



Agriculture Research Center

Field Crop research Institute



Field Crops Research Institute Varieties

Wheat

1- Bread Wheat

Sids 14

▪ Properties

Widely adapted, abundant branching, tolerant to high temperatures, resistant to three rusts, cultivated in all governorates. Protein content in grains reaches 13%.

Seed rate:

42 kg/faddan of turf cultivation

45 kg/ faddan of turf cultivation on terraces

60 kg/ faddan of turf cultivation in a hut

70 kg/ faddan of ploughed cultivation

Yield Potential

28 ardebs / faddan

Average Yield

24 ardebs / faddan



Sids 15

Properties

Widely adapted, resistant to three rusts, abundant branching and tolerant of high temperatures, the protein content in grains reaches 13%, Planted in all governorates of the Republic

Seed rate:

- 42 kg/faddan of turf cultivation
- 45 kg/ faddan of turf cultivation on terraces
- 60 kg/ faddan of turf cultivation in a hut
- 70 kg/ faddan of ploughed cultivation

Yield Potential

28-30 ardebs/ faddan

Average Yield

24 ardebs/ faddan



Sakha 95

Properties

Widely adapted, resistant to rusts, Abundant branching, tolerant to high temperatures, moderately tolerant to soil salinity, irrigation water, white grains, cultivated in all governorates of the Republic.

Seed rate:

42 kg/faddan of turf cultivation

45 kg/ faddan of turf cultivation on terraces

60 kg/ faddan of turf cultivation in a hut

70 kg/ faddan of ploughed cultivation

Yield potential

22/25 ardeb/faddan

Average Yield

29 ardeb/faddan



Sakha 96

Properties

Widely adaptable, resistant to three rusts, early variety suitable for late planting, white grains grown in all governorates of the Republic

Seed rate:

50 kg/ faddan of turf cultivation

50 kg/ faddan of terraced turf cultivation

60 kg/ faddan of turf cultivation in a hut

70 kg/ faddan of plowed turf cultivation

Yield Potential

26 ardab/ faddan

Average Yield

22-24 ardebs/ faddan



Sakha 97

Properties

Widely adapted, rust resistant, medium maturity (145-155 days), white grains, grown in all governorates of the Republic

Seed rate:

- 50 kg/ faddan of turf cultivation**
- 50 kg/ faddan of terraced turf cultivation**
- 60 kg/ faddan of turf cultivation in a hut**
- 70 kg/ faddan of plowed turf cultivation**

Yield Potential

- 28 ardab/ faddan**

Average Yield

- 23-25 ardebs/ faddan**



Giza 171

Properties

Widely adapted, resistant to rusts, abundant branching, tolerant to high temperatures, white grains, cultivated in all governorates of the Republic.

Seed rate:

- 50 kg/ faddan of turf cultivation**
- 50 kg/ faddan of terraced turf cultivation**
- 60 kg/ faddan of turf cultivation in a hut**
- 70 kg/ faddan of plowed turf cultivation**

Yield Potential

23 ardab/ faddan

Average Yield

30 ardab/ faddan



Misr 1

Properties

Widely adapted, resistant to three rusts, abundant branching and tolerant to high temperatures, white grains, cultivated in Middle Egypt - Upper Egypt

Seed rate:

50 kg/ faddan of turf cultivation

50 kg/ faddan of terraced turf cultivation

60 kg/ faddan of turf cultivation in a hut

70 kg/ faddan of plowed turf cultivation

Yield Potential

28 ardebs/ faddan

Average Yield

21-24 ardebs/ faddan



Misr 3

Properties

Widely adapted, resistant to three rusts, abundant branching and tolerant to high temperatures, white grains, cultivated in all governorates of the Republic

Seed rate:

50 kg/ faddan of turf cultivation

50 kg/ faddan of terraced turf cultivation

60 kg/ faddan of turf cultivation in a hut

70 kg/ faddan of plowed turf cultivation

Yield Potential

29-31 ardebs/ faddan

Average Yield

21-26 ardebs/ faddan



Misr 4

Properties

Widely adapted, resistant to three rusts, abundant branching. Average tolerance to soil salinity and irrigation water, white grains, Cultivated in all governorates of the Republic

Seed rate:

- 50 kg/ faddan of turf cultivation**
- 50 kg/ faddan of terraced turf cultivation**
- 60 kg/ faddan of turf cultivation in a hut**
- 70 kg/ faddan of plowed turf cultivation**

Yield Potential

29-31 ardebs/ faddan

Average Yield

24 Ardeb/ faddan



Misr 5

Properties

Resistant to three rusts, moderate tolerance to soil salinity and irrigation water, abundant branching, medium maturity (140-152 days). Cultivated in all governorates of the Republic, especially lands affected by salinity

Seed rate:

- 50 kg/ faddan of turf cultivation**
- 50 kg/ faddan of terraced turf cultivation**
- 60 kg/ faddan of turf cultivation in a hut**
- 70 kg/ faddan of plowed turf cultivation**

Yield Potential

30 ardebs/ faddan

Average Yield

22-25 ardebs/ faddan



Misr 6

Properties

Resistant to three rusts, moderate tolerance to soil salinity and irrigation water, abundant branching, medium maturity (140-152 days). Cultivated in all governorates of the Republic, especially lands affected by salinity

Seed rate:

50 kg/ faddan of turf cultivation

50 kg/ faddan of terraced turf cultivation

60 kg/ faddan of turf cultivation in a hut

70 kg/ faddan of plowed turf cultivation

Yield Potential

30 ardebs/ faddan

Average Yield

23-25 ardebs/ faddan



Misr 7

Properties

Resistant to three rusts, moderate tolerance to soil salinity and irrigation water, abundant branching, medium maturity (140-152 days). Cultivated in all governorates of the Republic, especially lands affected by salinity

Seed rate:

50 kg/ faddan of turf cultivation

50 kg/ faddan of terraced turf cultivation

60 kg/ faddan of turf cultivation in a hut

70 kg/ faddan of plowed turf cultivation

Yield Potential

30 ardebs/ faddan

Average Yield

23-25 ardebs/ faddan



Sakha 98

Properties

One of the new high-yielding varieties, resistant to rusts, grown in all governorates.

Seed rate:

- 50 kg/ faddan of turf cultivation**
- 50 kg/ faddan of terraced turf cultivation**
- 60 kg/ faddan of turf cultivation in a hut**
- 70 kg/ faddan of plowed turf cultivation**

Yield Potential

30 ardebs/ faddan

Average Yield

23-25 ardebs/ faddan



Sakha 99

Properties

One of the new high-yielding varieties, resistant to rusts, grown in all governorates.

Seed rate:

- 50 kg/ faddan of turf cultivation**
- 50 kg/ faddan of terraced turf cultivation**
- 60 kg/ faddan of turf cultivation in a hut**
- 70 kg/ faddan of plowed turf cultivation**

Yield Potential

30 ardebs/ faddan

Average Yield

23-25 ardebs/ faddan



Gemmeiza 13

Properties

One of the new high-yielding varieties, resistant to rusts, grown in all governorates.

Seed rate:

- 50 kg/ faddan of turf cultivation**
- 50 kg/ faddan of terraced turf cultivation**
- 60 kg/ faddan of turf cultivation in a hut**
- 70 kg/ faddan of plowed turf cultivation**

Yield Potential

30 ardebs/ faddan

Average Yield

23-25 ardebs/ faddan



Misr 9

Properties

Resistant to three rusts, moderate tolerance to soil salinity and irrigation water, abundant branching, medium maturity (140-152 days). Cultivated in all governorates of the Republic, especially lands affected by salinity

Seed rate:

