

VARIETY CATALOGUE OF COMMON BEANS (*Phaseolus Vulgaris*) IN TANZANIA



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TABLE OF CONTENTS

FOREWORD	IV
ACKNOWLEDGEMENT	V
INTRODUCTION	1
COMMON BEANS (<i>PHASEOLUS VULGARIS</i>) RESEARCH IN TANZANIA	2
COMMON BEAN (<i>PHASEOLUS VULGARIS</i>) VARIETIES RELEASED IN TANZANIA	2
LYAMUNGO 85.....	3
LYAMUNGO 90.....	4
SELIAN 94	5
JESCA.....	6
SELIAN 97	7
SELIAN 05	8
SELIAN 06	9
CHEUPE	10
SELIAN 09	11
SELIAN 10	12
SELIAN 11	13
SELIAN 12	14
SELIAN 13	15
SELIAN 14	16
SELIAN 15	17
TARIBEAN 1	18
TARIBEAN 2	19
TARIBEAN 3	20
TARIBEAN 4	21
TARIBEAN 5	22
TARIBEAN 6	23
URAFIKI	24
UYOLE 90	25
KABANIMA	26
UYOLE 84	27
UYOLE 94	28
UYOLE 96	29
UYOLE 98	30
WANJA	31
UYOLE 03	32
UYOLE 04	33
BILFA UYOLE.....	34
NJANO UYOLE.....	35
CALIMA UYOLE.....	36
NYEUPE UYOLE.....	37
UYOLE 16	38
UYOLE 17	39
UYOLE 18	40
REFERENCES	41

FOREWORD

Common beans (*Phaseolus vulgaris* L.) play an important role in the livelihoods of smallholder farmers in Tanzania, as a food security crop and source of income. It is the leading leguminous crop, accounting for 78% of land under legumes. The Per Capita bean consumption is 19.3kg, contributing 16.9% protein and 7.3% calorie in human nutrition and 71% of leguminous protein in diets; while 75% of the total area under legume cultivation is common beans (Messina, 2016; FAO, 2013). It is estimated that over 75% of rural households in Tanzania depend on beans for their daily subsistence (Kalyebara and Buruchara, 2008). The crop residues are used as livestock feed and source of organic matter to enhance soil fertility. In addition to local consumption, Tanzania exports beans to more than 10 countries mainly to neighboring countries. Moreover, Tanzania is number one producer of Common beans in Africa and 5th globally with annual production of 1,341,000MT under the area of 899,980ha (FAOSTAT, 2021). Furthermore, the collaboration between TARI and other partners, resulted in increasing the productivity of common beans by about 42% in 2010 when the average productivity was 0.77t/ha to 1.40t/ha in 2021 (FAOSTAT, 2021; CIAT, 2020).

Nevertheless, farmers still grow local cultivars of bean varieties which have low productivity. In increasing access, availability and affordability of improved bean varieties, the bean research program under the Tanzania Agricultural Research Institute (TARI) has released high productive, multiple tolerant and nutrient dense common bean varieties. This catalogue gives a description of 41 released bean varieties among them six (6) are climbing types and 35 bush types. For each variety, the catalogue provides identification, morphological and agronomic characteristics, and recommended agro-ecological production areas.

This catalogue will be regularly updated to include newly released bean varieties. The catalogue is particularly useful for bean seed entrepreneurs, traders, processors, producers and farmers to facilitate their variety choices while producing common beans and adding its values.

May I profoundly recognize the efforts of research scientists from the centres namely TARI Maruku, TARI Selian and TARI Uyole and all the partners for successfully contributing to research which have resulted into the release of bean varieties described in this document.

Dr. Geoffrey Mkamilo
DIRECTOR GENERAL, TARI



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INTRODUCTION

Beans are seasonal crops that mature in 69–110 days depending on variety type (Katungi *et al.* 2009). However, climbing beans take longer to mature due to their growth habit and specific characteristics under which they grow. Farmers prefer bush beans to the climbing types because of their lower production costs. The red and red-mottled beans are the most grown beans in the country because consumers prefer them and their physical appearance and taste. In Africa, common beans grow well in fertile volcanic soils with pH range of between 5.5 to 6.8, mean temperature ranges of 16-24°C and annual rainfall of between 500-2000 mm. These environments are high potential for common bean production; hence this crop competes with other crops for land and labor (Nderitu *et al.*, 1997). In Tanzania common beans are widely cultivated in the country but the main production areas are in the northern zone, the lake zone region in the west and in the Southern Highlands where rainfall is reliable and temperatures are moderate (Katungi *et al.* 2009). In other parts of Tanzania such as Kilimanjaro and Arusha regions, there is commercial bean production for export due to suitable climate and access to international airports that allows for importation and exportation of agricultural products worldwide (Lewis *et al.* 2008). Beans are mostly intercropped with maize or with permanent crops such as banana or coffee (National Bureau of Statistics [NBS], 2012). It is often cultivated by smallholder farmers for home consumption, with moderate use of fertilizers (Ndakidemi *et al.* 2006).

In Tanzania, common beans is the leading leguminous crop, accounting for 78% of land under legumes. The Per Capita bean consumption is 19.3kg, contributing 16.9% protein and 7.3% calorie in human nutrition and 71% of leguminous protein in diets (Katungi *et al.* 2009 and Pachico, 1993); whereas 75% of the total area under legume cultivation is common beans (Messina, 2016; FAO, 2013). It is estimated that over 75% of rural households in Tanzania depend on beans for their daily subsistence (Kalyebara and Buruchara, 2008).

Moreover, the crop residues are used as livestock feed and source of organic matter to enhance soil fertility. In addition to local consumption, Tanzania exports beans to more than 10 countries mainly to neighboring countries. Tanzania is the top bean producer in Africa and seventh globally. More than a quarter of its beans are exported regionally to 10 neighboring countries and beyond (CIAT, 2020)

Common beans strongly reinforce food and nutrition security among poor consumers, while also reducing the risk of cardio-vascular disease and diabetes. Annual consumption of beans is as high as 66 kg per person, and in many areas common beans are the second most important source of calories after maize (Grisley, 1991).

COMMON BEANS (*Phaseolus Vulgaris*) RESEARCH IN TANZANIA

Common bean (*Phaseolus vulgaris* L.) plays a paramount role in the livelihoods of smallholder farmers in Tanzania; as a food security crop and source of income. Both the cultivated area and bean production level has increased over the years since 1995. The upward trend can be attributable to research efforts by National Agricultural Research System (NARS) in collaboration with CIAT/PABRA which have resulted in identification and development of several improved bean varieties tolerant to environmental stresses. This has increased bean productivity from 0.5 MT/Ha in 1974 to 1.4 t/ha in 2021 (FAOSTAT, 2022).

