

## FarmLens Ltd

Website: farmlens.africa | App: app.farmlens.africa | Headquarters: Nairobi, Kenya



Crop details

### White pea bean

*Phaseolus vulgaris*

Family: Fabaceae

Categories

Legumes & Pulses

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#### Quick stats

|                           |          |
|---------------------------|----------|
| <u>Family</u>             | Fabaceae |
| <u>Typical harvest</u>    | 1.0 t/ha |
| <u>Varieties</u>          | 1        |
| <u>Pests and diseases</u> | 1        |
| <u>Seasons</u>            | 1        |

#### Crop profile

|                                  |                                    |
|----------------------------------|------------------------------------|
| <u>Growth habit</u>              | annual                             |
| <u>Days to harvest</u>           | 80-110                             |
| <u>Main uses</u>                 | Pulse                              |
| <u>Pollination</u>               | self                               |
| <u>Origin and where it grows</u> | Americas; East Africa widely grown |

#### Weather, soil and spacing

|                         |                   |
|-------------------------|-------------------|
| <u>Best temperature</u> | 16 - 24 °C        |
| <u>Rainfall</u>         | 500 - 900 mm/yr   |
| <u>Altitude</u>         | 800 - 2200 m      |
| <u>Best pH</u>          | 5.8 - 7           |
| <u>Soil type</u>        | Well-drained loam |
| <u>Row spacing</u>      | 50 cm             |
| <u>Plant spacing</u>    | 20 cm             |
| <u>Planting depth</u>   | 3 cm              |
| <u>Seed rate</u>        | 50 kg/ha          |

### Simple notes for farmers

**About the crop:** This crop is annual; it grows and is harvested in one season. Harvest typically starts about 80-110 days after planting.

**Main use:** Farmers mostly grow this crop for pulse.

**Pollination:** Mainly self; healthy flowers and pollinators improve fruit set.

**Where it grows:** Americas; East Africa widely grown. Grouped under: Legumes & Pulses.

**Best climate:** 16 - 24 °C; 500 - 900 mm/yr; up to about 2200 m a.s.l.

**Soil:** Best at pH 5.8 - 7; well-drained loam.

### Farmer guide (Mwongozo wa Mkulima)

### Nutrient schedule (Mbolea kwa Hatua)

| # | Stage | DAP | Product      | Rate     | Targets (kg/ha)  | Notes |
|---|-------|-----|--------------|----------|--|-------|
| 1 | Basal | 0   | NPK 17-17-17 | 50 kg/ha | N: N/A, P <sub>2</sub> O <sub>5</sub> : N/A, K <sub>2</sub> O: N/A | N/A   |

### Nutrient requirements

| Nutrient                      | Stage | Amount | Unit  |
|-------------------------------|-------|--------|-------|
| P <sub>2</sub> O <sub>5</sub> | Basal | 25     | kg/ha |
| K <sub>2</sub> O              | Basal | 20     | kg/ha |

### Field images



### Varieties

| Name            | Country | Maturity (days) | Traits    |
|-----------------|---------|-----------------|-----------|
| White Pea Local | KE      | 95              | Bush type |

### Fertilizer recommendations

| Stage | Product      | Rate | Notes |
|-------|--------------|------|-------|
| Basal | NPK 17-17-17 | 50   |       |

### Pests and diseases

| Name              | Type    | Symptoms        | Management           |
|-------------------|---------|-----------------|----------------------|
| Angular leaf spot | disease | Angular lesions | Clean seed; rotation |

### Yields

| System              | Typical | Min | Max | Notes |
|---------------------|---------|-----|-----|-------|
| rainfed smallholder | 1       | 0.5 | 1.8 |       |

### Season calendars

| Country | Region | Planting | Harvest |
|---------|--------|----------|---------|
|---------|--------|----------|---------|

|    |         |         |         |
|----|---------|---------|---------|
| KE | Eastern | Oct–Nov | Jan–Mar |
|----|---------|---------|---------|

**Region suitability**

| <u>Country</u> | <u>Region</u> | <u>Suitability</u> |
|----------------|---------------|--------------------|
| KE             | Eastern       | High               |

Source: **FarmLens Ltd** - [farmlens.africa](http://farmlens.africa) and [app.farmlens.africa](http://app.farmlens.africa). Headquarters: Nairobi, Kenya. This guide was generated from the FarmLens database.