# Syngenta Potato Solution

<table>
<thead>
<tr>
<th>First Emergence</th>
<th>Early Rosette</th>
<th>Rapid Canopy</th>
<th>Flowering</th>
<th>Canopy Complete</th>
<th>Desiccation</th>
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<tbody>
<tr>
<td>1</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
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</table>

## Weeks Indication

<table>
<thead>
<tr>
<th>Early &amp; Late Blight</th>
<th>Soil borne pests</th>
<th>Leaf miner/mites</th>
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<tbody>
<tr>
<td>Daconil</td>
<td>Actara</td>
<td>Dynamec</td>
</tr>
<tr>
<td>Revus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ridomil Gold</td>
<td></td>
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<tr>
<td>Match</td>
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</table>

<table>
<thead>
<tr>
<th>Product</th>
<th>Rate/20Ltr Knapsack</th>
<th>Spray Interval (Days)</th>
<th>Pre-Harvest Interval - (PHI) (Days)</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Daconil</td>
<td>80ml</td>
<td>7</td>
<td>14</td>
<td>Maximum of 3 sprays per season</td>
</tr>
<tr>
<td>Revus</td>
<td>20ml</td>
<td>7</td>
<td>7</td>
<td>Maximum of 3 sprays per season</td>
</tr>
<tr>
<td>Ridomil Gold</td>
<td>50g</td>
<td>7</td>
<td>7</td>
<td>Maximum of 3 sprays per season</td>
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<tr>
<td>Dynamec</td>
<td>10ml</td>
<td>7</td>
<td>3</td>
<td>Do scouting then spray at onset of pest infestation</td>
</tr>
<tr>
<td>Match</td>
<td>25ml</td>
<td>7</td>
<td>14</td>
<td>Do scouting then spray at onset of pest infestation</td>
</tr>
<tr>
<td>Actara</td>
<td>8g</td>
<td>7</td>
<td>7</td>
<td>Do scouting then spray at onset of pest infestation</td>
</tr>
</tbody>
</table>

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NATIONAL POTATO COUNCIL OF KENYA
The National Potato Council of Kenya (NPCK) is a multi-stakeholder organization tasked with organizing and coordinating the activities of the potato sub-sector with an aim of transforming it into a robust, competitive, and self-regulating industry.

The NPCK works closely with stakeholders in the potato sub-sector in identifying sub-sector challenges and coming up with necessary interventions to address them. The following are some of the initiatives recently or currently being undertaken by the NPCK in collaboration with key stakeholders in the industry:

- Up-scaling of Seed potato innovations
- Enhancing adoption of harmonized seeds standards, regulations, and procedures in East and Central Africa (ECA)
- On-Farm evaluation and promotion of low-cost seed potato storage
- Development and distribution of seed and ware potato production manuals
- Developed a Policy makers' guide to crop diversification: Case of potato production in Kenya
- Organized and co-hosted the 9th Triennial African Potato Association Conference
- Working and collaborating with National and County Governments in:
  - developing and implementing National and County Potato development strategies
  - eradicating extended packaging bags in potato marketing

NPCK MEMBERSHIP
Membership of NPCK is based upon the number of stakeholders in the potato industry. This may include but not limited to, individual farmers, farmer groups/associations, processing companies, franchise, and main market outlets among many others.

To be a member of the NPCK, log in to our website www.npck.org and find the membership details.
FOREWORD

The potato (*Solanum tuberosum*) is an important staple and cash crop in Kenya and occupies a prime position in terms of contribution to food security, poverty eradication, and economic development. The importance of potato continues to rise over time due to increased urbanization and consequently increased uptake of processed potato products such as crisps and chips. However, potatoes consumed in Kenya are mainly boiled, roasted, fried, mashed, eaten in stews, or mixed with foods such as maize and beans.

Current potato yields are below 10t/ha against a potential of 40t/ha, that is achievable under good agronomic practices. Use of poor quality seed, poor crop husbandry and lack of suitable varieties for upper-end market is generally believed to be the main reason for the low potato yields and low incomes for Kenyan potato farmers. There is low use of high quality seed with use of certified seed potatoes hardly exceeding 2%.

In the recent past there has been several initiatives aimed at increasing availability of certified seed potato, high yielding varieties that are suitable for processing and heat tolerant varieties. Consequently, there are increased number of seed producers and released potato varieties.

This Potato Variety Catalogue is therefore an initiative aimed at enhancing awareness about the released varieties and helping create linkages between the seed growers and ware potato producers. It provides a description of potato varieties commonly grown in Kenya, including the recently released varieties.

This catalogue has been developed through a joint effort of National Potato Council of Kenya (NPCK); Kenya Agricultural and Livestock Research Organization (KALRO - NPRC); Ministry of Agriculture Livestock and Fisheries (MoALF); International Potato Center (CIP); Kenya plant Health Inspectorate Services (KEPHIS); Kenya National Potato Farmers' Association (KENAPOFA); Kenya - Netherlands seed potato development project; International Fertilizer Development Centre (IFDC); Syngenta East Africa Company and Syngenta Foundation for Sustainable Agriculture.
It is hoped that the catalogue will contribute to having more farmers gaining direct access to disease free and quality seed thus enhancing the competitiveness of the potato sub-sector, in line with the food security aspirations of UN Sustainable Development Goals (SDGs), Vision 2030 and Agricultural Sector Development Strategy (2009 - 2020)

Wachira Kaguongo
Chief Executive Officer,
National Potato Council of Kenya

KEY PARTNERS

[Logos and names of key partners]
HOW TO USE THIS CATALOGUE
This catalogue describes 36 varieties registered by KEPHIS. It specifies agricultural and plant characteristics of each variety, accompanied by an illustration of the plant flower, the tuber, cut open tuber, and sprout. Contact details for some institutions in the sector have been included at the end of this catalogue.

