Our journey to offer the complete solution begins with provision of Amiran Seeds. To boost your harvest you will require quality seeds as well as advanced technology adjusted to customer needs and capacity. The seeds are selected from renowned and leading seeds producers and breeders and do represent the highest quality brand of seeds for both greenhouse and open field production. Our seeds meet each and every international seed testing standards. Amiran Kenya represents the top seeds brands in Israel as well as Europe.

We ensure value and success in the seeds we provide. We ensure that our farmers grow the best of the seeds varieties sought out by consumers all over the world.

The responsiveness and credibility of our well trained agronomists makes it worthwhile to own up the Amiran seeds. Our vision is to contribute to the growth of agribusiness in Kenya, improve livelihoods as well as marketing of high quality vegetable seeds varieties.

Amiran seeds are used by many of our esteemed customers such as:

1. Export farmers.
2. Small scale farmers throughout Africa
3. NGOs and CBO’s

Amiran seeds are the seeds provided in the award winning Amiran Farmer’s Kit (AFK) which received the MDG award for the eradication of extreme poverty & hunger in 2010, and for Youth Empowerment in 2011, from the MDG Trust Fund sponsored by UNDP.

Seeds Department Manager

<table>
<thead>
<tr>
<th>NAME</th>
<th>TELEPHONE</th>
<th>E-MAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omry Karplus</td>
<td>0731 035 705</td>
<td><a href="mailto:omry@amirankenya.com">omry@amirankenya.com</a></td>
</tr>
</tbody>
</table>

Deputy Department Manager and Large Scale Farm Agronomist

<table>
<thead>
<tr>
<th>NAME</th>
<th>TELEPHONE</th>
<th>E-MAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zipporah Maluvu</td>
<td>0735 590 301</td>
<td><a href="mailto:zipporah@amirankenya.com">zipporah@amirankenya.com</a></td>
</tr>
</tbody>
</table>

Seeds Technical Support

<table>
<thead>
<tr>
<th>SUB - AREA</th>
<th>AGRONOMIST</th>
<th>TELEPHONE</th>
<th>E-MAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nairobi, Eastern, Coast</td>
<td>Douglas Mwikya</td>
<td>0715 645 083</td>
<td><a href="mailto:Douglas.Mwikya@amirankenya.com">Douglas.Mwikya@amirankenya.com</a></td>
</tr>
<tr>
<td>Mt. Kenya</td>
<td>Micheal Wambua</td>
<td>0727 374 283</td>
<td><a href="mailto:Micheal.Wambua@amirankenya.com">Micheal.Wambua@amirankenya.com</a></td>
</tr>
<tr>
<td>Rift Valley &amp; Western</td>
<td>Leah Mutai</td>
<td>0729 985 475</td>
<td><a href="mailto:Leah.Mutai@amirankenya.com">Leah.Mutai@amirankenya.com</a></td>
</tr>
<tr>
<td>Amiran Seeds Shop</td>
<td>Adrian Mwithi</td>
<td>0733 331 164</td>
<td><a href="mailto:Adrian.Mwithi@amirankenya.com">Adrian.Mwithi@amirankenya.com</a></td>
</tr>
</tbody>
</table>

Sales Representative - Monsanto

<table>
<thead>
<tr>
<th>NAME</th>
<th>TELEPHONE</th>
<th>E-MAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jane Mulang’a</td>
<td>0727 373 954</td>
<td>Jane.Mulang’<a href="mailto:a@amirankenya.com">a@amirankenya.com</a></td>
</tr>
</tbody>
</table>

Portfolio - Monsanto

<table>
<thead>
<tr>
<th>NAME</th>
<th>TELEPHONE</th>
<th>E-MAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin Karanja</td>
<td>0704 386 744</td>
<td><a href="mailto:Martin.Karanja@amirankenya.com">Martin.Karanja@amirankenya.com</a></td>
</tr>
</tbody>
</table>
# TABLE OF CONTENTS:

## SEEDS
- **TOMATO** ................................................................. 4 - 5
- **PEPPER** ................................................................. 6 - 7
- **CUCUMBER** ............................................................ 8
- **LETTUCE** .............................................................. 9
- **CABBAGE** .............................................................. 10
- **SWEET MELON** ...................................................... 11
- **WATER MELON** ...................................................... 12
- **ONION** ................................................................. 13
- **EGGPLANT** .......................................................... 14
- **SPINACH** .............................................................. 15
- **SALAD ONION** ...................................................... 15
- **PAKCHOI** .............................................................. 15
- **BUNCHING ONION** ............................................... 15
- **BROCCOLI** ........................................................... 16
- **PEA** ...................................................................... 17
- **BEAN** ................................................................. 18 - 20
- **OPEN FIELD VARIETIES (VEGETABLES)** .............. 22 - 24

## HERBS
- **BASIL** ................................................................. 26
- **CHIVES** ............................................................... 27
- **OREGANO** ........................................................... 27
- **ROCKET** .............................................................. 27
- **DILL** ................................................................. 28
- **PARSLEY** ............................................................ 28
- **CORIANDER** ......................................................... 29
- **OTHER HERBS** .................................................... 30

## OTHER INFO
- **XTEND SHELF LIFE BAGS** ................................... 31 - 33
- **1000 GRAM WEIGHTS** ......................................... 34
- **SEED CULTIVATION DATA** .................................... 35 - 36
- **IMPORTANT NOTICE** ........................................... 37
INDEX FOR RESISTANCES

TYLCV: Tomato Yellow Leaf Curl Virus
ToMV: Tomato Mosaic Virus
TSWV: Tomato spotted wilt virus
Stemphylium

For: Fusarium crown & root rot
Fol: Fusarium (race 1,2)
Pst: Bacterial speck
Ma: Nematode
ToMV: Tobacco mosaic virus
Vd: Verticilum wilt

INDETERMINATE FOR GREENHOUSE PRODUCTION (OVAL FRUIT SHAPE)

CLAUDIA F1
Description
- Extended shelf life
- Good firmness
- Indeterminate hybrid variety
- Greenhouse / Outdoor production
- Staking growing system
SHAPE: Oval
WEIGHT(Gr): 110 - 150
Resistances
- TYLCV
- For
- Ma
- Fol
- ToMV

EVA F1
Description
- Indeterminate hybrid variety
- Extended shelf life
- Good resistance to cracking
- Flower setting at high temperatures
- Greenhouse / Net house production
- Staking growing system
- Flower setting at high temperatures
SHAPE: Oval
WEIGHT(Gr): 160 - 200
Resistances
- Vd
- Fol
- Ma
- ToMV
- Pst

CORAZON F1
Description
- Extended shelf life
- Good resistance to cracking
- Indeterminate hybrid variety
- Greenhouse / Net house production
- High yielding
- Staking growing system
SHAPE: Oval
WEIGHT(Gr): 130 - 180
Resistances
- Vd
- Fol
- Pst
- Ma
- TMV
- TSWV
- TYLCV
**INDETERMINATE FOR GREENHOUSE PRODUCTION (ROUND FRUIT SHAPE)**

**PRIMADONA F1**
- Indeterminate hybrid variety
- Extended shelf life
- Compact but strong plant
- Suitable for long cycle production
- Very flavorful beef type fruit.
- Greenhouse / Net house production
- Staking growing system

SHAPE: Globe
WEIGHT (Gr): 300 - 350

**Description**
- Indeterminate hybrid variety
- Extended shelf life
- Adaptable to difficult conditions
- Very high yielding
- Greenhouse / Net house production
- Staking growing system