However, bean production in the country is limited by several biotic and non-biotic constraints. Major constraints include, genetically low yielding varieties, diseases, insect pests and poor soil fertility, especially low soil nitrogen and phosphorus. In view of both the diversity of the constraints and the fact that common bean is largely a “resource - poor farmer’s crop”; development and dissemination of improved bean genotypes is the most viable option for promoting bean productivity in Tanzania.

Frequent droughts in most East and Central African countries have led to food shortages, malnutrition, social instability and reliance on food aid (IGAD, 2007). This scenario has underscored the need for improved crop varieties and associated technologies which assure farmers of a reasonable harvest in rapidly changing production environments.

Due to high demand for beans, partly as a result of rapid population growth, its demand has outstripped supply, with some countries in the region becoming net bean importers. The overall objective for the bean research Programme is to contribute to the attainment of sustainable food self-sufficient at household and national level, increase income generation, employment growth and enhanced earnings through the development and dissemination of appropriate and environmentally friendly technologies.

COMMON BEANS (*Phaseolus Vulgaris*) VARIETIES RELEASED IN TANZANIA

The bean research program under the Tanzania Agricultural Research Institute (TARI) has released high productive, multiple tolerant and nutrient dense common bean varieties. This catalogue gives a description of 41 released bean varieties among them six (6) are climbing types and 35 bush types. For each variety, the catalogue provides identification, morphological and agronomic characteristics, and recommended production areas.

Lyamungo 85

Variety Name	Lyamungo 85
Variety Identifications	
Original Code	NA
Local Name	Rozikoko, Nyayo
Year of Release	1985
Responsible Research Institute	TARI Selian Centre
Growing Area of Recommendation	
Regions	All Common bean growing Areas in Tanzania
Altitude	1000 – 1800 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Absent
Leaf colour	Green
Growth habit	Bush type
Twining tendency	Absent
Plant height (cm):	45-50
Flower colour	White
Pod colour at maturity	Khaki
Seed shape	Rectangular
Testa texture	Smooth
Seed colour	Red mottled
Seed size	Large
Agonomic characteristics	
Days to maturity	85-90
Days to flowering	38-40
Quantity of Seed per hectare (kg)	100
Number of days to 50% flowering	38-40
Number of days to physiological maturity	70-75
A hundred seed weight (g)	40-42
Grain Yield on station (t/ha)	2.0 - 3.4
Grain Yield on farm (t/ha)	0.7 – 1.5
Reaction to Pest and diseases	
Halo blight	Tolerant
Bean common mosaic virus	Tolerant




Lyamungo 90


Variety Name	Lyamungo 90
Variety Identifications	
Original Code	NA
Local Name	Rozikoko, Famu, Nyayo
Year of Release	1990
Responsible Research Institute	TARI Selian Centre
Growing Area of Recommendation	
Regions	All Common bean growing areas in Tanzania
Altitude	1000 – 1800 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Absent
Leaf colour	Green
Growth habit	Bush
Twining tendency	Absent
Plant height (cm):	45-50
Flower colour	White
Pod colour at maturity	Khaki
Seed shape	Rectangle
Testa texture	Smooth
Seed colour	Red mottled
Seed size	Large
Agronomic characteristics	
Days to maturity	87-90
Days to flowering	38-40
Quantity of Seed per hectare (kg)	100
Number of days to 50% flowering	38-40
Number of days to physiological maturity	70-80
A hundred seed weight (g)	40-45
Grain Yield on station (t/ha)	2.0 - 3.5
Grain Yield on farm (t/ha)	0.8 – 1.5
Reaction to Pest and diseases	
Anthracnose	Moderate
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant



Selian 94

Variety Name	Selian 94	
Variety Identifications		
Original Code	NA	
Local Name	Karanga	
Year of Release	1994	
Responsible Research Institute	TARI Selian Centre	
Growing Area of Recommendation		
Regions	All Common bean growing areas in Tanzania	
Altitude	1000 – 1800 metres above sea level (m.a.s.l)	
Morphological characteristics		
Anthocyanin colouration	Absent	
Leaf colour	Green	
Growth habit	Bush	
Twining tendency	Present	
Plant height (cm):	40-45	
Flower colour	White	
Pod colour at maturity	Khaki	
Seed shape	Round	
Testa texture	Smooth	
Seed colour	Pink mottled	
Seed size	Medium	
Agronomic characteristics		
Days to maturity	80-90	
Days to flowering	38-40	
Quantity of Seed per hectare (kg)	100	
Number of days to 50% flowering	38-40	
Number of days to physiological maturity	70-80	
A hundred seed weight (g)	35-38	
Grain Yield on station (t/ha)	2.0 - 2.8	
Grain Yield on farm (t/ha)	1.7 – 2.0	
Reaction to Pest and diseases		
Anthracnose	Tolerant	
Ascochyta	Tolerant	
Leaf rust	Tolerant	
Halo blight	Tolerant	
Common Bean Mosaic Virus	Tolerant	

JESCA


Variety Name		JESCA
Variety Identifications		
Original Code	NA	
Local Name	Kijivu, Iringa, soya kijivu, Kablanket Soya ndefu,	
Year of Release	1997	
Responsible Research Institute	TARI Selian Centre	
Growing Area of Recommendation		
Regions	All common bean growing areas in Tanzania	
Altitude	1000 – 1800 metres above sea level (m.a.s.l)	
Morphological characteristics		
Anthocyanin colouration	Absent	
Leaf colour	Green	
Growth habit	Bush	
Twining tendency	Absent	
Plant height (cm):	38-40	
Flower colour	White	
Pod colour at maturity	Khaki	
Seed shape	Kidney	
Testa texture	Smooth	
Seed colour	Light purple speckled	
Seed size	Large	
Agromomic characteristics		
Days to maturity	70-80	
Days to flowering	32-38	
Quantity of Seed per hectare (kg)	100	
Number of days to 50% flowering	32-38	
Number of days to physiological maturity	60-70	
A hundred seed weight (g)	100	
Grain Yield on station (t/ha)	2.0 – 2.8	
Grain Yield on farm (t/ha)	1.5–2.5	
Nutritional characteristics		
Iron (Fe) content (ppm, mg/kg)	52-63	
Zinc (Zn) content (ppm, mg/kg)	32-36	
Reaction to Pest and diseases		
Angular Leaf Spot	Tolerant	
Leaf rust	Tolerant	
Bean Common Mosaic virus	Tolerant	
Common bean bacteria	Tolerant	
Halo blight	Tolerant	

