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## Report Name: Citrus Annual

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## Report Highlights:

The Brazilian orange crop for Marketing Year (MY) 2020/21 is forecast at 415 million $40.8-\mathrm{kg}$ boxes ( MBx ), equal to 16.93 million metric tons ( mmt ), an increase of 14 percent relative to the current season. The forecast assumes normal weather conditions will prevail as of mid-December 2020 to support fruit setting and development of the second blossoming in the Sao Paulo and Minas Gerais commercial citrus belt. The current orange crop estimate in the Sao Paulo and Minas Gerais citrus belt was revised downward from 287.8 to $269.4 \mathrm{MBx}(11.74 \mathrm{mmt}$ to 10.99 mmt ) as a consequence of the lack of rain fall and high temperatures between September and October. Total Brazilian FCOJ 65 Brix equivalent exports for MY 2020/21 are forecast at 1.08 mmt , similar to revised figure for MY 2019/20.

## FRESH ORANGES

## Production

## PS\&D Tables

The following table provides revised data for Sao Paulo and total Brazilian fresh orange production, supply, and distribution (PS\&D) for Brazilian (BR) marketing years (MY, July-June) 2019/20 and 2020/21, and the initial forecast for MY 2021/22. The MY mentioned above are equivalent to U.S. MY 2018/19, 2019/2020, and 2020/21, respectively.

| Item/U.S. Marketing Year | US 18/19 | US 19/20 | US 20/21 |
| :--- | ---: | ---: | ---: |
| Item/Brazilian Marketing Year | $\mathbf{2 0 1 9 / 2 0}$ | $\mathbf{2 0 2 0 / 2 1}$ | $\mathbf{2 0 2 1 / 2 2}$ |
| Area Planted | 595.8 | 595.7 | 595.7 |
| Sao Paulo | 395.8 | 395.7 | 395.7 |
| Others | 200.0 | 200.0 | 200.0 |
| Area Harvested | 562.6 | 557.0 | 557.0 |
| Sao Paulo | 370.0 | 364.4 | 364.4 |
| Others | 192.6 | 192.6 | 192.6 |
| Bearing Trees | 226.0 | 226.3 | 226.3 |
| Sao Paulo | 174.0 | 174.3 | 174.3 |
| Others | 52.0 | 52.0 | 52.0 |
| Non-Bearing Trees | 25.3 | 27.5 | 27.5 |
| Sao Paulo | 21.3 | 23.5 | 23.5 |
| Others | 4.0 | 4.0 | 4.0 |
| Total Trees | 251.3 | 253.8 | 253.8 |
| Total Production | 473.0 | 365.4 | 415.0 |
| Sao Paulo | 375.0 | 269.4 | 315.0 |
| Others | 98.0 | 96.0 | 100.0 |
| Exports | 0.1 | 0.2 | 0.2 |
| Imports | 0.7 | 0.6 | 0.6 |
| Domestic Consumption | 121.6 | 116.8 | 116.4 |
| Delivered to processors | 352.0 | 249.0 | 299.0 |
| Sao Paulo (FCOJ + NFC) | 328.0 | 229.0 | 275.0 |
| Others | 24.0 | 20.0 | 24.0 |

* Note: There is a one-year lag between the BR MY and the U.S. MY. For example, BR MY 2021/22 is equivalent to U.S. MY 2020/21. To ensure data continuity, the current Brazilian MY 2021/22 will be referred to as U.S. MY 2020/21 throughout this report.


## General

The ATO/Sao Paulo forecast for total Brazilian orange crop for MY 2020/21 (July/June) is 415 million $40.8-\mathrm{kg}$ boxes ( MBx ), equivalent to 16.93 million metric tons ( mmt ), an increase of 14 percent drop compared to the current year (MY 2019/20). The forecast is based on the assumption that normal weather conditions will prevail as of mid-December 2020 to support fruit setting and development of the second blossoming from the majority of the citrus groves in the Sao Paulo and Minas Gerais commercial citrus groves as well as a likely third blossoming in the aforementioned areas.