**Resistances**
- Fol
- ToMV

**SHAPE: Round**
WEIGHT (Gr): 200 - 250

**YAARA F1**
- Indeterminate hybrid variety
- Extended shelf life
- Adaptable to difficult conditions
- Very high yielding
- Greenhouse / Net house production
- Staking growing system

SHAPE: Globe
WEIGHT (Gr): 10 - 20

**Description**
- Nice cluster
- Deep red colour
- Greenhouse Variety

**Resistances**
- Vd
- Fol
- ToMV

**SHAPE: Oval shape**
WEIGHT (Gr): 20
PLANT VIGOR: Medium
RELATIVE MATURITY: Medium

**INDETERMINATE CHERRY TOMATO**

**CHERRY RED BEAUTY F1**
- Indeterminate hybrid variety
- Extended shelf life
- Compact but strong plant
- Suitable for long cycle production
- Very flavorful beef type fruit.
- Greenhouse / Net house production
- Staking growing system

SHAPE: Globe
WEIGHT (Gr): 150 - 180

**Description**
- Nice cluster
- Deep red colour
- Greenhouse Variety

**Resistances**
- Vd
- Fol
- ToMV

**SHAPE: Oval shape**
WEIGHT (Gr): 140 - 160/fruit
PLANT VIGOR: Medium
RELATIVE MATURITY: Medium

**LUCI PLUS**
- Indeterminate hybrid variety
- Extended shelf life
- Adaptable to difficult conditions
- Very high yielding
- Greenhouse / Net house production
- Staking growing system

SHAPE: Oval
WEIGHT (Gr): 130 - 180
PLANT VIGOR: Medium
RELATIVE MATURITY: Medium

**Description**
- Very good taste
- Intense red color
- Greenhouse Variety
- Very Good Shelf Life

**Resistances**
- Vd
- Fol (race 1, 2)
- ToMV
- Ma
- Pst
- Si

**SHAPE: Oval**
WEIGHT (Gr): 140 - 160/fruit
PLANT VIGOR: Medium
RELATIVE MATURITY: Medium

**DETERMINATE FOR OPEN FIELD PRODUCTION (OVAL FRUIT SHAPE)**

**GALILEA F1**
- Open field, Bush & staking growing system
- Good leaf coverage
- Extended shelf life
- Determinate hybrid variety

SHAPE: Oval
WEIGHT (Gr): 150 - 180

**Description**
- Open field, Bush & staking growing system
- Good leaf coverage
- Extended shelf life
- Determinate hybrid variety

**Resistances**
- Vd
- Fol (race 1, 2)
- Ma
- ToMV
- Pst

**SHAPE: Oval**
WEIGHT (Gr): 140 - 160/fruit
PLANT VIGOR: Medium
RELATIVE MATURITY: Medium

**GALILEA F1 IMPROVED**
- Open field staking and bush
- Long shelf life
- Very firm
- Determinate Hybrid Variety
- Excellent red colour
- Very strong plant
- Field resistance to powdery mildew

SHAPE: Oval
WEIGHT (Gr): 140 - 160/fruit

**Description**
- Open field staking and bush
- Long shelf life
- Very firm
- Determinate Hybrid Variety
- Excellent red colour
- Very strong plant
- Field resistance to powdery mildew

**Resistances**
- Vd
- Fol (race 1, 2)
- ToMV
- TYLCV
- Ma
- Pst

**SHAPE: Oval**
WEIGHT (Gr): 140 - 160/fruit
PLANT VIGOR: Medium
RELATIVE MATURITY: Medium

**SHANTY F1 + N**
- Very early maturity
- Determinate hybrid variety
- Open field production
- Very high tolerance to nematodes
- Extended shelf life

SHAPE: Oval
WEIGHT (Gr): 130 - 180
PLANT VIGOR: Medium
RELATIVE MATURITY: Medium

**Description**
- Very early maturity
- Determinate hybrid variety
- Open field production
- Very high tolerance to nematodes
- Extended shelf life

**Resistances**
- TYLCV
- Vd
- Fol
- Pst
- Ma
- TSWV

**SHAPE: Oval**
WEIGHT (Gr): 140 - 160/fruit
PLANT VIGOR: Medium
RELATIVE MATURITY: Medium

**SHANTY F1 IMPROVED**
- Open field bush or staking
- Regular shelf life

SHAPE: Oval
WEIGHT (Gr): 140 - 160/fruit
PLANT VIGOR: Medium
RELATIVE MATURITY: Medium

**Description**
- Open field bush or staking
- Regular shelf life

**Resistances**
- Vd
- Fol (race 1, 2)
- ToMV
- ToTV
- TYLCV
- TSWV
- Ma
- Pst

**SHAPE: Oval**
WEIGHT (Gr): 140 - 160/fruit
PLANT VIGOR: Medium
RELATIVE MATURITY: Medium
INDEX FOR RESISTANCES

ToMV: Tomato Mosaic Virus

PMMoV: Pepper Mild Mottle virus

TSWV: Tomato spotted wilt

GOLDEN SUN F1
Description
- Extended shelf life
- 3 lobes in fruit
- Blocky
- Medium Fruit walls
- Greenhouse/nethouse Production

FRUIT COLOR: Yellow(Gold), Green-Yellow
FRUIT SIZE W/L(CM): 9 x 9
PLANT HEIGHT: Upright

Resistances
- ToMV

ORANGE PEPPER GLOW F1
Description
- Extended shelf life
- 3 lobes in fruit
- Blocky
- Medium Fruit walls
- Greenhouse/nethouse Production

FRUIT COLOR: Yellow(Gold), Green-Yellow
FRUIT SIZE W/L(CM): 9 x 9
PLANT HEIGHT: Upright

Resistances
- ToMV

GRANDISIMO F1
Description
- Extended shelf life
- Good fruit set in low temps.
- Greenhouse/nethouse Production
- 3 lobes in fruit
- Blocky
- Strong plant

FRUIT COLOR: Dark Green - Red
FRUIT SIZE W/L(CM): 11 x 10
PLANT HEIGHT: Upright

Resistances
- ToMV

TOP 168 EVERGREEN F1
Description
- Extended shelf life
- Good fruit set in various climatic conditions
- Slot - hot to cold, for indoor (net houses or greenhouses) production
- Medium Fruit walls
- Blocky

FRUIT COLOR: Evergreen
FRUIT SIZE W/L(CM): 11 x 10

Resistances
- ToMV
## HOT PEPPER HYBRID

### INDEX FOR RESISTANCES

**TMV**: Tobacco Mosaic Virus  
**PVY**: Potato virus Y

### HOT PEPPER 212 F1

**Description**
- Extended shelf life
- Early relative maturity
- Mainly for open field
- Very high quality-Export quality
- Very hot

**FRUIT COLOR**: Ivory - Red  
**FRUIT SIZE W/L (CM)**: 3 x 10  
**PLANT HEIGHT AND HABIT**: Upright

**Resistances**
- TMV
- PVY

### HOT CAYENNE

**Description**
- Extended shelf life
- Open pollinated variety
- When the fruits are ripe they turn dark red and very glossy
- Suitable for the local market and also export