Selian 97

Variety Name	Selian 97
Variety Identifications	
Original Code	NA
Local Name	Bwana-shamba, Maharage makubwa, Maharage mekundu, Kanada
Year of Release	1997
Responsible Research Institute	TARI Selian Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	1000 – 1800 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Absent
Leaf colour	Green
Growth habit	Bush
Twining tendency	Absent
Plant height (cm):	45-50
Flower colour	Pink
Pod colour at maturity	Cream
Seed shape	Red kidney
Testa texture	Smooth
Seed colour	Red
Seed size	Large
Agronomic characteristics	
Days to maturity	80-90
Days to flowering	38-40
Quantity of Seed per hectare (kg)	100
Number of days to 50% flowering	38-40
Number of days to physiological maturity	70-80
A hundred seed weight (g)	40
Grain Yield on station (t/ha)	2.0 - 3.0
Grain Yield on farm (t/ha)	1.6 – 2.0
Reaction to Pest and diseases	
Anthracnose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant



Selian 05

Variety Name	Selian 05	
Variety Identifications		
Original Code		
Local Name	Kiburu	
Year of Release	2006	
Responsible Research Institute	TARI Selian Centre	
Growing Area of Recommendation		
Regions	All common bean growing areas in Tanzania	
Altitude	1000 – 2000 metres above sea level (m.a.s.l)	
Morphological characteristics		
Anthocyanin colouration	Absent	
Leaf colour	Green	
Growth habit	Climber	
Twining tendency	Present	
Plant height (cm):	250-300	
Flower colour	White	
Pod colour at maturity	Khaki	
Seed shape	Round	
Testa texture	Smooth	
Seed colour	Khaki	
Seed size	Small	
Agonomic characteristics		
Days to maturity	110-120	
Days to flowering	46-48	
Quantity of Seed per hectare (kg)	60-70	
Number of days to 50% flowering	46-48	
Number of days to physiological maturity	80-90	
A hundred seed weight (g)	36	
Grain Yield on station (t/ha)	3.0 - 4.0	
Grain Yield on farm (t/ha)	2.0 – 3.5	
Reaction to Pest and diseases		
Anthraxnose	Tolerant	
Angular Leaf Spot	Tolerant	
Leaf rust	Tolerant	
Bean Common Mosaic virus	Tolerant	
Common bean bacteria	Tolerant	
Halo blight	Tolerant	

Selian 06

Variety Name	Selian 06
Variety Identifications	
Original Code	NA
Local Name	Karanga
Year of Release	2007
Responsible Research Institute	TARI Selian Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	1000-2000 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Absent
Leaf colour	Green
Growth habit	Climber
Twining tendency	Present
Plant height (cm):	250-300
Flower colour	White
Pod colour at maturity	Light brown
Seed shape	Circular
Testa texture	Smooth
Seed colour	White
Seed size	Medium
Agronomic characteristics	
Days to maturity	110-120
Days to flowering	42-46
Quantity of Seed per hectare (kg)	60-70
Number of days to 50% flowering	42-46
Number of days to physiological maturity	80-90
A hundred seed weight (g)	35
Grain Yield on station (t/ha)	2.5 - 3.0
Grain Yield on farm (t/ha)	2.0 – 2.5
Reaction to Pest and diseases	
Anthraxnose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant



Cheupe

Variety Name	Cheupe
Variety Identifications	
Original Code	NA
Local Name	Cheupe
Year of Release	2007
Responsible Research Institute	TARI Selian Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	1000-2000 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Absent
Leaf colour	Green
Growth habit	Climber
Twining tendency	Absent
Plant height (cm):	300-350
Flower colour	White
Pod colour at maturity	Light brown
Seed shape	Circular
Testa texture	Smooth
Seed colour	White
Seed size	Medium
Agronomic characteristics	
Days to maturity	110-120
Days to flowering	42-46
Quantity of Seed per hectare (kg)	60-70
Number of days to 50% flowering	42-46
Number of days to physiological maturity	80-90
A hundred seed weight (g)	35
Grain Yield on station (t/ha)	2.5 - 3.5
Grain Yield on farm (t/ha)	2.5 – 2.8
Other	
Reaction to Pest and diseases	
Anthracnose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant




Selian 09

Variety Name	Selian 09
Variety Identifications	
Original Code	KAT-SW-09
Local Name	Nyeupe
Year of Release	2018
Responsible Research Institute	TARI Selian Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	1000-1800 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Absent
Leaf colour	Green
Growth habit	Bush
Twining tendency	Present
Plant height (cm):	36-40
Flower colour	White
Pod colour at maturity	Khaki
Seed shape	Circular
Testa texture	Smooth
Seed colour	White
Seed size	Small
Agronomic characteristics	
Days to maturity	80-90
Days to flowering	38-40
Quantity of Seed per hectare (kg)	60
Number of days to 50% flowering	38-40
Number of days to physiological maturity	60-70
A hundred seed weight (g)	36
Grain Yield on station (t/ha)	1.5-1.8
Grain Yield on farm (t/ha)	0.6-0.9
Other	Canning Quality Water uptake: 98.53% Hydration coefficient: 1.98
Reaction to Pest and diseases	
Anthraco nose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant



Selian 10


Variety Name		Selian 10
Variety Identifications		
Original Code	KAT-SW-10	
Local Name	Nyeupe	
Year of Release	2018	
Responsible Research Institute	TARI Selian Centre	
Growing Area of Recommendation		
Regions	All common bean growing areas in Tanzania	
Altitude	800 - 1800 metres above sea level (m.a.s.l)	
Morphological characteristics		
Anthocyanin colouration	Absent	
Leaf colour	Green	
Growth habit	Bush	
Twining tendency	Present	
Plant height (cm):	35-40	
Flower colour	White	
Pod colour at maturity	Khaki	
Seed shape	Circular	
Testa texture	Smooth	
Seed colour	White	
Seed size	Small	
Agronomic characteristics		
Days to maturity	80-90	
Days to flowering	36-42	
Quantity of Seed per hectare (kg)	60-70	
Number of days to 50% flowering	36-40	
Number of days to physiological maturity	60-70	
A hundred seed weight (g)	36	
Grain Yield on station (t/ha)	1.2-1.5	
Grain Yield on farm (t/ha)	0.6-1.0	
Reaction to Pest and diseases		
Anthracnose	Tolerant	
Angular Leaf Spot	Tolerant	
Leaf rust	Tolerant	
Bean Common Mosaic virus	Tolerant	
Common bean bacteria	Tolerant	
Halo blight	Tolerant	

