

Jackfruit Growing in the Florida Home Landscape¹

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Figure 1. Cleaning a ripe jackfruit.

Credit: Ian Maguire, UF/IFAS TREC

Scientific names: *Artocarpus heterophyllus* Lam.

Synonyms: *Artocarpus integrifolius* Auct.; *A. integra* Merr.

Other common names: English—jakfruit, jak; Spanish—jaca; Portuguese—jaca, jaqueira

Family: Moraceae

Relatives in the same family: Breadfruit (*Artocarpus altilis*), fig (*Ficus* sp.), mulberry (*Morus* sp.), champedak (*A. integer*), kwai muk (*A. lingnanensis*), *Ficus benjamina*.

Origin: Probably India

Distribution: India, Myanmar, Sri Lanka, China, Malaysia, Philippines, Australia, Kenya, Uganda, Mauritius, Mexico, the Caribbean, and Central and South America. Jackfruit is not widely cultivated in the US but may be found in south Florida and Hawaii.

Importance: Jackfruit is important in India and other Asian countries like Sri Lanka, southern China, Malaysia, and Myanmar. There is limited production in Australia, Mauritius, Brazil, Surinam, Jamaica, Mexico, Hawaii, and south Florida.

Description

Trees. Erect, evergreen, fairly large tree, 30 to 40 feet (9–12 m) tall in Florida (Figure 2).



Figure 2. Seedling jackfruit tree trunk area.

Credit: Ian Maguire, UF/IFAS TREC

Leaves. Dark green, alternate, glossy and somewhat leathery, fairly large and oval shaped on mature wood and deeply lobed on young shoots (Figure 3). All parts of the leaf contain a sticky white latex.



Figure 3. Jackfruit leaves.

Credit: Ian Maguire, UF/IFAS TREC

Flowers. Short, stout flowering twigs emerge from the trunk and large branches. The tree is monoecious (i.e., male and female flowers on the same tree) with small male flowers held by a thin pedicel. Female flowers are larger than the males and the pedicel is quite thick.



Figure 4. Jackfruit flowers.
Credit: Ian Maguire, UF/IFAS TREC

Fruit. The jackfruit is a multiple fruit i.e., composed of the coherence of multiple flowers (Figures 1 and 5). Fruit is moderately large to very large, weighing from 10 to 60 pounds (4.5–27.3 kg). A few cultivars are small fruited, weighing 3 to 10 pounds (1.4–4.5 kg) each. The skin is extremely rough and thick. Fruit skin color is green when immature and green, greenish-yellow to brownish-yellow when ripe. The inside of the fruit contains the edible, sweet, aromatic, crispy, soft, or melting pulp that surrounds each seed. Between the seeds and edible pulp is the inedible "rag". Pulp color varies from amber to yellow, dark yellow, or orange. Seeds are $\frac{3}{4}$ to $1\frac{1}{4}$ inches (2 to 3 cm) long, oval; the number per fruit varies from 30 to 500. The time from flowering to fruit maturity ranges from 150 to 180 days.



Figure 5. 'Black Gold' jackfruit.
Credit: Ian Maguire, UF/IFAS TREC

Season of bearing. The main fruiting season is in summer and fall. Some fruit may ripen at other times, but usually not in winter and early spring.

Varieties

There is limited experience on the performance of jackfruit cultivars under various conditions; however, initial evaluation of a number of cultivars has been completed (Table 1 and Table 2). Homeowners should evaluate their fruit preferences carefully prior to selecting a tree for the landscape.



Figure 6. Black Gold, Australia.
Credit: Ian Maguire, UF/IFAS TREC



Figure 7. Gold Nugget, Australia.
Credit: Ian Maguire, UF/IFAS TREC



Figure 8. Kun Wi Chan, Thailand
Credit: Ian Maguire, UF/IFAS TREC

Climate

The jackfruit is well adapted to the hot humid tropics. Jackfruit grows well in the humid subtropical climate of south Florida along the coastal areas where there are only occasional freezes. Optimum growth and production occurs in continuously warm areas.

Drought Stress

Jackfruit trees are moderately drought tolerant. However, for optimum tree growth and fruit production trees should be watered during prolonged dry periods.

Flooding Stress

Jackfruit trees are not tolerant of continuously wet and/or flooded soil conditions. Trees may decline or die after 2 to 3 days of wet soil conditions.

Cold Stress

Jackfruit leaves may be damaged at 32°F (0°C), branches at 30°F (-1°C), and branches and trees may be killed at 28°F (-2°C).

