



## BEAN VARIETY CATALOGUE



CROP BREEDING INSTITUTE, PO BOX CY550,

DEPARTMENT OF RESEARCH & SPECIALIST SERVICES



**Recommended citation format:**

..... (2013) **Bean Variety Catalogue** A Crop Breeding Institute publication.  
Department of Research & Specialist Services, Harare . Ministry of Agriculture Mechanisation & Irrigation Development. Harare, Zimbabwe.

**Edited by:** Prince Matova

Box CY 594

Causeway

Harare

Zimbabwe

Tel +263-4-704531/41

**Produced by:**

Crop Breeding Institute

P.O. Box CY 550

Causeway

Harare

ZIMBABWE

Tel +263-4-704531-9

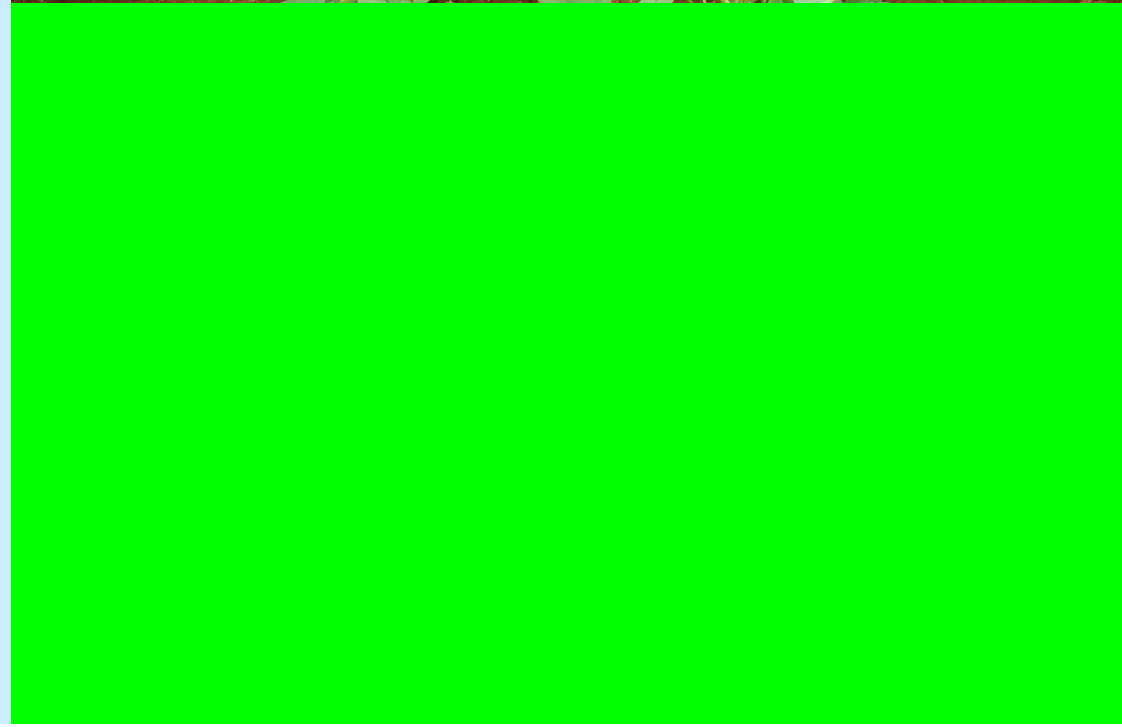
Fax +263-4-731133

Email:

**Compiled by:**

Mr B. Mutari, **Bean Breeder**, Crop Breeding Institute, Ms B.O. Mavankeni, **Chief Research Officer (Legumes)**, Crop Breeding Institute

**Photo credits:** Bruce Mutari



## REFERENCES

Crop Breeding Institute (2010): Release Proposal for NUA 45

Crop Breeding Institute (2010): Release Proposal for Gloria

Crop Breeding Institute (2013): Release Proposal for Cherry

Crop Breeding Institute (2013): Release Proposal for Sweet Violet

## Foreword

Information on quality bean seed varieties is often unavailable to farmer extension agencies, development agencies and farmer organizations in Zimbabwe. It is the wish and hope of the authors of this catalogue that information on the available government bred bean varieties is easily accessed by the intended stakeholders. It is also hoped that availing this information will result in increased production of beans in Zimbabwe. Anticipated accrued benefits include accessibility to improved and cheaper bean varieties that are disease and pest tolerant, high in nutritional content as well as being affordable. Production information contained herein will also guide the farmers when selecting varieties suitable for their respective production environments. Availability of good quality bean crop varieties on the market is expected to contribute significantly to food and nutrition security. This catalogue will be useful, not only to farmers as well as marketing agencies in Zimbabwe.