**FRUIT COLOR**: Green-Red  
**PLANT HEIGHT AND HABIT**: Spreading

### SUPER HABANERO F1

**Description**
- Extended shelf life
- Strong vigour
- Late relative maturity

**FRUIT COLOR**: Green-Red  
**FRUIT SIZE W/L (CM)**: 4 x 6  
**PLANT HEIGHT AND HABIT**: Upright

**Resistances**
- TMV

### SERENADE F1

**Description**
- Extended shelf life
- Open Field Production
- Thin Fruit walls

**FRUIT COLOR**: Green-Red  
**FRUIT SIZE W/L (CM)**: 8 x 2  
**PLANT HEIGHT AND HABIT**: Medium Spreading

**Resistances**
- TMV  
- PVY
**CUCUMBER**

**INDEX FOR RESISTANCES**

**Foc:** Fusarium wilt  
**Px(exsf):** Powdery Mildew

<table>
<thead>
<tr>
<th><strong>SARIG F1</strong></th>
<th><strong>CARMEN F1</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td><strong>Description</strong></td>
</tr>
</tbody>
</table>
| • For greenhouse production  
  • Long shelf life  
  • Parthenocarpic type | • Parthenocarpic type  
  • Good shelf life  
  • Greenhouse production  
  • Early Maturing |
| **Resistances** | **Resistances** |
| • Px(exsf) | • Px(exsf) |

**COLOR:** Dark green  
**LENGTH (CM):** 14 - 16  
**SEASON:** All year round  
**COLOR:** Dark green  
**LENGTH (CM):** 30 - 35  
**SEASON:** All year round
LETTUCE

INDEX FOR RESISTANCES

**BI:** Downey mildew

**Pm:** Powdery mildew

### SUPER JERICHO (ROMAINE TYPE)

**Description**
- Excellent eating quality, sweet & crisp, high uniformity
- Indoor & open field production

**COLOR:** Light green

**HEAD SHAPE:** Romaine type

**WEIGHT (GR):** 1000 - 1500 AV.

**MATURITY:** 50 - 55 days from planting

**Resistances**
- Pm & BI

### AVIRAM F1 (ICEBERG TYPE)

**Description**
- Early maturing
- Outdoor/Greenhouse production
- Good heat resistance

**COLOR:** Light green

**HEAD SHAPE:** Slightly flattened globe

**AV. WEIGHT (GR):** 300 - 700

**MATURITY:** 65 - 75 days from seeding

**Resistances**
- Bolting
CABBAGE

INDEX FOR RESISTANCES

**Xcc:** Black rot  
**Foc:** Fusarium Conglutinans

### WHITE CABBAGE LANDINI F1

**Description**
- Early maturing variety, suitable for fresh market and processing
- Good standing ability
- Adapted to various climates

**HEAD SHAPE & COLOUR:** Round, green heads  
**AV. WEIGHT (KG):** 3 - 5  
**MATURITY:** 80 - 100 days after transplanting

**Resistances**
- Xcc  
- Foc

### TAURUS F1

**Description**
- Recommended plant population 25,000 - 35,000 pl/ha.
- Well filled heads with good field holding capacity.
- Strong against bolting & bursting

**HEAD SHAPE & COLOUR:** Round to flat-round, blue green heads  
**AV. WEIGHT (KG):** 4 - 6  
**MATURITY:** 100 - 110 days after transplanting

**Resistances**
- Xcc  
- Foc

### ROMUS F1

**Description**
- Recommended plant population 45,000 - 50,000 pl/ha.
- Very good standing ability.
- Good tolerance to bolting and cracking.
- Medium plant size with little wrapper leaves
- Very flexible variety
- Very good field standing ability
- Very uniform fruits
- Year around transplanting

**HEAD SHAPE & COLOUR:** Round shaped heads with medium red colour.  
**AV. WEIGHT (KG):** 1.5 - 2  
**MATURITY:** 75 days after transplanting

**Resistances**
- Xcc  
- Foc

### NIZ 1043 F1

**Description**
- Very flexible variety.
- Good standing ability.
- High Resistance to Fusarium conglutinans(YR).
- Well suited for the earliest processing slot.

**HEAD SHAPE & COLOUR:** Round shaped, green head  
**AV. WEIGHT (KG):** 3 - 4.5 (depending on planting density)  
**MATURITY:** 85 days after transplanting

**Resistances**
- Xcc  
- Foc
SWEET MELON

INDEX FOR RESISTANCES
PcU: Downy Mildew
Sf: Powdery mildew
CMV: Cucumis mosaic virus
MNSV: Muskmelon Necrotic Spot Virus
Fom: Fusarium wilt

GALIA F1
Description
- For outdoor and greenhouse production
- Very good netting
RIND: Yellow-Orange
WEIGHT (KG): 1-1.2

Resistances
- PcU
- CMV

GALIA F1 IMPROVED
Description
- Very sweet taste with pleasant aroma.
- Small seed cavity.
- Light green flesh color
- Very good netting
- Long shelf-life
- Bush growth undercover and open field

Skin color: Yellow
Days from planting to harvest: 75
Ave. sd/gr.: 43
Ave. Fruit weight: 1.5Kg
Fruit Shape: Round

Resistances
- Fom 0, 1, 2
- MNSV
- PMT

6023 RANI
Description
- Good taste and aroma- Export quality
- Early maturity, suitable for early season
- High yield, uniform size
- High disease resistance
- Open field, greenhouse, trellised

Plant Description: Vigorous
Relative maturity: Early
Flesh Color: Green
Shelf life: Good

Growing Season: Early spring/Spring
Fruit Shape: Round
Average Weight: 1-1.3kg
Brix %: 11-12
### ODEM F1
**Description**
- Firm, dark brown seeds
- Good shelf life
- Very early maturing

**SHAPE:** Oval  
**RIND:** Very Dark green  
**WEIGHT (KG):** 7 - 8  
**FLESH:** Red

### RIVER SIDE - 6801 F1
**Description**
- Matures in the Mid-season  
- Deep red flesh

**SHAPE:** Oblong to elongated  
**RIND:** Wide dark stripes  
**WEIGHT (KG):** 11 - 13  
**FLESH:** Deep red, Crisp and very sweet

### LARAY F1
**Description**
- Has very high brix  
- High yielding  
- Good shelf life

**SHAPE:** Oblong  
**RIND:** Dark green with dark green stripes  
**WEIGHT (KG):** 9 - 11  
**FLESH:** Deep red, sweet, soft & crisp

### MARIDADI F1
**Description**
- Relatively early maturing,  
- Uniform  
- High marketable fruit yield,  
- Well established hybrid in East African region

**SHAPE:** Oval to oblong  
**RIND:** Dark green stripes  
**WEIGHT (KG):** 8 - 10  
**FLESH:** Excellent, sweet taste
### SIVAN F1
**Description**
- Slightly pungent
- Pink flesh
- Very high yield
- Delicious sweet taste

**Resistances**
- Pt

**Description**
- Skin: Light brown - pink
- Shape: Globe
- Relative Maturity: Very early
- Months Storage: 4 - 5

### NEPTUNE F1
**Description**
- High yielding
- Firm shining red bulbs
- Good pungency
- Good for salads
- Extended shelf life

**Resistances**
- Pt

**Description**
- Skin: Deep red
- Shape: Flattened globe
- Relative Maturity: Mid late
- Months Storage: 5 - 6

### ROGUE F1
**Description**
- Good for salads
- Extended shelf life

**Resistances**
- Pt

**Description**
- Skin: Red
- Shape: Globe
- Relative Maturity: Early
- Months Storage: 4 - 5

### RUSSET F1
**Description**
- Very firm, red flesh color
- Strong plant vigor

**Resistances**
- Pt

**Description**
- Skin: Red
- Shape: Granex - round
- Relative Maturity: Early
- Months Storage: 3 - 3.5
EGGPLANT

BLACK BEAUTY F1
Description
- Grows best in hot areas
- Has white meaty flesh
- Keeps well after picking
- Hardy Crop
- Can be sold in the export and local market
- Good shelf life.