50 kg/ faddan of turf cultivation

50 kg/ faddan of terraced turf cultivation

60 kg/ faddan of turf cultivation in a hut

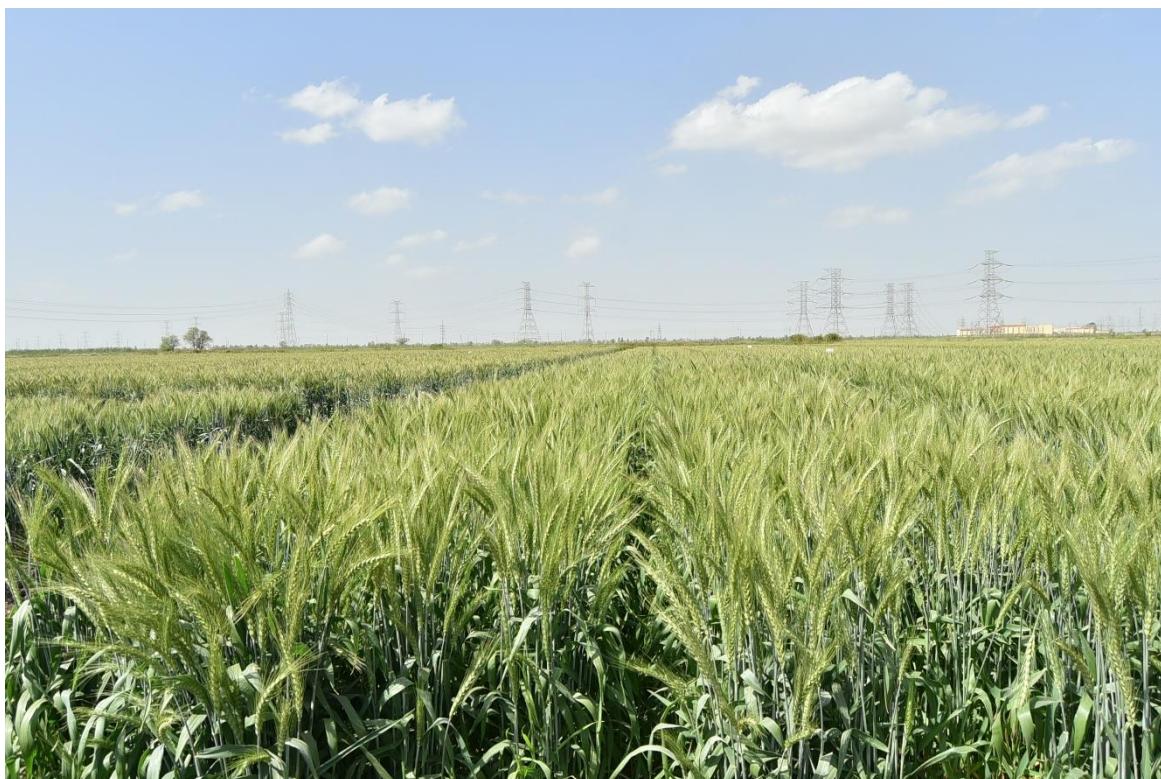
70 kg/ faddan of plowed turf cultivation

Yield Potential

30 ardebs/ faddan

Average Yield

23-25 ardebs/ faddan



Sids 12

Properties

One of the new high-yielding varieties, resistant to rusts, grown in all governorates.

Seed rate:

- 50 kg/ faddan of turf cultivation
- 50 kg/ faddan of terraced turf cultivation
- 60 kg/ faddan of turf cultivation in a hut
- 70 kg/ faddan of plowed turf cultivation

Yield Potential

30 ardebs/ faddan

Average Yield

23-25 ardebs/ faddan



Gemmiza 11

Properties

Resistant to rusts, tellaring variety, highly branching

Seed rate:

50 kg/ faddan of turf cultivation

50 kg/ faddan of terraced turf cultivation

60 kg/ faddan of turf cultivation in a hut

70 kg/ faddan of plowed turf cultivation

Yield Potential

30 ardeb/ faddan

Average Yield

22 ardeb/faddan



2- Duram Wheat

Beni Suef 5

Properties

Resistant to three wheat rusts, abundant branching, grain protein content 13%, white grains, high semolina, heat tolerant, cultivated in Middle Egypt - Upper Egypt - Toshka - El-Oweinat

Seed rate:

- 50 kg/ faddan of turf cultivation**
- 50 kg/ faddan of terraced turf cultivation**
- 60 kg/ faddan of turf cultivation in a hut**
- 70 kg/ faddan of plowed turf cultivation**

Yield Potential

27 ardeb/ faddan

Average Yield

21- 23 ardeb/ faddan



Beni Suef 7

Properties

Resistant to three rusts, abundant branching and tolerant of high temperatures, protein content in grains reaches 13.5%, high semolina, Planted in Upper Egypt - Toshka - El-Oweinat

Seed rate:

- 50 kg/ faddan of turf cultivation**
- 50 kg/ faddan of terraced turf cultivation**
- 60 kg/ faddan of turf cultivation in a hut**
- 70 kg/ faddan of plowed turf cultivation**

Yield Potential

32 ardeb/ faddan

Average Yield

28 ardeb/ faddan



Sohag 5

Properties

Resistant to three rusts, abundant branching and tolerant of high temperatures, high semolina, planted in Upper Egypt - Toshka - El-Oweinat

Seed rate:

50 kg/ faddan of turf cultivation

50 kg/ faddan of terraced turf cultivation

60 kg/ faddan of turf cultivation in a hut

70 kg/ faddan of plowed turf cultivation

Yield Potential

30 ardebs/ faddan

Average Yield

26 ardebs/ faddan



Sohag 6

Properties

Resistant to three rusts, abundant branching and tolerant of high temperatures, high semolina, planted in Upper Egypt - Toshka - El-Oweinat

Seed rate:

50 kg/ faddan of turf cultivation

50 kg/ faddan of terraced turf cultivation

60 kg/ faddan of turf cultivation in a hut

70 kg/ faddan of plowed turf cultivation

Yield Potential

30 ardebs/ faddan

Average Yield

24-26 ardebs/ faddan



Giza 177

Features

- * Japonica- Short grain- Good grain quality traits.
- * Duration: 125 days.
- * Short stature
- * Resistant to blast and insect
- * Adequate for fertile soil
- * **Grain yield 8.4- 10 t/ha**
- * Optimum temperature: 25 - 35°C
- * Photoperiod sensitivity: low sensitive



Giza 178

Features

- * Indica Japonica- Medium grain- Good grain quality traits.
- * Duration: 135 days.
- * Short stature.
- * Resistant to blast.
- * Adequate for fertile soil and saline soil.
- * **Grain yield 9.6- 12.0 t/ha.**
- * Optimum temperature: 25 - 35°C.
- * Photoperiod sensitivity: low sensitive.



Giza 179

Features

- * Indica Japonica- Medium grain- Good grain quality traits.
- * Duration: 120 days.
- * Short stature.
- * Resistant to blast and insects.
- * Adequate for fertile soil and saline soil.
- * **Grain yield 10.8- 12.0 t/ha.**
- * Optimum temperature: 25 - 35°C.
- * Photoperiod sensitivity: low sensitive.



Giza 183

Features

- * Indica Japonica- Medium grain- Good grain quality traits.
- * Duration: 115-120 days.
- * Short stature.
- * Resistant to blast and insects.
- * Adequate for fertile soil and saline soil.
- * **Grain yield** 9.5- 12.0 t/ha.
- * Optimum temperature: 25 - 35°C.
- * Photoperiod sensitivity: low sensitive.



Sakha 101

Features

- * Japonica- Short grain- Good grain quality traits.
- * Duration: 145 days.
- * Short stature
- * Sensitive to rice blast
- * Adequate for fertile soil
- * **Grain yield 9.6 - 12.0 t/ha**
- * Optimum temperature: 25 - 35°C
- * Photoperiod sensitivity: low sensitive



Sakha 102

Features

- * Japonica - Short grain- Good grain quality traits.
- * Duration: 125 days.
- * Short stature.
- * Resistant to blast and insect.
- * Adequate for fertile soil
- * **Grain yield** 8.4 - 10.0 t/ha
- * Optimum temperature: 25 - 35°C
- * Photoperiod sensitivity: low sensitive



Sakha 103

Features

- * Japonica - Short grain- Good grain quality traits.
- * Duration: 120 days.
- * Short stature.
- * Resistant to blast and insect.
- * Adequate for fertile soil
- * **Grain yield 9.6 - 10.5 t/ha**
- * Optimum temperature: 25 - 35°C
- * Photoperiod sensitivity: low sensitive



Sakha 104

Features

- * Japonica - Short grain- Good grain quality traits.
- * Duration: 135 days.
- * Short stature.
- * Sensitive to blast.
- * Adequate for fertile soil
- * **Grain yield 9.6 - 10.8 t/ha**
- * Optimum temperature: 25 - 35°C
- * Photoperiod sensitivity: low sensitive



Sakha 105

Features

- * Japonica - Short grain- Good grain quality traits.
- * Duration: 125 days.
- * Short stature.
- * Resistant to blast and insect.
- * Adequate for fertile soil
- * **Grain yield** 9.5 - 10.7 t/ha
- * Optimum temperature: 25 - 35°C
- * Photoperiod sensitivity: low sensitive



Sakha 106

Features

- * Japonica - Short grain- Good grain quality traits.
- * Duration: 128 days.
- * Short stature.
- * Resistant to blast and insect.
- * Adequate for fertile soil
- * **Grain yield 9.6 - 10.8 t/ha**
- * Optimum temperature: 25 - 35°C
- * Photoperiod sensitivity: low sensitive