The commercial area in the state of Sao Paulo and the western part of Minas Gerais should contribute 315 MBx ( 12.852 mmt ), an increase of 17 percent relative to the revised figure for the previous season ( 269.4 MBx or 10.992 mmt ). The lack of rainfall and high temperatures during September-October prevented the first blossoming in several citrus growing regions, reducing the full potential for the 2021 citrus output. However, the second blossoming occurred in October and November and benefited from the rainfall content and moderate temperatures. Production from other states is projected stable at 100 MBx ( 4.08 mmt ), relatively unchanged from MY 2019/20. Overall, it is still too early to project total orange production for MY 2020/21. More accurate numbers will be available during the first quarter of 2021.

Post estimates the Brazilian orange crop for MY 2019/20 at 365.4 MBx ( 14.908 mmt ), a reduction of five percent relative to the previous estimate, based on updated information from the Defense Fund for Citriculture (Fundecitrus) and the Brazilian Institute for Geography and Statistics (IBGE). High temperatures and below-average rainfall during September-October contributed to small fruit size and higher-than-projected fruit drop rates in the Sao Paulo commercial citrus area, thus supporting a smaller crop output. Irrigated fields helped to offset the lack of rainfall during August-October, especially in the Minas Gerais region of the commercial citrus belt. Indeed, approximately 80 percent of the groves are irrigated in Minas Gerais, whereas irrigated groves represent roughly 30 percent of the Sao Paulo citrus commercial area.

The revised production figure for the commercial area in the state of Sao Paulo and the western part of Minas Gerais is 269.4 MBx ( 10.99 mmt ), a decrease of six percent vis-à-vis the previous estimate. Harvest started in May 2020, but it did not speed up until June when a significant fruit volume from the second blossoming was ready for harvesting. Production from other states is estimated at 96 MBx or 3.92 mmt .

On December 10, the Citrus Defense Fund (Fundecitrus) released its third estimate for the 2020/21 citrus crop (BR MY 2020/21) in the commercial area in Sao Paulo and the western part of Minas Gerais. The estimate is 269.36 MBx , a six percent drop compared to the group's second estimate in September ( 286.72 MBx ). The current estimate represents the largest crop loss for the citrus belt since the late eighties and a drop of approximately 30 percent compared to the previous crop season. Approximately 19.35 million boxes of the total crop should be produced in West Minas Gerais.

The Sao Paulo State Institute of Agricultural Economics (IEA) also released its September 2019 crop survey for the 2020 crop (BR MY 2020/21). The Sao Paulo state crop, including commercial and noncommercial areas, is estimated at $319.6 \mathrm{MBx}(13.04 \mathrm{mmt}$ ), a drop of five percent compared to the
previous crop year ( 335.4 MBx or 13.67 mmt ). Note that IEA considers the entire state of Sao Paulo and all varieties of oranges. Simultaneously, the Agricultural Trade Office's (ATO) estimates follow the Fundecitrus methodology, which includes the commercial area of the state plus the western part of Minas Gerais and the four major citrus varieties for juice processing.

## Area, Tree Inventory, and Yields

The Brazilian agricultural yield for the MY 2020/21 crop is forecast at 1.83 boxes/tree, up 13 percent compared to the current crop ( 1.62 boxes/tree), assuming normal weather conditions as of midDecember 2020.

Total Brazilian tree inventory for MY 2020/21 is forecast stable at 253.7 million trees, and the area planted to oranges is projected at 595,700 hectares (ha). Sao Paulo is the only state that compiles data on trees planted and tree inventory. ATO/Sao Paulo estimates stable area and tree population for other conditions based on the Brazilian Institute of Geography and Statistics (IBGE).

## Environmental Sustainability

The tree inventory survey published by Fundecitrus in May 2020 shows the results from the first survey ever conducted to quantify areas dedicated to the conservation of native vegetation and biodiversity on each of the citrus farms mapped by Fundecitrus in 2017 and registered in the Rural Environmental Registry ("Cadastro Ambiental Rural" - CAR).

