reference variety Bg 360 by its plant, leaf, grain and maturity characteristics.
- Plant of candidate variety At 06-631 is shorter than the reference variety Bg 360.
- Candidate variety has green colour stem while the reference variety Bg 360 has purple colour stem.
- Tillering angle of At 06-631 is erect compared to the Bg 360 which has intermediate angled tillering habit.
- Flag leaf angle of the candidate variety is erect compared to the Bg 360 which has intermediate angled flag leaf.
- Panicles are prominent in candidate variety and flag leaves are prominent in reference variety.
- The candidate variety has straw colour apiculus while Bg 360 has purple colour apiculus.
- Candidate variety At 06-631 mature later than the reference variety Bg 360 (about 10 days).

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

Seedling
- height (cm) : 25.3
- leaf sheath colour : Green

Penultimate leaf
- blade colour : Green
- sheath colour : Green
- collar colour : Pale green
- blade pubescence : Glabrous
- blade length (cm) : 37.4
- blade width (cm) : 1.2
- blade angle : Erect

Flag leaf
- angle at flowering : Erect
- angle at maturity : Erect
- length (cm) : 23.1
- width (cm) : 1.7
- colour at harvest maturity : Yellowish green
Ligule
- length (mm): 20.7
- shape: White
- colour: 2 cleft

Auricle
- colour: Pale green

Culm
- angle: Erect
- height (cm): 42.8
- diameter (mm): 6.7

Tillers
- no. per plant: 18
- no. of panicle bearing tillers: 15.4

Flowering
- duration from sowing to 50% flowering (d): 95
- Sensitivity to day length: Insensitive

Internode
- colour: Green

Spikelet
- stigma colour: White
- apiculus colour: Straw

Panicle
- length (cm): 20.6
- no. of grains / panicle: 259
- no. of filled grains / panicle: 180
- panicle exertion: Well
- secondary branching within axis: Light

Grain
- length (mm): 6.8
- width (mm): 3.5
- apiculus colour: Straw
- colour of awn: -
- shattering: Moderate
- 1000 grain weight (g) at 13% moisture content: 11.8

Grain (dehulled)
- pericarp colour: White
- length (mm): 4.6
- width (mm): 2.5
- shape: Semi round

Duration
- for a transplanted crop (d): 115

Senescence
- leaf: Late & Slow


**Officers Responsible for Developing Variety**

**Breeder** : Mr. B.D. Pathinayaka (Retired Additional Director, GLORDC, Angunukolapelessa)

**Co-Breeder** : Mr. D.M. Withanawasam (RO/ Breeder), RRS, Ambalantota

**Collaborating Scientists** : Mrs. M.H.U. Siriwardena (RO/ Breeder, RRS, Ambalantota)
Mrs. R.F. Hafeel (DDR)/Food technology, RRS, Ambalantota

**Programme Assistant** : Ms. A.P. Sumanawathie (AI), RRS, Ambalantota
Mr. U.H. Hemapala (AI), RRS, Ambalantota
4. Rice Bg 455

Released for flood prone areas in the country
### Background

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
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<tbody>
<tr>
<td>Variety Name</td>
<td>Bg 455</td>
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<tr>
<td>Line designation</td>
<td>Bg 96-741</td>
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<tr>
<td>Pedigree</td>
<td>Ob2547/CR9413//IR46/Ob2552</td>
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<tr>
<td>Type of cultivar</td>
<td>Pure line</td>
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<tr>
<td>Origin</td>
<td>Developed through hybridization and selection at the RRDI, Batalagoda and further selection at RRS, Bentota</td>
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<tr>
<td>Method of propagation</td>
<td>By seeds</td>
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### Yield (t/ha)

<table>
<thead>
<tr>
<th>Season</th>
<th>Yield (t/ha)</th>
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<tr>
<td>Highest yield recorded</td>
<td>7.66</td>
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<tr>
<td>Average yield</td>
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<tr>
<td>Yala season</td>
<td>4.97</td>
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<tr>
<td>Maha season</td>
<td>6.38</td>
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### Maturity (Days)

<table>
<thead>
<tr>
<th>Season</th>
<th>Maturity (Days)</th>
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<tr>
<td>Yala season</td>
<td>130</td>
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<tr>
<td>Maha season</td>
<td>126</td>
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### Reaction to diseases

<table>
<thead>
<tr>
<th>Disease</th>
<th>Reaction</th>
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<tbody>
<tr>
<td>Blast</td>
<td>R</td>
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<tr>
<td>Bacterial leaf blight</td>
<td>MS</td>
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### Reaction to Insects pests

<table>
<thead>
<tr>
<th>Insect</th>
<th>Reaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gall midge</td>
<td>R/MR</td>
</tr>
<tr>
<td>Brown Plant hoper</td>
<td>MR/MS</td>
</tr>
</tbody>
</table>

### Quality characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
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<tr>
<td>Brown rice recovery (%)</td>
<td>78.1</td>
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<tr>
<td>Milling recovery (%)</td>
<td>71.3</td>
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<tr>
<td>Head rice recovery (%)</td>
<td>68</td>
</tr>
<tr>
<td>1000 grain weight (g)</td>
<td>24.8</td>
</tr>
<tr>
<td>Grain shape</td>
<td>Intermediate bold</td>
</tr>
<tr>
<td>Grain color</td>
<td>Red</td>
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<tr>
<td>Special attributes</td>
<td>Flood tolerance</td>
</tr>
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DUS Report for Candidate Rice Variety Bg 96-741
(Released name - Bg 455)

Candidate Variety : Bg 96 - 741
Seasons tested : 2013/14 Maha, 2014 Yala
Test location : Post-control field II, Gannoruwa

The candidate variety Bg 96 – 741 was tested for distinctness, uniformity and stability (DUS) by comparing with the recommended variety Bw 400 as the reference.

Distinctness

Candidate variety is distinctly different from the reference variety Bw 400 by its plant, leaf and panicle characteristics.

- Plant of the candidate variety Bg 96 – 741 is relatively shorter than that of the reference variety Bw 400.
- Length of the flag leaf of the candidate variety Bg 96 – 741 is shorter than that of the reference variety Bw 400.
- Tillering angle of Bg 96 – 741 is intermediate compared to the Bw 400 which has erect angled tillering habit.
- Candidate variety Bg 96 – 741 has green colour leaf sheath while the reference variety Bw 400 has purple colour leaf sheath.
- Colour of the apiculus of the candidate variety Bg 96 – 741 is straw colour while it is purple colour in the reference variety Bw 400.
- Compared to the reference variety Bw 400, the candidate variety Bg 96 – 741 is relatively delayed in maturity.