Sakha 107

Features

- * Japonica - Short grain- Good grain quality traits.
- * Duration: 125 days.
- * Short stature.
- * Resistant to blast and insect.
- * Adequate for fertile soil
- * **Grain yield 9.5 - 10.5 t/ha**
- * Optimum temperature: 25 - 35°C
- * Photoperiod sensitivity: low sensitive



Sakha 108

Features

- * Japonica - Short grain- Good grain quality traits.
- * Duration: 135 days.
- * Short stature.
- * Sensitive to blast.
- * Adequate for fertile soil
- * **Grain yield 9.5 – 12.0 t/ha**
- * Optimum temperature: 25 - 35°C
- * Photoperiod sensitivity: low sensitive



Sakha 109

Features

- * Japonica - Short grain- Good grain quality traits.
- * Duration: 125 days.
- * Short stature.
- * Resistant to blast and insect.
- * Adequate for fertile soil
- * Grain yield 10.5 t/ha
- * Optimum temperature: 25 - 35°C
- * Photoperiod sensitivity: low sensitive



Egyptian Yasmin

Features

- * Indica - Long grain- Aromatic - Good grain quality traits.
- * Duration: 145 days.
- * Long Stem.
- * Resistant to blast and insect.
- * Adequate for fertile soil
- * **Grain yield** 10.0-10.5 t/ha
- * Optimum temperature: 25 - 35°C
- * Photoperiod sensitivity: Moderate sensitive



Egyptian Hybrid Rice

Features

- * Indica Japonica - Short grain- Good grain quality traits.
- * Duration: 135 days.
- * Long Stem.
- * Resistant to blast and insect.
- * Adequate for fertile soil
- * **Grain yield 11.5-13.0 t/ha**
- * Optimum temperature: 25 - 35°C
- * Photoperiod sensitivity: Low sensitive



Giza 182

Features

- * Indica - Long grain- Good grain quality traits.
- * Duration: 125 days.
- * Short stature.
- * Resistant to blast and insect.
- * Adequate for fertile soil
- * **Grain yield 8.4-10.0 t/ha**
- * Optimum temperature: 25 - 35°C
- * Photoperiod sensitivity: Low sensitive



Sakha Super Rice 300

Features

- * Japonica- Short grain- Good grain quality traits.
- * Duration 114 days in late sowing date or 147 days in early sowing date.
- * Strong Stem.
- * Sensitive to blast and insect.
- * Adequate for fertile soil
- * **Grain yield 8.5- 10.5 t/ha**
- * Optimum temperature: 25 - 35°C
- * Photoperiod sensitivity: Very sensitive



Sakha Asmar 1

Features

- * Japonica- Black rice - Short grain- Good grain quality traits.
- * Duration 125 days.
- * Strong Stem.
- * Resistance to blast and insect.
- * Adequate for fertile soil
- * **Grain yield 6.8 t/ha**
- * Optimum temperature: 25 - 35°C
- * Photoperiod sensitivity: Low sensitive



Giza 184

Giza 184: A Newly Released Climate-Smart Rice Variety



Milled rice



Paddy rice

Key Features :

- High yield potential (11.4 t/ha).
- Resistance to blast disease.
- Excellent milling recovery (71%).
- Suitable for Egyptian environments.
- Stable performance and strong adaptability.

Trait	Value
Days to Maturity	119
Plant Height (cm)	107
1000 - Grain Weight (g)	26.5

Egyptian Promising Rice Genotypes

GZ10804-3-1-2-2



GZ10590-1-1-3-9-1



Zea maize

1- Single cross white

SC White 10 – SC white 132

Properties

Single white hybrid, high yield, maturity 105-115 days, plant height 300-320 cm, cob length 26-28 cm, white color dent shape, yield 30-32 ardeb / acre

Yield Potential

35 ardab / faddan

Average Yield

28 ardeb/ faddan



SC white 128

Properties

Single white hybrid, high yield, maturity 105-115 days, plant height 285-320 cm, cob length 26-28 cm, white color dent shape, yield

Yield Potential

30 – 32 ardab / faddan

Average Yield

28 ardeb/ faddan



SC white 130

Properties

Single white hybrid, high yield, maturity 110 -120 days, plant height 285-320 cm, cob length 26-27 cm, white color dent shape.

Yield Potential

35 ardeb / faddan

Average Yield

28 ardeb/ faddan



SC white 131

Properties

Single white hybrid, high yield, maturity 100-110 days, plant height 270-290 cm, cob length 27-29 cm, white color dent shape.

Yield Potential

30 -31 ardeb / faddan

Average Yield

28 ardeb/ faddan



2- Single Cross Yellow

SC 162 Yellow

Properties

Single yellow hybrid, high yield, maturity 115-120 days, plant height 320-350 cm, cob length 25-27 cm, white color, dent shape.

Yield Potential

30 -31 ardab /faddan

Average Yield

28 ardab/faddan



SC 166 Yellow

Properties

Single yellow hybrid, high yield, maturity 105-115 days, plant height 275-300 cm, cob length 26-28 cm, white color, dent shape.

Yield Potential

29 -31 ardab / faddan

Average Yield

28 ardeb/ faddan



SC Yellow 168

Properties

Single yellow hybrid, high yield, maturity 105-115 days, plant height 275-300 cm, cob length 26-28 cm, white color dent shape.

Yield Potential

30 – 32 ardeb /acre



SC 176 yellow

Properties

Single white hybrid, high yield, maturity 100-110 days, plant height 290-310 cm, cob length 21-23 cm, white color dent shape.

Yield Potential

28 – 30 ardeb /acre



SC 180 yellow

Properties

Single white hybrid, high yield, maturity 115-120 days, plant height 330-350 cm, cob length 23-25 cm, jaune color dent shape, yield 31-33 ardeb / acre.

Yield Potential

31 – 33 ardeb /acre



3- Triple white cross

TW 321

Properties

High average crop yield, Resistance to late wilt and downy mildew, vigorous growth and increased vegetative size, maturity at 110 days, the green color of the plant persists after the cobs dry.

Yield Potential 30 ardab /fedden

Average yield 25 ardeb / acre



TWC 324

Properties

High average crop yield, Resistance to late wilt and downy mildew, vigorous growth and increased vegetative size, maturity 110 days. the green color of the plant persists after the cobs dry.

Yield Potential

30 ardeb /Acre

Average yield

25 ardab / fedden



4- Triple Yellow Cross

TYC 360

Properties

High average crop yield, Resistance to late wilt and downy mildew, vigorous growth and increased vegetative size, maturity 110 – 120 days. the green color of the plant persists after the cobs dry.

Yield Potential 30 ardeb /acre

Average yield 25 ardeb / acre



Barley

Covered Six-row Barley Varieties

Giza 123

Properties:

Resistant to Lead Rust and Powdery Mildew .The most salt-tolerant varieties.
Tolerates nutrient deficiencies. Early maturing (125 days) grown in all old, new and saline lands

Seed rate:

- 40 Kg/faddan of turf cultivation
- 50 Kg/faddan of turf cultivation in a hut
- 60 Kg/faddan of plowed turf cultivation
- 40 Kg/faddan of turf cultivation

Yield Potential

22-24 ardabs/feddan

Average Yield

15-17 ardabs/feddan in new lands

10-13 ardabs/feddan in saline lands



Giza 124

Properties:

Resistant to most barley diseases. Tolerant of salinity- tolerates high temperatures. Tolerates infertility. Early maturing (125 days) (grown in all old, new and newly reclaimed lands

Seed rate:

40 Kg/faddan of turf cultivation

50 Kg/faddan of turf cultivation in a hut

60 Kg/faddan of plowed turf cultivation

Yield Potential

22-24 ardabs/feddan

Average Yield

15-17 ardabs/feddan in new lands



Giza 125

Properties:

Drought-tolerant variety. It can be grown successfully in rainfed areas, with rainfall reaching 100-120 mm per growing season. Early maturing (125 days). Grown in the rainfed lands of the northwest coast and northern Sinai.

Seed rate:

25-30 Kg/faddan

Yield Potential

10 ardabs/feddan

Average Yield

3-4 ardabs/feddan



Giza 126

Properties:

Drought-tolerant variety. It can be grown successfully in rainfed areas, with rainfall reaching 100-120 mm per growing season. Early maturing (125 days). Grown in the rainfed lands of the northwest coast and northern Sinai.

Seed rate:

25-30 Kg/faddan

Yield Potential

10 ardabs/feddan

Average Yield

5-6 ardabs/feddan



Giza 2000

Properties:

Good, widely adapted variety. Resistant to most barley diseases. Early maturing (125 days). Grown in all new lands and rain fed lands.