Relative Maturity: 75 days
Color: Glossy purple to almost black
Shape: Round

KABERI F1
Description
- Long shelf life. Vigorous growing
- Bushy to medium plant
- Fruits are in clutters
- Very prolific
- Has wide adaptability
- Export quality

Relative Maturity: 55 days
Color: Glossy and shining with green calyx
Shape: Oval high
Weight: 50-60g

TAMMI F1
Description
- Long shelf life (very firm)
- Open field production system
- Vigorous growing
- Semi erect plant
- Has wide adaptability
- Export quality

Relative Maturity: 75 days
Color: Shiny purplish black with green calyx
Shape: Elongated oval
Type: Ravaya
Length: 18-20cm
Weight: 50-60g
SPINACH

INDEX FOR RESISTANCES
Pfb: Downy mildew

BABY SPINACH PALCO F1
Description
- Has long harvesting period
- Fast growing
- Large and thick leaves

COLOUR: Dark green thick leaves

SALAD ONION

DAMAS
Description
- Late bolting

BABY SPINACH PALCO F1
Description
- Has long harvesting period
- Fast growing
- Large and thick leaves

COLOUR: Dark green thick leaves

PAKCHOI

PAKCHOI CHOKO/SHUKO
Description
CHOKO: Growing vigorously, suitable for summer cropping.
SHUKO: Suitable for Autumn-Spring sowing, vigorous and uniform.

PAKCHOI CHOKO/SHUKO
Description
- Maturity: 70
- Stem size: 1.3
- Stem type: Mono
- Leaf color: Dark green

BUNCHING ONION

Natsuyo
Description
- Bunching onion with very dark green, tight upright foliage and a white shaft, good for bunching. High harvesting productivity due to uniform, medium-coarse plants and a high cleaning efficiency. Compact growth habit for year round cultivation in open fields.

COLOUR: Dark green thick leaves
**SAKURA F1**

**Description**
- MATURITY: 70 days
- PLANT SIZE: Medium
- HEAD COLOUR: Green
- HEAD SHAPE: High dome
- HEAD TIGHTNESS: Tight
- BEAD SIZE: Small
- CROPPING: Summer-early Autumn

**AMY F1**

**Description**
- New green tender stem broccoli type for multiple harvest.
- Healthy plant produces smooth stems, with excellent flavour.
- Take out primary head at 2-3 cm then harvest side shoots regularly every 2-3 days for continuity.
**SNAP PEA CASCADIA**

Description
- Recommended plant population of 500,000 pl/ha is optimal for this variety.
- Suitable for Fresh market & pre-packing
- Generally acceptable disease tolerance.

POD SHAPE: Slightly curved, pointed & smooth
COLOUR: Medium green
LENGTH: 7 cm
PODS PER NODE: 2
KERNELS / POD: 7-8
FLOWER COLOUR: White
PLANT GROWING HABIT: Normal type
VINE LENGTH: 90 cm
YIELD: Fairly well concentrated pod set
MATURITY: Medium - 86 - 90 days

**GARDEN PEA GREEN FEAST**

Description
- Recommended plant population of 500,000 pl/ha is optimal for this variety.
- Suitable for Fresh market
- Generally acceptable disease tolerance.

POD SHAPE: Slightly curved, pointed & smooth
COLOUR: Medium green
LENGTH: 8.5 cm
PODS PER NODE: 2
KERNELS / POD: 6 - 7
FLOWER COLOUR: White
PLANT GROWING HABIT: Normal type
VINE LENGTH: 70 - 80 cm
YIELD: Fairly well concentrated pod set
MATURITY: Medium - 70 - 75 days

**GARDEN PEA DESIGN**

Description
- Stable, proven yielder.
- Determinate, early and main crop variety
- 4 – 5 levels of harvestable pods.
- Product with good taste, colour and quality.
- Strong and vigorous plant.
- Good root system and outstanding stress tolerance.

POD COLOUR: Dark green
LENGTH: 8.5 cm
PODS PER NODE: 3
KERNELS / POD: 7 - 8
TOLERANCE: Fusarium Race 1

<table>
<thead>
<tr>
<th>Sieve size by a TM 110</th>
<th>5</th>
<th>25</th>
<th>45</th>
<th>25</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;8.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.2-9.3%</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.3-10.2%</td>
<td>45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;10.2</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## BEANS

### INDEX FOR RESISTANCES

<table>
<thead>
<tr>
<th>Virus/Infection</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCMV: Bean common mosaic virus</td>
<td>For export and fresh market</td>
</tr>
<tr>
<td>Cl: Anthracnose</td>
<td>For export and fresh market</td>
</tr>
</tbody>
</table>

### SAONE (FINE VARIETY)

**Description**
- For export and fresh market
- Culture: Open field and under plastic tunnels
- Very high yielding
- An easy pick
- Uniform product
- Extended shelf life

**Plant Characteristics**
- Upright
- Well developed root system
- Well adapted for fresh harvests

**Resistances**
- BCMV
- Cl

**Pod Characteristics**
- Straight
- Average sieve size by maturity is 6.5-8.0 mm.
- Stringless variety
- Very fleshy & does not show seeds in maturity stage

**COLOR:** Brilliant darkgreen

**LENGTH:** 12.5 cm

### SOURCE (EXTRA FINE VARIETY)

**Description**
- For export and fresh market
- Culture: Open field and under plastic tunnels
- Very high yielding
- An easy pick
- Uniform product
- Extended shelf life

**Plant Characteristics**
- Vigorous variety
- Leaves have are darkgreen
- Mid-early variety.
- Has several flowering and pod setting data that makes the variety suitable for several harvests

**Resistances**
- BCMV
- Cl

**Pod Characteristics**
- Nice straight pods
- Average sieve size 90%>6.5mm & 10% 6.5-8.0mm
- Remains fresh for a long time after harvest

**COLOR:** Dark green

**LENGTH:** +/- 11 cm
INDEX FOR RESISTANCES

**BCMV**: Bean common mosaic virus  
**CL**: Anthracnose

---

**SULTANA**

**Description**
- For export & fresh market
- Culture: Open field and under plastic tunnels
- High yielder
- Uniform product.
- Easy to pick
- Extended shelf life

**Plant Characteristics**
- Vigorous upright plant.
- Leaves have are dark shiny green.
- Mid-early variety.
- Strong root system.
- The plant has a spread flowering and pod setting which makes the variety suitable for several manual harvests.

**COLOR**: Dark shiny green  
**HEIGHT(CM)**: 50-55CM  

**Resistances**
- BCMV
- CL

**Pod Characteristics**
Nice straight pods.  
Average sieve size 80% 9-10,5 mm 20% 8-9mm.  
Remains fresh for a long time after harvest.  
Stringless variety.  
**COLOR**: Dark shiny green  
**LENGTH(CM)**: 14.5 cm

---

**RIO GRANDE**

**Description**
- Very well adapted for multiple handpickings.
- Gives an excellent yield even under stress-circumstances.
- Adapted for canning and freezing.
- Disposes an outstanding fruit quality.

**Plant Characteristics**
- A strong plant habit.
- Leaves are mid-darkgreen.
- The variety is mid-early and well adapted for early sowings.
- Rio Grande doesn’t give an uniform flowering which means varies pod-setting and as a consequence adapted for several manual harvest-pickings.

**COLOR**: Dark shiny green  
**HEIGHT(CM)**: 48-55CM

**Resistances**
- BCMV
- CL

**Pod Characteristics**
- Shows anthocyane on the pods but will disappear completely after cooking.
- Genetically colored seeds have a better taste which is very typical for Rio Grande.
- Harvested in a young stage it can reach easily 95% very fine sieve sizes <6,5 mm.
- The variety is very fleshy and has a good self-live.
- No pod-string formation in maturity stage.
INDEX FOR RESISTANCES

**BCMV**: Bean common mosaic virus

**Cl**: Anthracnose

### ASR 1103

**Description**
- Easy to pick.
- High yield.
- Uniform product and in maturity.
- Very low % of stems and branches and so well adapted for mechanical harvest.