To find the variety of your interest go to the variety description and read the characteristics to determine the best one for your region. The contact details of the seed merchants and others who offer the variety of your choice can be found in Table 2.

You are highly advised to consider your target market while choosing the variety you intend to grow.

VARIETY CHARACTERISTICS
The following agricultural characteristics are specified for each variety:

- Tuber features (shape, size, colour of the skin and flesh, depth of the eyes)
- Maturity i.e. how long it takes to mature
- Yield (of a mature crop)
- Resistance to pests and diseases e.g. potato leaf roll virus (PLRV) late blight
- Tuber dormancy
- Use (e.g. chipping, crisping, boiling, mashing quality)
- Altitude range
- Sprout features (colour, shape)
- Dry matter content
- Plant characteristics (flower colour)
CERTIFIED SEED PRODUCTION IN KENYA
Certified seed potatoes are grown by different merchants and out growers located in different parts of the country. Currently, certification procedures are solely done by KEPHIS. The seeds produced may be available at varying quantities depending on the number of growers meeting the conditions at any particular season.

ECOLOGICAL REQUIREMENTS
**Suitable temperature:** Mean Temp (°C) (15-24)
**Suitable rainfall:** Mean Rainfall (mm) 1200-1800mm
**Potato growing areas:** There are 13 established major potato producing counties these include: Meru, Nyeri, Nyandarua, Kiambu, Taita-Taveta, Nakuru, Narok, Bomet, Elgeiyo-Marakwet, Trans-Nzoia, Bungoma, Uasin-Gishu, West Pokot; 7 emerging producing counties which include Kisii, Nyamira, Baringo, Nandi, Kirinyaga, Kericho and Laikipia; other minor but potential potato producing counties (mainly in the hilly areas include Machakos, Makuuni, Embu, Kajiado, Tharaka Nithi, Samburu, Kwale, and Nairobi.

**Soil types:** Ideal soils for potatoes vary within the counties but usually loam soils (silt loam; clay loam with adequate organic content, well-draining to light soils) are suitable. Suitable soil pH value ranges from 5.5 - 7.0. Ideal soil pH value is 5.5.

**Note:** Not all varieties perform equally and performance may vary in different counties; hence, farmers need to try small units before full scale production of any variety.
Table 1: Summary table for potato varieties