Seed rate:

New lands:

40 Kg/faddan of turf cultivation

50 Kg/faddan of turf cultivation in a hut

60 Kg/faddan of plowed turf cultivation

Rainfed lands:

25-30 kg/faddan

Yield Potential

22-24 ardabs/feddan in new lands

8-10 ardabs/feddan in rainfed lands

Average Yield

15-17 ardabs/feddan in new lands

5-6 ardabs/feddan in rainfed lands



Giza 132

Properties:

Resistant to Lead Rust and Powdery Mildew. Early maturing (125 days). Grown in all new lands and rainfed lands.

Seed rate:

New lands:

40 Kg/faddan of turf cultivation

50 Kg/faddan of turf cultivation in a hut

60 Kg/faddan of plowed turf cultivation

Rainfed lands:

25-30 kg/faddan

Yield Potential

22-24 ardabs/feddan in new lands

8-10 ardabs/feddan in rainfed lands

Average Yield

15-17 ardabs/feddan in new lands

5-6 ardabs/feddan in rainfed lands



Giza 133

Properties:

Resistant to most barley diseases. Early maturing (125 days). Grown in new lands

Seed rate:

40 Kg/faddan of turf cultivation

50 Kg/faddan of turf cultivation in a hut

60 Kg/faddan of plowed turf cultivation

Yield Potential

22-24 ardabs/feddan

Average Yield

16-18 ardabs/feddan



Giza 134

Properties:

**Resistant to high temperature. Resistant to Lead Rust and Powdery Mildew
Early maturing (125 days). Grown in all old and new lands in Upper Egypt**

Seed rate:

40 Kg/faddan of turf cultivation

50 Kg/faddan of turf cultivation in a hut

60 Kg/faddan of plowed turf cultivation

Yield Potential

22-24 ardabs/feddan

Average Yield

18-20 ardabs/feddan in old lands

15-17 ardabs/feddan in new lands



Giza 137

Properties:

Good, widely adapted variety. Resistant to most barley diseases. Early maturing (12^½ days). Grown in all newly reclaimed lands and rainfed lands.

Seed rate:

Newly reclaimed lands

40 Kg/faddan of turf cultivation

50 Kg/faddan of turf cultivation in a hut

60 Kg/faddan of plowed turf cultivation

Rainfed lands:

25-30 kg/faddan

Yield Potential

22-24 ardabs/feddan in newly reclaimed lands

8-10 ardabs/feddan in rainfed lands

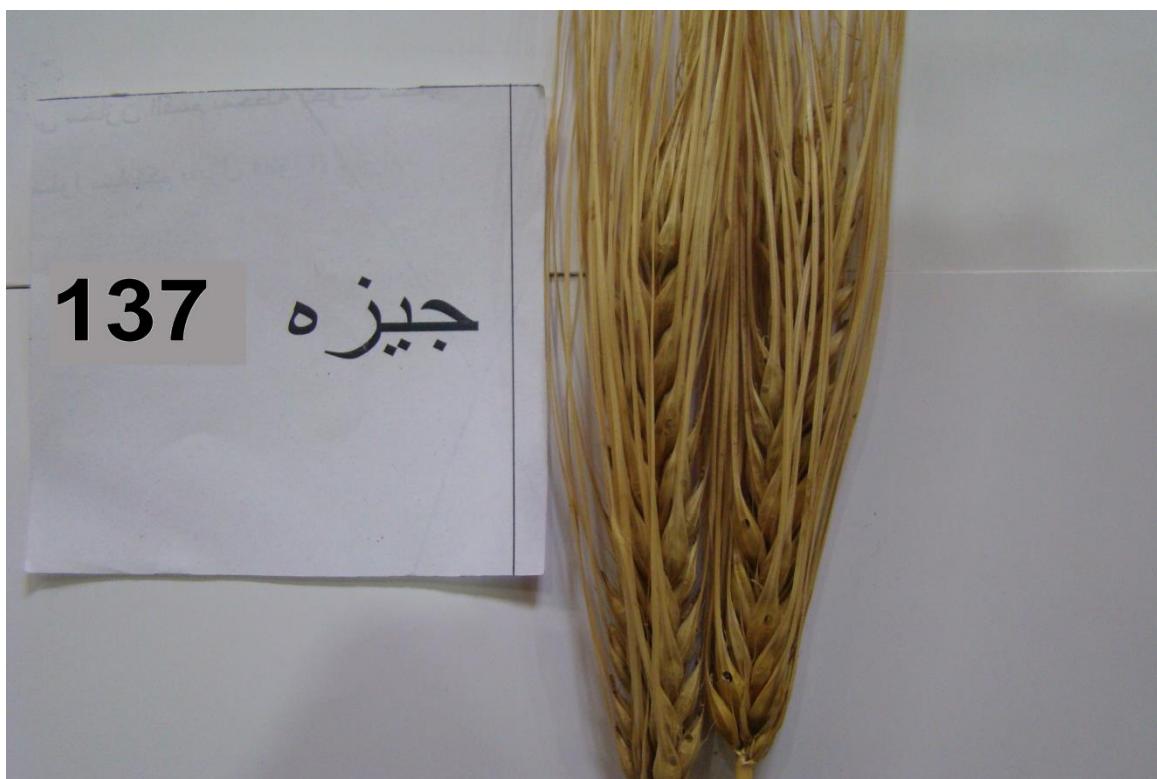
Average Yield

16-19 ardabs/feddan in newly reclaimed lands

5-6 ardabs/feddan in rainfed lands



جیزه 137



Giza 138

Properties:

Good, widely adapted variety. Resistant to most barley diseases. Early maturing (125 days). Grown in all newly reclaimed lands

Seed rate:

40 Kg/faddan of turf cultivation

50 Kg/faddan of turf cultivation in a hut

60 Kg/faddan of plowed turf cultivation

Yield Potential

22-24 ardabs/feddan

Average Yield

17-20 ardabs/feddan



Hull-less barley - six-row

Giza 129

Properties:

High-yielding, drought-tolerant variety Resistant to most barley diseases. Early maturing (120 days). Grown in the new lands of Upper and Lower Egypt and the South Valley

Seed rate:

40 Kg/faddan of turf cultivation

50 Kg/faddan of turf cultivation in a hut

60 Kg/faddan of plowed turf cultivation

Yield Potential

22-24 ardabs/feddan

Average Yield

18-20 ardabs/feddan in old lands

15-17 ardabs/feddan in new lands



Giza 130

Properties:

Hull-less barley - six-row

Resistant to most barley diseases

Early maturing (120 days)

Grown in new, old and rain-fed lands

Seed rate:

New lands:

40 Kg/faddan of turf cultivation

50 Kg/faddan of turf cultivation in a hut

60 Kg/faddan of plowed turf cultivation

Rainfed lands:

25-30 kg/faddan

Yield Potential

22-24 ardabs/feddan

Average Yield

15-17 ardabs/feddan in new lands

20 -24 ardabs/feddan in old lands

5-6 ardabs/feddan in rainfed lands



Giza 131

Properties:

Drought-tolerant variety. It can be grown successfully in rainfed areas, with rainfall reaching 100-120 mm per growing season. Early maturing (120 days). Grown in the rainfed lands of the northwest coast and northern Sinai.

Seed rate:

25-30 Kg/faddan

Yield Potential

10 ardabs/feddan

Average Yield

5-6 ardabs/feddan



Giza 135

Properties:

Resistant to most barley diseases. Early maturing (120 days). Grown in new, old and rain-fed lands

Seed rate:

New lands:

40 Kg/faddan of turf cultivation

50 Kg/faddan of turf cultivation in a hut

60 Kg/faddan of plowed turf cultivation

Rainfed lands:

25-30 kg/faddan

Yield Potential

22-24 ardabs/feddan

Average Yield

15-17 ardabs/feddan in new lands

20 -24 ardabs/feddan in old lands

5-6 ardabs/feddan in rainfed lands



Giza 136

Properties:

Resistant to most barley diseases. Early maturing (120 days). Grown in new, old and rain-fed lands

Seed rate:

New lands:

40 Kg/faddan of turf cultivation

50 Kg/faddan of turf cultivation in a hut

60 Kg/faddan of plowed turf cultivation

Rainfed lands:

25-30 kg/faddan

Yield Potential

22-24 ardabs/feddan

Average Yield

15-17 ardabs/feddan in new lands

20 -24 ardabs/feddan in old lands

5-6 ardabs/feddan in rainfed lands



Covered barley –two –row

Giza 127

Properties:

It is characterized by large grains. High quality for malt industry - high yield
Early maturing (125 days. It is grown in all old and new lands.