The results show that areas for the conservation of native vegetation represent 181,750 hectares. In contrast, whereas the areas for the orange crop on those same farms amount to 459,058 hectares, e.g., on average, there is one hectare dedicated to environmental conservation for every 2.52 hectares for citrus growing.

Citrus growers in the commercial areas of Sao Paulo and Minas Gerais are committed to environmental sustainability, given that preserved areas are set by the current legislation to protect water resources, landscape, soil, and biodiversity of fauna and flora.

## Disease

According to the 2020 greening survey conducted by Fundecitrus, approximately 41 million or 20.87 percent of the trees in the commercial area of the state of Sao Paulo and the western part of Minas Gerais are affected by greening. This figure shows an increase of roughly 10 percent in the greening infection than the 2019 greening survey ( 19.02 percent). The institution shows concerns about the upward trend, especially in adult groves, but indicates that there are regions where the incidence remains low and others where the disease rate decreased or is stable. Citrus greening was identified in Brazil in 2004 and no definitive cure has been found so far. The graph below shows the incidence of greening in the Sao Paulo and western Minas Gerais commercial area since 2012. No surveys were conducted in 2013 and 2014 due to a lack of funding.

## Incidence of Greening in Commercial Citrus



Source: Fundecitrus

The 2020 Fundecitrus citrus variegated chlorosis (CVC) disease survey reports that the level of infection has slightly decreased, reaching 1.04 percent or roughly 2 million trees as opposed to 1.71 percent in the previous year. The infection level is considered stable mainly due to the adoption of protected nurseries for seedlings and the renewal of old infected citrus groves. In addition, the use of pesticides to control the insect that transmits greening also controls the spittlebug that transmits CVC. The graph below shows the incidence of CVC in the Sao Paulo and western Minas Gerais commercial area since 2012. No surveys were conducted in 2013 and 2014 due to a lack of funding.

## Incidence of CVC in Commercial Citrus



Source: Fundecitrus

Citrus canker infection in 2020 is estimated at 17.26 percent in the commercial area of Sao Paulo and Minas Gerais, an increase of 15 percent compared to 2019 ( 15.01 percent infected), according to the latest Fundecitrus survey. The formerly rigid control of eradicating the affected and neighboring trees was loosened up, adopting risk mitigation instead and explaining the increase in infection rate. Indeed, the Brazilian legislation allows different states and municipalities to adopt different control/eradication strategies. The graph below shows the incidence of CVC in the Sao Paulo and western Minas Gerais commercial areas since 2016.

## Incidence of Canker in Commercial Citrus



Source: Fundecitrus

## Producer Prices

The Orange Index price series is published by the University of Sao Paulo's Luiz de Queiroz College of Agriculture (ESALQ) for both the domestic fresh market and product delivered to orange juice processing plants in the state of Sao Paulo. Prices for the fresh market are for fruit on the tree.

Spot prices during 2020, especially for fruit for processing, remained relatively stable and close to contracted prices for fruit delivery, which ranged from $\mathrm{R} \$ 23$ to $\mathrm{R} \$ 25 / \mathrm{box}$. On the other hand, prices for fruit for the fresh market have been escalating since August. The fruit availability has significantly decreased during the season, increasing the competition with fruit for orange juice processing. No noticeable contract for fruit delivery in next year's crop has been negotiated yet.

Orange Prices Paid by Sao Paulo Industry - Spot Market (Pera, Natal, Valencia varieties, average prices in Reais - R\$, 40.8 kg box, fruits delivered to the processing plant).