Uniformity and Stability

Plant height of the, candidate variety Bg 96 – 741 is not uniform but other characters are uniform and stable given in the descriptor.

Seedling
- Height (cm) : 34.9
- Leaf sheath colour : Green

Penultimate leaf
- Blade colour : Green
- Sheath colour : Green
- Collar colour : Pale green
- Blade pubescence : Glabrous
- Blade length (cm) : 45.5
- Blade width (cm) : 1.7
- Blade angle : Erect

Flag leaf
- Angle at flowering : Erect
- Angle at maturity : Erect
- Length (cm) : 29.2
- Width (cm) : 1.75
- Colour at harvest maturity : Yellowish green
Ligule
  Length (mm) : 22.65
  Shape : 2 cleft
  Colour : White

Auricle
  Colour : Pale green

Culm
  Angle : Intermediate
  Height (cm) : 77.3
  Diameter (mm) : 5.5

Tillers
  No. per plant : 13
  No. of panicle bearing tillers : 13

Flowering
  Duration from sowing to 50% flowering (d) : 87
  Sensitivity to day length : Insensitive

Internode
  Colour : Green

Spikelet
  Stigma colour : White
  Apiculus colour : Straw
  Presence of awn : Absent
  Colour of awn : -
  Sterility : Fertile

Panicle
  Length (cm) : 27.5
  No. of grains / panicle : 208
  No. of filled grains / panicle : 145
  Panicle type : Intermediate
  Panicle exertion : Just
  Secondary branching within panicle : Heavy
  Axis : Straight

Grain
  Length (mm) : 8.5
  Width (mm) : 3
  Apiculus colour : Strow
  Colour of awn : -
  1000 grain weight (g) : 25.8

Grain (dehulled)
  Pericarp colour : Red
  Length (mm) : 7
  Width (mm) : 2
  Shape : Intermediate Bold

Duration
  For a transplanted crop (d) : 117

Senescence
  Leaf : Late & slow
Officers Responsible for Developing Variety

Nominating center : Rice Research and Development Institute, Batalagoda

Breeders : Mr. C.A. Sandnayake (RO)
           Mr. S.W. Abesekara (RO)
           Mr. L.S. Silva (RO)
           Mr. W.S.C. Wanigasooriya (RO)

Collaborating /Supporting staff : Staff of the Rice research station Batalagoda and Bentota
                                Staff of pathology entomology and grain quality division, NCRVT, VAT and Low country wet zone project in RRDI, Batalagoda
5. Big onion MIBO - 1

Released for Onion growing areas in the country
**Background**

<table>
<thead>
<tr>
<th><strong>Variety Name</strong></th>
<th>MIBO 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Line designation</strong></td>
<td>MIBO 09E2</td>
</tr>
<tr>
<td><strong>Type of cultivar</strong></td>
<td>Selection from naturally out cross population</td>
</tr>
<tr>
<td><strong>Origin</strong></td>
<td>FCRDI, Mahailluppallama</td>
</tr>
<tr>
<td><strong>Method of propagation</strong></td>
<td>by seeds</td>
</tr>
</tbody>
</table>

**Yield (normal season yala)**

| **Bulb yield** | 37 t/ha |

**Maturity (Days)**

| **To 50% top falling** | 74 DATP (when transplanting in early May) |
| **To harvest** | 80-85 DATP |

**Important traits**

**leaf and plant characters**

| **Colour** | Green |
| **Plant height** | 47-55 cm |
| **Waxiness** | Moderately waxy |

**Bulb characters**

| **Shape** | Thick flat |
| **Skin colour** | Pale rose (redness is less than Dambulla selection) |
| **Flesh colour** | Purplish white |
| **Uniformity of shape** | Uniform |
| **Structure of bulb** | Single |
| **Pungency** | high |
| **Diameter (average)** | 3.5-5 cm |

**Yield related characters**

| **Average bulb weight** | 60-80 g |
| **TSS** | 13-14 |

**Seed crop**

| **Days to 50% flowering (T/P)** | 65-70 |
| **Flower circumference (cm)** | 18 -20 |
| **Flower stalk height (cm)** | 72- 80 |

**Reaction to Diseases**

No resistant or tolerant to purple blotch and anthracnose

**Reaction to pests**

Low Severity to Thrips
DUS report will be available to another VRC meeting.

**Officers Responsible for Developing Variety**

Nominating Institute : Field Crops Research and Development Institute, Mahailluppallama

Breeder : Mrs. M.G.S.P. Pathirana

Collaborators : Mrs. K.N.C. Gunawardhana (RO)
Mrs. N.S. Fernando (RO)
Miss. W.M.K. Fernando (RO)
Mr. B.I. Hettiarachchi (RO)

Collaborating Supporting Staff : Mr. M.D.K.D.P. Jayasinghe (RA)
Mrs. Rasika Illangasinghe (RA)
Mrs. Anusha Kannangara (AI)

Collaborators for NCVT and VAT : Mr. D. Weerasekara (RO, GLORDC, Angunakolapelessa)
Mrs. S. Vijayarathnam (RO, Former ROIC, ARS, Thirunelvely)
Miss. H.M.C. Hitinayake, (RO, RARDC/ Aralaganwila)
Mrs. E.K.E.C. Nayana (RO, GLOCRDC, Angunakolapelessa)
Dr. T. Karunainathan (ROIC, ARS, Thirunelvely)
Mr. W.A.S. Wijitha Kumara (ADA - Dev.)
Mr. W.A.D.S. Abeysekara, (RA, RARDC/ Aralaganwila)
Mr. S. Chandana (RA, GLORDC, Angunakolapelessa)
Mr. Priyantha Harangahakotuwa (AI, Dambulla)
Mr. S.P.P. Gunawardhana (AI, Kimbissa)
Mr. Ajantha Abeysekara (AI, Kimbissa)
Mr. Suranga Dharmakeerthi, (AI, Galewela)
Mr. Mr. M.R.N. Ajith Kumara (AI, Galenbindunuwewa)
Mr. B.M.C. Bandaranayake (BM, Galnewa, Mahawely system H)
Mr. N.P. Sanjeewa (TA)
6. Chilli MIPC-1