**Plant Characteristics**
- Variety suitable for different soil types.
- Strong root system.
- Mid-early variety.

COLOR: Dark Green Leaves
HEIGHT(CM): 45 - 50CM

**Pod Characteristics**
- Very straight pods, 12-13 cm length.
- Early length and therefore flexible to harvest.
- Dark green pods.
- Mono caliber : sieve size 100% < 6,5mm .
- Firm fleshy pods.
- Good self life.
- Stringless variety.
- Good Heat tolerance.

### ASS 1204

**Description**
- Easy to pick.
- Reliable good yielder.
- Uniform and nice product.

**Plant Characteristics**
- Erected and sturdy plant.
- Rather open plant.

COLOR: Mid Green Leaves
HEIGHT(CM): 48 - 57CM

**Pod Characteristics**
- Straight pod, nice darkgreen and brilliant colour.
- Mono sieve size 100% < 8/9 mm.
- Pod length 12.5 – 13.5 cm.
- Fleshy and firm pods.
- Good long self life capacities.
# INDEX FOR RESISTANCES

**BCMV:** Bean common mosaic virus  
**Cl:** Anthracnose

## ASR 1207

<table>
<thead>
<tr>
<th>Description</th>
<th>Resistances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easy pick.</td>
<td>BCMV</td>
</tr>
<tr>
<td>Adapted to multiple manual pickings.</td>
<td>Cl</td>
</tr>
<tr>
<td>Nice and uniform product.</td>
<td></td>
</tr>
</tbody>
</table>

**Plant Characteristics**

- Sturdy plant.
- Excellent root system.

**COLOR:** Mid to Dark Green Leaves  
**HEIGHT (CM):** 56 - 65CM  
**Pod Characteristics**

- Pod length: 14 cm.
- Mid green pod colour.
- Sieve sizes: 10% < 6.5 mm et 90% 6.5 - 8.0 mm.
- Good long shelf life after harvest.
OPEN POLLINATED VEGETABLE VARIETIES

ONION: RED CREOLE
Description
- It has red globular bulbs.
- Performs well in warm climates.
- Stores well in dry, ventilated conditions.
- Yield potential is 15-28 tonnes/acre.
- Matures in 4.5 - 5 months.
- Has an excellent red colour.
- Can be stored up to six months.
- High yielding.

ONION: TEXAS GRANO
Description
- Excellent onion with good tasting flavour.
- Ideal for fresh salads.
- Mild in Pungency.
- Creamy white internal colour.
- Yield potential 20 tonnes/acre.
- Matures in 100-120 days.
- Big Bulbs.
- Early maturing.

TOMATO: RIO GRANDE
Description
- Open pollinated determinate variety.
- Takes on a dark red colour at maturity.
- Tolerant to verticillium wilt and fusarium wilt (Races 1 and 0).
- Firm and tasty fruits.
- High dry matter content.
- Oval and heavy fruits.

TOMATO: CAL J
Description
- Determinate variety (Bushy type).
- Deep Red in Colour.
- Oval and heavy fruit.
- Firm and tasteful fruit suited for fresh market and processing.
- Yields 30-50 tonnes per ha.
- Maturity period 80 days.

CRIMSON SWEET
Description
- Plant spacing 100cm x 100cm.
- The fruits are of medium size, blocky oval is the shape.
- The rind is dark green with broad dark green stripes.
- The flesh is brilliant red, firm with excellent texture and sweetness.
- It matures in about 90-120 days after planting.
- Mature fruit weighs 7-9 kgs.
- Well adapted to different weather conditions.
- Fruit is sweet with a crunchy texture and attractive red flesh.
- Has vigorous growth and fine quality.

WATERMELON: SUGAR BABY
Description
- This is a variety that can be cultivated all year round and is robust in growth.
- It is round in shape black in colour with red sweet flesh.
- The fruit weighs about 7-8 kg.
- It matures in 60-75 days.
- Suitable for shipping and long distance transport.
- Early Maturing.

CUCUMBER: SUPER MARKETER
Description
- Grows well in hot climatic conditions.
- Maturity period is one and a half to two months.
- It yields about 16-32 tonnes per ha.
- Early maturing.
- Very popular in the local market.
- Very high yielding.

PEPPER: CALIFORNIA WONDER
Description
- Blocky shaped fruit
- Thick flesh
- Grown to be harvested green
- Suitable for outdoor production
- 3-4 slightly rounded lobes
- 150-180gms
- Open pollinated variety

ONION: TEXAS GRANO

TOMATO: RIO GRANDE

CRIMSON SWEET

WATERMELON: SUGAR BABY

CUCUMBER: SUPER MARKETER

PEPPER: CALIFORNIA WONDER
OPEN POLLINATED VEGETABLE VARIETIES

OKRA: CLEMSON SPINELESS

Description
- It is grown for its green pod which is the edible part.
- The pods are spineless.
- Grows best in hot areas as a rainfed crop or under irrigation.
- It is very popular for the local market.
- Has a high percentage grade out.

SQUASH: BUTTERNUT

Description
- This is an open pollinated variety.
- Elongated pear shape.
- Fruit colour is creamy tan and the flesh is yellowish orange.
- Early maturing.
- Small seed cavity and therefore more flesh.
- Has unequalled eating qualities.

CHARLESTON GREY

Description
- This is a robust variety that is relatively tolerant to disease and harsh weather.
- The fruit is oblong in shape with light green rind and weighs about 10-16 kgs.
- It has deep red flesh.
- Maturity time 55-60 days.
- It is ideal for fresh market.
- It is sweet juicy and crunchy.
- It is tolerant to Fusarium races 1 and 3 and anthracnose.
- It has high brix, few seeds, compact fruit and resists sunburn.
- The fruit is strong thus good storage and transportation abilities.

LEEK: GIANT CARENTAN

Description
- Shaft colour: white with light green to the top.
- Excellent for fresh market.
- Mild in flavour.
- Shaft length: are 15cm-18cm
- Shaft diameter: is 3 - 3.5 cm.
- Maturity period is 90 days.
- Leaf colour: blue - green
- Leaf habit: erect - fan type
- Plant size: medium
- Frost tolerance: medium
- Generally acceptable disease tolerance.
- Recommended plant population of 200 - 250 000 pl/ha is optimal

CARROT: NANTES IMPROVED

Description
- Coreless and early maturing.
- Flesh is natural sheen, deep orange colour.
- Root is tapered, cylindrical, smooth and fairly long.
- Yield potential is upto 12-36 tonnes/acre
- Matures in 90-120 days.
- High yielding

SQUASH/COURGETTE: BLACK BEAUTY

Description
- Grows best in warm areas with light well drained soils
- It is a directly planted crop
- It is an open pollinated variety
- It is early maturing

SQUASH: AMBASSADOR F1

Description
- Dark green
- Very prolific, Has excellent flavor
- Number of seeds/g:9
- Maturity from transplanting: 45 days
OPEN POLLENATED VEGETABLE VARIETIES

**BEETROOT: RED DETROIT**

*Description*
- This variety is grown for its roots and leaves.
- Does well in relatively cool areas.
- Has a red globular root.
- Matures in 75-90 days.
- Is gaining popularity with nutritionists.

**SWISS CHARDE: FORD HOOK GIANT**

*Description*
- This is an old and popular leafy vegetable variety.
- It is well adapted and thus can grow in a wide range of environments.
- It is resistant to black rot and diamond black moth.
- It is very popular in the local market.
- It has a long harvesting period depending on the amount of nutrients supplied and field hygiene practiced.
- The leaves are long and broad.