Wind Stress

Jackfruit trees are tolerant of mild to moderately windy conditions. Trees may survive and recover from hurricane force winds with some limb damage.

Salt Stress

There is only limited information of jackfruit tree tolerance to saline soil and/or water. Trees are probably not tolerant of saline conditions.

Propagation

Jackfruit may be propagated by seed, grafting, and cuttings. In some areas, seed propagation is still used. Jackfruit from seed may be more precocious than many other fruit, and trees may begin production in the 3rd to 4th year. Seeds should be collected from trees that have regular, high yields and that also have good horticultural characters, such as insect, disease, and nematode resistance, proper fruit size and excellent pulp quality. Seeds are relatively short lived and may be stored up to about 30 days. In south Florida, seedlings and grafted trees are used.

If possible grafted trees of known cultivars are preferred. Seedlings of 'NS-1' and 'Black Gold' jackfruit have been used as rootstock sources. For rootstocks, select vigorously growing seedlings that are healthy, and eliminate stunted, yellow, or chlorotic seedlings. Chip budding, side veneer grafting, cleft grafting, and approach grafting have been used, but mostly side veneer grafting. Select scions or budsticks from trees growing vigorously, preferably in the summer or fall. Cut bud sticks 4 to 6 inches (10–15 cm) long from shoot tips, remove all the leaves, and be sure that the terminal bud is swollen. Budwood may be prepared ahead of time by removing the tip and then collecting the scions when buds begin to swell, after a week or two. Bud or graft trees when the rootstocks are about pencil size in diameter. The tip of the terminal bud should be left uncovered when veneer grafting. Place grafted trees in a mist bed in partial shade or cover with a plastic bag and place in the shade.

Jackfruit can also be propagated by air layers, but this method is not commonly used.

Jackfruit trees are greatly affected by root restriction (i.e., being pot bound) and develop a deeper and stronger root system if planted in large, deep, long (18–24 inches; 45–61 cm), plastic pots. When planted, pot-bound trees do not establish well and grow poorly. Large jackfruit trees (2–4 feet tall; 0.6–1.2 m) establish more quickly and grow better when planted out than do small trees.

Cuttings are not a common propagation method for jackfruit, nor have plants propagated in this manner been tested under field conditions. However, semi-hardwood cuttings with 3 leaves (leaves cut in half across the midrib) dipped in 5,000 to 10,000 ppm IBA (1H-indole-3-butanoic acid) and placed in an intermittent mist bed will root in about 60 to 70 days.

Production (Crop Yields)

Jackfruit are wind and insect pollinated, and generally fruit set and fruit quality is enhanced by cross pollination among different cultivars (or seedlings). Thus, planting more than one cultivar may be of benefit. Mature jackfruit trees may produce from 40 to over 250 pounds (18–114 kg) per tree, depending on the cultivar, weather, and cultural practices. Trees that average 150 pounds (68 kg) per tree or more are considered good producers.

Spacing

At maturity, jackfruit trees not periodically pruned become large trees. If little or no pruning is planned, then jackfruit in the home landscape should be planted 25 to 30 feet (7.6–9.1 m) away from other trees and structures. If annual or semi-annual pruning is practiced jackfruit trees may be planted 20 to 25 feet (6.1–7.6 m) away from other trees and structures. Trees planted too close to other trees or structures may not grow normally or produce much fruit due to shading.

Soils

Trees grow best in well-drained soils. Trees tolerate sand, sandy loams, and the rocky, well-drained, high pH, calcareous soils of southern Florida.

Planting a Jackfruit Tree

Planting may be done at any time in south Florida provided there is access to water for the newly planted trees. Otherwise, the best time to plant is in late spring or early summer, early in the rainy season. Properly planting

a jackfruit tree is one of the most important steps in successfully establishing and growing a strong, productive tree. The first step is to choose a healthy nursery tree. Commonly, nursery jackfruit trees are grown in 3 gallon containers and trees stand 2 to 4 ft from the soil media. Large trees in smaller containers should be avoided as the root system may be "root bound". This means all the available space in the container has been filled with roots to the point that the tap root is growing along the edge of the container in a circular fashion. Root bound root systems may not grow properly once planted in the ground.

Inspect the tree for insect pests and diseases and inspect the trunk of the tree for wounds and constrictions. Select a healthy tree and water it regularly in preparation for planting in the ground.