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>TUBER CHARACTERISTICS</th>
<th>MATURITY</th>
<th>DISEASE RESISTANCE</th>
<th>USAGE</th>
<th>YIELD</th>
<th>ALTITUDE RANGE</th>
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<td>AMBITION</td>
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<td>✓</td>
<td>✓ ✓ ✓ ✓</td>
<td>✓ ✓ ✓ ✓</td>
<td>1300-2000</td>
</tr>
<tr>
<td>ANNET</td>
<td>YRB Y</td>
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<td>✓</td>
<td>*</td>
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<td>1300-2000</td>
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<td>1300-3000</td>
</tr>
<tr>
<td>ARNOVA</td>
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<td>✓</td>
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<td>✓ ✓ ✓ ✓</td>
<td>&gt;2300</td>
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<tr>
<td>CONNECT</td>
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</tr>
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<td>1300-3000</td>
</tr>
<tr>
<td>DUTCH ROBIN</td>
<td>R FY M</td>
<td>● ● ● ●</td>
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<tr>
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<td>MANITOU</td>
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<td>RUMBA</td>
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<td>RUDOLPH</td>
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<td>SAGITTA</td>
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<tr>
<td>SARPO MIRA</td>
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<td>SHANGI</td>
<td>C W M</td>
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<td>TIGONI</td>
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<td>TOLUCA</td>
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</table>
NB: Find detailed information on each variety in the text.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Eye Depth</th>
<th>Use</th>
<th>Yield</th>
<th>Disease Resistance</th>
<th>Tuber</th>
<th>Dormancy</th>
<th>Maternity</th>
<th>Ratin</th>
<th>Symbols as Used</th>
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<td>E / L</td>
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<td>E / L</td>
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<tr>
<td>HIGH (ABOVE 60 TONS/HA)</td>
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<td>LONG (80-100 DAYS)</td>
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**KEY**
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<tr>
<th>Name</th>
<th>County</th>
<th>Contacts</th>
<th>Varieties</th>
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<tbody>
<tr>
<td>ADC</td>
<td>Nakuru</td>
<td>0721-202565 <a href="mailto:adcmo1o@gmail.com">adcmo1o@gmail.com</a></td>
<td>Tigon, Asante, Kenya Sifa, Kenya Karibu, Kenya Mavuno, Dutch Robijn, Shangi</td>
</tr>
<tr>
<td>Agrico East Africa</td>
<td>Nairobi</td>
<td>0722-206179 <a href="mailto:info@agrico.co.ke">info@agrico.co.ke</a></td>
<td>Ambition, Amoma, Arizona, Rudolph, Markies, Manitou, Saviola, Toluca, Faluka, Destiny</td>
</tr>
<tr>
<td>ATC Chebororwa</td>
<td>Uasin Gishu</td>
<td>0726 141 029</td>
<td>Tigon, Kenya Karibu, Asante, Kenya Mavuno, Shereke, Kenya Mpya, Shangi</td>
</tr>
<tr>
<td>David Maingi</td>
<td>Meru</td>
<td>0722-816281 <a href="mailto:dkmaingi@yahoo.com">dkmaingi@yahoo.com</a></td>
<td>Asante</td>
</tr>
<tr>
<td>GTIL (mini tubers only)</td>
<td>Nairobi</td>
<td>0722 662037 <a href="mailto:kae@afriaconline.co.ke">kae@afriaconline.co.ke</a></td>
<td>Asante, Tigon, Kenya Mpya, Shereke, Dutch Robijn, Kenya Karibu</td>
</tr>
<tr>
<td>Ismael Kiptoo</td>
<td>Uasin Gishu</td>
<td>0722 281 946</td>
<td>Tigon, Kenya Karibu, Asante, Kenya Mavuno, Shereke, Kenya Mpya, Shangi</td>
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<tr>
<td>KALRO Tigon</td>
<td>Kiambu</td>
<td>0733 834675 <a href="mailto:karitigoni@yahoo.com">karitigoni@yahoo.com</a></td>
<td>Asante, Dutch Robijn, Tigon, Kenya Mpya, Shangi</td>
</tr>
<tr>
<td>Kipgaa Women</td>
<td>Elgeiyo</td>
<td>0711-707214</td>
<td>Tigon, Asante</td>
</tr>
<tr>
<td>Kisima Farm</td>
<td>Meru</td>
<td>0716-968766 <a href="mailto:shaun@kisima.co.ke">shaun@kisima.co.ke</a></td>
<td>Tigon, Asante, Shereke, Kenya Mpya, Derby, Taurus, Sagitta</td>
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<td>Peninah Kuumbai</td>
<td>Elgeiyo</td>
<td>0723 267 935</td>
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<tr>
<td>Rose Khaemba</td>
<td>Trans Nzoia</td>
<td>0721-339484 <a href="mailto:2kzim.kz@gmail.com">2kzim.kz@gmail.com</a></td>
<td>Dutch Robijn</td>
</tr>
<tr>
<td>St. Patrick High School</td>
<td>Elgeiyo Marakwet</td>
<td>0715 380100</td>
<td>Tigon, Kenya Karibu, Asante, Kenya Mavuno, Shereke, Kenya Mpya, Shangi</td>
</tr>
<tr>
<td>Suera Farm</td>
<td>Nyandarua</td>
<td>0706-186579 <a href="mailto:suera.flowers@gmail.com">suera.flowers@gmail.com</a></td>
<td>Musica</td>
</tr>
<tr>
<td>Syngenta E.A Ltd</td>
<td>Nairobi</td>
<td>0703-018000 syngenta.east_africa@syngenta</td>
<td>Jelly, Rumba</td>
</tr>
<tr>
<td>Danespo</td>
<td>-</td>
<td><a href="mailto:pve@danesco.com">pve@danesco.com</a></td>
<td>Royal, Sarpo Mira</td>
</tr>
<tr>
<td>Den Hartigh</td>
<td>-</td>
<td><a href="mailto:Br.krijger@denhartigh-potato.nl">Br.krijger@denhartigh-potato.nl</a></td>
<td>Conneet, Caruso</td>
</tr>
<tr>
<td>KWS</td>
<td>-</td>
<td><a href="mailto:Jeroen.kuin@kws.com">Jeroen.kuin@kws.com</a></td>
<td>El Mundo</td>
</tr>
</tbody>
</table>
Plant description
- moderate dry matter content
- good foliage
- good heat tolerance

Tuber features: Large, uniform, long oval
Shallow eyes
Very attractive white skin
White flesh
Tuber dormancy: Short
Maturity: Late (>3.5 months)
Yield: High (70-75 t/ha)
Disease resistance: Good resistance to *Fusarium* sp, *Erwinia* sp, Potato cyst nematode (PCN) Ro1 and 4, Y<sup>min</sup>-virus
Use: Mashing
Boiling
Roasting
Suitable for home chips
Areas to be grown: Suitable for all potato growing area
INSURE YOUR POTATO CROP WITH TRIANUM
FOR A BUMPER HARVEST!

Trianum

✓ Trianum protects the crop against soil-borne diseases such as Fusarium
✓ Trianum improves the root system
✓ Trianum increases yields

Koppert Biological Systems (K) Ltd.
Tel: +254 20 2021916, +254 731 202191
WWW.KOPPERT.COM | Email: info@koppert.co.ke
Plant Description:
- is a tall plant of about 1 meter
- strong semi erect stems
- light green, medium sized leaves
- white flowers with a regular flowering habit
- greenish brown sprouts

Tuber features: Yellow skin (red blotched)
Yellow flesh

Tuber dormancy: Medium

Maturity: Medium (2.5-3 months)

Yield: Low (30-35 t/ha)

Disease resistance: Tolerant to late blight

Use: Mashing
Boiling
Roasting
Chips

Altitude range: 1300 - 2000 m.a.s.l.
ARIZONA

Plant description
- good initial development
- white flowers
- high yielding and should not be stored for too long before planting
- Low dry matter content

Tuber features : Large oval
- Shallow eyes
- Yellow skin
- Yellow flesh

Tuber dormancy : Medium

Maturity : Medium (3 - 3.5 months)

Yield : Medium (45 t/ha)

Disease resistance : Good resistance to late blight and virus

Use : Mashing
- Boiling
- Roasting
- Chips
- Flakes
- Baking

Areas to be grown : Suitable for all potato growing areas
Better yield and quality with Grimme potato equipment