Selian 11

Variety Name	Selian 11
Variety Identifications	
Original Code	KAT-SW-12
Local Name	Nyeupe
Year of Release	2018
Responsible Research Institute	TARI Selian Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	1000-1800 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Absent
Leaf colour	Green
Growth habit	Bush
Twining tendency	Present
Plant height (cm):	36-40
Flower colour	White
Pod colour at maturity	Khaki
Seed shape	Circular
Testa texture	Smooth
Seed colour	White
Seed size	Small
Agronomic characteristics	
Days to maturity	80-90
Days to flowering	36-42
Quantity of Seed per hectare (kg)	60
Number of days to 50% flowering	36-43
Number of days to physiological maturity	60-70
A hundred seed weight (g)	36
Grain Yield on station (t/ha)	1.5 – 1.8
Grain Yield on farm (t/ha)	1.0-1.5
Other	Canning quality Water uptake: 100.52% Hydration coefficient: 1.99
Reaction to Pest and diseases	
Anthracnose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant



Selian 12

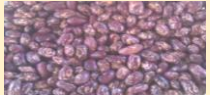
Variety Name		Selian 12
Variety Identifications		
Original Code	KATB9	
Local Name	Nyekundu, Nganamna, Kichumba, Kibumbuli	
Year of Release	2018	
Responsible Research Institute	TARI Selian Centre	
Growing Area of Recommendation		
Regions	All common bean growing areas in Tanzania	
Altitude	1000 - 1800 metres above sea level (m.a.s.l)	
Morphological characteristics		
Anthocyanin colouration	Absent	
Leaf colour	Green	
Growth habit	Bush	
Twining tendency	Absent	
Plant height (cm):	35-40	
Flower colour	White	
Pod colour at maturity	Khaki	
Seed shape	Round	
Testa texture	Smooth	
Seed colour	Red	
Seed size	Small	
Agronomic characteristics		
Days to maturity	70-80	
Days to flowering	32-36	
Quantity of Seed per hectare (kg)	60	
Number of days to 50% flowering	32-36	
Number of days to physiological maturity	50-60	
A hundred seed weight (g)	36	
Grain Yield on station (t/ha)	1.0-1.8	
Grain Yield on farm (t/ha)	1.0-1.5	
Other	Drought tolerant	
Reaction to Pest and diseases		
Anthracnose	Tolerant	
Angular Leaf Spot	Tolerant	
Leaf rust	Tolerant	
Bean Common Mosaic virus	Tolerant	
Common bean bacteria	Tolerant	
Halo blight	Tolerant	

Selian 13


Variety Name	Selian 13
Variety Identifications	
Original Code	KATB1
Local Name	Njano gololi, Kigoma, Njano, Kabukoba
Year of Release	2018
Responsible Research Institute	TARI Selian Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	800 - 1800 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Absent
Leaf colour	Green
Growth habit	Bush
Twining tendency	Absent
Plant height (cm):	35-40
Flower colour	Pink
Pod colour at maturity	Khaki
Seed shape	Round
Testa texture	Smooth
Seed colour	Yellow
Seed size	Medium
Agonomic characteristics	
Days to maturity	60-75
Days to flowering	32-36
Quantity of Seed per hectare (kg)	80
Number of days to 50% flowering	32-36
Number of days to physiological maturity	50-60
A hundred seed weight (g)	36
Grain Yield on station (t/ha)	0.8-1.5
Grain Yield on farm (t/ha)	0.6-0.8
Other	Early maturing, Fast cooking
Reaction to Pest and diseases	
Anthraxnose	Moderate Tolerant
Angular Leaf Spot	Moderate Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant



Selian 14

Variety Name	Selian 14
Variety Identifications	
Original Code	MAC44
Local Name	Rozikoko, Nyayo, Famu, 
Year of Release	2018
Responsible Research Institute	TARI Selian Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	1000-1800 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Present
Leaf colour	Green
Growth habit	Climber
Twining tendency	Absent
Plant height (cm):	300-350
Flower colour	White
Pod colour at maturity	Khaki
Seed shape	Circular
Testa texture	Smooth
Seed colour	Red mottled
Seed size	Medium
Agronomic characteristics	
Days to maturity	110-120
Days to flowering	42-46
Quantity of Seed per hectare (kg)	60-70
Number of days to 50% flowering	42-46
Number of days to physiological maturity	80-90
A hundred seed weight (g)	38
Grain Yield on station (t/ha)	2.0 -4.0
Grain Yield on farm (t/ha)	1.0-1.8
Nutritional characteristics	
Iron (Fe) content (ppm, mg/kg)	84
Zinc (Zn) content (ppm, mg/kg)	42
Reaction to Pest and diseases	
Anthracnose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant

Selian 15

Variety Name		Selian 15
Variety Identifications		
Original Code	RWV1129	
Local Name	Karanga,	
Year of Release	2018	
Responsible Research Institute	TARI Selian Centre	
Growing Area of Recommendation		
Regions	All common bean growing areas in Tanzania	
Altitude	1000-2300 metres above sea level (m.a.s.l)	
Morphological characteristics		
Anthocyanin colouration	Absent	
Leaf colour	Green	
Growth habit	Climber	
Twining tendency	Absent	
Plant height (cm)	300-350	
Flower colour	White	
Pod colour at maturity	Khaki	
Seed shape	Circular	
Testa texture	Smooth	
Seed colour	Pink	
Seed size	Medium	
Agronomic characteristics		
Days to maturity	110-120	
Days to flowering	42-46	
Quantity of Seed per hectare (kg)	60-70	
Number of days to 50% flowering	42-46	
Number of days to physiological maturity	80-90	
A hundred seed weight (g)	38	
Grain Yield on station (t/ha)	3.0-4.0	
Grain Yield on farm (t/ha)	2.0-3.0	
Nutritional characteristics		
Iron (Fe) content (ppm, mg/kg)	80-94	
Zinc (Zn) content (ppm, mg/kg)	30-36	
Reaction to Pest and diseases		
Anthracnose	Tolerant	
Angular Leaf Spot	Tolerant	
Leaf rust	Tolerant	
Bean Common Mosaic virus	Tolerant	
Common bean bacteria	Tolerant	
Halo blight	Tolerant	