| Month | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Jan | 10.15 | 13.84 | 25.84 | 17.66 | 21.77 | 20.96 |
| Feb | 10.20 | 13.82 | 21.98 | 16.70 | 21.19 | 21.20 |
| Mar | 10.24 | 14.01 | 21.39 | 16.24 | 21.58 | 20.48 |
| Apr | 11.00 | 14.72 | 17.60 | 16.33 | 20.61 | 20.80 |
| May | 10.83 | 17.23 | 16.52 | 17.27 | 18.21 | 20.92 |
| Jun | 9.81 | 18.79 | 16.11 | 19.28 | 19.13 | 22.35 |
| Jul | 9.83 | 19.64 | 18.55 | 20.55 | 19.78 | 22.63 |
| Aug | 11.32 | 19.99 | 19.30 | 22.00 | 20.01 | 22.94 |
| Sep | 12.17 | 20.28 | 19.13 | 22.48 | 19.67 | 23.61 |
| Oct | 13.07 | 22.10 | 19.15 | 22.29 | 20.05 | 23.91 |
| Nov | 13.89 | 25.35 | 18.96 | 22.51 | 20.27 | 24.47 |
| Dec | 14.06 | 25.90 | 18.64 | 22.15 | 20.64 | -- |
| Source: CEPEA/ESALQ |  |  |  |  |  |  |

Orange Prices Received by Producers in the Domestic Fresh Market (Pera Variety, average prices in Reais - R\$, 40.8 kg box, fruits on the tree).

| Month | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Jan | 15.74 | 18.39 | 37.53 | 20.00 | 30.42 | 30.53 |
| Feb | 17.47 | 20.14 | 43.91 | 22.51 | 40.66 | 33.06 |
| Mar | 17.22 | 22.17 | 41.86 | 29.02 | 42.23 | 35.35 |
| Apr | 16.59 | 20.63 | 30.41 | 29.83 | 31.80 | 32.47 |
| May | 14.85 | 21.22 | 21.15 | 26.33 | 21.17 | 26.09 |
| Jun | 12.78 | 20.36 | 17.14 | 25.66 | 18.24 | 25.26 |
| Jul | 11.53 | 19.53 | 16.15 | 26.80 | 18.06 | 26.83 |
| Aug | 11.71 | 21.60 | 16.40 | 29.08 | 18.26 | 30.01 |
| Sep | 13.18 | 26.88 | 17.34 | 31.39 | 19.51 | 32.78 |
| Oct | 14.65 | 32.14 | 19.27 | 32.83 | 22.99 | 38.89 |
| Nov | 16.38 | 34.66 | 19.97 | 30.24 | 28.04 | 43.35 |
| Dec | 17.49 | 32.77 | 19.94 | 27.16 | 28.22 | -- |
| Sour |  |  |  |  |  |  |

Source: CEPEA/ESALQ

## Exchange Rate

The table below shows the official exchange rate as released by the Brazilian Central Bank from 2014 through 2020.

| Exchange Rate (R\$/US\$1.00 $\mathbf{-}$ official rate, last day of period) |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Month | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| January | 2.43 | 2.66 | 4.04 | 3.13 | 3.16 | 3.65 | 4.25 |
| February | 2.33 | 2.88 | 3.98 | 3.10 | 3.24 | 3.74 | 4.50 |
| March | 2.26 | 3.21 | 3.56 | 3.17 | 3.32 | 3.90 | 5.20 |
| April | 2.24 | 2.98 | 3.45 | 3.20 | 3.48 | 3.94 | 5.43 |
| May | 2.24 | 3.18 | 3.60 | 3.26 | 3.74 | 3.94 | 5.43 |
| June | 2.20 | 3.10 | 3.21 | 3.30 | 3.86 | 3.83 | 5.48 |
| July | 2.27 | 3.39 | 3.24 | 3.13 | 3.75 | 3.76 | 5.20 |
| August | 2.24 | 3.65 | 3.24 | 3.15 | 4.14 | 4.14 | 5.47 |
| September | 2.45 | 3.98 | 3.25 | 3.17 | 4.00 | 4.16 | 5.64 |
| October | 2.44 | 3.86 | 3.18 | 3.27 | 3.72 | 4.00 | 5.77 |
| November | 2.56 | 3.85 | 3.40 | 3.26 | 3.86 | 4.22 | 5.33 |
| December 1/ | 2.66 | 3.90 | 3.47 | 3.31 | 3.87 | 4.03 | 5.17 |
| Source: Brazilian Central Bank (BACEN) - 1/ December 2020 refers to December 4. |  |  |  |  |  |  |  |

## Consumption

ATO/Sao Paulo forecasts total Brazilian orange consumption for MY 2020/21 at 116.4 MBx (4.08 mmt ), similar to the current crop ( 116.8 MBx or 4.765 mmt ). These figures include actual domestic consumption plus losses from the natural drop, harvesting, transportation, and packing.