**KALE: THOUSAND HEADED**

*Description*
- This is a continuous growing and hardy crop that is tolerant to cold temperatures.
- It has a thick stem with big leaves that are dark green, smooth and attractive.
- It matures between 90-100 days.
- Variety is continuously growing and can stay in the field for a long time, therefore giving a higher production.
- Can also be used as fodder for animals.
- Easily digestible.
- Easy to cook.

**EGG PLANT: BLACK BEAUTY**

*Description*
- Also known as Brinjals or Aubergines.
- It grows best in hot areas.
- Has large sized round fruits which are glossy purple to almost black in colour.
- It has white meaty flesh and keeps well after picking.
- It is a hardy crop.
- Very attractive purple colour.
- Big in size.
- Can be sold in the export and local market.
- Good Shelf life.

**COLLARD: SOUTHERN GEORGIA**

*Description*
- It is a very popular seed variety grown across Africa.
- It has been developed to give high yields while holding up to six months before flowering thus profitable to the farmer.
- The leaves are well flavored and easy to cook.
- Very popular in the local market.
- Variety is adapted to hot areas that means it can do well in most parts of Kenya.
- It is hardy and resistant to heat and black rot.
HERBS
BASIL

INDEX FOR RESISTANCES
Fob: Fusarium wilt

AROMA 2
Leaf Attributes
- Medium size: 5-6cm. (2-2.5”)
- Excellent light green color
- Spoon type shape
- Smooth texture
- Delicate taste
- Pleasant Aroma

Resistances
- Fob
- Bolting

Plant Attributes
Productive, vigorous vegetation
50-60cm (20-24”)
Compact growth habit
Good for container production
Multi harvest
Early productive stand
Indoor and open field production

GENOVESI TYPE
Bonazza
Leaf Attributes
- Shiny, dark green

Plant Attributes
- Long Shelf life after cutting
- Very good handing and transport capabilities
- Suitable for fresh market and processing

SMALL LEAVED BASIL
Pluto
- Basil with small leaves.
- Well branched variety
- High yielding
- Very aromatic

THAI BASIL
Sita
- Thai basil with a very good, sweet aromatic taste and exotic fragrance.
- Flavour stable under high/extended cooking temperature.
- Small narrow leaves

RED BASIL
Deep Purple
- Dark purple basil with good vibrant color and uniform stand.
### CHIVES

**CHIVES PRAGUE IMPROVED**

**Description**
- Very fine blades
- Vigorous and upright growth
- Excellent for fresh market
- Dark green selection

### OREGANO

**ZATAAR**

**Leaf Attributes**
- Soft oval green leaves
- Sharp Oregano aroma and flavour
- Classic Tymol type essential oils: 22.4% Carvacrol & 50.3% Tymol
- Used for centuries in the mediterranean as culinary and medicinal herb

**Plant Attributes**
- Perennial bushy, evergreen crop
- Semi-upright growing habit
- Very hardy
- Radial size: 40X40cm. (16X60")
- Harvest height: 15-20cm. (6X8")
- Miniature white edible flowers
- Thousand seed weight: 0.22gr.

**Maturity:**
90–95 days from planting to harvest

### ROCKET

**WILD ROCKET**

- Robust and very dark leaves with strongly serrated leaves.
- Considerably long shelf life.
- Dark green in colour.
- Intensive flavour.

**SALAD ROCKET**

**Speedy**
- Serrated leaf shape of wild rocket.
- Very quick growth
- Approximately 25-30 cm high
**DILL**

**COMMON**

Description
- Up to 100cm high.
- Fresh green leaves

**DELIKAT**

Description
- Quickly growing
- Aromatic dill
- Early and large yields.
- Many leaves
- For the fresh market and industry.

**TETRA**

Description
- Leafy
- Fresh green leaves
- Upright growth habit
- High leaf mass
- Late bolting variety

**PARSLEY**

**CURLED PARSLEY**

Darki
- Very dark selection of type “Moss Curled” for year round production.
- Easy to harvest due to the extremely upright leaves.
- Suitable for cultivation in pots, for the fresh market and industry.

**SMOOTH PARSLEY**

Laica
- Robust, flat-leaved parsley for cutting, dark green, intensively aromatic with large leaves and strong stems.
- Very high yielding.
- Multi cut.
CORIANDER

**CORIANDER PALLAS**

Description
- Very aromatic
- Multi cut - 3-4 times
- Very many leaves
- Not bolting
- Suitable for fresh market

**CULTIVATED CORRIANDER**

Description
- Vigorous in growth
- Ready for harvest in 35 days
- Good aroma
- Can grow through the year
- Suitable for the local market
- Adapted to wide range of climatic conditions
- Well scented Herb

**AMERICAN LONG STANDING**

Description
- Adaptable to various climatic conditions
- High content of essential oil

SEEDS CATALOGUE | 29
OTHER HERBS

**SAGE**

**Plant**
- Perennial bushy, very productive.
- Radial size: 50X50cm. (18X18”)
- 80–90 days from planting to harvest

**Leaf**
- Color: green grey hairy leaves
- Size: elongated 5 - 7 cm long 1.5 cm wide
- Very aromatic with lemony slightly bitter fragrance

---

**CHERVIL**

**Fijae Krul**
- Curled type, approx. 20 - 40 cm high

**Massa**
- Approx. 20-40 cm high

---

**TARRAGON**

**Tarragon, Russian**
- Approx. 100-150 cm high

---

**MARJORAM**

**Description**
- Approximately 40 cm high.

---

**BORAGE**

**Description**
- Approximately 30-80 cm high.

---

**THYME**

**Plant**
- Small perennial bushy evergreen
- Very hardy
- Size: 25X25cm. (10X10”)
- Flowers early summer
- Attractive small lilac flowers
- 90–95 days from planting to harvest

**Leaf**
- Miniature elliptic miniature dark green leaves
- Superb aroma and flavor
- Used as culinary and medicinal herb

---

**LEMON BALM**

**Description**
- Approximately 80 cm high.

---

**LOVAGE**

**Description**
- Approximately 150 cm high.

---

**PEPPERMINT**

**Description**
- Approximately 30 cm high.

---

**ROSEMARY**

**Description**
- Approximately 20-120 cm high,
- Perrenial.
XTEND SHELF LIFE BAGS

Active bag keeps fresh fruits, vegetables and herbs fresher for long by preventing the onset of decay. Amiran Acive Bag’s exclusive technology ensures food products retain that freshly picked flavour for a long time period. This smart flexible packaging solution preserves freshness and prevents spoilage, substantially increasing the storage and shelf-life of produce.

WHY USE XTEND SHELF LIFE BAGS

Extends shelf-life
• Significantly extending the shelf life of your fresh produce (Between 100%- 1000% even more.)

18 DAYS WITHOUT AB 18 DAYS WITH AB

Molecularly Absorbs and removes gases
• Remove molecules that damage the specific fresh produce.
• Most of the fresh produce release gases as they ripen.
• Exposure of the produce to these gasses accelerates ripening and deterioration.

Increases profits
• Enables the sale off-season produce, with better prices due to enhanced quality.

Reduce pathogenic & fungicide growth
• Inhibit pathogenic growth such as salmonella and E. coli, as well as fungicide growth

Reduces costs and money lost
• Allows transportation by sea or land (instead of air freight) and decreases insurance cost.
• Allows more flexibility in storage time.

Internal gases enrichment system
• Constant release of needed gases to create better incubation conditions inside the bags.
XTEND SHELF LIFE BAGS

Decreases waste
- Less spoilage of fruit, vegetables, and fresh-cut produce

Prevents Weight loss
Prevents stress from the fresh produce that can cause:
- High sensitivity to mold problems.
- Off-flavoring.
- Discoloring.
- Aroma loss.