Seed rate:

40 Kg/faddan of turf cultivation
50 Kg/faddan of turf cultivation in a hut
60 Kg/faddan of plowed turf cultivation

Yield Potential

22-24 ardabs/feddan

Average Yield

15-18 ardabs/feddan in new lands
18-20 ardabs/feddan in old lands



Giza 128

Properties:

It is characterized by large grains. High quality for malt industry - high yield
Early maturing (125 days). It is grown in all old and new lands

Seed rate:

40 Kg/faddan of turf cultivation
50 Kg/faddan of turf cultivation in a hut
60 Kg/faddan of plowed turf cultivation

Yield Potential

22-24 ardabs/feddan

Average Yield

15-18 ardabs/feddan in new lands
18-20 ardabs/feddan in old lands



Giza 201

Properties:

covered barley -two -row
It is characterized by large grains
new, widely adapted variety
Resistant to most barley diseases
High quality for malt industry - high yield
Early maturing (125 days)
It is grown in all old and new lands

Seed rate:

40 Kg/faddan of turf cultivation
50 Kg/faddan of turf cultivation in a hut
60 Kg/faddan of plowed turf cultivation

Yield Potential

22-24 ardabs/feddan

Average Yield

15-18 ardabs/feddan in new lands
18-20 ardabs/feddan in old lands



Giza 202

Properties:

It is characterized by large grains. New, widely adapted variety. Resistant to most barley diseases. High quality for malt industry - high yield. Early maturing (125 days). It is grown in all old and new lands.

Seed rate:

40 Kg/faddan of turf cultivation

50 Kg/faddan of turf cultivation in a hut

60 Kg/faddan of plowed turf cultivation

Yield Potential

22-24 ardabs/feddan

Average Yield

15-18 ardabs/feddan in new lands

18-20 ardabs/feddan in old lands



Oil Crops

Peanut

Giza 6

Properties

Early maturity (115-120 days to ripening), resistant to fruit rot diseases, 50% oil content.

Yield Potential

23 ardeb/ faddan

Average Yield

20 ardeb/ faddan



Ismailia 1

Properties

**Early maturity (115-120 days to ripening), Resistant to fruit rot diseases,
47% oil content.**

Yield Potential

22 ardeb/ faddan

Yield Potential

20 ardeb / faddan



Ismailia 3 **(Under registration)**

Properties

**Early maturity (115-120 day) to ripening), Resistant to fruit rot diseases,
47 – 53 % oil content.**

Yield Potential

28 ardeb/ faddan

Yield Potential

25 ardeb / faddan



2 -Sunflower

Sakha 53

Properties

85- 90 days to maturity Resistant to disc and stem rot diseases, 40% oil content.

Yield Potential

2 ton / faddan

Average Yield

1 ton / faddan



Giza 102

Properties

65- 70 days in the summer and indigo loops until maturity, 70-85 days in the early summer lug to maturity, resistant to disc and stem rot diseases Oil percentage 41-43%

Yield Potential

2 ton / faddan

Average Yield

1.2 ton / faddan



Giza 120

Properties

**Early maturity (115-120 days to ripening), Resistant to stem diseases,
42 % oil content.**

Yield Potential

1.6 ton / faddan

Yield Potential

1.2 ton / faddan



3- Sesamum indicum

Sohag 1

Properties

110–120 days to maturity, Resistant to wilting diseases, The percentage of oil 55%

Yield Potential

7 ardeb / faddan

Average Yield

5 ardeb / faddan



Shandweel 3

Properties

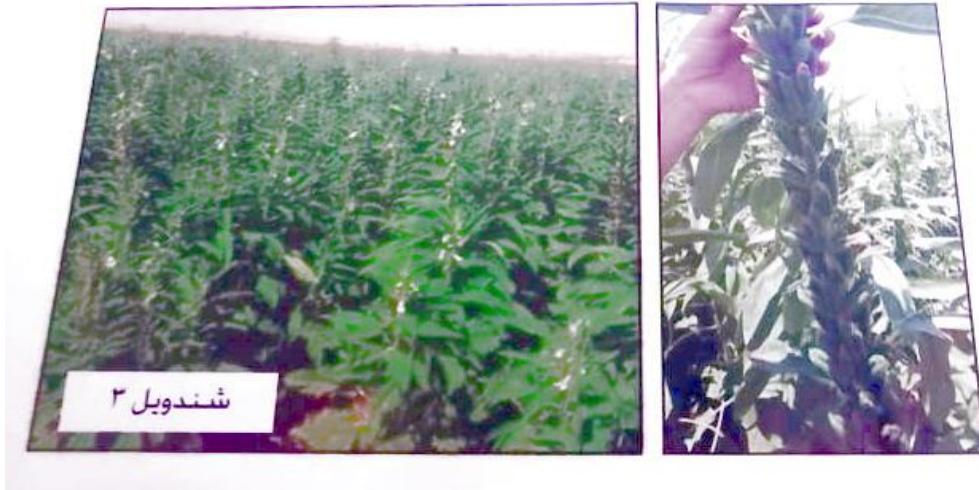
(105-110 days) to maturity. Resistant to wilting diseases. Oil yield 55-60%

Yield Potential

7 ardeb / faddan

Yield Potential

5 ardeb / faddan



Giza 32 (Re-registration)

Properties

Golden seed color

Yield Potential

8 ardeb / faddan

Yield Potential

ardeb / faddan6



4- Canola

Serw 4

Properties

140–150 days to maturity, Resistant to wilting root diseases and white rust, The percentage of oil 45%

Yield Potential

2 ton/ faddan

Average Yield

1 ton / faddan



Misr 1

Properties

Resistant to insect and diseases. Tolerant to salinity. Grown throughout the republic

Yield Potential

1.5 ton / faddan

Yield Potential

1.4 ton / faddan



5- Safflower

Giza 1

Properties

Branched – prickly, The color of the flowers is red, Oil percentage 35 - 38%

Yield Potential

2 ton/ acre

Average Yield

1.2 -1.5 ton /acre



Fiber Crops

1-Flax

Giza 9

Properties

Resistant to flax rust and powdery mildew, the percentage of oil is 37.8%. Total fiber percentage 20.50%

YieldPotential

Up to 600 kg seed/ faddan + 3.5 tons straw / faddan

AverageYield

520 kg seed / faddan + 4.5 tons straw/ faddan



Giza 11

Properties

Resistant to flax rust and powdery mildew, the percentage of oil is 43.5%. Total fiber percentage 16.9%

Yield Potential

Up to 1000 kg seed/ faddan + 5.5 tons straw / faddan

Average Yield

791 kg seed / faddan + 5.2 tons straw / faddan



Giza 12

Properties

Resistant to flax rust and powdery mildew, the percentage of oil is 42%. Total fiber percentage 19.23%

Yield Potential

Up to 750 kg seed / fed + 5.5 tons straw / fed

Average Yield

681 kg seed/fed+5.3tons straw/fed



Giza13

Properties

Resistant to flax rust and powdery mildew, the percentage of oil is 37.64%. Total fiber percentage 21.30%

Yield Potential

Up to 490 kg seed / fed + 5.3 tons straw / fed

Average Yield

465 kg seed/fed+4.82tons straw/fed



Sakha 3

Properties

Resistant to flax rust and powdery mildew, the percentage of oil is 33.5 %. Total fiber percentage 22.3%

Yield Potential

Up to 450 kg seed/fed + 5 tons straw/fed

Average Yield

430 kg seed / fed + 4.2 tons straw / fed)



Sakha 5

Properties

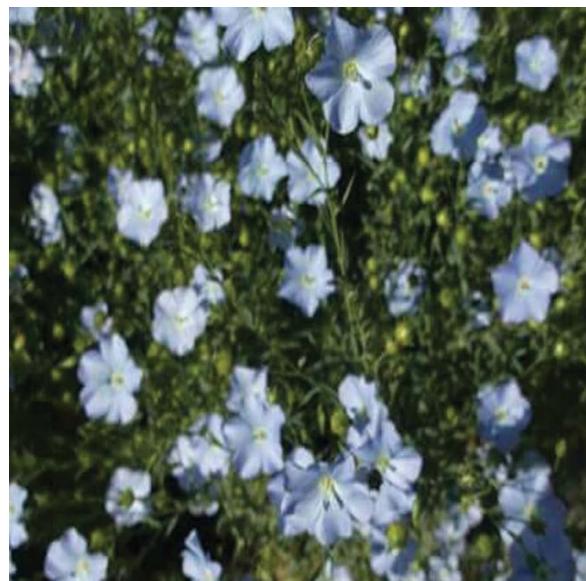
Resistant to flax rust and powdery mildew, the percentage of oil is 46.5 -45 %. Total fiber percentage 12 -13%

Yield Potential

Up to 1000 kg / seed / acre + 4 tons straw / fed

Average yield

900 kg/seed/acre+3.5 tons:straw/fed



Sakha 6

Properties

Resistant to flax rust and powdery mildew, the percentage of oil is 41.1 %. Total fiber percentage 14%