Released for Estern province in the country
Background
Variety name : MIPC-01
Line designation : Kaludawali Selection (PC-01)
Pedigree : Not Known (Selection from locally grown landrace in Kaludawali village in Batticaloa District during 2008-2014)
Origin : Land race cultivated in Eastern Province of Sri Lanka
Type of cultivar : Pure line
Method of Improvement : Selections were done at FCRDI, Mahailuppallama and farmers’ fields at Kaludawali area in Batticaloa District. Participatory plant breeding method was followed to develop the variety
Method of Propagation : By seeds

Yield (t/ha)
Potential yield Recorded
As Green Chilli : >15
As Dry Chilli : >3
Average Yield : 15 (As Green) with supplementary irrigation

Days To Flowering (from sowing) : 80-85
Days to 1st pick : 115-120
No. of Picks : >10
Picking intervals (days) : 7-8

Important traits
Plant Height (cm) : 70-75
Growth Habit : Intermediate to erect
Branching habit : Moderate
Flower position : Pendent
Fruit shape : Conical/Triangular
Fruit length (cm) : 4.5 – 5.0
Fruit width (cm) : 1.6-2.0
Fruit surface : Smooth
Pungency : High
1000 seed weight (g) : 5.5

Reaction to Diseases
Fungal (Anthracnose) : MR
Leaf Curl Complex & Viruses : MR

Reaction to Insect Pest
White Flies : MR
Thrips : MR

Quality characteristics
Keeping Quality : High (green chilli)
Dry pod colour : Bright Red
Dry: Fresh ratio : 1: 5
DUS Report for Candidate Chilli Variety
Kaludawali Selection (PC-01)
(Released name - MIPC - 01)

Candidate Variety : Kaludawali Selection (PC-01)
Seasons tested : Maha 2012/2013 and Yala 2013
Test locations : Post-control fields, Mahailluppallama & Gannoruwa

The candidate variety PC-01 was tested for distinctness, uniformity and stability (DUS) by comparing with the recommended variety CA-8 as the reference variety.

Distinctness
Variety MIPC-01 is distinct from variety CA-8 in seedling, flowering duration, flower, fruit and maturity characteristics.
- Hypocotyl colour of the candidate variety is green compared to that of the variety CA-8 which has purple colour hypocotyl
- Flowering occurs about ten days later in the candidate variety PC-01 than in the reference variety CA-8
- The candidate variety PC-01 has white flowers where the reference variety CA-8 has white corolla with purple margin. Anthocyanin coloration is present in style and filament of flowers of the reference variety CA-8 while it is absent in the candidate variety PC-01
- Fruit bearing occurs about fifteen days later in the candidate variety PC-01 than the reference variety CA-8
- The candidate variety PC-1 bears green fruits whereas the reference variety CA-8 bears light green fruits. Ripened fruits of PC-1 are red in colour while it is orange red in reference variety CA-8. Fruit shape is also distinctly different which is shown in the figure 01

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

Pedigree : Not known
Origin : Land race cultivated at Kaludawali village in Eastern province - Sri Lanka

Plant
  Growth habit : Erect
  Branching habit : Intermediate
  Plant height at pod maturity (cm) : 66.5

Seedling
  Anthocyanin colouration of hypocotyls : Absent
<table>
<thead>
<tr>
<th>trait</th>
<th>value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leaf colour</td>
<td>Green</td>
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<tr>
<td>Stem Colour</td>
<td>Green</td>
</tr>
<tr>
<td>Stem (At 50% flowering)</td>
<td></td>
</tr>
<tr>
<td>Anthocyanin colouration at nodes</td>
<td>Present</td>
</tr>
<tr>
<td>Length from cotyledon to first flower (cm)</td>
<td>32.3</td>
</tr>
<tr>
<td>Pubescence</td>
<td>Sparse</td>
</tr>
<tr>
<td>Flower</td>
<td></td>
</tr>
<tr>
<td>Days to 50% flowering (from transplanting)</td>
<td>40</td>
</tr>
<tr>
<td>Flower position</td>
<td>Pendant</td>
</tr>
<tr>
<td>Corolla colour</td>
<td>White</td>
</tr>
<tr>
<td>Corolla spot colour</td>
<td>White</td>
</tr>
<tr>
<td>Anther colour</td>
<td>Yellow</td>
</tr>
<tr>
<td>Stigma exertion</td>
<td>Exerted</td>
</tr>
<tr>
<td>Male sterility</td>
<td>Absent</td>
</tr>
<tr>
<td>Calyx pigments</td>
<td>Absent</td>
</tr>
<tr>
<td>Leaf (at pod Maturity)</td>
<td></td>
</tr>
<tr>
<td>Length with petiole (cm)</td>
<td>15.2</td>
</tr>
<tr>
<td>Width (cm)</td>
<td>6</td>
</tr>
<tr>
<td>Colour</td>
<td>Green</td>
</tr>
<tr>
<td>Shape</td>
<td>Ovate</td>
</tr>
<tr>
<td>Pubescence</td>
<td>Sparse</td>
</tr>
<tr>
<td>Fruit</td>
<td></td>
</tr>
<tr>
<td>Days to fruiting</td>
<td>75</td>
</tr>
<tr>
<td>Fruit position</td>
<td>Pendant</td>
</tr>
<tr>
<td>Length (cm)</td>
<td>6</td>
</tr>
<tr>
<td>Width (cm)</td>
<td>1.6</td>
</tr>
<tr>
<td>Shape at blossom end</td>
<td>Pointed</td>
</tr>
<tr>
<td>Fruit shape</td>
<td>Triangular</td>
</tr>
<tr>
<td>Fruit shape at attachment</td>
<td>3</td>
</tr>
<tr>
<td>Anthocyanin spots / stripes on fruit</td>
<td>Absent</td>
</tr>
<tr>
<td>Neck at base of fruit</td>
<td>Absent</td>
</tr>
<tr>
<td>Calyx annular constriction</td>
<td>Present</td>
</tr>
<tr>
<td>Calyx margin</td>
<td>Dentate</td>
</tr>
<tr>
<td>Fruit appendage</td>
<td>Absent</td>
</tr>
<tr>
<td>Colour at green mature stage</td>
<td>Dark green</td>
</tr>
<tr>
<td>Colour at ripened stage</td>
<td>Red</td>
</tr>
<tr>
<td>Fruit weight (g)</td>
<td>4.5</td>
</tr>
<tr>
<td>Fruit surface</td>
<td>Smooth</td>
</tr>
<tr>
<td>Pungency</td>
<td>Low</td>
</tr>
<tr>
<td>Seed</td>
<td></td>
</tr>
<tr>
<td>Seeds per fruit</td>
<td>109</td>
</tr>
<tr>
<td>1000 seed weight (g)</td>
<td>5.5</td>
</tr>
</tbody>
</table>