Site Selection

In general, jackfruit trees should be planted in full sun for best growth and fruit production. Select a part of the landscape away from other trees, buildings and structures, and power lines. Remember jackfruit trees can become very large if not pruned to contain their size. Select the warmest area of the landscape that does not flood (or remain wet) after typical summer rainfall events.

Planting in Sandy Soil

Many areas in Florida have sandy soil. Remove a 3 to 10 ft (0.9–3.1 m) diameter ring of grass sod. Dig a hole 3 to 4 times the diameter and 3 times as deep as the container the jackfruit tree has come in. Making a large hole loosens the soil adjacent to the new tree making it easy for the roots to expand into the adjacent soil. It is not necessary to apply fertilizer, topsoil, or compost to the hole. In fact, placing topsoil or compost in the hole first and then planting on top of it is not desirable. If you wish to add topsoil or compost to the native soil, mix it with the soil excavated from making the hole in no more than a 50-50 ratio.

Backfill the hole with some of the native soil removed to make the hole. Remove the tree from the container and place it in the hole so that the top of the soil media in the container is level with or slightly above the surrounding soil level. Fill soil in around the tree roots and tamp slightly to remove air pockets. Immediately water the soil around the tree and tree roots. Staking the tree with a wooden or bamboo stake is optional. However, do not use wire or nylon rope to tie the tree to the stake as they may

eventually damage the tree trunk as it grows. Use a cotton or natural fiber string that will degrade slowly.

Planting in Rockland Soil

Many areas in Miami-Dade County have a very shallow soil and several inches below the soil surface is a hard calcareous bedrock. Remove a 3 to 10 ft (0.9–3.1 m) diameter ring of grass sod. Make a hole 3 to 4 times the diameter and 3 times as deep as the container the jackfruit tree has come in. To dig a hole there are several options; use a pick and digging bar to break up the rock or contract with a company that has augering equipment or a backhoe. Plant as described in the section above.

Planting on a Mound

Many areas in Florida are within 7 ft (2.1 m) or so of the water table and experience occasional flooding after heavy rainfall events. To improve plant survival, consider planting fruit trees on a 2 to 3 ft (0.6–0.9 m) high by 4 to 10 ft (1.2–3.1 m) diameter mound of native soil.

After the mound is made, dig a hole 3 to 4 times the diameter and 3 times as deep as the container the jackfruit tree has come in. In areas where the bedrock nearly comes to the surface (rockland soil) follow the recommendations for the previous section. In areas with sandy soil follow the recommendations from the section on planting in sandy soil.

Care of Jackfruit Trees in the Home Landscape

A calendar outlining the month-to-month cultural practices for jackfruit is shown in Table 3.

Fertilizer

After planting when new growth begins, spread 1/4 lb. (113 g) of fertilizer, such as 6-6-6 with minor elements and 30% of the nitrogen from organic sources, per tree (Table 4). Repeat fertilizer applications about every 8 weeks for the first year. Then, gradually increase the amount as the trees grow.

Apply 4- to 6-minor element (nutritional) sprays per tree per year, sprayed on the foliage from April to September. For trees in acid to neutral soils apply iron sulfate at 0.25 to 1 oz per tree to the soil 2 to 4 times per year. Apply a soil drench of chelated iron once or twice per year per tree from June through September. For calcareous soils use EDDHA (technical sodium ferric ethylenediamine di-(o-hydroxy-phenylacetate) iron chelate, and for neutral

and acid soils use EDTHA (technical sodium ferric diethylenetriamine pentaacetate) iron chelate.

For mature trees, fertilizer should be applied 2 to 3 times from bloom to right after harvesting and pruning. Iron applications are most effective from May to September, and foliar sprays from April to September.

Irrigation (Watering)

A means of watering young trees should be available for newly planted and young trees. Regular watering during dry periods is recommended for newly planted and young trees. For mature trees watering is recommended during dry periods and is critical from bloom through fruit development.

Insect Pests

There are a number of wood boring insects that may attack wounded or dead wood along the trunks and branches (*Elaphidion mucronatum*, *Nyssodrysin haldemani*, *Leptostylopsis terraecolor*). Various scales such as the lesser snow scale (*Pinnaspis strachani*), coconut scale (*Aspidiotus destructor*), mango shield scale (*Protopulvinaria mangiferae*), pyriform scale (*Protopulvinaria pyrifomis*), and mealybugs may attack stems and fruit. Please contact your local UF/IFAS Extension agricultural agent for current control options.