Moisture Control system
- Prevents produce from rotting by Water Transfer Molecules that are inside the film and have a good water transfer ability.

Prevent chilling or heat injuries
- Protects the fresh produce from random changing in the storage temperatures.

Types of Xtend Bags Available

<table>
<thead>
<tr>
<th>XTEND BAGS</th>
<th>PRODUCT PACKED</th>
<th>SIZE (KG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>xtend bags green line</td>
<td>Basil</td>
<td>1</td>
</tr>
<tr>
<td>xtend bags white line</td>
<td>Mint, coriander</td>
<td>1</td>
</tr>
<tr>
<td>xtend bags black line</td>
<td>Chives</td>
<td>1</td>
</tr>
<tr>
<td>xtend bags red line</td>
<td>Rosemary</td>
<td>5</td>
</tr>
<tr>
<td>Gefen 105</td>
<td>Sukuma, Spinach</td>
<td>1</td>
</tr>
<tr>
<td>Gefen 205</td>
<td>Tomatoes</td>
<td>1</td>
</tr>
</tbody>
</table>
SHANTY IMPROVED F1
MY CHOICE FOR SUCCESS

EXCELLENT RED COLOUR
EXTENDED SHELF LIFE WITH GOOD FRUIT FIRMNESS
ADAPTABLE FOR DIFFERENT STRESS CONDITIONS
MARKETABLE FRUIT SIZE
HIGH YIELDING
HIGH FRUIT UNIFORMITY

DESCRIPTION
• Determinate hybrid variety
• Early maturity
• Open field production
• Excellent bush plant with high leaves coverage

SHAPE: Oval

WEIGHT(Gr): 140 - 160 / fruit

RESISTANCES*
• Tomato yellow leaf curl virus
• Verticillium wilt
• Fusarium wilt (race 1,2)
• Bacterial speck
• Nematodes
• Tomato spotted wilt virus

Amiran Kenya Ltd
Old Airport North Rd - Embakasi
P.O. Box 30327-00100, Nairobi
Tel: 0719 095 273
Email: seeds@amirankenya.com

Join AmiranK on Facebook  @amiran_kenia www.amirankenya.com

*Selected resistance

Amiran Kenya
Our Knowledge, Your Success.
## 1000 GRAM WEIGHTS

<table>
<thead>
<tr>
<th>Crop</th>
<th>Weight 100gr</th>
<th>No. of Seeds/gr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seedless mini watermelon</td>
<td>35-60</td>
<td>17-28</td>
</tr>
<tr>
<td>Watermelon with seeds</td>
<td>35-45</td>
<td>23-28</td>
</tr>
<tr>
<td>Seedless watermelon</td>
<td>50-60</td>
<td>16-20</td>
</tr>
<tr>
<td>Onion</td>
<td>2.5-4.1</td>
<td>250-400</td>
</tr>
<tr>
<td>Lettuce</td>
<td>0.9-1.2</td>
<td>900</td>
</tr>
<tr>
<td>Eggplant</td>
<td>4.3-5.2</td>
<td>200-300</td>
</tr>
<tr>
<td>Ananas melon</td>
<td>41-50</td>
<td>20-25</td>
</tr>
<tr>
<td>Galia melon</td>
<td>25-35</td>
<td>28-32</td>
</tr>
<tr>
<td>Cucumber</td>
<td>27-33</td>
<td>30-35</td>
</tr>
<tr>
<td>Beet</td>
<td>15-20</td>
<td>50-70</td>
</tr>
<tr>
<td>Tomato</td>
<td>3-4</td>
<td>250-330</td>
</tr>
<tr>
<td>Tomato (cherry)</td>
<td>1.8-2.5</td>
<td>400-550</td>
</tr>
<tr>
<td>Parsley</td>
<td>1.8</td>
<td>550</td>
</tr>
<tr>
<td>Pepper</td>
<td>6.5-9</td>
<td>110-150</td>
</tr>
<tr>
<td>Radish</td>
<td>9-12</td>
<td>80-110</td>
</tr>
<tr>
<td>Squash</td>
<td>115-140</td>
<td>6-8</td>
</tr>
<tr>
<td>Classic ornamental sunflower</td>
<td>40-60</td>
<td>17-25</td>
</tr>
<tr>
<td>Colorful ornamental sunflower</td>
<td>20-40</td>
<td>25-50</td>
</tr>
</tbody>
</table>
### SEED CULTIVATION DATA

