

Papaya Market Profile



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Landscape Information on Papaya

Papaya grows well in the tropical and sub-tropical climates. It performs better in regions with rainfall of 1200 mm to 1500 mm throughout the year and with temperature of 21 – 33°C. It should not be planted in areas with strong wind because the plant is shallow rooted and easily lodged. Papaya will grow in sandy, loamy, or rocky soils.

The Jamaican papaya (*Carica papaya*) is indigenous to the West Indies and South America. It was carried by the Spanish to Manila in the mid 1500's. From there it went to Malacca then India and reached Hawaii in 1800-1820's. It was called the “Jamaican papaya, fruit of the angels” by Christopher Columbus.

The Solo Sunrise variety is the preferred variety grown by Jamaican producers. The greatest areas of concentration of Papaya appear in St. Elizabeth, Trelawny, St. Mary & Catherine. These parishes accounted for 79% of total production in 2017.

Papaya Exported (kg) and Local Consumption 2011 to 2017

| Table 1 Papaya 2011 - 2017 | | | | |
|-----------------------------------|---------------------|------------------------|------------------------------|---|
| Years | Exports (kg) | Production (kg) | Est. Consumption (kg) | Est. Consumption % of Production |
| 2011 | 785,815 | 5,846,000 | 5,060,185 | 86.6 |
| 2012 | 1,619,865 | 6,455,000 | 4,835,135 | 74.9 |
| 2013 | 1,183,143 | 8,382,000 | 7,198,857 | 85.9 |
| 2014 | 1,427,406 | 9,102,000 | 7,674,594 | 84.3 |
| 2015 | 1,471,443 | 9,361,000 | 7,889,558 | 84.3 |
| 2016 | 1,751,186 | 8,583,000 | 6,831,814 | 79.6 |
| 2017 | 1,707,934 | 7,705,000 | 5,997,066 | 77.8 |
| Average | 1,420,970 | 7,919,143 | 6,498,173 | 82 |
| Preliminary Figures | | | | |

Source: Statin, MICA F

The above table shows that during the period 2011—2017, 18% of production was exported.

Over the review period 2011-2017, the export quantity of papaya was highest in 2016 amounting to 1,751,186kg while in 2011 only 785,815kg departed the island.

With regards to 2017, a total of 1,707,934kg were exported, of that amount 48.46% went to the USA, 37.93% went to the United Kingdom while other countries imported only 13.61%.

Table 2

| PAPAYA EXPORTED TO THE USA BY VARIETY (Jan.- Mar. 2018) | | | |
|---|-------------------------|-------------------|----------------------------|
| VARIETIES | NO. OF SHIPMENTS | PERCENTAGE | AVE. PRICES(USD/Kg) |
| SOLO | 45 | 73.77% | 5.48 |
| MARADOL | 7 | 11.48% | 1.76 |
| TAINUNG | 9 | 14.75% | 2.05 |
| TOTAL | 61 | 100.00% | |

Source: USDA

Table 2 shows Jamaica's exports of papaya by variety to the USA for the period Jan- Mar, 2018. Based on data in table 2, Solo papaya represented 73.77% of papaya exported from Jamaica to the USA. The Jamaican papaya was exported to five destinations in the USA; Dallas received the most shipments (45). Additionally, the solo type papaya fetches a significantly higher price than the Maradol and Tainung varieties.

Table 3

| UNITED STATES MOST IMPORTED VARIETIES (Jan.-Mar. 2018) | | |
|---|-------------------------|-------------------|
| VARIETIES | NO. OF SHIPMENTS | PERCENTAGE |
| SOLO | 367 | 40.16% |
| MARADOL | 371 | 40.58% |
| TAINUNG | 176 | 19.26% |
| TOTALS | 914 | 100.00% |

Source: USDA.

A total of 914 shipments were sent from across the globe to the USA during the period Jan-Mar. 2018.

Three papaya varieties were shipped to the USA during the stated period with the Solo and Maradol varieties accounting for 80.74% of total shipments. Additionally, one hundred and eleven (111) of the total shipments were green papaya used for cooking.

A total of nine papaya competitors were observed in the USA market, with Mexico being the largest exporter in terms of number of shipments (297).

Table 4

| Yield Rates for Papaya 2011-2017 | | | |
|---|------------------------|-------------------------------|-------------------------------|
| Year | Production (Kg) | Area Reaped (Hectares) | Yield per Hectare (Kg) |
| 2011 | 5,846,000 | 274 | 21,335.77 |
| 2012 | 6,455,000 | 331 | 19,501.51 |
| 2013 | 8,382,000 | 413 | 20,295.40 |
| 2014 | 9,102,000 | 432 | 21,069.44 |
| 2015 | 9,361,000 | 429 | 21,820.51 |
| 2016 | 8,583,000 | 410 | 20,934.15 |
| 2017 | 7,705,000 | 371 | 20,768.19 |

Source: MICAFA, AMID

Table 4 shows the yield rates for papaya during the period 2011–2017. In 2017, the national yield for papaya was 20,768.19kg per hectare while on the world stage, the average yield per hectare was 29,529kg/ha in the same period. According to the Food and Agriculture Organization of the United Nations (FAO), Dominican Republic and Costa Rica recorded the highest yields of 287,829.60kg/ha and 90,909.10kg/ha respectively.

