

A.2





Section A: Information on **Avocado Crop Planting**

Main use:



Sprout color: reddish-brown

Medium canopy height: from 5 to 8 meters and semi-open.

Production

DESCUBR

It is estimated that in the country there are 3,000 hectares

production and about 800 producers.

dedicated to

the dropping of flowers, fruits, and

the development of wounds. In

case of excessive winds, it is

advisable to place windbreak

Flowering to fruit period: 8 to 10 months **Characteristics of**

Fresh produce

the Hass variety. Ripening point: when the fruit loses its shine and turns to a dull dark

Wind

The most recommended soils are those of light texture, deep, well-

To obtain vigorous and fast-growing trees, one should acquire trees from a

In the first three years of crop development, pruning requires little attention.

green.

Production starts at three years. It has two harvest peaks, the first from May to July and the second from October to December, with the latter being considered the main one due to the volume of production.

Soil and climate requirements.

Relative

Humidity

A.4.1. **Temperature** 18-25 ° C Precipitation Between 1.200 y recommended 1.500 mm max.

Moderate, otherwise it encourages

Less than 65%

recommended

barriers in the plantation...

drained with a neutral or slightly acidic pH (5.5 to 7), but it can be Soils cultivated in loamy or clayey soils as long as there is good drainage."

registered nursery whose graft is on a thick and vigorous rootstock, with a **Acquisition of** height of 40 to 50 cm from the base. trees or **A.6** vegetative

It is recommended to have the land and planting holes ready for material immediate planting. The trees should not remain in the field for several days without being planted.

Propagation by grafting is the most appropriate method for reproducing the **A.7** varieties selected for a commercial plantation, as grafted trees are uniform in terms of fruit quality, shape, and size.

Avocado can be propagated by seed or by grafting. Propagation by grafting

A.8.1 is the most appropriate method for reproducing the varieties selected for a **Propagation** commercial plantation, as grafted trees are uniform in terms of fruit quality, shape, and size.

From the third year onwards, it is recommended to maintain the shape of the tree to facilitate harvest tasks. Branches with excessive vertical growth, A.8.2 low branches or those close to the ground, and weak or sick stems should **Trimming** be pruned. Four types of pruning are identified: formation, sanitation, thinning, and pruning to lower the tree canopy.

A.8.3**Crop Length**

Crop Management

A.8



A.9

Fertilization

It is recommended to perform soil tests before establishing an avocado plantation to determine nutritional requirements. Once the plantation is established, it is advisable to conduct soil and leaf analyses once a year. In general terms, the following suggestions can be used as a basis for avocado fertilization: for each year of the tree's age, one kilo of a fertilizer rich in nitrogen and potassium, such as the 18-5-15-6-2 formula, divided into three applications - one at the onset of the rainy season and the other two every two months. When the tree starts producing, nitrogen fertilization should be increased, as during the period between the start of flowering and fruit ripening, the tree demands the most nitrogen. An additional kilogram of urea is recommended, added to the dose of the complete formula, 40 days after flowering. It is advisable to apply minor elements such as copper, zinc, manganese, and boron one or two times a year through foliar fertilizers.

Section B: Harvest and post-harvest of avocado.

B.1

Harvesting the fruits requires the use of plastic boxes and harvesting rods. These rods come with a bag attached at one end where the avocados are stored when they are detached from the trees. These bags prevent the fruit from falling to the ground.

Freshly harvested fruit should be placed in plastic boxes, and these boxes must be clean.

The boxes with the avocados should be placed in the shade or covered with tarps to protect them from the sun, preventing burns on the skins.

D 7

The post-harvest handling of the avocado begins with the cutting of the peduncle, and this activity should be carried out with clean scissors. Care must be taken with the nipple's fall as it can lead to the entry of fungi or diseases into the fruit.

The recommended weight per avocado box is 15 kg so that when one box is stacked on top of another, it does not damage the fruits.

It is recommended to transport the product to the collection center or sales location on the same day as the harvest. It is important to consider that during the transport of the fruit, it should be secured to avoid rubbing that causes physical and visual damage, and contact with the sun should be avoided.

Section C: Information on production costs

C 1

Total production cost per hectare of Hass avocado

C 2

Operational Cost Per Year

| Year 1 | ¢8 197 769 |
|---------|-------------|
| Year 2 | ¢3 777 445 |
| Year 3 | ¢5 548 645 |
| Year 4 | ¢7 237 077 |
| Year 5 | ¢24 204 034 |
| Year 6 | ¢13 994 282 |
| Year 7 | ¢5 480 585 |
| Year 8 | ¢14 144 066 |
| Year 9 | ¢13 398 050 |
| Year 10 | ¢13 985 785 |
| Year 11 | ¢13 979 906 |
| Year 12 | ¢13 979 906 |
| | |

Considerations: the labor tasks include: land clearing, land marking, terrace construction, marking for planting, hole-making, hole preparation, tree planting and replanting, windbreak planting, weeding, herbicide application, fertilizer application, manure application, fungicide application, channel layout and maintenance. Amendment application, paths, formative pruning, harvesting, and transportation.

Also considered were: Inputs, fertilizers, insecticides, fungicides, and avocado trees.