Yield Potential

Up to 800 kg seed / fed + 5.2tons straw /fed

Average yield

700 kg seed/fed+5tons/straw/fed



2-Kenaf

Giza 3

Properties

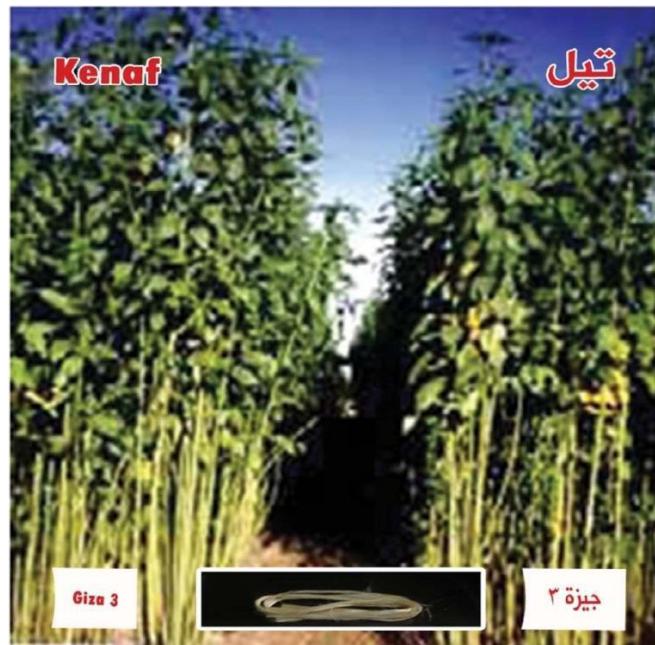
Resistant to leaf worms and capsules, 200 days to maturity

Yield Potential

Up to 22 tons of green, 1.2 tons of fiber

Average yield

20 tons of green, 1 ton of fiber



Sorghum Bicolor

Sohag 1

Properties

The length of the stem ranges from 160 to 170 cm. It is a dual-purpose class, resistant to stem rot, downy mildew and leaf spot medium sized cylindrical jellyfish It bears white pills surrounded by yellow caps It blooms 70 to 75 days after sowing, and matures 110 to 120 days after sowing.

Yield Potential

27 Ardeb / faddan

Average yield

20 ardeb / faddan



Shandweel Hybrid 1

Properties

Stem length ranges from 160 to 200 cm. The marrow of its stems is relatively juicy, Its grains are white or creamy, and it is smaller than the grains of open pollinated varieties, as the weight of a thousand grains ranges from 30 to 36 gm. The period required for ripening, from planting to harvesting, ranges from 110 to 120 days. It is evergreen, so it is dualpurpose

Yield Potential

30 Ardeb / faddan

Average yield

21 -24 ardeb / faddan



Giza 15

Properties

The length of the stem ranges from 3 to 3.5 m. It bears a compact, oval-shaped jellyfish. Its grains are ivory in color and its caps are yellow. The weight of a thousand grains ranges from 45 to 50 g. Early flowering (after about 65 days) and matures at 120 days from cultivation.

Yield Potential

20 Ardeb / faddan

Average yield

19 ardeb / faddan



Dorado

Properties

The length of the stem ranges from 140 to 3.5 150 cm. It is a dual-purpose class, resistant to stem rot, downy mildew and leaf spot medium sized cylindrical jellyfish It bears white pills surrounded by yellow caps It blooms 70 to 75 days after sowing, and matures 110 to 120 days after sowing.

Yield Potential

24 Ardeb / faddan

Average yield

19 ardeb / faddan



Hybrid 306

Properties

Stem length ranges from 160 to 180 cm. The marrow of its stems is relatively juicy, Its grains are white or creamy, and it is smaller than the grains of open pollinated varieties, as the weight of a thousand grains ranges from 30 to 36 gm. The period required for ripening, from planting to harvesting, ranges from 110 to 120 days. It is evergreen, so it is dual purpose.

Yield Potential

30 Ardeb / faddan

Average yield

21 -24 ardeb / faddan



Onion

Giza Red

Properties

Firmness: Firm bulbs with dark red skin, Deep dark red flesh, Good Exportable cultivars for Arabian markets , **Storage:** Good (6-8months)

Planting regions : Adapted for Lower and Middle Egypt

Seed rate : 4 kg/ faddan

Average yield: 14 ton/ faddan

Potential yield : Up to 18/ faddan



Giza 6 Mohassan

Properties

Suitable for export to the European market, Early maturity 3-4 weeks compared to other varieties, White flesh and suitable for drying, Storageability up to 7 months.

Planting regions: Adapted for Upper Egypt.

Seed rate : 4 kg/ faddan

Average yield: 12 ton/ faddan

Potential yield : Up to 16 ton / faddan



Giza 20

Properties

**Suitable for export to European and Arab countries, Copper Skin color with flesh white,
Suitable for drying, Excellent storage ability up to 8 months**

Planting regions : Adapted for Lower Egypt, Fayoum and Middle Egypt

Seed rate : 4 kg / faddan

Average yield: 14 ton / faddan

Potential yield : Up to 18 ton / faddan



Giza white Composite (under registration)

Properties

flesh color are white, Suitable for drying due to its high drying rate compared to yellow cultivars , High storage ability , up to 7 - 8 months

Planting regions : Adapted for Lower ,Middle and Upper Egypt

Seed rate : 4 kg / faddan

Average yield: 14 ton / faddan

Potential yield : Up to 16 ton / faddan



Giza Oblong
(under registration)

Properties

**Oblong-shaped bulbs, Yellow skin and white flesh color , Thin onion neck, High yield,
Suitable for fresh export and drying**

Planting regions : Adapted for Middle and Upper Egypt

Seed rate : 4 kg / faddan

Average yield: 14 ton / faddan

Potential yield : Up to 18 ton / faddan



Giza Sabeini (under registration)

Properties

An early cultivar, about a month earlier than other varieties, it matures mid-February. The bulbs are flattened and medium in size, few number of light yellow scales and the flesh is white. Thin onion neck and small stem plate. **Planting regions:** Adapted for Upper Egypt

Seed rate : 4 kg / faddan

Average yield: 14 ton/ faddan

Potential yield : Up to 16 ton/ faddan



Leguminous crops

A- Winter crops leguminous

1- Faba bean

Misr 1

Properties

Tolerant to *Orobanche*, Moderate resistance to foliar diseases (Chocolate spot and rust)

Yield Potential

12 ardeb / Fed.

Average yield

10 ardeb / Fed.



Sakha 1

Properties

Early Maturing (130 days), Resistant to foliar diseases (Chocolate spot and rust) and high yielding variety

Yield Potential

13 ardeb / Fed.

Average yield

11 ardeb / Fed.



Sakha 4

Properties

Early Maturing, Resistant to foliar diseases, suitable for early cultivation, high yielding variety

Yield Potential
11 ardeb / Fed.

Average yield
10 ardeb / fed.



Giza 716

Properties

high yielding variety , resistant to foliar diseases (Chocolate spot and rust) early maturing (135 days)

Yield Potential

15 ardeb /Fed.

Average yield

12 ardeb / Fed.



Sakha 5

Properties

Resistant to foliar diseases tolerates to *Orobanche*. Suitable for local faba bean production areas except for saline and poorly drained lands
Seeding rate 30 kg/acre

Yield Potential

12 ardeb /Fed.
in land free of broomrape

Average yield

10 ardeb /Fed.
under broomrape infection conditions



Nubira 1

Properties

Large seeded type, with colorless hilum, resistant to foliar diseases (Chocolate spot and rust) and susceptible to *Orobanche*

Yield Potential

15 ardeb / Fed.

Average yield

10 ardeb/Fed



Nubira 3

Properties

Low Water Requirements, Highly resistant to foliar diseases (Chocolate spot and rust)

Yield Potential

12 ardeb / Fed.

Average yield

10 ardeb / Fed.



Wadi 1

Properties

Early (117-120) days to harvest, low water requirements, high Auto-fertility, fit to intercropping with other crops (sugar beet - cane sugar-tomato), with colorless hilum, with good cooking qualities

Yield Potential 12 ardeb / Fed.

Average yield 10 rdeb/Fed.