Grimme cultivator for good soil preparation
- Perfect seed bed
- Less clods

Grimme potato planter for precision planting
- Accurate planting
- Increasing yields
- Less use of seed

Grimme potato Digger for gentle harvesting
- Proven technology
- Less bruising and damage to the crops

Grimme Premium Partner:

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+ 254 722 209538 + 254 733 620016

Grimme Landmaschinenfabrik GmbH & Co. KG • www.grimme.com
Plant description
- is a tall plant with and intermediate upright type foliage structure
- semi-upright stems, absent or very weak anthocyanin coloration
- medium to large, light to medium green leaves
- medium to high frequency of flowers, absent or very weak anthocyanin coloration inner side of flower corolla
- good heat tolerance
- low dry matter content
- sprouts are medium to large, conical, weak to medium intensity of anthocyanin coloration and strong to medium pubescence of base; small to medium terminal bud with very weak to weak anthocyanin coloration of tip; medium to many root tips

Tuber features: Yellow, smooth to medium smooth skin; pale yellow flesh; shallow eyes; very large to large oval tubers; very uniform to uniform in shape; good resistance to internal bruising

Tuber dormancy: Medium to long
Maturity: Medium (3-3.5 months)
Yield: Medium yielding (40 t/ha)
Disease resistance: Fairly susceptible to leaf blight, moderately resistant to tuber blight; potato virus X, virus Y and common scab. Good resistance to leaf roll, susceptible to virus A resistant to Ro1 of the potato cyst nematode; fairly resistant to powdery scab and Ymn Virus

Use: Suitable for table (Firm in cooking, no traces of after cooking blackening)
Areas to be grown: Suitable for all potato growing areas
Plant description:
- it exhibits a medium plant height
- has an intermediate type foliage structure
- stems are upright to semi-upright
- light green leaves
- high dry matter content

Tuber features: Round, pink smooth skin
- Pale yellow flesh
- Shallow eyes

Tuber dormancy: Short

Maturity: Medium (3 months)

Yield: Low to medium (35-45 t/ha)

Disease resistance: Tolerant to late blight

Use: Chips
- Mashing
- Baking
- Roasting

Altitude range: Above 2300 m.a.s.l.
CARUSO

Plant description
- main crop variety
- intermediate variety type
- high dry matter content

Tuber features: Short oval tubers
Shallow eyes
Yellow skin
Light yellow flesh
Low reducing sugar content

Tuber dormancy: Medium
Maturity: Medium
Yield: Low to medium (30 - 50 t/ha)

Disease resistance: Resistant to PCN R01 and 4, PVY and PLRV
High resistance to late blight, tuber blight, common scab and internal rust spot

Use: Crisps
Chips
Boiling
Mashing
Roasting

Areas to be grown: Suitable for all potato growing areas
New Agrico varieties from Holland are available in Kenya now. They have been selected by some of the world's leading potato experts for Kenyan Farmers. We have varieties for Crisping, French Fries, and cooking. Good yields and great quality can turn your farm into a valuable business.

Say potato, say Agrico.

Email: Info@agrico.co.ke
Tel: +254 20 3540568 / +254 722 206179
P.O. Box 63249 – 00619 Nairobi, Kenya
**Plant description**
- tall plant with rapid development
- dark green leaves
- vigorous plant with very good ground covering
- does not flower
- good tolerance to drought

**Tuber features**
- Shape; round oval
- Uniform shape
- Yellow skin
- Yellow flesh
- Large tubers
- Very shallow eyes
- Fairly good resistance to internal bruising

**Tuber dormancy**
- Medium to long

**Maturity**
- Early to medium (3.5 - 4 months)

**Yield**
- Medium to high (40-60 t/ha)

**Disease resistance**
- Resistant to late blight and virus

**Use**
- Table variety (short cooking time, mealy, free discoloration, and Suitable for home chips)

**Areas to be grown**
- Suitable for all potato growing areas
Plant description
- is a medium tall plant with leaf type foliage structure and semi-upright growth habit and absent or very weak anthocyanin coloration of the stem; low frequency of flowers
- good dry matter content
- sprout are medium to large in size, conical in shape with weak intensity of anthocyanin coloration of base. Has small size of tip in relation to base

Tuber features: Large oval
Yellow skin
Light yellow flesh
Shallow to medium eyes

Tuber dormancy: Short (suitable for second crop)
Maturity: Early
Yield: High (70-75 t/ha under optimum crop management)

Disease resistance: Good resistance to Late blight and scab
Resistant to PCN (*Globodera rostochiensis* species)
Resistant to Wart disease *Fusio 1 and 2*

Use: Chips
Boiling
Mashing
Roasting
Crisps

Areas to be grown: Suitable for all potato growing areas
**Plant Description:**
- is a medium sized potato plant with strong semi-erect stems
- moderate foliage cover
- has good storage
- has pink sprouts
- high dry matter content

**Tuber features:**
- Oval to round
- Shallow to medium eyes
- Red skin
- Cream flesh

**Tuber dormancy:**
- Long

**Maturity:**
- Late (4 - 4.8 months)

**Yield:**
- Low to medium (35-40 t/ha)

**Disease resistance:**
- Susceptible to late blight

**Use:**
- Chips
- Boiling
- Mashing

**Altitude range:**
- 1800-2600 m.a.s.l.
DESTINY

Plant description
- second to early crop
- good initial development
- light purple flower that varies in light to dark purple
- dark green leaves
- high dry matter content
- sprouts are medium to large, conical, weak to medium intensity of anthocyanin coloration and strong to medium pubescence of base; medium to large terminal bud with very weak anthocyanin coloration of tip

Tuber features : High numbers of round/oval tubers
- Relatively shallow red eyes
- Yellow skin and flesh color
- Uniform in grading

Tuber dormancy : Medium
Maturity : Early (3-3.5 months)
Yield : Low (30 - 40 t/ha)
Disease resistance : Good resistance to Y-virus, X-virus and PCN
- Good resistance to early blight and Erwinia sp

Use : It is a great processing variety. The shape and dry matter content is ideal for crisps

Areas to be grown: Suitable for all potato growing areas
Kisima Farm Ltd seed potatoes are Kenya’s best brand of seed potato.