**Officers Responsible for Developing Variety**

**Breeder** : Kamal N. Kannangara (RO, FCRDI/Mahailluppallama)

**Collaborators** : Miss. H.M. Shalika N Herath (RO, FCRDI/Mahailluppallama), Mr. I.M.N.S. Ilangakoon (RA, FCRDI/Mahailluppallama)

**Cooperators in NCVT and VAT** : Mrs. S. Wijeyaratnam (Former ROIC., ARS/Thirunelveli), Mr. S.M. Hussain (Prov. Director Agric./Eastern Province), Mr. A.S.M. Harees (Deputy Prov. Director Agric./Eastern Province), Mr. D.M.S.B. Disanayake (Deputy Prov. Director Agric./Ampara District), Mr. R. Hariharan (Deputy Prov. Director Agric./Batticaloa District), Mrs. Lalitha Disanayake (ADA./Kurunegala), Mr. Randunu (RA/ARS/Kalpitiya), Mrs. W.A.D.S. Abeysekara (RA/RARDC/Aralaganvila), Mrs. N. Pratheep (AI/Kalavanchikudi), Mr. N. Parthipan (AI/Palugamam), Mr. N. Ladsuman (AI/Kokkodisolai), Mr. V. Ilamaran (AI/Karaveddi), Mr. S. Sithran (AI/Komari)
7. Cowpea

ANKCP 01
(Anguna Cowpea)

Released for cowpea growing areas in the country
Background
Variety name : ANKCP 01 (Anguna Cowpea)
Line designation : ANCH14
Pedigree : MI 35 X Waruni
Type of cultivar : Inbred
Origin : Locally developed variety by hybridization and selection through pedigree method
Method of Propagation : By seeds

Yield (t/ha)
Potential Recorded : 2.4
Average Yield :
Yala season : 1.45
Maha season : 1.50

Maturity
Yala season : 60 - 64 days
Maha season : 64 - 66 days

Important traits
Growth habit : Erect
Growth pattern : Mostly determinate
Twining tendency : Slight
Plant pigmentation : None
Terminal leaflet shape : Ovate
Days to flowering : 38-40
Raceme position : Throughout the canopy
Flower color : Yellowish white (150 D)
Seed shape : Rhomboid
100 seed weight : 15-17g
Seed coat color : Pale brown (165 D)

Reaction To Diseases
Collar rot : Susceptible

Reaction To Insect Pest
Pod borer : Susceptible
Bruchids : Susceptible

Quality characteristics
Crude protein (%) : 21.05
Soaking time (Minutes) : 120
Boiling time (Minutes) : 17
DUS Report for Candidate Cowpea Variety ANCH 14  
(Released Name - ANKCP 01, Anguna Cowpea)

Candidate variety : ANCH 14  
Seasons tested : Maha 2013/14, Yala 2014  
Test locations : Post control fields, Mahailluppallama and Gannoruwa

The candidate Cowpea variety ANCH 14 was tested for distinctness, uniformity and stability (DUS) by comparing with the recommended varieties Wijaya and Waruni as the reference varieties.

Distinctness
- Variety ANCH 14 is distinct from varieties Wijaya and Waruni in flower, pod and seed characteristics.
- Candidate variety has yellowish white flowers while the reference varieties Wijaya and Waruni have purple colour flowers.
- Seeds of the candidate variety are different in shape and colour compared to the reference varieties Wijaya and Waruni which are shown in the photo 04. Seeds of ANCH 14 and Wijaya are creamy brown in colour while the seed colour is purple in variety Waruni. Seeds of ANCH 14 are somewhat round while the seeds of variety Wijaya are slightly flat in shape.
- Dry pod of the Candidate variety ANCH 14 shows purplish straw colour appearance while it is straw colour in the reference varieties Wijaya and Waruni.

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

Growth habit : Erect  
Growth pattern : Determinate  
Twining tendency : Slight  
Plant pigmentation : Present at the base and tips of petioles  
Intensity of pigmentation : Moderate

Leaf colour : Green  
Anthocyanin colouration of leaf : Present on petiole base  
Terminal leaflet blade length (cm/at 6 weeks after sowing) : 13.55  
Terminal leaflet blade width (cm/at 6 weeks after sowing) : 9

Days to flowering : 42  
Raceme position : In upper canopy  
Flower colour : *Yellowish white (150 D)  
Flower pigment pattern : Not pigmented  
Days to maturity : 66
Pod attachment to peduncle : 90%
Mature pod curvature : Slightly
Mature pod length (cm) : 17-19
Pods/peduncle : 2
Mature pod colour : Straw

Seed shape : Rhomboid
Testa texture : Smooth
Coat colour pattern : Uniformly coloured
Seed colour : **165 D
Eye pattern : Uniformly coloured
Eye colour : White
No. of seeds/pod : 8-16
Seed length (mm) : 7-9
Seed width (mm) : 6-7
Seed thickness (mm) : 5-6
1000 seed weight (g) : 185

*According to the standard colour chart, the relevant number is 150 D of the Yellow green group.
**165 D of the Greyed orange group.

Conducted by : K.K.S.D. Pradeepika, RO, SCS, Gannoruwa,
P.A.G. Chandrika Kumari, AI, Post control unit I, Gannoruwa.,
T.M. Abeysundara, AI, Post-control Unit IV, Mahailappallama.,
A.T. Mahawelage, DO, SCS, Gannoruwa and Ruwan Anurasiri,
RSA, SCS, Gannoruwa.