Giza 843

Properties

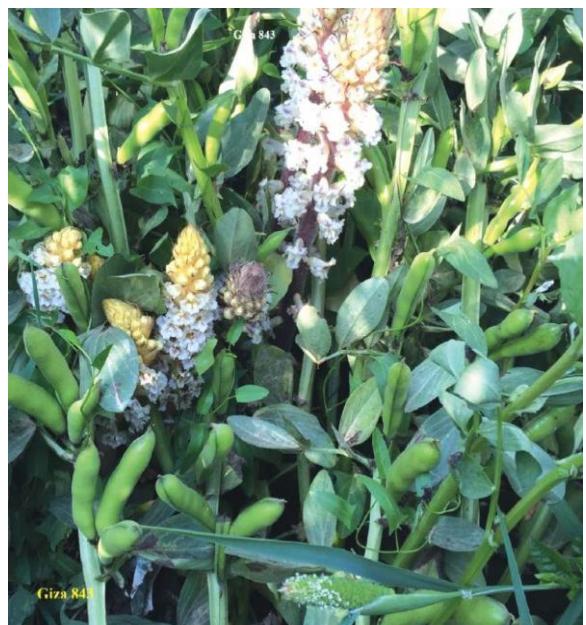
Early flowering and maturity(135 days) , tolerant to *Orobanche* and resistant to foliar diseases (Chocolate spot and rust)

Yield Potential

15 ardeb / Fed.

Average yield

10 ardeb / Fed.



3- Lentils

Sina 1

Properties

Early maturity (120-130 days), large yellow seeds, Resistant to downy mildew and root rot, One of the most suitable and productive varieties under rainy conditions in North Sinai, the North Coast, limestone lands and the Nubaria region.

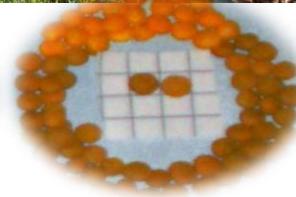
Yield Potential

5 ardeb/ fed in irrigated agriculture

Average yield

3 ardeb/fed in rain-fed agriculture

4 ardeb/fed in irrigated agriculture



Giza 4

Properties

Resistant to wilt and root rot diseases, suitable for cultivation in North and Upper Egypt, Toshka and East Uweinat regions, matures after about 135-145 days.

Yield Potential

8 ardeb/ fed.

Average yield

5 ardab/fed.



Giza 9

Properties

Highly acclimatation, It is suitable for cultivation in the south and north of the valley and the new lands, and it ripens after about 135-150 days.

Yield Potential

6 ardeb/ fed.

Average yield

4 ardab/fed.



Giza 51

Properties

Large seeds, resistant to root rot and wilting, tolerate increased irrigation water; it can be grown in soils with high water levels. It is suitable for cultivation in Upper Egypt and Lower Egypt, and ripens in about 145-155 days.

Yield Potential

8 ardeb/ fed.

Average yield

5 ardeb/fed.



Giza 370

Properties

Best grown after the rice crop in the Delta region. It matures after 140-150 days and can tolerate excess water.

Yield Potential

6 ardeb/ fed.

Average yield

4 ardeb/fed.



Giza 29

Properties

High acclimatization, medium seed, highly yield

Yield Potential

8 ardeb/ fed.

Average yield

5 ardab/fed.



4- Chickpeas

Giza 1

Properties

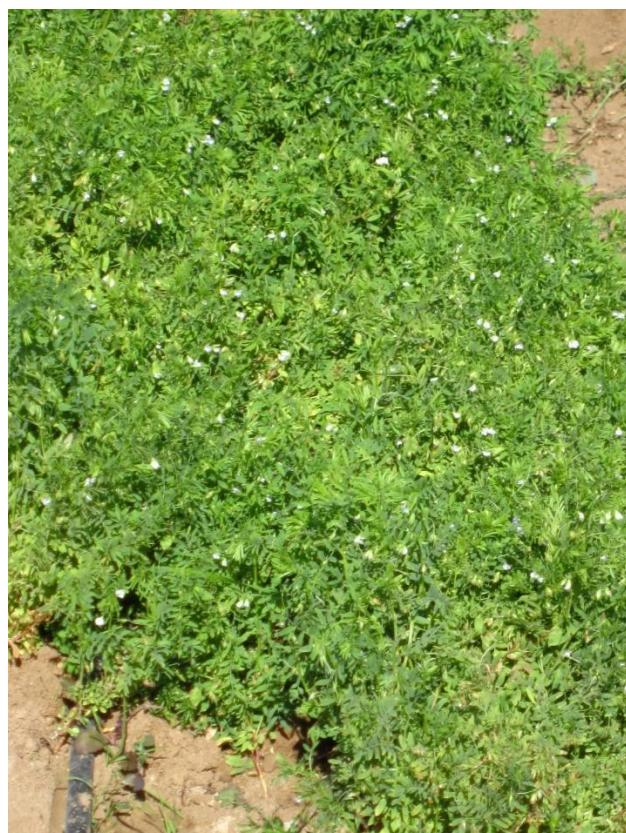
Large-sized variety with high yield and white flower color

Yield Potential

7 ardeb/ fed.

Average yield

5 ardeb/fed.



Sids 101

Properties

Early maturing, drought tolerant, large seeds up to 8 mm, suitable for cultivation in all soils except saline and poorly drained, seed rate 40-50 kg/acre

Yield Potential

7-8 ardebs/fed.

Average yield

6.5 ardebs/fed.



Giza 4

Properties

A newly developed variety, widely adapted and highly productive.

Yield Potential

6 -7 ardeb/ fed.

Average yield

5 ardeb/fed.



Giza 195

Properties

Characterized by its resistance to blight, its medium-sized seeds. Recommended for planting in new lands and irrigating by spraying.

Yield Potential

7 ardeb/fed.

Average yield

5 ardeb/fed.



Giza 531

Properties

A high-yielding variety, it outperforms local commercial varieties by about 10%. Its seeds are large and resistant to root rot.

Yield Potential

7 ardeb/ fed.

Average yield

5 ardeb/fed.



5- Trigonella

Giza 2

Properties

A wide range adaptation, large-seeds, derived from local breeds and grown in North and Upper Egypt.

Yield Potential

7 ardeb/ fed.

Averag Yeild

5 ardeb/fed.



Giza 30

Properties

Properties

A wide range adaptation, large-seeds, derived from local breeds and grown in North and Upper Egypt.

Yield Potential

7 ardeb/ fed.

Averag Yeild

5 ardeb/fed.



6- Lupine

Giza1

Properties

Resistant to wilt disease, developed by individual selection from local strains. It is characterized by strong growth and thrives in Lower Egypt. Flowering takes 75-80 days and maturity takes 165-170 days from planting.

Yield Potential

7 ardeb/ fed.

Average yield

5 ardeb/fed.



Giza 2

Properties

Resistant to wilt disease, developed by individual selection from local strains. It is characterized by strong growth and thrives in Upper Egypt. It flowers about 1 week earlier than Giza and matures 60 days after planting.

Yield Potential

7 ardeb/ fed.

Average yield

5 ardeb/fed.



New variety Giza 3

Properties

A selected variety from imported strains, strong vegetative growth, high yield, and resistance to wilt disease. It matures in 160 days.

Yield Potential

8 ardab/fed.

Average yield

6-7 ardab/fed.

B- Summer leguminous crops

1- Soyabean

Misr 6

Properties

Highly resistant to cotton leafworm. Planted in Lower Egypt, Middle Egypt, and Upper Egypt. A newly developed variety, on the crop, resistant to the cotton leafworm. Seed rate 30 kg/fed.

Yield Potential

1,800 ton/fed.

Average yield

1,450 ton/fed.



Misr 10

Properties

Highly resistant to cotton leafworm, it is grown in all governorates of the Republic and in the new lands. A newly developed variety, high yield, quality and drought tolerance.
Seed rate: 30 kg/fed.

Yield Potential

1,900 ton/fed.

Average yield

1,500 ton/fed.



Giza 21

Properties

Highly resistant to cotton leafworm, hybridized, suitable for planting after wheat in Lower Egypt, matures after about 125-130 days

Yield Potential

1.7 ton/fed.

Average yield

1.5 ton/fed.



Giza 22

Properties

Moderate resistant to cotton leafworm, hybridized variety is high-yielding and matures approximately 115 days after planting. Therefore, it is recommended for cultivation in the Middle and Upper Egyptian governorates. Planting should not be delayed beyond May.

Yield Potential

1.5–1.7 ton/fed. in old lands
1.2–1.4 ton/fed. in new lands

Average yield

1.6 ton/fed.



Giza 35

Properties

A new hybrid variety, highly resistant to cotton leafworm, matures approximately 105-110 days after planting.

Yield Potential

1.5 – 1.6 ton/fed.

Average yield

1.4 ton/fed.



Giza 82

Properties

A hybrid variety that matures in about 95-100 days. It is grown in old and new lands in Upper Egypt due to its sensitivity to the cotton leafworm.

Yield Potential

1.2 -1.4 ton/fed.

Average Yield

1.2 ton/fed.



Giza 111

Properties

Resistant to cooton leaf worm

Yield Potential

2 ton/fed.