Note that as of this report, fruit delivered to processors for "not from concentrate" (NFC) orange juice production for the domestic market will not be included as fresh oranges consumption, but as "Delivered to Processors for NFC Production".

Fresh domestic consumption estimates are calculated as the difference between production estimates and the volume of oranges delivered to processors for FCOJ and NFC produced for domestic consumption and export.

## Trade

Total fresh orange exports for MY 2020/21 are projected at $0.2 \mathrm{MBx}(8,160 \mathrm{mt})$. In contrast, the fresh orange export estimate for MY 2019/20 has also been adjusted to $0.2 \mathrm{MBx}(8,160 \mathrm{mt}$ ), according to updated information from the Brazilian Secretariat of Foreign Trade (Secex). The majority of exports occur during the harvest of the commercial crop (June-December). Italy, U.K., and France have been the major export destinations for fresh orange exports during the current season.

The table below shows fresh orange exports (NCM 0805.10.00) by destination, according to the Trade Data Monitor (TDM), based on data from the Secretariat of Foreign Trade (Secex) for BR MY 2017/18, 2018/19, and 2019/20 (July-June), as well as for BR MY 2018/19, 2019/20, and 2020/21 (July-October).

| Brazilian Fresh Orange Exports (MT and US\$ 1,000 FOB) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Country | $\begin{aligned} & \text { Jul } 2017 \text { - } \\ & \text { Jun } 2018 \end{aligned}$ | $\begin{aligned} & \text { Jul } 2017 \text { - } \\ & \text { Jun } 2018 \end{aligned}$ | $\begin{gathered} \hline \text { Jul } 2018 \text { - } \\ \hline \text { Jun } 2019 \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Jul } 2018 \text { - } \\ \hline \text { Jun } 2019 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Jul } 2019 \text { - } \\ \text { Jun } 2020 \end{gathered}$ | $\begin{gathered} \hline \text { Jul } 2019 \text { - } \\ \hline \text { Jun } 2020 \\ \hline \end{gathered}$ |
|  | Value | Quantity | Value | Quantity | Value | Quantity |
| Algeria | 561 | 1,093 | 567 | 1,107 | 862 | 1,762 |
| Angola | 2,916 | 5,189 | 1,898 | 3,317 | 443 | 715 |
| Antigua Barbuda | 876 | 2,089 | 283 | 652 | 193 | 383 |
| Argentina | 738 | 5,710 | 4 | 28 | 34 | 228 |
| Bahamas | 2,145 | 4,987 | 1,156 | 2,323 | 68 | 104 |
| Bahrain | 193 | 473 | 0 | 0 | 21 | 51 |
| Bangladesh | - | - | 27 | 27 | 40 | 49 |
| Barbados | - | - | 21 | 23 | 30 | 42 |
| Belgium | - | - | 23 | 27 | 33 | 42 |
| Belize | 124 | 285 | 17 | 21 | 44 | 40 |
| Others | 7,300 | 15,417 | 6,235 | 12,554 | 162 | 220 |
| Total | 14,852 | 35,243 | 10,232 | 20,080 | 1,930 | 3,636 |

Source: Trade Data Monitor based on the Brazilian Secretariat of Foreign Trade (SECEX) NCM 0805.10.00. Numbers may not add due to rounding.