We supply high quality, disease free seed potatoes that a farmer can expect increased yields.

For more information, call us on our hotline:
0716 968 766
**Plant Description:**
- it exhibits a medium plant height
- has upright stems
- has minimal foliage
- the leaves are dark green with white flowers although in most cases they do not flower
- it has thin stems and green buds
- high dry matter content

**Tuber features**
Round in shape
- Pale yellow flesh colour
- Slightly rough, red skin
- Medium eyes and tubers
- Have a very good storage capacity

**Tuber dormancy**
- Long

**Maturity**
- Late (4-5 months)

**Yield**
- Low to medium (35-40 t/ha)

**Disease resistance**
- Moderately resistant to late blight

**Use**
- Crisps

**Attitude range**
- 1600-2600 m a.s.l.
Plant description
- it gives a large number of good-sized tubers with a very high yield
- it grows well and develops strong foliage and therefore, it should not be over fertilized
- the use of organic manure is not recommended with this variety
- high dry matter content

Tuber features: Medium in size
Long oval
Uniform in shape
Yellow skin
Light yellow flesh
Shallow eyes

Tuber dormancy: Long

Maturity: Late (5-6 months)

Yield: High (60 t/ha) under intense management

Disease resistance: Good resistant to late blight
Tolerant to drought
Resistant to PVY

Use: Fairly firm in cooking; consistent colour after cooking; table variety (mashing, roasting and boiling) and of good taste

Areas to be grown: Suitable for all potato growing areas
FALUKA

Plant description
- it grows tall and has intermediate type foliage structure
- stems grow semi-upright to spreading and very weak to weak anthocyanin coloration
- large, medium green leaves and intermediate to open silhouette
- medium to high frequency of flowers with absent or very weak anthocyanin coloration of inner side flower corolla
- good heat resistance

Tuber features: Large, long oval
- Uniform in shape
- Yellow skin
- Cream flesh
- Shallow eyes
- Good resistance to internal bruising
- Low dry matter content
- Uniform in grading

Tuber dormancy: Medium to long
Maturity: Early to medium (3 ± 0.5 months)
Yield: Medium (42.5 t/ha)
Disease resistance: Susceptible to leaf blight and tuber blight
- Good resistance to virus X and virus Y
- Moderately resistant to common scab
Use: Table variety (fairly firm in cooking; little after cooking blackening)
Areas to be grown: Suitable for all potato growing areas
CONSENTO is the best Late blight protection available today. It is the right tool to control the new very-aggressive strains attacking your potato crop at early stages.

The new fungicide offers:
- Excellent preventive and curative efficacy,
- Protects new growing leaves and shoots,
- Controls stem and tuber blight infections,
- Meets consumer and food-industry demands.

The Latest Innovation for Late blight control in potato

leaf and stem infection  
tuber infection

Effective Protection, Meets quality requirements

For further information, please contact:
CropScience Division,
Thika/Outer Ring road, Ruaraka
P.O. Box 30321, 00100 GPO, Nairobi, Kenya
Tel: (+254-20) 8600000
E-mail: bcs.ke@bayer.com
Plant description
- has medium demands to the soil and water supply
- has high drought and heat tolerance
- has medium tuberization rate thus the recommended plant density is approx. 42,000 plants/ha
- very high marketable yield
- has good storability

Tuber features: Nice, oval medium to big sized
Yellow, smooth to slightly netted skin
Pure yellow flesh
Has low raw discoloration
Very shallow eyes

Tuber dormancy: Medium

Maturity: Late (4-4.5 months)

Yield: Medium (40-50 t/ha)

Disease resistance: Tolerant to late blight, tuber blight, leaf blight, black leg, *Rhizoctonia* sp, common scab, bacterial wilt, (PVY), Cyst Nematodes and potato wart disease

Use: Mashing
Boiling
Roasting
Chips
Crisps

Areas to be grown: Suitable for all potato growing areas
KENYA BARAKA

Plant Description:
- is a tall plant with upright stem foliage structure
- has no or very weak anthocyanin coloration on the stems
- has high frequency of flowers with medium to strong anthocyanin coloration inside flower corolla
- has good storage
- has greenish in colour sprouts
- high dry matter content

Tuber features : Oval
                Very large
                Rather shallow eyes
                Yellow skin
                Pale yellow flesh

Tuber dormancy : Short
Maturity       : Early to medium (2.6 - 4 months)
Yield          : Low (30-35 t/ha)
Disease resistance : Tolerant to late blight and drought
Use            : Chips
                Boiling
                Mashing
Altitudes range : 1600-2700 m.a.s.l.
KENYA KARIBU

Plant description:
- is a tall variety (slightly above 1 meter with strong erect stems
- slightly dark green, narrow, sharp pointed leaves
- abundant light purple flowers and regular flowering habit
- produces a vigorous crop with good ground cover
- dark red sprouts
- high dry matter content