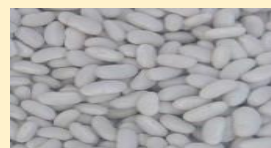
TARIBEAN 1

Variety Name	TARIBEAN 1
Variety Identifications	
Original Code	RCB 593
Local Name	Maharage Mekundu
Year of Release	2021
Responsible Research Institute	TARI Maruku Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	1000 - 2000 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Absent
Leaf colour	Green
Growth habit	Bush type
Twining tendency	Absent
Plant height (cm):	40-45
Flower colour	White
Pod colour at maturity	Yellow
Seed shape	Kidney
Testa texture	Smooth
Seed colour	Red
Seed size	Small
Agronomic characteristics	
Days to maturity	80-85
Days to flowering	37-40
Quantity of Seed per hectare (kg)	70
Number of days to 50% flowering	37-40
Number of days to physiological maturity	65 – 75
A hundred seed weight (g)	31-34
Grain Yield on station (t/ha)	3.0-3.2
Grain Yield on farm (t/ha)	2.5-2.8
Other	Heat tolerant
Reaction to Pest and diseases	
Anthracnose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant



TARIBEAN 2

Variety Name	TARIBEAN 2
Variety Identifications	
Original Code	SMC 18
Local Name	Maharage Meupe
Year of Release	2021
Responsible Research Institute	TARI Maruku Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	1000 - 2000 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Absent
Leaf colour	Green
Growth habit	Bush
Twining tendency	Present
Plant height (cm):	55-65
Flower colour	White
Pod colour at maturity	Yellow
Seed shape	Kidney
Testa texture	Smooth
Seed colour	White
Seed size	Small
Agronomic characteristics	
Days to maturity	80-90
Days to flowering	40-43
Quantity of Seed per hectare (kg)	60
Number of days to 50% flowering	40-43
Number of days to physiological maturity	70-73
A hundred seed weight (g)	30.38
Grain Yield on station (t/ha)	2.2-3.18
Grain Yield on farm (t/ha)	1.2-1.8
Nutritional characteristics	
Iron (Fe) content (ppm, mg/kg)	44.8 – 87.2
Zinc (Zn) content (ppm, mg/kg)	30.0 – 42.8
Reaction to Pest and diseases	
Anthraxnose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant



TARIBEAN 3

Variety Name	TARIBEAN 3
Variety Identifications	
Original Code	SCR 61
Local Name	Maharage Mekundu
Year of Release	2021
Responsible Research Institute	TARI Maruku Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	1000 - 2000 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Absent
Leaf colour	Green
Growth habit	Bush
Twining tendency	Absent
Plant height (cm):	32-38
Flower colour	White
Pod colour at maturity	Cream
Seed shape	Narrow Elliptic
Testa texture	Smooth
Seed colour	Dark Red
Seed size	Small
Agronomic characteristics	
Days to maturity	80-85
Days to flowering	42-44
Quantity of Seed per hectare (kg)	60-70
Number of days to 50% flowering	42-44
Number of days to physiological maturity	70-75
A hundred seed weight (g)	28.34
Grain Yield on station (t/ha)	2.2-3.2
Grain Yield on farm (t/ha)	1.5-2.9
Other	Drought Tolerant
Reaction to Pest and diseases	
Anthraxnose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant




ARIBEAN 4

Variety Name	TARIBEAN 4
Variety Identifications	
Original Code	COD MLB 033
Local Name	Maharage
Year of Release	2021
Responsible Research Institute	TARI Maruku Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	1000 - 2000 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Absent
Leaf colour	Green
Growth habit	Bush
Twining tendency	Absent
Plant height (cm):	50
Flower colour	White
Pod colour at maturity	Cream
Seed shape	Circular to elliptical
Testa texture	Smooth
Seed colour	Red Mottled
Seed size	Medium
Agronomic characteristics	
Days to maturity	80-85
Days to flowering	41-45
Quantity of Seed per hectare (kg)	70-80
Number of days to 50% flowering	41-45
Number of days to physiological maturity	69-75
A hundred seed weight (g)	48.4
Grain Yield on station (t/ha)	2.2-2.5
Grain Yield on farm (t/ha)	1.0-1.5
Nutritional characteristics	
Iron (Fe) content (ppm, mg/kg)	55.5 – 78.3
Zinc (Zn) content (ppm, mg/kg)	31.4 – 40.4
Reaction to Pest and diseases	
Anthraxnose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant



TARIBEAN 5

Variety Name	TARIBEAN 5	
Variety Identifications		
Original Code	KAB06F2-8-36	
Local Name	Maharage	
Year of Release	2021	
Responsible Research Institute	TARI Selian Centre	
Growing Area of Recommendation		
Regions	All common bean growing areas in Tanzania	
Altitude	993 - 2000 metres above sea level (m.a.s.l)	
Morphological characteristics		
Anthocyanin colouration	Absent	
Leaf colour	Green	
Growth habit	Bush	
Twining tendency	Absent	
Plant height (cm):	40-50	
Flower colour	White	
Pod colour at maturity	Khaki	
Seed shape	Circular to elliptical	
Testa texture	Smooth	
Seed colour	Red Mottled	
Seed size	Medium	
Agronomic characteristics		
Days to maturity	70-80	
Days to flowering	39-41	
Quantity of Seed per hectare (kg)	70-80	
Number of days to 50% flowering	39-41	
Number of days to physiological maturity	60-70	
A hundred seed weight (g)	38-40	
Grain Yield on station (t/ha)	1.8-2.5	
Grain Yield on farm (t/ha)	1.0-1.5	
Nutritional characteristics		
Iron (Fe) content (ppm, mg/kg)	55.5 – 76.0	
Zinc (Zn) content (ppm, mg/kg)	31.4 – 39.0	
Reaction to Pest and diseases		
Anthracnose	Tolerant	
Angular Leaf Spot	Tolerant	
Leaf rust	Tolerant	
Bean Common Mosaic virus	Tolerant	
Common bean bacteria	Tolerant	
Halo blight	Tolerant	

TARIBEAN 6

Variety Name	TARIBEAN 6
Variety Identifications	
Original Code	RWR 2154
Local Name	Mwasipenjele
Year of Release	2021
Responsible Research Institute	TARI Selian Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	993 - 1800 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Absent
Leaf colour	Green
Growth habit	Bush
Twining tendency	present
Plant height (cm):	45-50
Flower colour	White
Pod colour at maturity	Cream
Seed shape	Elliptical
Testa texture	Smooth
Seed colour	Cream
Seed size	Medium
Agronomic characteristics	
Days to maturity	70-80
Days to flowering	38-41
Quantity of Seed per hectare (kg)	80-90
Number of days to 50% flowering	38-41
Number of days to physiological maturity	60-70
A hundred seed weight (g)	39-40
Grain Yield on station (t/ha)	2.0-2.8
Grain Yield on farm (t/ha)	1.0-1.5
Nutritional characteristics	
Iron (Fe) content (ppm, mg/kg)	63.8 – 70.6
Zinc (Zn) content (ppm, mg/kg)	35.7 – 40.8
Reaction to Pest and diseases	
Anthracnose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant



Urafiki

Variety Name	Urafiki
Variety Identifications	
Original Code	NA
Local Name	Msafiri
Year of Release	
Responsible Research Institute	TARI Uyolet Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	800 - 2000 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Present
Leaf colour	Green
Growth habit	Bush
Twining tendency	Absent
Plant height (cm):	30-40
Flower colour	Pink
Pod colour at maturity	Cream
Seed shape	Elliptical
Testa texture	Smooth
Seed colour	Dark
Seed size	Large
Agonomic characteristics	
Days to maturity	90-100
Days to flowering	31-32
Quantity of Seed per hectare (kg)	70-80
Number of days to 50% flowering	31-32
Number of days to physiological maturity	75-80
A hundred seed weight (g)	36-38
Grain Yield on station (t/ha)	2.5-3.0
Grain Yield on farm (t/ha)	1.5-2.0
Other	Fast cooking Drought tolerant
Reaction to Pest and diseases	
Anthracnose	Susceptible
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant

Uyole 90

Variety Name	Uyole 90
Variety Identifications	
Original Code	NA
Local Name	
Year of Release	1990
Responsible Research Institute	TARI Uyole Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	1000 - 2000 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Green
Leaf colour	Green
Growth habit	Bush
Twining tendency	None
Plant height (cm):	40 – 45
Flower colour	White
Pod colour at maturity	White
Seed shape	Round
Testa texture	Smooth
Seed colour	Carioca
Seed size	Medium
Agronomic characteristics	
Days to maturity	90-100
Days to flowering	34-36
Quantity of Seed per hectare (kg)	60-75
Number of days to 50% flowering	34-36
Number of days to physiological maturity	80-85
A hundred seed weight (g)	26-28
Grain Yield on station (t/ha)	2.8-3.2
Grain Yield on farm (t/ha)	1.5-2.0
Reaction to Pest and diseases	
Anthraco nose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant
other	

Kabanima


Variety Name	Kabanima
Variety Identifications	
Original Code	Kabanima
Local Name	Kabanima
Year of Release	1979
Responsible Research Institute	TARI Uyole Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	1000-2000 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Present
Leaf colour	Green
Growth habit	Bush
Twining tendency	Absent
Plant height (cm):	30-35
Flower colour	Pink
Pod colour at maturity	Light cream
Seed shape	Rectangular
Testa texture	Smooth
Seed colour	Red mottled
Seed size	Large
Agronomic characteristics	
Days to maturity	85-90
Days to flowering	32-33
Quantity of Seed per hectare (kg)	75-80
Number of days to 50% flowering	32-33
Number of days to physiological maturity	75-80
A hundred seed weight (g)	38-42
Grain Yield on station (t/ha)	2.0-2.5
Grain Yield on farm (t/ha)	1.5-2.0
Reaction to Pest and diseases	
Anthracnose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean common mosaic virus	Tolerant
Common bean bacterial blight	Tolerant
Hallo Blight	Tolerant

Uyole 84


Variety Name	Uyole 84
Variety Identifications	
Original Code	NA
Local Name	Mantava
Year of Release	1984
Responsible Research Institute	TARI Uyole Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	800-2000 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Present
Leaf colour	Green
Growth habit	Climber
Twining tendency	Present
Plant height (cm):	100-120
Flower colour	White
Pod colour at maturity	Light cream
Seed shape	Circular
Testa texture	Smooth
Seed colour	Beige
Seed size	Small
Agronomic characteristics	
Days to maturity	110-120
Days to flowering	34-36
Quantity of Seed per hectare (kg)	60-65
Number of days to 50% flowering	34-36
Number of days to physiological maturity	90-95
A hundred seed weight (g)	25-28
Grain Yield on station (t/ha)	3.0-4.5
Grain Yield on farm (t/ha)	1.5-2.5
Reaction to Pest and diseases	
Anthracnose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant
Drought	Tolerant
Bean Stem maggot	Tolerant



Uyole 94

Variety Name	Uyole 94	
Variety Identifications		
Original Code	NA	
Local Name	Kasuka nywele	
Year of Release	1994	
Responsible Research Institute	TARI Uyole Centre	
Growing Area of Recommendation		
Regions	All common bean growing areas in Tanzania	
Altitude	800-1800 metres above sea level (m.a.s.l)	
Morphological characteristics		
Anthocyanin colouration	Present	
Leaf colour	Green	
Growth habit	Climber	
Twining tendency	Present	
Plant height (cm):	75-105	
Flower colour	Pink	
Pod colour at maturity	Light cream	
Seed shape	Kidney	
Testa texture	Smooth	
Seed colour	Red striped	
Seed size	Large	
Agronomic characteristics		
Days to maturity	80-84	
Days to flowering	30-32	
Quantity of Seed per hectare (kg)	100-110	
Number of days to 50% flowering	29-30	
Number of days to physiological maturity	70-75	
A hundred seed weight (g)	45-50	
Grain Yield on station (t/ha)	2.0-2.5	
Grain Yield on farm (t/ha)	1.5-2.0	
Reaction to Pest and diseases		
Anthracnose	Tolerant	
Angular Leaf Spot	Tolerant	
Leaf rust	Tolerant	
Bean common mosaic Virus	Tolerant	
Common bacterial blight	Tolerant	
Halo Blight	Tolerant	

Uyole 96

Variety Name	Uyole 96	
Variety Identifications		
Original Code	DRK Number 5	
Local Name	Msafiri	
Year of Release	1996	
Responsible Research Institute	TARI Uyole Centre	
Growing Area of Recommendation		
Regions	All common bean growing areas in Tanzania	
Altitude	800-1800 metres above sea level (m.a.s.l)	
Morphological characteristics		
Anthocyanin colouration	Present	
Leaf colour	Green	
Growth habit	Climber	
Twining tendency	Present	
Plant height (cm):	75-105	
Flower colour	Pink	
Pod colour at maturity	White	
Seed shape	Kidney	
Testa texture	Smooth	
Seed colour	Dark red	
Seed size	Large	
Agonomic characteristics		
Days to maturity	80-85	
Days to flowering	30-32	
Quantity of Seed per hectare (kg)	100-110	
Number of days to 50% flowering	29-30	
Number of days to physiological maturity	70-75	
A hundred seed weight (g)	48-52	
Grain Yield on station (t/ha)	2.0-2.8	
Grain Yield on farm (t/ha)	1.5-2.0	
Reaction to Pest and diseases		
Anthracnose	Tolerant	
Angular Leaf Spot	Tolerant	
Leaf rust	Tolerant	
Bean common mosaic virus	Tolerant	
Common bacterial blight	Tolerant	
Halo Blight	Tolerant	
Drought	Tolerant	