**Officers Responsible for Developing Variety**

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

Breeders of initial crossing and selection : Ms. M.C. Millawithanachchi (RO)
Mr. D. Weerasekara (RO)

Co-breeders : Mr. B.N. Samaranayake (RO)

Technical Staff : Ms. N.T. Prathapasinghe (RA)
Ms. D.H.N.W. Hettige (AI)
Ms. S.N.K. Saranasinghe (AMO)
Mr. A.L.W.L. Karunarathne (AI)
Ms. I.S. Narasinghe (AI)

Collaborators in NCVT and VAT : Dr. S.J. Arsakesary
(Add.Director-RARDC, Kilinochchi)
Dr. T. Karuneinathan
(ROIC-ARS, Thirunaveli)
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(RO-GLORDC, A’Pelessa)
Ms. M.S. Abeyrathne (RO-FCRDI, MI)
Mr. B.N. Samaranayake
(RO-GLORDC, A’Pelessa)

Ms. H.M.C. Hitinayake
(RO-RARDC, Aralaganwila)
Ms. M. Chitrapala (RO-FCRDI, MI)
Mr. L.K.S.T. Kumara (ADA- Inter/pro Ampara)
Mr. A.P. Aruna Kumara (Agronomist-Mahaweli Authority of S. L)
Mr. M.K. Vincent Perera (AI-Rajanganaya)
Mr. A.M.P.R. Atthanayake (AI-Namalthenna -Inter/pro Ampara)

Other collaborators : Ms. W.M.P.N. Dilusha (Entomologist)
Mr. M.T. Gunasena (Pathologist)
Mr. R.A.A. Ranathunga (Food Scientist)
Mr. L.A. Weerasena (Former additional director)
Dr. P. Weerasinghe (Former additional director)
Dr. A. P. Bentota (Former additional director)
8. Horse gram (Kollu)

ANK Black (Anguna Kalu Kollu)

Released for Kollu growing areas in the country
Background
Variety name: ANK Black (Anguna kalu kollu)
Line designation: ANK Black
Pedigree: Ac 0754 (PGRC Selection)
Type of cultivar: A Local selection
Origin: Locally developed variety by selection method
Method of Propagation: By seeds

Yield (t/ha)
Potential Recorded: 1.2
Average Yield:
  Yala season: 800
  Maha season: 900

Maturity (days)
Yala season: 85 - 95
Maha season: 85 - 95

Important traits
  Growth habit: Climbing herb
  Growth pattern: Mostly indeterminate
  Twining tendency: High
  Plant pigmentation: None
  Terminal leaflet shape: Ovate
  Days to flowering: 45 - 47
  Raceme position: Stem
  Flower color: Yellow or greenish yellow
  Seed shape: Rhomboid
  1000 seed weight (gr): 32-33
  Seed coat color: Black

Reaction to Diseases
  Horse gram yellow mosaic virus (Hg YMV): Susceptible, but Less than 5% at field level
  leaf spot (Cercospora dolichii): Resistant

Reaction to Insect Pest
Not Recorded

Quality characteristics
  Crude protein (%): 22.05
  Soaking time: Over Night
  Boiling time (min): 30
DUS Test Report for Candidate Horsegram Variety ANK Black
(Released Name - ANK Black, Anguna Kalu Kollu)

Candidate variety : ANK Black
Seasons tested : Yala 2013, Maha2013/14
Test locations : Post control fields, Mahailluppallama and Gannoruwa

Since there are no recommended varieties of Horsegram in Sri Lanka, the candidate variety ANK Black was tested for distinctness, uniformity and stability (DUS) by comparing with a market sample as the reference.

**Distinctness**
Variety ANK Black is distinct from market sample in flowering duration and seed characteristics.

- Seeds of the candidate variety ANK Black are black in colour while the seeds of the market sample are in a range of brown colour.
- Flowering occurs one week earlier in the candidate variety ANK Black than the reference market sample.
- Crop of the market sample is not much uniform.
- No distinct difference among other plant morphological characters.

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

<table>
<thead>
<tr>
<th>Pedigree</th>
<th>: Not known</th>
</tr>
</thead>
<tbody>
<tr>
<td>Origin</td>
<td>: Selection from PGRC accession 0754</td>
</tr>
</tbody>
</table>

**Plant**
- Growth habit : Prostrate
- Growth type : Indeterminate

**Seedling**
- Cotyledon colour : Green
- Anthocyanin colouration of hypocotyls : Absent

**3rd trifoliate leaf**
- Colour : Green
- Terminal leaflet length (cm) : 5.2
- Terminal leaflet width (cm) : 2.9
- Terminal leaflet shape : Ovate
- Lateral leaflet shape : Ovate
- Leaf blistering : Absent
- Intensity of leaf green colour : Intermediate

**Stem**
- Colour : Green
- Anthocyanin colouration at nodes : Absent
<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pubescence</td>
<td>Sparse</td>
</tr>
<tr>
<td>Flower</td>
<td></td>
</tr>
<tr>
<td>Days to 50% flowering</td>
<td>46</td>
</tr>
<tr>
<td>Corolla colour</td>
<td>Pale yellow</td>
</tr>
<tr>
<td>Pod</td>
<td></td>
</tr>
<tr>
<td>Days to maturity</td>
<td>90</td>
</tr>
<tr>
<td>Immature pod colour</td>
<td>Green</td>
</tr>
<tr>
<td>Pod length (cm)</td>
<td>7-8.7</td>
</tr>
<tr>
<td>Seed</td>
<td></td>
</tr>
<tr>
<td>No. of seeds/pod</td>
<td>5-7</td>
</tr>
<tr>
<td>Seed coat colour</td>
<td>Black</td>
</tr>
<tr>
<td>1000 seed weight (g)</td>
<td>35.92</td>
</tr>
</tbody>
</table>


**Officers Responsible for Developing Variety**

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

Breeders of initial crossing and selection: Ms. M.C. Millawithanachchi (RO)

Co-breeder: Mr. B.N. Samaranayake (RO)

Technical Staff: Ms. N.T. Prathapasinghe (RA)
Ms. D.H.N.W. Hettige (AI)
Ms. S.N.K. Saranasinghe (AMO)
Mr. A.L.W.L. Karunarathne (AI)