Diseases

In general, jackfruit have few disease problems in south Florida. Male flowers and fruit may be attacked by *Rhizopus* fruit rot (*Rhizopus artocarp*) and fruit by gray mold (*Botrytis cinerea*). Trees are susceptible to root rot (*Pythium splendens*, *Phytophthora* sp., *Fusarium* sp., *Rhizoctonia* sp.) especially when subjected to flooding. Several fungi (i.e., *Gloeosporium* sp., *Phyllosticta artocarp*) cause leaf spotting. Please contact your local UF/IFAS Extension agricultural agent for current control options.

Weed Control

Weeds compete for water and nutrients and may slow tree establishment. After planting, keep grass away from the tree trunk.

Jackfruit Trees and Lawn Care

Jackfruit trees in the home landscape are susceptible to trunk injury caused by lawn mowers and weed eaters. Maintain a grass-free area 2 to 5 or more away from the trunk of the tree. Never hit the tree trunk with lawn mowing equipment and never use a weed eater near the

tree trunk. Mechanical damage to the trunk of the tree will result in weakening the tree and if severe enough can cause the tree to dieback or die.

Roots of mature jackfruit trees spread beyond the drip-line of the tree canopy and heavy fertilization of the lawn adjacent to jackfruit trees is not recommended and may reduce fruiting and or fruit quality. The use of lawn sprinkler systems on a timer may result in over watering and cause jackfruit trees to decline. This is because too much water is being applied too often, which results in root rot.

Mulch

Mulching jackfruit trees in the home landscape helps retain soil moisture, reduces weed problems adjacent to the tree trunk, and improves the soil near the surface. Mulch with a 2 to 6 inch (5–15 cm) layer of bark, wood chips, or similar mulch material. Keep mulch 8 to 12 inches (20–30 cm) from the trunk.

Pruning

Young trees. Young jackfruit trees do not need pruning during their first year. Shoot tip pruning once or twice during spring and summer will force lateral bud break and make the tree more compact. Non-pruned trees usually develop a strong central leader. During the second season, trees should be pruned to the first lateral branch, which will slow upward growth and enhance spreading of the canopy. As trees mature, upright vigorous shoots should be removed and the inner canopy thinned out at the end of the harvest season.

Mature trees. Removal of selected upright, vigorously growing shoots is recommended. Removing the central leader to a weak lateral branch will slow upward growth and enhance lateral canopy development. Old flowering shoots should be removed after harvest.

For bearing trees, periodically remove (thin out) old limbs at the end of the harvest season to increase light penetration to the inner canopy. Tree height may be maintained at 8 to 14 feet by periodic selective pruning. Selective pruning may also be used to limit tree width.

Fruit thinning. The number of fruit per tree or major limb should be limited to 1 on young trees, as heavy fruit loads have been observed to result in limb decline or death and tree stunting. On mature trees, limiting the number of fruit per major limb may enhance the quality and size of remaining fruit.

Harvest, Ripening, and Storage

Jackfruit may be eaten as a vegetable when picked at an immature stage or eaten fresh when picked at a mature stage and allowed to ripen. Immature fruit are usually 1 to 3 months old, are green and may be harvested for cooking.

Mature fruit have 35% to 40% edible flesh. However, it is not easy to determine when the fruit is ripe. There are several fruit characteristics that may be used alone or together to indicate a particular cultivar is mature. In many cultivars the skin color changes from green to light green or yellowish-brown. Maturing fruits usually develop a strong aroma and the peel spines flatten and widen. Green fruits have a solid sound when tapped whereas ripe fruits have a hollow sound.

Harvest fruit with clippers or loppers. The cut stem will immediately exude white, sticky latex; this latex will permanently stain clothing. Wrap the cut end with a paper towel to make handling easier, or set the fruit on its side until the flow of latex ceases. Care should be exercised not to let the fruit drop to the ground and be damaged. Pickers may want to wear gloves when handling the fruit. Place fruit in the shade until the latex stops exuding from the cut stem.

Mature fruit will ripen in 3 to 10 days at 75°F to 80°F (24–27°C). Before consumption the edible flesh is separated from the rag. As with harvesting, latex may exude from cut surfaces when extracting the flesh. To make clean-up easier coat hands, knife blades (not the handle), and work surfaces with vegetable oil. To clean the fruit, cut in half and remove the central core; then proceed to separate the flesh, seed, and rag.

Cool temperatures (<60°F; 16°C) may delay ripening. The proper storage temperatures for jackfruit have not been determined. Fruit pulp may be stored in the refrigerator and fully ripe fruit segments may be placed in polyethylene bags and frozen for later use.