| Brazilian Fresh Orange Exports (MT and US\$ 1,000 FOB) |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Country | Jul 2018 - <br> Oct 2018 | Jul 2018 - <br> Oct 2018 | Jul 2019 - <br> Oct 2019 | Jul 2019 - <br> Oct 2019 | Jul 2020 - <br> Oct 2020 | Jul 2020 - <br> Oct 2020 |
|  | Value | Quantity | Value | Quantity | Value | Quantity |
| Italy | 46 | 58 | 1 | 2 | 1,021 | 1,563 |
| U.K. | 1,075 | 2,130 | 2 | 2 | 843 | 1,331 |
| France | 1,897 | 3,316 | 0 | 0 | 789 | 1,250 |
| Ukraine | 463 | 899 | 862 | 1,762 | 397 | 593 |
| Canada | 37 | 48 | 5 | 2 | 113 | 251 |
| Russia | 183 | 312 | - | - | 89 | 186 |
| Portugal | 3,600 | 7,534 | 1 | 1 | 76 | 83 |
| Netherlands | 174 | 337 | 187 | 378 | 35 | 78 |
| Belarus | - | - | - | - | 45 | 72 |
| Spain | 1,974 | 3,886 | 0 | 0 | 13 | 19 |
| Others | 281 | 611 | 119 | 159 | 89 | 121 |
| Total | 9,729 | 19,132 | 1,177 | 2,305 | 3,511 | 5,549 |

Source: Trade Data Monitor based on the Brazilian Secretariat of Foreign Trade (SECEX) NCM
0805.10.00. Numbers may not add due to rounding.

## Production, Supply, and Distribution Statistics

| Oranges, Fresh Market Year Begins Brazil | $\begin{array}{\|c\|} \hline \text { 2018/2019 } \\ \hline \text { Jul } 2019 \\ \hline \end{array}$ |  | $\begin{gathered} \hline \text { 2019/2020 } \\ \hline \text { Jul } 2020 \\ \hline \end{gathered}$ |  | $\begin{array}{\|c\|} \hline 2020 / 2021 \\ \hline \text { Jul } 2021 \end{array}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { USDA } \\ & \text { Official } \end{aligned}$ | New Post | USDA Official | New Post | USDA Official | New Post |
| Area Planted (HECTARES) | 595800 | 595800 | 595800 | 595700 | 0 | 595700 |
| Area Harvested (HECTARES) | 553500 | 562600 | 553500 | 557000 | 0 | 557000 |
| Bearing Trees (1000 TREES) | 226000 | 226000 | 226000 | 226300 | 0 | 226300 |
| Non-Bearing Trees (1000 TREES) | 25300 | 25300 | 25300 | 27500 | 0 | 27500 |
| Total No. Of Trees (1000 TREES) | 251300 | 251300 | 251300 | 253800 | 0 | 253800 |
| Production (1000 MT) | 19258 | 19298 | 15617 | 14908 | 0 | 16932 |
| Imports (1000 MT) | 20 | 29 | 20 | 24 | 0 | 24 |
| Total Supply (1000 MT) | 19278 | 19327 | 15637 | 14932 | 0 | 16956 |
| Exports (1000 MT) | 4 | 4 | 4 | 8 | 0 | 8 |
| Fresh Dom. <br> Consumption (1000 MT) | 5035 | 4961 | 4943 | 4765 | 0 | 4749 |
| For Processing (1000 MT) | 14239 | 14362 | 10690 | 10159 | 0 | 12199 |
| Total Distribution (1000 MT) | 19278 | 19327 | 15637 | 14932 | 0 | 16956 |
|  |  |  |  |  |  |  |
| (HECTARES) ,(1000 TREES) ,(1000 MT) |  |  |  |  |  |  |

## ORANGE JUICE

## Production

## PS\&D Tables

The following tables provide revised data for Sao Paulo and total Brazilian orange juice production, supply, and distribution (PS\&D) for Brazilian (BR) marketing years (MY, July-June) 2019/20 and 2020/21, and the initial forecast for MY 2021/22. The MY mentioned above are equivalent to U.S. MY 2018/19, 2019/2020, and 2020/21, respectively.