<table>
<thead>
<tr>
<th>Vegetable species</th>
<th>TSW (g) approx.</th>
<th>Germination temp. (substrate) (°C)</th>
<th>Seed rate (**) for direct sowing (plants/ha) approx.</th>
<th>Stand density (**) at planting (plants/ha) approx.</th>
<th>Cultivation time (***) from sowing/ planting (days) approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beans</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dwarf french beans</td>
<td>100-400</td>
<td>≥12/opt. 25</td>
<td>320 TK/80-120kg</td>
<td></td>
<td>70-100</td>
</tr>
<tr>
<td>Climbing beans</td>
<td>350-500</td>
<td>≥15/opt. 20-24</td>
<td>40-65 kg (FL) 300-500 G/100m² (GH)</td>
<td></td>
<td>60-120</td>
</tr>
<tr>
<td><strong>Bulb fennel</strong></td>
<td>5</td>
<td>20-22</td>
<td>100,000</td>
<td></td>
<td>60-80</td>
</tr>
<tr>
<td><strong>Cabbage</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cauliflower</td>
<td>4</td>
<td>15-20</td>
<td>20,000-35,000</td>
<td>70-90</td>
<td></td>
</tr>
<tr>
<td>Red cabbage</td>
<td>4</td>
<td>15-20</td>
<td>30,000-50,000</td>
<td>70-140</td>
<td></td>
</tr>
<tr>
<td>White cabbage</td>
<td>4</td>
<td>15-20</td>
<td>30,000-50,000</td>
<td>60-140</td>
<td></td>
</tr>
<tr>
<td><strong>Carrots</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Washing carrot</td>
<td>1-1.7</td>
<td>6-20</td>
<td>1.4-1.8 Mio K</td>
<td></td>
<td>90-130</td>
</tr>
<tr>
<td>carrots for industry</td>
<td>1-1.7</td>
<td>6-20</td>
<td>1.2-1.5 Mio K</td>
<td></td>
<td>100-150</td>
</tr>
<tr>
<td><strong>Cress</strong></td>
<td>1.2-2.5</td>
<td>15-20</td>
<td>600-800kg</td>
<td></td>
<td>15-20</td>
</tr>
<tr>
<td><strong>Cucumbers</strong></td>
<td>25-35</td>
<td>≥18/opt. 23-26 further cultivation T/N 20-22/16-18</td>
<td>1.5 plants/m²</td>
<td>harvest starting from 30 days</td>
<td></td>
</tr>
<tr>
<td>Slicing cucumbers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- greenhouse</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Eggplants</strong></td>
<td>5-6</td>
<td>20-25</td>
<td>1.8 plants/m²</td>
<td>harvest starting from 60 days</td>
<td></td>
</tr>
<tr>
<td><strong>Herbs</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basil</td>
<td>1.5-1.8</td>
<td>18-22</td>
<td>3kg</td>
<td>50-60</td>
<td></td>
</tr>
<tr>
<td>Chives</td>
<td>1-1.5</td>
<td>15-20</td>
<td>6-10kg</td>
<td>50-60</td>
<td></td>
</tr>
<tr>
<td>Dill</td>
<td>1-2</td>
<td>15-20</td>
<td>8-10kg</td>
<td>50-60</td>
<td></td>
</tr>
<tr>
<td>Parsley</td>
<td>1.2-1.8</td>
<td>15-20</td>
<td>4-10kg</td>
<td>harvest starting from 60 days</td>
<td></td>
</tr>
<tr>
<td>Salad rocket</td>
<td>2</td>
<td>15-20</td>
<td>10kg</td>
<td>30-50</td>
<td></td>
</tr>
<tr>
<td>Wild rocket</td>
<td>20-25</td>
<td>2-4kg</td>
<td></td>
<td>40-60</td>
<td></td>
</tr>
<tr>
<td><strong>Leek</strong></td>
<td>2.5-3.5</td>
<td>≥15 precultivation GH ≥ 8, opt. 10 (FL)</td>
<td>250-300 TK/ha</td>
<td>140,000-200,000</td>
<td>planting: 90-120</td>
</tr>
<tr>
<td><strong>Lettuce</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baltavia lettuce</td>
<td>0.8-1.2</td>
<td>10-15, max. 18</td>
<td>100,000(FL) 120,000(GH)</td>
<td>35-60(FL) 50-80(GH)</td>
<td></td>
</tr>
<tr>
<td>Oakleaf lettuce</td>
<td>0.8-1.2</td>
<td>10-15, max. 18</td>
<td>100,000(FL) 120,000(GH)</td>
<td>35-60(FL) 50-80(GH)</td>
<td></td>
</tr>
<tr>
<td>Iceberg lettuce</td>
<td>0.8-1.2</td>
<td>10-15, max. 18</td>
<td>70,000(GH)</td>
<td>45-60</td>
<td></td>
</tr>
<tr>
<td>Butterhead lettuce</td>
<td>0.8-1.2</td>
<td>10-15, max. 18</td>
<td>100,000(FL) 120,000(GH)</td>
<td>35-60(FL) 50-80(GH)</td>
<td></td>
</tr>
<tr>
<td>Lollo Bionda/Rossa</td>
<td>0.8-1.2</td>
<td>10-15, max. 18</td>
<td>100,000(FL) 120,000(GH)</td>
<td>35-60(FL) 50-80(GH)</td>
<td></td>
</tr>
<tr>
<td>Romaine lettuce</td>
<td>0.8-1.2</td>
<td>10-15, max. 18</td>
<td>100,000 Little Gem: 160,000</td>
<td>45-60</td>
<td></td>
</tr>
<tr>
<td><strong>Onions</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Summer onions</td>
<td>3.5-4</td>
<td>15-20</td>
<td>750 TK-1 Mio K</td>
<td>120-180</td>
<td></td>
</tr>
<tr>
<td>Bunching onions</td>
<td>2-2.5</td>
<td>15-20</td>
<td>2 Mio K</td>
<td>75-100</td>
<td></td>
</tr>
<tr>
<td><strong>Peas</strong></td>
<td>200-300</td>
<td>8-14</td>
<td>Early peas: 250 kg Medim peas: 160-200 kg</td>
<td>70-120</td>
<td></td>
</tr>
</tbody>
</table>

TSW = thousand seed weight  
≥ = at least  
opt. = optimal  
< = below  
max. = maximum  
T/N = day/night  
FL = open field  
GH = glasshouse  
k = seed, TK = 10000 seeds  
Mio = million  
RA = row spacing  
st. = pole  
EPT = press pot  
T = days
<table>
<thead>
<tr>
<th>Vegetable species</th>
<th>TSW(g) approx.</th>
<th>Germination temp. (substrate) (°C)</th>
<th>Seed rate(**) for direct sowing (plants/ha)</th>
<th>Stand density(**) at planting (plants/ha) approx.</th>
<th>Cultivation time (**) from sowing/planting (days) approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pepper</strong></td>
<td>7</td>
<td>≥20 further cultivation 18-22</td>
<td>2-3 plants/m²</td>
<td>harvest starting from 60 days</td>
<td></td>
</tr>
<tr>
<td><strong>Red beet</strong></td>
<td>10-15 g/1,000 seed balls; monogerm 7-10</td>
<td>16-22</td>
<td>18-33 kg/approx. 900</td>
<td>120-150</td>
<td></td>
</tr>
<tr>
<td><strong>Spinach</strong></td>
<td>12-16</td>
<td>15-20</td>
<td>Leaf spinach: 3Mio K Root spinach: 1Mio K</td>
<td>50-80; if over wintering: 180-210</td>
<td></td>
</tr>
<tr>
<td><strong>Squash</strong></td>
<td>30-360 varieties differ</td>
<td>15-20</td>
<td>20 TK</td>
<td>10,000</td>
<td></td>
</tr>
<tr>
<td><strong>Tomatoes</strong></td>
<td>2.5-3.5</td>
<td>opt. 20-24</td>
<td>2-2.5 plants/m²</td>
<td>harvest starting from 60 days</td>
<td></td>
</tr>
<tr>
<td><strong>Zucchini</strong></td>
<td>130-200</td>
<td>opt. 22, then 15-18</td>
<td>6kg</td>
<td>10,000</td>
<td></td>
</tr>
</tbody>
</table>

**A** = beginning  
**M** = middle  
**E** = end  
**RA** = row spacing  
**I-XII** = (Roman numerals) = January - December  
**lfm** = running meter  

(*** for Northwest European Climatic conditions  
* unless mentioned in the corresponding chapter
IMPORTANT NOTICE

The information contained herein presents average results of research and observations done by Amiran Kenya Ltd on varieties grown in optimal conditions. Appearance, traits (resistance/tolerance levels) and characteristics of actual yield, as well as varietal performance in a particular case and/or with the passage of time may be different due to numerous factors not in Amiran Kenya’s control such as environmental conditions, growing practices, genetic changes and developments and more. It is clarified that Amiran Kenya makes no representation and gives no warranty respecting the varieties or actual yield. Reference to sowing time, climate suitability etc. is not to be taken as advice or recommendation but merely as general information, the applicability of which should be verified by the user independently. Pictures are for illustrative purposes only.
50 YEARS OF EMPOWERING KENYAN FARMERS

Join AmiranK on Facebook

www.amirankenya.com

Our Knowledge, Your Success.
GALILEA IMPROVED F1

MY CHOICE FOR SUCCESS

VERY STRONG PLANT HABIT
FIRM FRUIT AND EXTENDED SHELF LIFE
EXCELLENT RED COLOUR
EXCEPTIONAL FRUIT SIZE
HIGH FRUIT UNIFORMITY

DESCRIPTION
• Determinate hybrid variety
• Excellent bush plant with high leaves coverage
• Open field & staking growing system
• Early maturity

SHAPE: Oval
WEIGHT(Gr): 140 - 160 / fruit

RESISTANCES*
• Tomato yellow leaf curl virus
• Verticillium wilt
• Fusarium wilt (race 1,2)
• Nematodes
• Tobacco mosaic virus
• Bacterial speck
• Field resistant to Powdery Mildew

Amiran Kenya Ltd
Old Airport North Rd - Embakasi
PO. Box 30327-00100, Nairobi
Tel: 0719 095273
Email: seeds@amirankenya.com
www.amirankenya.com

Join AmiranK on Facebook @amiran_kenya www.amirankenya.com
Save on **water** and grow your crops by using **plastic mulch**
LEARN & BENEFIT

Amiran
Agribusiness Training Center

LEARN MORE ABOUT AMIRAN PRODUCTS AND SOLUTIONS FROM QUALIFIED EXPERT AGRONOMISTS

MORE CENTRES COMING NEAR YOU!