Average yield

1.7 ton/fed.



fodder crops

Winter fodder crops Alfalfa

Helaly

Properties

Give from 5-7 tampons due to the length of its growth period

Yield Potential

55 tons / acre of green fodder

Average Yield

50 tons / acre of green fodder



Sakha 4

Properties

Give from 4-5 grafts with a high ratio of four- and five-leaved leaves. Suitable for cultivation after early rice due to its short growth period.

Yield Potential

55 tons / acre of green fodder

Average Yield

45 tons / acre of green fodder



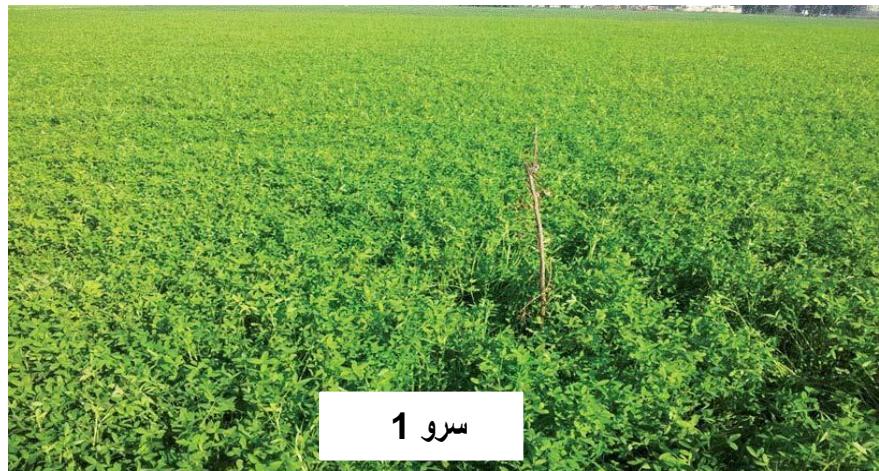
Serw 1

Properties

**Give from 4-5 grafts, tolerant to salinity. Yield Potential
55 tons / acre of green fodder**

Average Yield

45 tons / acre of green fodder



Giza 6

Properties

Given from 5-7 grafts according to the cultivating date. Growth is strong, tolerant to high temperature.

Yield Potential

60 tons / acre of green fodder

Average Yield

50 tons / acre of green fodder



Gemmiza 1

Properties

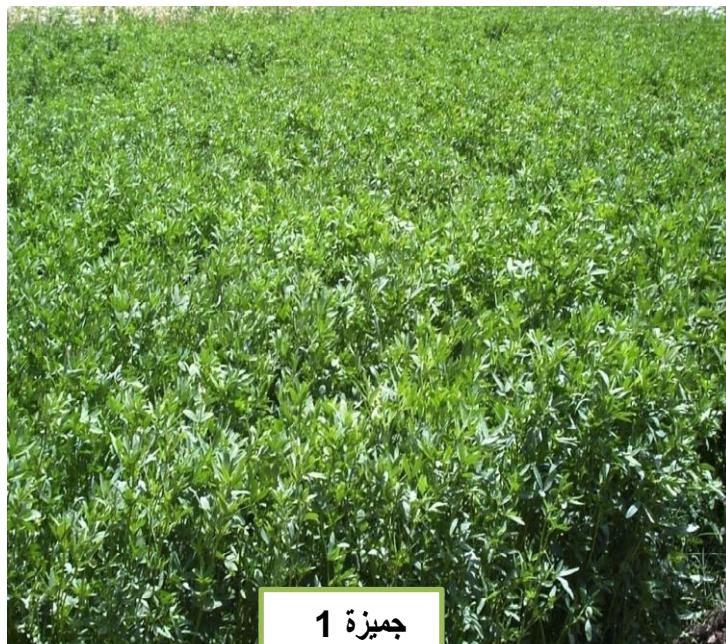
It is given from 5-6 tampons, growth is strong and abundant leaves

Yield Potential

55 tons / acre of green fodder

Average Yield

50 tons / acre of green fodder



Berseem Fahl

Properties

Growth period 90 days, it can be cultivated to fertilized the soil, characterized with high percentage of dry matter, abundant yield, and tolerates to high temperature, planted after early rice and before wheat

Yield Potential

25 tons / acre of green fodder

Average Yield

20 tons / acre of green fodder



Lolium Multiflorum L

Balady

Properties

It is given by 2-3 tampons , tolerates to low temperatures, it tolerates salinity, drought, it is cultivated mixed with Egyptian alfalfa, or it is grown alone, with a high percentage of dry matter.

Yield Potential

40 tons / acre of green fodder

Average yield

30- 35 tons / acre of green fodder



Pennisetum glaucum

Shandweel 1

Properties

Multi-growing annual crop (3-4 stalks), High nutritional value, protein percentage 13% due to the high percentage of leaves to stems, Hydrocyanic free, Highly palatable It, tolerates to drought and high temperature, cultivated in new lands

Yield Potential

60 tons / acre of green fodder

Average yield

45 tons / acre of green fodder



Medicago sativa

Rammah1- Ismailiyah 1- Sewa

Properties

perennial crop (4-7 years), given 6-10 tampons/year, tolerates adverse environmental conditions such as heat, drought and salinity, It adds about 90-130 kg of diesel / acre

Yield Potential

70 tons of green fodder / acre / year

Average yield

40-60 tons of green fodder / acre / year



Sids 2

Properties

Give 7-8 harvests depending on the planting date and continues to produce green fodder until the end of July.

Seed rate:

20-25 kg depending on soil fertility.

Yield Potential

80-85 tons/acre of green fodder.

Average Yield

70 tons/acre of green fodder.

Summer fodder crops

Forage Cowpea

Sids 19

Properties

An early-flowering, upright variety that produces two harvests.

Seed yield: 400-500 kg

Yield Potential

Average Yield

Giza 18

Properties

A predatory, late-flowering variety that produces 2-3 harvests depending on the planting date.

Seed yield: 400-500 kg

Yield Potential

Average Yield

Summer Cereal Forage Crops

Sorghum Hybrid

Sorghum Hybrid 20

Properties

Abundantly branched - multi-cut (2-3 cuts) depending on planting date. Can be grown in the Delta and Lower Egypt.

Productivity:

35-40 tons/acre of green fodder.

Yield Potential

45-55 tons/acre of green fodder.

Sorghum Hybrid 105

Properties

Abundantly branched - multi-cut (3-4 cuts) - can be grown in Upper Egypt.

Productivity:

40-50 tons/acre of green fodder.

Yield Potential

45-55 tons/acre of green fodder.

Sakha Rayana 101 hybrid

Properties

Abundant branching - highly elongated, 4-5 m. The leaves are broad and long. The first harvest produces 20 tons, and the second harvest 25-30 tons. Suitable for chopping and silage in the hybrid phase. High nutritional value.

Productivity for chopping and silage:

40–50 tons/acre of green fodder

Yield Potential

50–60 tons/acre of green fodder

Intensification crop

1- Quinoa

Quinoa

Properties

Seeds are highly nutritious in their protein content (ranging from 16 to 17%), minerals and vitamins; also it can be used as flour or as a whole grain. It is suitable for cultivation in new lands and can withstand salinity and environmental stress. Good source of insoluble fiber, vitamins and minerals. It has phytin, which protects humans from cancer. Used as fodder, compared to alfalfa, we find that the dry matter in quinoa ranges from 13 to 17% compared to 15% in alfalfa.

Misr 1

Properties

Growth period 130 days, low water requirements, protein content in grains 13, contains many essential amino acids, lysine content 1.5, contains a high percentage of vitamins (H- B- C) as well as minerals (calcium - phosphorus - magnesium - iron - copper - manganese - zinc), its cultivation is good in most lands and desert lands, seed rate 2 kg / acre

Yield Potential

Up to 1.25 tons/acre seeds

Average yield

950 kg/acre seeds



2- Cassava

Cassava

Properties

A perennial deciduous shrubby dicotyledonous plant. Height ranging from 1.5 to 4 meters. It belongs to the Euphorbiaceae family, which contains 150 species. It tolerates harsh environmental conditions, so it can be grown in deserts and poor lands. 65% of the plant is used for human consumption, 21% for animal feed, and 14% for industries such as (starch, glucose, beer, alcohol). Considered a good and cheap source of calories, as used in bread making after mixing it with wheat flour at a rate of 5:20%. Used as animal feed after simple treatments, as it is a source of protein. compared to 15% in alfalfa.

Misr 1

Properties

Resistant to drought, diseases and insects. It stays in the soil for 300 days. The tubers contain a large amount of starch at a rate of 25-30%. The leaves contain 17% protein and can be used as fodder. It is best grown in sandy soils in all governorates. Seed rate 2 kg/acre.

Yield Potential

14 tons/acre.

Average yield

10 tons/acre

Average yield