Uses and Nutritional Value

Jackfruit have a number of uses. Green, immature fruit may be used as a vegetable in cooking including soups, baked dishes, and fried. The pulp of ripe fruit may be eaten fresh, dried, or preserved in syrup or used for salads. The seeds can be boiled and roasted (eaten as a nut) and have a chestnut flavor. Jackfruit is low in calories and fat and a good source of potassium and Vitamin A (Table 5).

Table 1. Characteristics of jackfruit varieties.

Cultivar and origin	Growth habit and rate	Fruit size and weight (lbs)	Fruit shape	Yield per tree (lbs)	Season and months	Photo	Comments
Black Gold, Australia	Open, spreading, fast	Medium, 22	Long, tapered	Heavy, 120–200	Late, Sept.–Oct.	Figure 6	Tree easily pruned to maintain small tree (~8 ft)
Cheena, Australia	Open, low spreading, moderate	Small, 5–10	Long, narrow, uniform	Moderately heavy, 110–154	Mid, July–Aug.		Hybrid with champedak (A. integer); tree easily pruned to maintain small tree (~8 ft)
Chompa Gob	Open, spreading, fast	Medium, 12–20	Blocky, uniform	Moderately heavy, 90–120	Mid, July–Aug.		Easily pruned to maintain small tree size
Cochin, Australia	Sparse, upright, slow	Small, 2–5	Round, irregular	Moderately heavy, 80–130	Early, June–July		Thinning the number of fruit recommended; tree easily pruned to maintain small tree (~8 ft)
Dang Rasimi, Thailand	Open, spreading, fast	Medium-large, 18–20	Uniform oblong	Very heavy, 165–275	Mid, July–Aug.		Vigorous tree; annual pruning needed to maintain moderate size (~11 ft)
Gold Nugget, Australia	Dense, spreading, fast	Small, 7–12	Round	Heavy, 132–176	Early, May–June	Figure 7	Thinning number of fruit recommended; tree easily pruned to maintain small tree (~8 ft)
Honey Gold, Australia	Sparse, spreading, slow-moderate	Small to medium-small, 10–12	Blocky	Moderate, 77–110	Mid, July–Aug.		Thinning number of fruit recommended; tree easily pruned to maintain small tree (~8 ft)
J-30, Malaysia	Vigorous, open, conical, fast	Medium, 17–25	Uniform, oblong	Moderately heavy, 110–132	Mid, July–Aug.		Vigorous tree; annual pruning needed to maintain moderate size (~10 ft)
J-31, Malaysia	Open, spreading, fast	Large, 26	Irregular	Moderately heavy, 92–132	Early, May–June		Often off-season fruit; tree easily pruned to maintain small tree (~8 ft)
Kun Wi Chan, Thailand	Vigorous, dense, fast	Large, 33–40	Uniform, round	Very heavy, 242	Mid, July–Aug.	Figure 8	Vigorous tree; annual pruning needed to maintain moderate size (~13 ft)
Lemon Gold, Australia	Moderately dense, spreading, moderate	Medium-small, 13	Blocky	Moderate, 66–100	Mid, July–Aug.		Vigorous tree; annual pruning needed to maintain moderate size (~12 ft)
NS1, Malaysia	Dense, upright, moderate	Small to medium-small, 9–12	Blocky	Heavy, 200	Early, May–June		Thinning number of fruit recommended for young trees; moderately vigorous tree; annual pruning to maintain moderate size (~10 ft)

Cultivar and origin	Growth habit and rate	Fruit size and weight (lbs)	Fruit shape	Yield per tree (lbs)	Season and months	Photo	Comments
Tabouey, Indonesia	Open, rounded, slow-moderate	Medium-large to large, 20–25	Long, tapered	Moderately heavy, 110–154	Late, Sept.–Oct.		Thinning number of fruit recommended for young trees; moderately vigorous tree; annual pruning to maintain moderate size (~10 ft)

Table 2. Pulp characteristics of jackfruit varieties.

