South America

Common names: English: Cocoa.

A small understorey tree from the rain forest of northern South **Ecology:** 

> America where several species grow in the deep rich soils. Cacao is a local name and theobroma means "food of the gods" for the beans have been used and highly valued from ancient times. Today, the crop is a major export from West Africa and grows best in a narrow belt north and south of the equator. In Uganda, it grows in Bundibugyo District under Maesopsis eminii and in Mukono District with banana and coffee or in forest on farmers' land. It needs to be protected from both sunlight and strong wind.

Food (cocoa from the beans), drink.

An evergreen tree to 15 m if unpruned but in cultivation kept to

6 m or less. It has characteristic branching of two types bearing different leaf arrangements. At 90-150 cm above the ground the terminal bud stops growth and a "fan" of 3-5 branches grows out. Suckers below this are not used. The first leaf "fan" dies down and is replaced by a new one. LEAVES: large, simple, 17-30 cm, often smaller, hang down, red-brown when young, wider towards the pointed tip. FLOWERS: on short shoots like "cushions" on the trunk and woody branches; small and yellowwhite about 1 cm across. The ovary has 5 sections which contain 2 rows of ovules. FRUIT: the ovary develops into a ribbed pod **15-20 cm long** with rows of beans, green at first like a cucumber. The fleshy pulp around 20-50 oval seeds is white at first, ripening red-brown. The thin fruit shell becomes shiny red-purple-brown.

Seedlings (sow seed in pots), cuttings, direct sowing on site (guard

against being eaten by rodents). First raise cuttings in a nursery. Collect pods from healthy trees, crack open, then dry the seeds,

not necessary.

store for not more than 3 months spread out on a cement floor to prevent damage by rodents. Add ash to reduce insect damage.

Grows best in neutral to acid well-drained soils. The long taproot

will not grow down into shallow or rocky soils. Prepare deep holes and space plants 3 m apart. Pruning. Seedlings need shade. There are several varieties, some bearing fruit in 3-5 years. The

pulp in the pods is edible when ripe. Chocolate and cocoa are made from the beans. Seeds are allowed to ferment for 6 days when the bitter pulp decays away. The washed and dried beans are exported. In processing, the outer shells are removed and the seeds roasted. They contain over 50% cocoa butter and half of this is removed in manufacturing cocoa powder. Cocoa has a high

food value and also contains an alkaloid stimulant—theobromine. It could be grown successfully in a number of areas in Uganda.

Uses:

**Description:** 

**Propagation:** 

Seed:

treatment:

storage:

**Management:** 

Remarks:

Theobroma cacao Tiliaceae