Tuber features : Round in shape
                Medium eyes
                Deep red skin
                Yellow flesh

Tuber dormancy : Long
Maturity       : Medium (>3 months)
Yield          : Low to medium (35-40 t/ha)
Disease resistance : Tolerant to late blight and to most potato viruses
Use            : Chips
                Crisps
                Boiling
                Mashing

Altitude range : 1800-2800 m.a.s.l.
KENYA MAVUNO

Plant description:
- is a tall plant attaining a height of about 1 meter
- has strong semi erect stems
- green medium sized leaves
- abundant white flowers and regular flowering habit
- the variety produces a vigorous crop with good ground cover
- light green sprouts under diffuse light store
- high dry matter content

Tuber features : Oval
                Shallow eyes
                Cream flesh
                Cream skin

Tuber dormancy : Long

Maturity : Late (>4 months)

Yield : Low (20-30 t/ha)

Disease resistance : Tolerant to late blight and to most of the potato viruses

Use : Chips
      Boiling
      Mashing

Altitude range : 1800-2800 m.a.s.l.
KENYA MPYA

Plant Description:
- is a tall plant with a height of about 1 meter
- has a strong semi erect stem
- light green, medium sized leaves
- has white flowers with regular flowering habit
- is a vigorous crop with good ground cover
- good storability

Tuber features:
- Oval / round tubers
  - Early tuberization
  - Large size tubers
  - Cream white skin
  - Shallow pink eyes
  - Cream white flesh

Tuber dormancy: Short

Maturity:
- Medium (3.0-3.5 months)

Yield:
- Low in medium (35-45 t/ha)

Disease resistance:
- Resistant to late blight

Use:
- Boiling
  - Roasting
  - Mashing
  - Chips

Altitude range:
- 1400-3000 m.a.s.l.
KENYA SIFA

Plant description:
- is a very tall potato variety (slightly above 1 meter)
- has a strong erect stem
- dark green broad leaves
- abundant light purple flowers with regular flowering habit
- it produces a vigorous crop with good ground cover
- high dry matter content

Tuber features:
- Flat/round in shape
- Medium eye depth
- Pink skin
- Cream flesh
- Dark red sprouts under diffused light store

Tuber dormancy: Long
Maturity: Medium (3-3.5 months)
Yield: Low (20-30 t/ha)
Disease resistance: Highly tolerant to late blight and tolerant to most of the potato viruses

Use:
- Chips
- Boiling

Altitude range: 1800-2800 m.a.s.l.
KERR'S PINK

Plant description:
- is a tall plant
- has white flowers
- has pink sprouts

Tuber features:
- Short oval shape
- Medium eyes
- Red skin
- Cream flesh

Tuber dormancy: Medium
Maturity: Medium (2-3 months)
Yield: Low (25-30 t/ha)
Disease resistance: Susceptible to late blight;
Tolerant to drought

Use:
- Roasting
- Mashing
- Chips
- Boiling

Altitude range: 1400-2700 m.a.s.l.
Plant description
- is a tall plant with an intermediate type foliage structure
- stems upright to semi-upright
- large, light to medium green leaves and intermediate to open silhouette
- medium to high frequency of violate flowers and medium to strong anthocyanin coloration of inner side flower corolla
- sprouts are medium, oval, strong intensity of anthocyanin coloration and strong pubescence of base; small to medium terminal bud with medium to strong anthocyanin coloration of tip; medium too many root tips

Tuber features: Oval to long oval tuber
- Red smooth skin with pale yellow flesh
- Shallow eyes and a medium dry matter content
- Good resistance to internal bruising
- Uniform in grading

Tuber dormancy: Medium to long

Maturity: Early (3.5 ± 0.5 months)

Yield: Medium (45 t/ha)

Disease resistance: Susceptible to leaf blight
- Good resistance to tuber blight and virus Y
- Moderately resistant to virus X and common scab
- Immune to wart disease
- Resistant to Ro1 of the potato cyst nematode

Use: Very suitable for table consumption and chips
- Good universal potato

Areas to be grown: Suitable for all potato growing areas
MARKIES

Plant description
- has good foliage
- is a tall plant with upright stem type foliage structure
- stem has medium anthocyanin coloration
- large, medium green leaves and closed to intermediate silhouette
- high frequency of flowers, absent or very weak anthocyanin coloration inner side of flower corolla
- sprouts are medium to large conical, strong intensity of anthocyanin coloration and strong to medium pubescence of base; medium to large terminal bud with strong to very strong anthocyanin coloration of tip; few to medium root tips

Tuber features: Large, oval to long oval
Uniform in shape
White skin with Cream flesh
Shallow eyes
Good resistance to internal bruising
High dry matter content

Tuber dormancy: Long to very long
Maturity: Late (4months)
Yield: Medium (40 t/ha)

Disease resistance: Fairly good resistance to leaf blight, tuber blight and virus Y
Moderately resistant to PLRV
Good resistance to virus A and virus X
Resistant to Ro1 of the potato cyst nematode
Fairly susceptible to common scab
Tolerant to drought

Use: Suitable for chips and crisps
Areas to be grown: Suitable for all potato growing areas
**MAYAN GOLD**

**Plant description**
- is a tall to very tall plant height
- has a spreading growth habit
- high frequency of flowers red violet in colour
- very many frequency of berries
- blue base of light sprout

**Tuber features**
- No skin pigmentation
  - Long, oval
  - Yellow flesh
  - Medium eye
  - Extremely creamy yet dry texture
  - Superb flavor when cooked in its skin

