Sweet corn

* Corn plants are picky about their soil. Work in aged manure or compost the fall before planting and let it overwinter in the soil.
* Starting corn seeds indoors is not recommended.
* Plant seeds outdoors two weeks after the last spring frost date.
* Make sure the soil temperature is above 60°F (16°C) for successful germination. (Up to 65°F/18°C for super sweet varieties.) In colder zones, the ground can be warmed by a black plastic cover if necessary. Plant seeds through holes in the plastic.
* Plant seeds 1.5 to 2 inches deep and 4 to 6 inches apart. Rows 30 to 36 inches apart.
* For sufficient pollination, plan your plot right. Don’t plant two long rows, rather, plant corn blocks of at least four rows.
* You may choose to fertilize at planting time; corn is meant to grow rapidly. If you are confident that the soil is adequate, this can be skipped.
* Water well at planting time

Cotton

* Long vegetation periods (175 to 225 days) without frost.
* Constant temperatures between 18 and 30°.
* Ample sunshine and fairly dry conditions.
* A minimum of 500 mm of water between germination and boll formation.
* Deep, well-drained soils with a good nutrient content

Rice

* A monthly rainfall of 100-200 mm is a must and about 125 cm is during vegetative season. And there should be no water at ripening stage.
* Requires a fairly high temperature, ranging from 20° to 40°C. The optimum temperature of 30°C during day time and 20°C during night time
* grown well on the alluvial soil or on the fertile river basins. clayey loam is well suited to the raising of this crop.
* The amount of solar radiation received during the 45 days leading up to harvest determines final crop output.

Wheat

* Wheat needs 12 to 15 inches (31 to 38 centimeters) of water to produce a good crop.
* It grows best when temperatures are warm, from 70° to 75° F (21° to 24° C), but not too hot.
* Wheat also needs a lot of sunshine, especially when the grains are filling.
* Areas with low humidity are better since many wheat diseases thrive in damp weather.…

Soyabean

* Temperatures of at least 15 degrees C are needed to germinate the seed and mean temperatures of 20-25 C to grow the crop.
* Soybeans need at least moderate soil moisture in order to germinate and for seedlings to become established, but need dry weather for the production of dry seed.
* Soybean is moderately drought tolerant requiring a minimum of 400mm of well distributed rainfall during the vegetative growth period which lasts 3-4 months
* Soybeans can grow on a wide range of soils but thrive best on sand, clay loams and alluvial soil of good fertility. The soils should be well drained, fertile and rich in calcium with a pH range of 5.6-7.0.

Pulses

* Temperature: 20° to 30°C
* Rainfall: 50° cms to 75 cms
* These can be grown on all types of soils but a dry light soil is best suited.

Maize

**Temperature:**15°-27°C

**Rainfall:** 65-125 cm

**Soil:** Deep-heavy clay to light sandy loam

Oilseeds

**Temperature:**15°-30°C

**Rainfall:** 30-50 cm

**Soil:**loam to clayey loam

SugarCane

**Temperature:**20°-35°C

**Rainfall:** 85-165 cm

**Soil:** Well-drained alluvium, black, red and brown regur soil

 A total rainfall between 1100 and 1500 mm is adequate provided the distribution is right, abundant in the months of vegetative growth followed by a dry period for ripening

 High humidity (80-85%) favours rapid cane elongation during grand growth period. A moderate value of 45-65% coupled with limited water supply is favourable during the ripening phase.