Collaborators in NCVT and VAT: Ms. D.P.P. Liyanage (RO-GLORDC, A’Pelessa)
Ms. M.S. Abeyrathne (RO-FCRDI, MI)
Mr. B.N. Samaranayake (RO-ORDC, A’Pelessa)
Ms. H.M.C. Hitinayake (RO-RARDC, Aralaganwila)
Mr. P.D. Abeythilakarathne (RO)
Mr. W.M. Jayasinghe (AI, PDA office, Badulla)
Mr. Prasanna Kumara (AI, Thanamalwila)
Mr. N.T. Chandrani (AI, Walasmulla)

Other collaborators: Ms. W.M.P.N. Dilusha (Entomologist)
Mr. M.T. Gunasena (Pathologist)
Mr. R.A.A. Ranathunga (Food Scientist)
Mr. L.A. Weerasena (Former additional director)
Dr. P. Weerasinghe (Former additional director)
Dr. A. P. Bentota (Former additional director)
9. Horse gram (Kollu)

ANK Brown (Anguna Duburu Kollu)

Released for Kollu growing areas in the country
Background
Variety name : ANK Brown (Anguna Dumburu kollu)
Line designation : ANK 3
Pedigree : Ac 1367 (PGRC Selection)
Type of cultivar : A Local selection
Origin : Locally developed
Variety by selection method
Method of Propagation : By seeds

Yield
Potential Recorded (t/ha) : 1 t/ha
Average Yield (t/ha) :
   Yala season : 700t/ha
   Maha season : 800t/ha

Maturity
Yala season : 95 - 100 days
Maha season : 95 - 100 days

Important traits
  Growth habit : Climbing herb
  Growth pattern : Mostly indeterminate
  Twining tendency : High
  Plant pigmentation : None
  Terminal leaflet shape : Ovate
  Days to flowering : 53 - 55
  Raceme position : Stem
  Flower color : Yellow or greenish yellow
  Seed shape : Rhomboid
  1000 seed weight : 31-32g
  Seed coat color : Pale Brown

Reaction to Diseases
  Horse gram yellow mosaic virus (HgYMV) : Susceptible, but Less than 10% at field level
  leaf spot (Cercospora dolichii) : Resistant

Reaction to Insect Pest
  Not Recorded

Quality characteristics
  Crude protein (%) : 22.00
  Soaking time : Over Night
  Boiling time : 30 min
DUS Test Report for Candidate Horse gram Variety ANK 03
(Released Name - ANK Brown, Anguna Dumburu Kollu)

Candidate variety : ANK 03
Seasons tested : Yala 2013, Maha2013/14
Test locations : Post control fields, Mahailluppallama and Gannoruwa

Since there are no recommended varieties of Horse gram in Sri Lanka, the candidate variety ANK 03 was tested for distinctness, uniformity and stability (DUS) by comparing with a market sample as the reference.

Distinctness
Variety ANK 03 is distinct from market sample only in flowering duration.
- Flowering occurs one week later in the candidate variety ANK 03 than the reference market sample
- Seed coat colour of the candidate variety ANK 3 and reference market sample is in a range of brown colour. According to the breeder, presence of brown colour range in seeds is due to the maturity of the seeds
- Crop of the market sample is not much uniform
- No distinct difference among plant morphological characters

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

Pedigree : Not known
Origin : Selection from PGRC accession 1367
Plant
   Growth habit : Prostrate
   Growth type : Indeterminate
Seedling
   Cotyledon colour : Green
   Anthocyanin colouration : Absent
   of hypocotyls
3rd trifoliate leaf
   Colour : Green
   Terminal leaflet length (cm) : 5.7
   Terminal leaflet width (cm) : 2.7
   Terminal leaflet shape : Ovate
   Lateral leaflet shape : Ovate
   Leaf blistering : Absent
   Intensity of leaf green colour : Intermediate
Stem
   Colour : Green
   Anthocyanin colouration at nodes : Absent
   Pubescence : Sparse
Flower
  Days to 50% flowering : 59
  Corolla colour : Pale yellow

Pod
  Days to maturity : 95
  Immature pod colour : Green
  Pod length (cm) : 6-8.5

Seed
  No. of seeds/pod : 5-7
  *Seed coat colour : 165 C, 166 C, 175 A, 200 B
  1000 seed weight (g) : 38.1

*Seed coat colour is in a range of brown colour. Relevant numbers of the Standard colour chart are Greyed orange group 165 C, Greyed orange group 166 C, Greyed orange group 175 A and Brown group 200 B.

Conducted by : K.K.S.D. Pradeepika, RO, SCS, Gannoruwa,
P.A.G. Chandrika Kumari, AI, Post-control Unit I,
Gannoruwa, T.M. Abeysundara, AI, Post-control Unit IV,
Mahailluppallama and Ruwan Anurasiri, RSA, SCS,
Gannoruwa.

**Officers Responsible for Developing Variety**

Nominating Institute/Centre : Grain Legume and Oil Crops Research and Development Center, Angunakolapelessa

Breeders of initial selection : Ms. M.C. Millawithanachchi (RO)
Co-breeder : Mr. B.N. Samaranayake (RO)
Technical Staff
  Ms. N.T. Prathapasinghe (RA)
  Ms. D.H.N.W. Hettige (AI)
  Ms. S.N.K. Saranasinghe (AMO)
  Mr. A.L.W.L. Karunarathne (AI)

Collaborators in NCVT and VAT:
  Ms. D.P.P. Liyanage (RO, GLORDC, A’Pelessa)
  Ms. M.S. Abeyrathne (RO, FCRDI, MI)
  Mr. B.N. Samaranyake (RO, LORDC, A’Pelessa)
  Ms. H.M.C. Hitinayake (RO, RARDC, Aralaganwila)
  Mr. P.D. Abeythilakaratne (RO)
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Other collaborators
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  Mr. M.T. Gunasena (Pathologist)
  Mr. R.A.A. Ranathunga (Food Scientist)
  Mr. L.A. Weerasena (Former additional director)
  Dr. P. Weerasinghe (Former additional director)
  Dr. A. P. Bentota (Former additional director)
10. Papaya

Horana Papaya Hybrid 01

Released for Papaya growing areas in the country
**Background**

<table>
<thead>
<tr>
<th>Line Designation</th>
<th>Rathna x Cp-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedigree</td>
<td>A cross between Rathna and Cp -13</td>
</tr>
</tbody>
</table>