**Tuber dormancy**
- Short

**Maturity**
- Late

**Yield**
- Low (20-30 tons/ha)

**Disease resistance**
- Fairly resistant to late blight on foliage
  - *Phytophthora infestans*, powdery scab
  - *Spongospora subteranea*, PVY and PLRV
- Susceptible to dry rot *Fusarium sulphureum*, potato
cyst nematode *Globodera rostochiensis* Ro1 and
*Globodera pallida* Pa2/3, 1

**Use**
- Chips
  - Roasting

**Areas to be grown**
- Suitable for all potato growing areas
**Plant description**

- is a medium to tall plant with a leaf type foliage structure
- stems semi-upright to spreading and absent or very weak anthocyanin coloration
- medium to large, light to medium green leaves and intermediate silhouette
- absent or very low frequency of flowers, absent or very weak anthocyanin coloration of inner side flower corolla
- sprouts are large, conical, medium intensity of anthocyanin coloration and strong to medium pubescence of base; medium terminal bud with very weak to weak anthocyanin coloration of tip; medium to many root tips

**Tuber features**

Uniform large long oval; yellow, smooth to medium smooth skin; deep yellow flesh; shallow eyes. low to very low dry matter; fairly good resistance to internal bruising

**Tuber dormancy**

Short

**Maturity**

Late

**Yield**

High (60t/ha) optimum crop management

**Disease resistance**

Susceptible to leaf blight; good resistance to potato virus X, and virus Y^n; immune to wart disease resistant to Ro1 and Ro2/3 of the potato cyst nematode; good resistance to common scab

**Use**

Suitable for chips (has an excellent taste)

**Areas to be grown**

Suitable for all potato growing areas
PURPLE GOLD

Plant description:
- medium size plant slightly below 1 meter
- has semi-erect strong stems
- small to medium sized leaves
- purple flower and regular flowering habit
- good storability / resistant to greening
- high tuber uniformity

Tuber features:
- Round tubers
- Dark purple skin
- White flesh
- Shallow eye depth

Tuber dormancy: Long
Maturity: Long (4.0-4.5 months)
Yield: Low (20-35 t/ha)
Disease resistance:
- Moderately resistant to late blight, PLRV
- Resistant to PVX
- Susceptible to PVY
- Tolerant to most soil borne diseases
- Moderately susceptible to leaf miner

Use:
- Mashing
- Boiling
- Roasting
- Chips

Altitude range: 1800-3000 m.a.s.l.
Plant description
- has very good storability
- is a very high yielding variety with high % of big tubers that have perfect qualities for making chips and crisps
- the leaves are dark green and in most cases no flowering occurs, and if it does, the flowers are white with yellow tips
Avoid high dose of Nitrate (N), which will make the variety late maturing

Tuber features:
- Large, round-oval
- Yellow skin
- Pale yellow to yellow flesh
- Shallow eyes
- Fairly good resistance to internal bruising
- Fairly high dry matter

Tuber dormancy:
- Medium to long

Maturity:
- Medium-to- late (3.5 to 4 months)

Yield:
- High (60-80 t/ha under intense management)

Disease resistance:
- Resistant to nematodes and wart diseases, medium blight and scab resistance

Use:
- Mashing
- Boiling
- Roasting
- Chips
- Flakes

Areas to be grown:
- Suitable for all potato growing areas
Plant description
- has high dry matter content
- has good tolerance to drought
- flowers are white with yellow tip

Tuber features:
- Short-oval in shape tubers
- Shallow – medium eye depth
- Yellow slightly netted skin
- Light yellow flesh
- Uniform in grading

Tuber dormancy: Long
Maturity: Medium early
Yield: Medium (50t/ha)
Disease resistance: High resistance to late blight, Potato Virus Y and Potato leaf roll virus
Use: Crisps (very low peeling loss due to tuber shape, excellent frying color and taste, low sugar content)
Areas to be grown: Suitable for all potato growing areas
Plant description
- is a tall plant
- has an intermediate type foliage structure
- stems are upright and strong to very strong anthocyanin coloration
- medium to large, dark green leaves and intermediate silhouette
- medium to high frequency of flowers and strong to very strong anthocyanin coloration inner side flower corolla
- sprouts are medium oval, have strong to very strong intensity of anthocyanin coloration; medium pubescence of base; medium terminal bud with medium anthocyanin coloration of tip; few to medium root tips

Tuber features : Large oval to round oval
  Uniform in shape
  Red smooth to medium smooth skin
  White flesh
  Rather shallow eyes
  Medium dry matter
  Moderately resistant to internal bruising
  Uniform in grading

Tuber dormancy : Long

Maturity : Medium to early (3.5 ± 0.5 months)

Yield : Medium (40 t/ha)

Disease resistance : Susceptible to leaf blight, common scab and PVY
  good resistance to tuber blight
  moderately resistant to potato virus
  immune to wart disease

Use : Suitable for table (mashing, boiling and roasting),
  chips and crisps

Areas to be grown: Suitable for all potato growing areas
SAGITTA

Plant description
- is medium to tall plant
- has intermediate type foliage structure
- semi upright growth habit and medium thick stems with absent or very weak anthocyanin coloration
- high frequency of flowers
- sprout are large, conical with weak to medium intensity of anthocyanin coloration of base small to medium size of the tip

Tuber features: Oval tubers
- Yellow skin
- Light yellow flesh
- Shallow eyes
- Good dry matter content

