Introduction
There are two main kinds of calaloo, produced from distinctly different plant species. One kind comes from the Amaranthus family and consists of young tender leaves and stems. The other kind consists of the young tender leaf and stem of the eddoe plant.

A variety of Amaranthus calaloo types are grown, differing in size, shape, and colour of the edible leaves. The plants usually grow around 1 meter (3.3 ft) in length. Variety also exists in the eddoe calaloo, although to a lesser degree than with the Amaranthus calaloo.

Harvest Maturity Indices
Calaloo can be grown quickly and harvested regularly. Several different methods can be used to determine harvest maturity of calaloo, including the number of days following planting and the texture of the leaves/stems.

The number of days from seeding or transplanting provides a rough estimate of when to begin harvest. Harvest normally should begin about 45 to 50 days after planting.

Leaf and stem texture is another commonly used sign of when to harvest. Calaloo leaves should be harvested right after they have fully expanded. The leaves and adjoining stems should be tender, juicy, and free of fiber.

The tender young leaves and stems of calaloo can be harvested multiple times. Most growers get about six harvests per plant from Amaranthus calaloo before it begins to flower and form seeds. Harvesting usually finishes when the plant begins to form seeds, as the flavor lessens and the texture becomes tougher. New eddoe calaloo can be harvested several times from the same plant.

Harvest typically finishes when the size of the young leaves significantly reduces due to a loss in plant vigour.

Harvest Methods
The tender young shoots of calaloo may be cut from the plant with a knife or snapped off by hand. The delicate leaves and stems should be handled gently to avoid tearing. The freshly harvested calaloo should not be placed on the ground. Rather, it should be put directly in the field container. Field containers can be baskets, plastic buckets, or well-ventilated plastic crates. In order to maintain product quality, calaloo should be put in the shade and kept as cool as possible. Avoid leaving the harvested calaloo in the sun or in a breezy location. It is suggested that harvesting be done during the coolest time of the day, usually in the early morning.

Calaloo should be harvested every 3 days. Regular picking increases yield. Flower buds should be removed as soon as they appear, since they reduce the plant's ability to grow more.

Preparation for Market
Calaloo should be taken to the packing area as soon as possible after harvest, ideally within an hour after picking. It is a very fragile product and should be quickly cleaned, sorted, bunched, packed, and cooled.

Cleaning
Calaloo is usually washed and bunched before sale in the marketplace. If a small amount of calaloo is being harvested for sale at a nearby market, a small tub of cold water can be used to cool the calaloo. The tub can also be used by the picker as a field container. Clean water should be used with each new tub of harvested calaloo. Chilling calaloo by using cold water immediately after harvest will help keep quality and prevent leaf and stem wilting.

In order to avoid the spread of disease, particularly bacterial soft rot, the wash water should be clean and sanitized with 150 ppm hypochlorous acid (household bleach) and maintained at a pH of 6.5. This is equal to 2 oz of household bleach (such as Marvex) per 5 gallons of water, or .3 liters of bleach per 100 liters of water. The chlorine level and pH of the wash water should be checked with paper test strips or a portable meter.

Grading/Sorting
Calaloo coming from the field is usually quite uneven in size, shape, and colour. Grading and sorting for sameness of appearance is important to satisfy market requirements. Leaves which are torn, diseased, wilted, or spotted should be thrown out. Only high quality, tender, green calaloo should be packed for market. Some markets require the calaloo to be wrapped in small bunches, while others prefer non-wrapped bulk leaves and stems. A common sized bunch for export is 500 gm (1 lb).

Packing
Calaloo should be packed in well-ventilated containers to reduce heat due to product respiration. Calaloo packed in non-ventilated containers will be difficult to keep cool. Fiberboard cartons containing 5 kg (11 lb) of calaloo are commonly used for export. A total of 10 bunches, each weighing 500 gm (1 lb), are put in the carton. Wrapping pre-cooled bunches in perforated plastic bags will reduce wilting.

Temperature Control
Wilting and loss of freshness is a common postharvest problem with calaloo, since most Guyanese growers do not cool the vegetable or maintain a high storage relative humidity. At average temperature without cooling or humidity control, the
market life for calaloo is only 1 day. Postharvest life can be extended for up to a week by the use of refrigeration and adding supplemental moisture to the storage atmosphere. For maximum market life, calaloo should be cooled immediately after harvest and stored at 0°C (32°F). The maximum acceptable holding temperature is 4°C (40°F). However, market life will be several days less at 4°C compared to a week at 0°C. At temperatures above 15.6°C (60°F), the leaves and stems will rapidly wilt, turn yellow, and decay.

Relative Humidity

The high surface area and numerous pores in the leaf tissue make calaloo very at risk to moisture loss and wilting. This results in the loss of leaf and stem quality. The storage environment should be very humid to minimize the loss of leaf freshness and avoid shriveling and adverse textural changes. For maximum market life, both kinds of calaloo should be held at 95% to 98% relative humidity (RH).

Principal Postharvest Diseases

The most common postharvest diseases of calaloo are bacterial soft rot and watery soft rot. Decay can be controlled by preventing damage during harvest and handling, trimming off infected leaf tissue, washing in appropriately sanitized water, and holding the harvested calaloo as close to 0°C (32°F) as possible. In addition, the use of clean seed and pre-harvest application of approved fungicides will reduce the amount of disease in the field and lower the incidence of postharvest disease. Clean production practices will also reduce the build-up of the fungus in the soil. Weeds should be controlled because they harbour postharvest disease and their foliage creates a moist environment favouring disease development.

Bacterial Soft Rot

Bacterial soft rot is caused by various bacterial species that enter the leaf or stem tissue after wounding. Infected tissue quickly decays and turns into a soft, slimy, foul-smelling mess at average temperatures.

Watery Soft Rot

Watery soft rot may be a problem on calaloo produced during the rainy season or in poorly drained fields. Symptoms appear as water-soaked spots on the outer leaves that eventually combine into a leaky soft tissue mass. Affected tissue often turns grey, giving rise to a fluffy white mould which eventually is dotted with black fungal bodies. In contrast to bacterial soft rot, there is no unpleasant odor associated with watery soft rot.