**Parents**

<table>
<thead>
<tr>
<th>Rathna</th>
<th>Inbred derived from Rathna</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cp-13</td>
<td>Inbred developed by a local germplasm at FRDI, Horana</td>
</tr>
</tbody>
</table>

**Method of propagation**

| Seeds |

**Yield**

| Average number of fruits (1st year/tree) | 50 |
| Average number of fruits (2nd year/tree) | 40 |
| Average Yield (first year) (kg/tree)    | 75 |
| Average Yield (second year) (kg/tree)   | 45 |
| Season                         | Year round |

**Important traits**

**Female fruit**

| Fruit shape      | Oblong |
| Fruit weight     | 1.2-2.6 kg |
| Fruit length     | 16.5 -26.0 cm |
| Fruit width      | 12-17 cm |

**Hermaphrodite fruit**

| Fruit shape      | Club shape |
| Fruit weight     | 1.2-2.5 kg |
| Fruit length     | 27.0 - 31.5 cm |
| Fruit width      | 9.5 -14 cm |

**Skin colour**

| Immature fruits | Green |
| Ripe fruits     | Yellow Orange |
| Flesh thickness | 2.5-3.0 cm |
| Flesh colour    | Orange Red (OR 34 B) |
| Brix            | 12.5 |
| Taste           | Good |
| Texture         | Moderately hard and juicy |
| Peeling         | Easy |

**Reaction to Diseases**

| Papaya ring spot Virus | MR |
| Anthracnose           | MR |
| Powdery mildew        | MR |

**Reaction to Insect pests**

| Mealy bug | S |
| Red spider mite | MR |
| Broad spider mite | MR |
| Fruit fly | MR |
Dus reports of the parents will be available to another VRC meeting.

**Officers Responsible for Developing Variety**

**Nominating Institute**

: Fruit Research and Development Institute, Kananwila, Horana

**Breeders**

: I. Kalubowila (RO), M.M.S. Jayawardane (PA), K.D.A. Perera (Former Additional Director, FRDI), H.D. Jayawickrama (RO) and G.N. Shiromali (PA)

**Collaborating Scientists**

: Mrs. A.S. Pushpakumari, Head (Entomology), FRDI, Horana
  Mrs. Manori Kuruppu, Head (Pathology), FRDI, Horana
  Mrs. M. Bulathkandage, Head (Food & Nutrition), FRDI, Horana
  Mr. K.G.D.S. Bandara (RO), RARDC, Aralaganwila
  Mr. K.N. Kannangara (RO), PVIC, Homagama
  Mr. W.A.Wijithawarna (RO), GLORDC, Angunakolapelassa
  Miss. S.A.S.M. Kumari (RO), RARDC, Makandura

**Cooperators**

: Mr. H.M. Wimalasekara, Deputy Resident Project Manager (Agriculture), Walawa special area, Mahaweli Authority of Sri Lanka
  Mrs. G.G.V. Shayamali (Principal), School of Agriculture, Labuduwa
  Mrs. M.N.D. Silanthi (AO), School of Agriculture, Labuduwa
11. Lavulu

Horana Lavulu

Released for cultivation in the country
**Background**

- **Line designation:** Holav 1, Holav 4 and Holav 5
- **Pedigree:** Local Cultivar collected from farmer field and grafted in to Lavulu rootstock
- **Type of Cultivar:** Clone
- **Origin:**
  - Horana Lavulu 1 - Wadduwa, Kalutara
  - Horana Lavulu 2 - Mahena, Horana
  - Horana Lavulu 3 - Maputugala, Horana
- **Method of Propagation:** Wedge grafting

**Yield No of fruits/tree/year**

- **Variety**
  - Horana Lavulu 1: 40-50
  - Horana Lavulu 2: 120-250
  - Horana Lavulu 3: 150-250
- **Fruiting Season:** Year round

**Maturity**

- **1st bearing:** 18-24 months
- **No of months for maturity:** 5-6 months after flowering

**Important traits**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Mean fruit weight (g)</th>
<th>Mean Girth (cm)</th>
<th>Mean Length (cm)</th>
<th>Mean Diameter (cm)</th>
<th>Flesh weight %</th>
<th>Brix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horana Lavulu 1</td>
<td>450.0</td>
<td>26.6</td>
<td>13.6</td>
<td>8.0</td>
<td>93.02</td>
<td>30</td>
</tr>
<tr>
<td>Horana Lavulu 2</td>
<td>265.0</td>
<td>24.9</td>
<td>7.52</td>
<td>7.3</td>
<td>92.40</td>
<td>31</td>
</tr>
<tr>
<td>Horana Lavulu 3</td>
<td>190.0</td>
<td>23.9</td>
<td>6.5</td>
<td>7.2</td>
<td>90.52</td>
<td>27</td>
</tr>
</tbody>
</table>

- **Leaf margin and color:**
  - Horana Lavulu 1: Undulate, green, purple pigments
  - Horana Lavulu 2: Undulate, green
  - Horana Lavulu 3: Slightly undulate, shiny dark green

- **Shape of fruits:**
  - Horana Lavulu 1: Obvoid elongated with bluntly pointed apex
  - Horana Lavulu 2: Round, oblate
  - Horana Lavulu 3: Roundish with pointed or roundish-conic with pointed apex

**Pest and Diseases**

- Severe pest and diseases were not recorded
Officer Responsible for Developing Variety

Name of the Scientist: Mrs. A.J. Warusavitharana (RO), FRDI, Horana

Collaborating Supporting Staff: Ms. M.A.R.L. Perera (AI, FRDI, Horana)
Ms. H.L.T. Anuradha (RA, FRDI, Horana)
Ms. J. Bamunuarachchi (PA, FRDI, Horana)
Ms. S.M. Gayani Damayanthi Devid (AI, FRDI, Horana)
Mr. D.S.K.P. Dewage (AI, PVIC, Homagama)

Cooperators: Ms. P.P. Perera (AI, FRDI, Horana)
Mr. S.D.D.N. Sandanayake (AI, FRDI, Horana)
Dr. K.H. Sarananda (RO, Head, FRU, Gannoruwa)
Ms. S. Pushapakumari (RO, Head, Division of Entomology, FRDI, Horana)
Ms. M. Kuruppu, (RO, Head, Division of Pathology, FRDI, Horana)
12. Horana Chempedak
**Background**