Tuber dormancy: Medium long (Suitable for second crop)
Maturity: Medium early
Yield: High (70 -75 t/ha)
Disease resistance: Resistant to PCN types *Globodera rostochiensis* and Wart disease fysio I
- Highly resistant to Spraing, tuber blight and PVY
- Tolerant to PVY\textsuperscript{thn} in tuber
- Moderate resistant to foliage blight and common scab
- Good resistance to powdery scab

Use: Multipurpose variety-table, chips and crisps
Areas to be grown: Suitable for all potato growing areas
SARPO MIRA

Plant description
- Has a unique high resistance against blight that allows growing without treatment of fungicides
- Perfect variety for small farmers and professional growers as variety can go to fresh market and industry
Avoid high dose of Nitrate (N), which will make the variety late maturing

Tuber features: Large, long-oval
Uniform in shape
Red skin
Pale yellow flesh
Shallow eyes
Medium to high dry matter content

Tuber dormancy: Medium
Maturity: Medium-to-medium late (3.5 to 4 months)
Yield: Medium (45 t/ha)
Disease resistance: Extremely good resistance to late blight (no spraying against blight needed) and virus
Strong tolerance against drought
Use: Suitable for table (Mashing, boiling and roasting) chips, and flakes
Areas to be grown: Suitable for all potato growing areas
SAVIOLA

**Plant description**
- is a strong plant
- has a purple flower
- good initial development
- can be grown as an early main crop as it is high yielding
- the plant has a good heat resistance

**Tuber features**
- Large
  - Long oval
  - Uniform in shape
  - Yellow skin
  - Cream flesh
  - Very shallow eyes
  - Medium dry matter content

**Tuber dormancy**
- Short

**Maturity**
- Early main crop (3.5 ± 0.5 months)

**Yield**
- Medium (42.5 t/ha)

**Disease resistance**
- Resistant to virus Y"m, Y"m
  - and late blight

**Use**
- Strong firm cooking
  - Mashing
  - Boiling
  - Roasting

**Areas to be grown**
- Suitable for all potato growing areas
SHANGI

Plant description
- is a highly prolific, versatile use
- about 1 meter high
- broad leaves which are light green in colour
  without anthocyanin pigmentation on the mid rib
- has an upright growth
- flowers are abundant

Tuber features: Oval tubers
    Uniform in grading
    Cream skin
    White flesh
    Medium to deep eye with pink pigmentation

Tuber dormancy: Very short

Maturity: Medium (3-4 months)

Yield: Low (30-40 t/ha)

Disease resistance: Moderately susceptible to late blight

Use: Mashing
    Boiling
    Roasting
    Chips

Altitude Range: 1500-2800 m.a.s.l.
SHEREKEA

Plant description:
- is a medium sized potato plant (slightly below 1 meter)
- has strong semi erect-stems
- dark green, small to medium sized leaves
- very abundant light purple flowers and regular flowering habit
- high number of tubers per plant
- good storability
- high dry matter content

Tuber features: Oblong/round tubers
Red skin
Cream flesh, red-violet under diffuse light store
Medium eye depth

Tuber dormancy: Long
Maturity: Medium (3.5-4.0 months)
Yield: Medium (40-50 t/ha)
Disease resistance: Very strong horizontal resistance to late blight
Resistance to PVY and PLRV
Moderately susceptible to leaf miner

Use: Good for table (boiling, roasting and mashing) crisps, chips

Altitude range: 1800-3000 m.a.s.l.
Plant description
- is a medium to tall plant with intermediate type foliage structure
- stem exhibits upright to semi upright growth habit and weak anthocyanin coloration
- medium to high frequency of flowers, absent or very weak anthocyanin colouration inner side flower corolla
- sprouts are large, spherical, have medium to strong intensity of anthocyanin coloration, strong to medium pubescence of base; large terminal bud with medium anthocyanin coloration of tip; very few to few root tips

Tuber features: Round to round oval
Yellow, smooth skin
Pale yellow flesh
Rather shallow eyes

Tuber dormancy: Long
Maturity: Medium (4months)
Yield: Good

Disease resistance: Very good resistance against virus Y
Good resistance against tuber blight
Moderately resistant against leaf blight, common scab, and internal bruising
Resistant to potato cyst nematode Ro1

Use: Crisps
Areas to be grown: Suitable for all potato growing areas
**Plant description**
- is a tall variety
- has an upright stem
- light green leaves
- the stems are usually thick in structure
- produce white flowers
- high dry matter content

**Tuber features**
- Long-oval
- White smooth skin
- Pale yellow flesh
- Shallow eyes
- Poor tuber storage
- Turns colour with exposure to light

**Tuber dormancy**
- Short

**Maturity**
- Medium (3-4 months)

**Yield**
- Low to medium (35-45 t/ha)

**Disease resistance**
- Tolerant to late blight

**Use**
- Chips
- Mashing
- Boiling
- Baking
- Roasting

**Areas to be grown**: 1800 - 2600 m.a.s.l
Plant description

- is a strong plant with good initial development
- plant has a white flower
- can be used for organic farming due to its high rate blight resistance

Tuber features: Oval, medium tuber size
- Yellow skin
- Light yellow flesh
- Fairly shallow eyes
- High dry matter content

Tuber dormancy: Medium

Maturity: Late (4 months)

Yield: Low (30 - 40 t/ha) uniform in grading

Disease resistance: Very high resistance to late blight and $Y^{nm}$ virus

Use: Excellent baking
- Table variety (mashing, boiling, roasting)
- Chips
- Crisps

Areas to be grown: Suitable for all potato growing areas
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Good Information / Quotes:
Seed pays it does not cost! Buy certified seed!
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