Uyole 98

Variety Name	Uyole 98
Variety Identifications	
Original Code	EGERM 74
Local Name	Mawese
Year of Release	1998
Responsible Research Institute	TARI Uyole Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	800-1800 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Present
Leaf colour	Green
Growth habit	Bush
Twining tendency	Present
Plant height (cm):	70-90
Flower colour	Pink
Pod colour at maturity	Cream
Seed shape	Elliptical
Testa texture	Smooth
Seed colour	Light Orange
Seed size	Medium
Agronomic characteristics	
Days to maturity	95-100
Days to flowering	32-34
Quantity of Seed per hectare (kg)	70-80
Number of days to 50% flowering	32-34
Number of days to physiological maturity	80-85
A hundred seed weight (g)	32-38
Grain Yield on station (t/ha)	2.5-3.0
Grain Yield on farm (t/ha)	1.5-2.5
Reaction to Pest and diseases	
Anthracnose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria blight	Tolerant
Halo blight	Tolerant



Wanja

Variety Name	Wanja
Variety Identifications	
Original Code	NA
Local Name	Wanja
Year of Release	2002
Responsible Research Institute	TARI
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	800-1600 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Present
Leaf colour	Green
Growth habit	Bush
Twining tendency	None
Plant height (cm):	25-30
Flower colour	Pink
Pod colour at maturity	Cream
Seed shape	Large long
Testa texture	Smooth
Seed colour	Khaki
Seed size	Large
Agonomic characteristics	
Days to maturity	75-80
Days to flowering	29-30
Quantity of Seed per hectare (kg)	100-110
Number of days to 50% flowering	28-30
Number of days to physiological maturity	72-75
A hundred seed weight (g)	48 -54
Grain Yield on station (t/ha)	1.5-2.0
Grain Yield on farm (t/ha)	1.0-1.5
Reaction to Pest and diseases	
Anthracnose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant



Uyole 03

Variety Name	Uyole 03
Variety Identifications	
Original Code	NA
Local Name	Mwasipenjele
Year of Release	2003
Responsible Research Institute	TARI Uyole Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	800-2000 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Present
Leaf colour	Green
Growth habit	Bush
Twining tendency	Absent
Plant height (cm):	30-35
Flower colour	Pink
Pod colour at maturity	Cream
Seed shape	Large
Testa texture	Smooth
Seed colour	Cream
Seed size	Large
Agronomic characteristics	
Days to maturity	85-90
Days to flowering	32-34
Quantity of Seed per hectare (kg)	100-110
Number of days to 50% flowering	31-32
Number of days to physiological maturity	78-85
A hundred seed weight (g)	42-46
Grain Yield on station (t/ha)	1.8-2.5
Grain Yield on farm (t/ha)	1.0-2.0
Reaction to Pest and diseases	
Anthracnose	Tolerant
Angular Leaf Spot	Tolerant
Halo blight	Tolerant
Rust	Tolerant
Bean common mosaic virus	Tolerant
Halo blight	Tolerant



Uyole 04

Variety Name	Uyole 04
Variety Identifications	
Original Code	EGERM 74
Local Name	Maini
Year of Release	2004
Responsible Research Institute	TARI Uyole Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	800-2000 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Present
Leaf colour	Green
Growth habit	Climber
Twining tendency	Present
Plant height (cm):	70-90
Flower colour	Pink
Pod colour at maturity	Cream
Seed shape	Elliptical
Testa texture	Smooth
Seed colour	Cream
Seed size	Medium
Agronomic characteristics	
Days to maturity	87-100
Days to flowering	32-34
Quantity of Seed per hectare (kg)	70-80
Number of days to 50% flowering	31-33
Number of days to physiological maturity	80-85
A hundred seed weight (g)	32-38
Grain Yield on station (t/ha)	1.5-3.0
Grain Yield on farm (t/ha)	1.5-2.5
Reaction to Pest and diseases	
Anthracnose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant



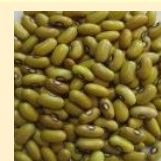
Bilfa Uyole

Variety Name	Bilfa Uyole
Variety Identifications	
Original Code	(Bilfa 3, Line4)
Local Name	
Year of Release	2004
Responsible Research Institute	TARI Uyole Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	1000-2200 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Present
Leaf colour	Green
Growth habit	Bush
Twining tendency	Present
Plant height (cm)	40-50
Flower colour	White
Pod colour at maturity	Cream
Seed shape	Rectangular
Testa texture	Smooth
Seed colour	Red mottled
Seed size	Medium
Agronomic characteristics	
Days to maturity	97-100
Days to flowering	33-36
Quantity of Seed per hectare (kg)	60-70
Number of days to 50% flowering	32-34
Number of days to physiological maturity	80-90
A hundred seed weight (g)	28-33
Grain Yield on station (t/ha)	2.8-3.5
Grain Yield on farm (t/ha)	1.5-2.0
Other	Fast cooking, tolerant to low N, P and acid soils
Reaction to Pest and diseases	
Anthracnose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant




Njano Uyole


Variety Name	Njano Uyole
Variety Identifications	
Original Code	NRICR (04) L78, NJANO (3parents)
Local Name	Njano ndefu
Year of Release	2008
Responsible Research Institute	TARI Uyole Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	1000-2000 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Present
Leaf colour	Light green
Growth habit	Bush
Twining tendency	Present
Plant height (cm):	63-75
Flower colour	Pink
Pod colour at maturity	Light brown
Seed shape	Elliptic
Testa texture	Smooth
Seed colour	Yellow
Seed size	Medium
Agronomic characteristics	
Days to maturity	90-100
Days to flowering	31-32
Quantity of Seed per hectare (kg)	70-80
Number of days to 50% flowering	31-32
Number of days to physiological maturity	75-80
A hundred seed weight (g)	35-40
Grain Yield on station (t/ha)	2.5-3.5
Grain Yield on farm (t/ha)	1.5-2.0
Other	Fast cooking
Reaction to Pest and diseases	
Anthracnose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant
Root rot	Susceptible