Table 5

| Year | Papaya Profitability (JMD) 2011-2017 | | % Mark up between C.O.P & Farmgate |
|-------------|---|----------------------------|---|
| | Cost of Production Est. (0.4 hec.) \$/kg | Farmgate Price (kg) | |
| 2011 | 45 | 95 | 111.1 |
| 2012 | 27 | 88 | 225.9 |
| 2013 | 28 | 110 | 292.9 |
| 2014 | - | 111 | - |
| 2015 | 51 | 135 | 164.7 |
| 2016 | - | 124 | - |
| 2017 | - | 133 | - |

Source: MICAFA, JAMIS & Economic Planning

Table 5 shows that it was profitable to produce papaya for the years 2011 – 2013 and 2015, with the percentage mark up between the cost of production and farmgate price being at a high of 292.9% in 2013 and a low of 111.1% in 2011. The Cost of Production for 2014, 2016 and 2017 was unavailable.

Table 6

| No. | Importers | Top 10 Importers of Papaya (kg) 2013-2017 | | | | |
|-----|--------------------------|---|--------------------|--------------------|--------------------|-------------------|
| | | 2013 | 2014 | 2015 | 2016 | 2017 |
| | | Imported quantity | Imported quantity | Imported quantity | Imported quantity | Imported quantity |
| | World | 251,111,530 | 266,347,702 | 302,918,143 | 185,154,644 | Unavailable |
| 1 | United States of America | 140,712,558 | 144,455,603 | 168,353,578 | 52,624,895 | 176,706,937 |
| 2 | Singapore | 20,554,998 | 21,648,156 | 23,185,834 | 22,237,826 | 23,376,343 |
| 3 | El Salvador | 11,139,325 | 10,855,376 | 14,412,448 | 16,063,525 | 21,817,799 |
| 4 | Canada | 15,853,058 | 14,382,511 | 13,928,011 | 14,610,214 | 15,763,247 |
| 5 | Germany | 7,040,663 | 9,981,757 | 11,719,016 | 9,986,292 | 10,760,121 |
| 6 | United Arab Emirates | 6,707,726 | 8,122,934 | 9,760,403 | 9,620,697 | - |
| 7 | Netherlands | 6,514,495 | 8,259,012 | 10,294,735 | 8,801,509 | 10,574,148 |
| 8 | Portugal | 5,038,505 | 6,428,313 | 6,319,451 | 7,027,962 | 8,268,991 |
| 9 | Spain | 4,973,188 | 5,469,418 | 6,206,960 | 6,316,729 | 7,530,543 |
| 10 | United Kingdom | 4,778,143 | 5,635,433 | 6,222,382 | 6,250,505 | 6,658,738 |

Source: International Trade Centre

In 2016, the world papaya imports stood at 185,154,644kg. In that same year Jamaica exported 1,751,186kg of papaya, this represents approximately 0.95% of world imports.

During 2017, the Jamaican Papaya was not exported to six of the top ten importers of the commodity. The Jamaican Papaya is ranked tenth in terms of quantities exported to the United States of America.

Export Requirements for Papaya to Major Target Markets

Persons intending to export fresh produce to any part of the world must have their packing house certified by the Plant Quarantine/Produce Inspection Unit (PQ/PIU) of the Ministry of Agriculture and Fisheries (The Ministry). Once the packing house has been inspected and duly certified, the Ministry will issue an authorisation letter allowing registration as an exporter. Before each shipment, exporters must contact the Plant Quarantine/Produce Inspection Unit of the Ministry to make an appointment for the inspection and certification of the shipment. A Phyto-Sanitary Certificate should be received upon inspection of the shipment and before going to Jamaica Customs for validation.

As previously stated above, the United States of America is Jamaica's largest export destination for Papaya.

United States of America

In order for papaya produced in Jamaica to enter into the United States of America for commercial trade, exporters must obtain a Plant and Plant Products permit from the United States Department of Agriculture. In addition to having a permit, the commodity will be subjected to inspection at the port of entry at which point all general requirements of the Federal Regulations code must be met.

Import Requirements

Admissible Plant Parts: Fruit

Admissible Ports: All Ports Except Guam and Hawaii

Import Permit Required: An Import Permit is required..

Subject to Inspection: This commodity is subject to inspection at the port of entry and **all** general requirements of 7 CFR 319.56-3.

Commercial Consignments Only

Packaging or Labelling Requirements: Cartons **must** be stamped: "Not for importation into or distribution within (Guam or Hawaii).

Port Restriction: Do **not** import or distribute into or within Guam or Hawaii.

Preclearance Program: Consignments may or may not be pre-cleared. If the consignment is pre-cleared, it must be accompanied by a PPQ Form 203 signed by the APHIS inspector on site to validate foreign site preclearance. Maritime vessel carrying pre-cleared consignments may be validated by a vessel report from APHIS.

Source: USDA

References

- ✓ Ministry of Industry, commerce, Agriculture and Fisheries, Agricultural Marketing Information Division (A.M.I.D) Production Quantities
- ✓ International Trade Centre, Top 10 World Importers
- ✓ United States Department of Agriculture, Export requirements and Prices for Papaya
- ✓ Jamaica Statistical Institute of Jamaica (STATIN)
- ✓ Ministry of Industry, commerce, Agriculture and Fisheries, Agricultural Marketing Information Division (A.M.I.D) Cost of Production Estimates