Variety name : Horana Chempedak 
*(Artocarpus Integer)*

Line designation : HoJ 19

Pedigree : Budded cultivar collected by FRDI and grafted to jack rootstock

Type of cultivar : Clone

Origin : From a budded plant brought from Bangkok, collected, established and evaluated in field gene bank of FRDI, Horana

**Method of propagation**

: Wedge grafting

**Yield (Number of fruits/tree)**

: 1 year - 66

: 2nd year - 73

: 3rd year - 79

**Flowering**

Flowering months : November - March

Fruiting seasons : January - June

**Important traits**

**Fruit**

<table>
<thead>
<tr>
<th>Trait</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (Kg)</td>
<td>5</td>
</tr>
<tr>
<td>Length (cm)</td>
<td>19</td>
</tr>
<tr>
<td>Circumference (cm)</td>
<td>55</td>
</tr>
<tr>
<td>Size</td>
<td>Medium</td>
</tr>
<tr>
<td>Shape</td>
<td>Oblong</td>
</tr>
<tr>
<td>Skin colour</td>
<td>Light green</td>
</tr>
<tr>
<td>Aril weight/fruit weight (g)</td>
<td>0.21</td>
</tr>
<tr>
<td>Easiness of splitting</td>
<td>Easy</td>
</tr>
</tbody>
</table>

**Flake**

1. Matured

<table>
<thead>
<tr>
<th>Trait</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number per fruit</td>
<td>68</td>
</tr>
<tr>
<td>Flesh colour</td>
<td>White</td>
</tr>
<tr>
<td>Thickness (cm)</td>
<td>0.3</td>
</tr>
<tr>
<td>Length (cm)</td>
<td>4.3</td>
</tr>
<tr>
<td>Width (cm)</td>
<td>8.8</td>
</tr>
</tbody>
</table>

2. Ripen

<table>
<thead>
<tr>
<th>Trait</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flesh aroma</td>
<td>Strong (Hint of Durian)</td>
</tr>
<tr>
<td>Flesh colour</td>
<td>Light yellow</td>
</tr>
<tr>
<td>Flesh taste</td>
<td>Sweet</td>
</tr>
<tr>
<td>Brix° value</td>
<td>31</td>
</tr>
<tr>
<td>Texture</td>
<td>Soft</td>
</tr>
<tr>
<td>Presence of fiber</td>
<td>Present</td>
</tr>
</tbody>
</table>

**Seed**

<table>
<thead>
<tr>
<th>Trait</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shape</td>
<td>Reniform</td>
</tr>
<tr>
<td>Length</td>
<td>3.6</td>
</tr>
<tr>
<td>Width</td>
<td>2.5</td>
</tr>
<tr>
<td>Flake/Seed</td>
<td>3.2</td>
</tr>
<tr>
<td>Consistency after boil</td>
<td>Floury</td>
</tr>
</tbody>
</table>
Flower
Time taken from flowering to ripening (days) : 90
Shelf life (Days after fruit ripe) : 2-3

Insect pest
Shoot and fruit borer : Common but not severe

Tree characters (at the age of 7 year)
Tree height (m) : 840
Canopy spread (m) : 600
Canopy shape : Pyramidal
Branch density : Medium
Tree growth habit : Semi-erect
Branch pattern : Irregular

Leaf characters
Vegetative life cycle : Ever green
Length (cm) : 16.13
Width (cm) : 10.6
Shape : Obovate
Margin : Entire
Colour : Dark green

Officers Responsible for Developing Variety

Scientists : M. Bulathkandage, RO, FRDI Horana
K.K. Perera - Addi. Director, FRDI Horana
Dr. L. Ratnasinghe, Retired RO
Dr. K.H.S. Peiris, Retired RO

Collaborating staff : Dr. P. W. Alahakoon
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Ms. Manori Kuruppu (Pathologist)
Ms. R. Henadeera (PA)
Ms. C.D. Wickramasinghe (RA)
Ms. Yamuna Rathnayake (AI)
Ms. Pubudu Perera (AI)

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

Dr. K. Hettiarachchi (Breeder) Dep. Director, PGRC
Dr. R.G.S. Rajapaksha (Pathologist) HORDI, Gannoruwa
Dr. R.M. Herath (Economist) SEPC, Peradeniya
Dr. Amitha Bentota (Breeder) Director, RRDI, Batalagoda
Dr. Rohini Nanayakkara, Dep. Director, SCS, Gannoruwa
Ms. D. Galaniha (Entomologist), HORDI, Gannoruwa
Mrs. D.S. Rathnasinghe, ADA, Extension & Training Division, Peradeniya
Mr. M.A.P.W.K. Malaviarachchi (Agronomist), FCRDI, Mahailluppallama
## 14. List of participants - Varietal Release Committee Meeting (2014)

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Rohan Wijekoon</td>
<td>DGA</td>
<td>DOA, Peradeniya</td>
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<td>Dr. Amitha Bentota</td>
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<td>RRDI, Batalagoda</td>
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<tr>
<td>Dr. R.S.K. Keerthisena</td>
<td>Add. Director</td>
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<td>Mr. D.N. Sirisena</td>
<td>DDR</td>
<td>RRDI, Batalagoda</td>
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<td>Ms. W.M.U.K. Rathnayake</td>
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<td>RRDI, Batalagoda</td>
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<td>Mr. W.S. Priyantha</td>
<td>ADA (Research)</td>
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<td>PA</td>
<td>RRDI, Batalagoda</td>
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<td>RRDC, Bentota</td>
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<td>Mr. W.A.K. Karunathilaka</td>
<td>Ad. Director</td>
<td>GLORDC, A’pelessa</td>
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<td>Mr. H.M. Saranath Gunerathne</td>
<td>ROIC</td>
<td>GLORDC, A’pelessa</td>
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<tr>
<td>Mr. H.M.C. Hitinayake</td>
<td>ADA (Research)</td>
<td>RARDC, Aralaganwila</td>
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</table>
Mr. J.R. Sudasinghe ADA (Development) ETC, Peradeniya
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Mrs. I. Kalubowila ADA (Research) FRDI, Horana
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Mr. K.G.S. Senevirathne ADA (Research) FCRDS, Gannoruwa
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Mr. I.C.S. Edirimanna ADA (Research) RARDC, Gannoruwa
Mrs. N.B.U. Dissanayake ADA (Research) RARDC, Gannoruwa
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