Calima Uyole

Variety Name	Calima Uyole	
Variety Identifications		
Original Code	CAL P 213 (3parent)	
Local Name	Rozikoko	
Year of Release	2011	
Responsible Research Institute	TARI Uyole Centre	
Growing Area of Recommendation		
Regions	All common bean growing areas in Tanzania	
Altitude	1000-2000 metres above sea level (m.a.s.l)	
Morphological characteristics		
Anthocyanin colouration	Present	
Leaf colour	Green	
Growth habit	Bush	
Twining tendency	Absent	
Plant height (cm)	35-45	
Flower colour	White	
Pod colour at maturity	Cream	
Seed shape	Rectangular	
Testa texture	Smooth	
Seed colour	Red mottled	
Seed size	Large	
Agronomic characteristics		
Days to maturity	85-90	
Days to flowering	32-34	
Quantity of Seed per hectare (kg)	100-110	
Number of days to 50% flowering	32-34	
Number of days to physiological maturity	80-85	
A hundred seed weight (g)	45-50	
Grain Yield on station (t/ha)	2.5-3.0	
Grain Yield on farm (t/ha)	1.5-2.5	
Other	Fast cooking, tolerance to poor soil	
Reaction to Pest and diseases		
Anthracnose	Tolerant	
Angular Leaf Spot	Tolerant	
Leaf rust	Tolerant	
Bean Common Mosaic virus	Tolerant	
Common bean bacteria	Tolerant	
Halo blight	Tolerant	
Poor soil	Tolerant	
Drought	Tolerant	


Nyeupe Uyole

Variety Name		Nyeupe Uyole
Variety Identifications		
Original Code	Large White (LW 14)	
Local Name	Meupe	
Year of Release	2016	
Responsible Research Institute	TARI Uyole Centre	
Growing Area of Recommendation		
Regions	All common bean growing areas in Tanzania	
Altitude	1000-2000 metres above sea level (m.a.s.l)	
Morphological characteristics		
Anthocyanin colouration	Present	
Leaf colour	Green	
Growth habit	Bush	
Twining tendency	Present	
Plant height (cm):	75-90	
Flower colour	Pink	
Pod colour at maturity	Cream white	
Seed shape	Kidney	
Testa texture	Smooth	
Seed colour	White	
Seed size	Large	
Agronomic characteristics		
Days to maturity	75-80	
Days to flowering	30-31	
Quantity of Seed per hectare (kg)	100-110	
Number of days to 50% flowering	30-31	
Number of days to physiological maturity	80-85	
A hundred seed weight (g)	45-50	
Grain Yield on station (t/ha)	2.3-3.0	
Grain Yield on farm (t/ha)	1.5-1.8	
Other	Fast cooking	
Reaction to Pest and diseases		
Anthracnose	Tolerant	
Angular Leaf Spot	Tolerant	
Leaf rust	Tolerant	
Bean Common Mosaic virus	Tolerant	
Common bean bacteria	Tolerant	
Halo blight	Tolerant	
Soil	Tolerant for poor soil	

Uyole 16

Variety Name	Uyole 16
Variety Identifications	
Original Code	NA
Local Name	Mawese
Year of Release	2016
Responsible Research Institute	TARI Uyole Centre
	
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	800-2000 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Present
Leaf colour	Light green
Growth habit	Bush
Twining tendency	Present
Plant height (cm)	70-90
Flower colour	Pink
Pod colour at maturity	Cream
Seed shape	Rectangular
Testa texture	Smooth
Seed colour	Orange
Seed size	Medium
Agronomic characteristics	
Days to maturity	85-100
Days to flowering	32-34
Quantity of Seed per hectare (kg)	70-80
Number of days to 50% flowering	32-34
Number of days to physiological maturity	85-90
A hundred seed weight (g)	36-40
Grain Yield on station (t/ha)	2.3-3.5
Grain Yield on farm (t/ha)	1.5-2.0
Other	Fast cooking
Reaction to Pest and diseases	
Anthracnose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant
Soil	Tolerant to poor soils

Uyole 17

Variety Name		Uyole 17
Variety Identifications		
Original Code	Large white dotted (LW Dotted E8)	
Local Name	Cha Urembo	
Year of Release	2018	
Responsible Research Institute	TARI Uyole Centre	
Growing Area of Recommendation		
Regions	All common bean growing areas in Tanzania	
Altitude	1000-2000 metres above sea level (m.a.s.l)	
Morphological characteristics		
Anthocyanin colouration	Present	
Leaf colour	Green	
Growth habit	Bush	
Twining tendency	Present	
Plant height (cm):	75-90	
Flower colour	Pink	
Pod colour at maturity	Cream white	
Seed shape	Kidney	
Testa texture	Smooth	
Seed colour	White	
Seed size	Large	
Agronomic characteristics		
Days to maturity	90-100	
Days to flowering	30-31	
Quantity of Seed per hectare (kg)	100-110	
Number of days to 50% flowering	30-31	
Number of days to physiological maturity	70-80	
A hundred seed weight (g)	42-48	
Grain Yield on station (t/ha)	3.0-3.5	
Grain Yield on farm (t/ha)	2.0-2.5	
Other	Fast cooking	
Reaction to Pest and diseases		
Anthracnose	Tolerant	
Angular Leaf Spot	Tolerant	
Leaf rust	Tolerant	
Bean Common Mosaic virus	Tolerant	
Common bean bacteria	Tolerant	
Halo blight	Tolerant	
Poor soil	Tolerant	

Moisture stress

Tolerant

Uyole 18

Variety Name	Uyole 18
Variety Identifications	
Original Code	Kblanketi CR1
Local Name	Kablanketi
Year of Release	2018
Responsible Research Institute	TARI Uyole Centre
Growing Area of Recommendation	
Regions	All common bean growing areas in Tanzania
Altitude	800-2000 metres above sea level (m.a.s.l)
Morphological characteristics	
Anthocyanin colouration	Present
Leaf colour	Green
Growth habit	Bush
Twining tendency	Present
Plant height (cm)	60-75
Flower colour	White
Pod colour at maturity	Cream
Seed shape	Circular
Testa texture	Smooth
Seed colour	Kablanket
Seed size	Medium
Agronomic characteristics	
Days to maturity	85-90
Days to flowering	31-32
Quantity of Seed per hectare (kg)	65-70
Number of days to 50% flowering	31-32
Number of days to physiological maturity	75-80
A hundred seed weight (g)	34-38
Grain Yield on station (t/ha)	2.8-3.2
Grain Yield on farm (t/ha)	1.5-2.0
Other	Fast cooking
Reaction to Pest and diseases	
Anthraxnose	Tolerant
Angular Leaf Spot	Tolerant
Leaf rust	Tolerant
Bean Common Mosaic virus	Tolerant
Common bean bacteria	Tolerant
Halo blight	Tolerant



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