D. Kutywawo

**Director**

**Crops Research Division, Department of Research & Specialist Services, Zimbabwe**

## Acknowledgements

The authors of this booklet would like to thank the DR&SS directorate who include Ms N. Nobanda & Mr D. Kutwayo for the support and guidance rendered. We wish to thank CIAT/PABRA through SABRN for the support in coming up with this variety catalogue. The government of Zimbabwe is here acknowledged for the conducive environment for us to work on this catalogue.

## BEAN CROP VARIETY: CHERRY

Year of Release: 2013  
Maintainer: Crop Breeding Institute  
Market Class: Calima



### Morphological Characteristics

Growth habit:	Determinate Bush type
Flower colour:	Purple
Leaf colour:	light green
Seed coat colour:	Red primary colour with some cream mottles
Hilum colour:	White
Seed shape:	oval

### Agronomic characteristics

Seed Size:	45g/100g
Maturity class	Early
Days to maturity	88 days
Disease resistance	Resistant to common bean rust, Angular Leaf Spot, Bacterial Blight Bean Common Mosaic Virus &
Yield:	Highveld (2500kg/ha) Middleveld (1400kg/ha) Lowveld winter (3200kg/ha)

**Recommended areas:** Highveld and Lowveld

### Nutritional profile

Iron:	100mg/kg
Zinc:	54mg/kg



## BEAN CROP VARIETY: SWEET VIOLET

Year of Release: 2013  
Maintainer: Crop Breeding Institute  
Market Class: Sugar



### Morphological Characteristics

Growth habit: Indeterminate Bush type  
Flower colour: Purple  
Leaf colour: Medium green  
Seed coat colour: Cream primary colour with red/maroon speckles  
Hilum colour: White  
Seed shape: Plumb, Pointed (straight)

### Agronomic characteristics

Seed Size: 55g/100g  
Maturity class: Very early  
Days to maturity: 85 days  
Disease resistance: Resistant to Bean Common Mosaic Virus, Angular Leaf Spot, & Bean Rust, Common Bacterial Blight  
Yield: Highveld (2500kg/ha) Middleveld (1500kg/ha)  
Lowveld winter (3300kg/ha)

**Recommended areas:** Highveld and Lowveld

### Nutritional profile

Iron: 145mg/kg  
Zinc: 40mg/kg

## Contents

Acknowledgement	Page 2
Introduction	4
Bean Production Areas in Zimbabwe	5
Characteristics of NUA 45	6
Characteristics of Gloria	7
Characteristics of Sweet Violet	8
Characteristics of Cherry	9
References	10

## Introduction

This catalogue provides information on the morphological and agronomic traits of government bred bean varieties of different market classes available on the market. The catalogue will probably make it easier for farmers in choosing bean variety to grow depending on their target markets. Crop Breeding Institute recently ventured into the breeding of biofortified bean varieties and released three micro-nutrient dense bean varieties. Most stakeholders are not aware of the nutritional profiles of these biofortified bean varieties and this important information has been made available in this catalogue. Information on seed companies marketing the government bred bean varieties has also been highlighted so that stakeholders know where to get the seed.

### BEAN CROP VARIETY: GLORIA

Year of Release:	2010
Maintainer:	Crop Breeding Institute
Market Class:	Sugar
Marketing Companies:	ARDA Seeds, NTS, Sandbrite, Agri-seeds, SIRDC



#### Morphological Characteristics

Growth habit:	Semi Determinate
Flower colour:	Purplish white
Leaf colour:	Light green
Seed coat colour:	Cream primary colour with maroon/speckles
Hilum colour:	Cream-white
Seed shape:	Plumb and pointed (straight)

#### Agronomic characteristics

Seed Size:	44g/100g
Maturity class	Early
Days to maturity	93 days
Disease resistance	Resistant to Common bean rust & Bacterial Blight
Yield:	Highveld (2400kg/ha) Middleveld (1600kg/ha) Lowveld winter (3000kg/ha)

Recommended areas:	Highveld and Lowveld
--------------------	----------------------

## BEAN CROP VARIETY: NUA 45

Year of Release: 2010  
 Maintainer: Crop Breeding Institute  
 Market Class: Calima  
 Marketing Companies: ARDA Seeds, NTS, Sandbrite, SIRDC



### Morphological Characteristics

Growth habit: Determinate Bush type  
 Flower colour: White  
 Leaf colour: Medium green  
 Seed coat colour: Red primary colour with white mottles  
 Hilum colour: White  
 Seed shape: Kidney

### Agronomic characteristics

Seed Size: 55g/100g  
 Maturity class: Very early  
 Days to maturity: 90 days  
 Disease resistance: Resistant to common bean rust, Angular Leaf Spot, & Bacterial Blight  
 Yield: Highveld (2400kg/ha) Middleveld (1900kg/ha) Lowveld winter (2900kg/ha)

**Recommended areas:** Highveld and Lowveld

### Nutritional profile

Iron: 95mg/kg  
 Zinc: 38mg/kg

## Bean Production Areas in Zimbabwe