Cultivar	Color	Texture	Flat spines at ripening	% edible flesh	# seeds per fruit; seed %	Quality	Comments
Black Gold	Deep orange	Medium-firm to melting, soft	No	35	192; 17	Good, sweet, aromatic	Flesh easily removed
Cheena	Deep orange	Soft, melting, somewhat fibrous	Yes	33	38; 11	Excellent, very aromatic	Flesh easily removed
Cochin	Yellow to orange	Firm to crunchy	Yes	35–50	35; 7	Good, mild	Sometimes "rag" edible
Chompa Gob	Orange	Firm	Yes	30	200; 7	Good, mild flavor	Texture of excellent quality
Dang Rasimi	Deep orange	Firm to soft	No	32	187; 12	Mild, sweet flavor, pleasant aroma	Flesh thin walled
Golden Nugget	Deep orange	Soft to medium firm	Yes	41	79; 13	Excellent flavor	Fruit may split after heavy rains
Honey Gold	Dark yellow to orange	Firm	Yes	36	42; 5	Sweet, rich flavor and aroma	Flesh thick walled, excellent texture
J-30	Deep orange	Firm	Yes	38	200; 9	Sweet rich flavor and aroma	Flesh thick walled, excellent texture
J-31	Deep yellow	Firm	Yes	36	180; 18	Sweet rich flavor, earthy aroma	Fruit rarely splits, excellent texture
Kun Wi Chan	Yellow	Moderately firm to soft	No	29	210; 11	Mild, pleasant flavor	Generally considered of mediocre quality
Lemon Gold	Lemon yellow	Firm	Yes	37	104; 14	Sweet and aromatic flavor	Flesh thick walled
NS1	Dark orange	Firm	Yes	34	63; 5	Sweet rich flavor	Excellent texture
Tabouey	Light yellow	Firm	No	40	250; 12	Mild, pleasant flavor, very little aroma	Fruit may split, often irregular

Table 3. Cultural calendar for jackfruit production of mature (bearing) trees in the home landscape.

Operation	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
General fertilizer ¹			Apply 2–3 dry applications of a nitrogen-phosphate-potash-magnesium material during this time. Do not apply any nitrogen containing fertilizer after August as this may induce the tree to continue to grow during the winter and therefore reduce flowering in the spring.									
Nutritional sprays ²				Apply 4–6 foliar nutritional sprays; those containing magnesium, manganese, zinc, molybdenum, and boron are most effective during the warm part of the year.								
Iron applications ³			Apply 2–4 iron applications to the soil around the base of the tree. Iron applications are most effective during the warm part of the year.									
Watering	Water periodically during dry periods.				Begin to water the tree when signs of blooming appear and water regularly until harvest.					Water periodically during dry periods.		
Insect control	Monitor for scale infestations and treat as needed.											
Disease control	Monitor for disease infestations and treat as needed.											
Pruning					Selectively prune the tree after harvest to control tree height and spread.							

¹ Use a 6-6-6-3, 8-3-9-3, 4-2-12-2 or similar material.

² Follow label directions for dilution of dry and liquid micronutrient formulations.

³ In low pH, acid, sandy soils apply iron sulfate; in high pH, rockland soils apply chelated iron.

Table 4. Fertilizer recommendations for jackfruit in Florida.

Year	Times per year	Amount per tree (lbs) ¹	Total amount per tree (lbs) ²	No. of minor element sprays per year ³	Chelated iron soil drenches (oz/tree/year) ⁴
1	6	0.25–0.5	1.5–3.0	6	0.5–0.75
2	6	0.5–1.0	3.0–6.0	6	0.75–1.0
3	6	1.0–1.5	6.0–9.0	6	1.0–1.5
4	2–3	1.5–2.5	9.0–10.0	6	1.5–2
5	2–3	2.5–3.5	10.0–14.0	4–6	2–4
6	2–3	3.5–4.0	14.0–16.0	4v6	2–4
7	2–3	4.0–4.5	16.0–18.0	4–6	2–4
8	2–3	4.5–5	18.0–20.0	4–6	2–4

¹ Amount of NPK per tree per application. Use 6-6-6 or 8-3-9 or slow release fertilizer material.

² Total amount per tree per year.

³ Foliar sprays should contain zinc, manganese, boron, molybdenum, and possibly magnesium.

⁴ Chelated iron soil drenches may prevent iron deficiency. Foliar iron sprays are not generally effective.

Table 5. Nutrient value of 100 g (3.5 oz) of fresh jackfruit.

Constituent	Approximate value	Constituent	Approximate value
Water content	73 %	Iron	0.6 mg
Calories	94 kcal	Magnesium	37.0 mg
Protein	1.5 g	Phosphorus	36.0 mg
Fat	0.3 g	Potassium	303.0 mg
Cholesterol	0 g	Sodium	3.0 mg
Carbohydrate	24.0 g	Vitamin C	6.7 mg
Total dietary fiber	1.6 g	Vitamin A	297 IU

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