The tables include NFC production for exports converted to Frozen Concentrated Orange Juice (FCOJ), 65 Brix equivalent. The following conversion factor: 1 metric ton of FCOJ 65 Brix equals 5.4 to 5.6 metric tons of NFC 11.6 Brix.

| Brazil: FCOJ PS\&D (Jul-Jun, Million 40.8 kg boxes, TMT, 65 degrees brix) |  |  |  |
| :--- | ---: | ---: | ---: |
| Item/U.S. Marketing Year | US 18/19 | US 19/20 | US 20/21 |
| Item/ Brazilian Marketing Year | $\mathbf{2 0 1 9 / 2 0}$ | $\mathbf{2 0 2 0 / 2 1}$ | $\mathbf{2 0 2 1 / 2 2}$ |
| Delivered to Processors | 352.0 | 249.0 | 299.0 |
| Sao Paulo (FCOJ + NFC) | 328.0 | 229.0 | 275.0 |
| Others | 24.0 | 20.0 | 24.0 |
| Beginning Stocks | 160.0 | 312.0 | 134.0 |
| Total Production | $1,324.0$ | 965.0 | $1,157.0$ |
| Sao Paulo FCOJ | 958.0 | 570.0 | 730.0 |
| Sao Paulo NFC (FCOJ equiv) | 286.0 | 315.0 | 331.0 |
| Others | 80.0 | 80.0 | 96.0 |
| Total Supply | $1,484.0$ | $1,277.0$ | $1,291.0$ |
| Exports | $1,120.0$ | $1,080.0$ | $1,080.0$ |
| Sao Paulo FCOJ | 836.0 | 780.0 | 780.0 |
| Sao Paulo NFC (FCOJ equiv) | 245.0 | 260.0 | 260.0 |
| Others FCOJ | 39.0 | 40.0 | 40.0 |
| Domestic Consumption (FCOJ equiv.) | 52.0 | 63.0 | 75.0 |
| Ending Stocks | 312.0 | 134.0 | 136.0 |
| Total Distribution | $1,484.0$ | $1,277.0$ | $1,291.0$ |

* Note: There is a one-year lag between the BR MY and the U.S. MY. For example, BR MY 2021/22 is equivalent to U.S. MY 2020/21. To ensure data continuity, the current Brazilian MY 2021/22 will be referred to as U.S. MY 2020/21 throughout this report.


## General

ATO/Sao Paulo forecasts the total Brazilian FCOJ 65 Brix equivalent production for MY 2020/21 at 1.157 million metric tons (mmt), an increase of $192,000 \mathrm{mt}$ compared to orange juice production for MY 20219/20, due to expected higher availability of fruit for processing. The Sao Paulo industry is expected to process 275 MBx of oranges for orange juice production ( 190 MBx for FCOJ and 85 MBx for NFC production), accounting for 1.061 mt of juice ( $730,000 \mathrm{mt}$ and 331,000 metric tons of FCOJ and NFC converted to FCOJ equivalent, respectively). Other producing states should deliver 24 MBx , accounting for $96,000 \mathrm{mt}$ of juice.

The total Brazilian FCOJ 65 Brix equivalent production estimate for MY 2019/20 has been revised downward to $965,000 \mathrm{mmt}$, a decrease of $57,000 \mathrm{mt}$ compared to the previous estimate, mainly because a lower volume of fruits should be delivered for FCOJ processing. The drop is related to a lower expected volume of fruit for processing ( 148 MBx as opposed to 163 MBx )

Orange juice figures include NFC production for exports converted to FCOJ 65 Brix equivalent. There is no official estimate for NFC supply and demand in Brazil.

## Consumption

Post forecasts domestic FCOJ equivalent consumption for MY 2020/21 at 75,000 mt, 65 Brix, up $12,000 \mathrm{mt}$ relative to the previous MY ( $63,000 \mathrm{mt}$ ), given that orange juice consumption, especially NFC has continuously been increasing in Brazil. The Brazilian Association of Citrus Exporters (CitrusBR) estimates domestic FCOJ equivalent consumption at $80,000 \mathrm{mt}$, 66 Brix. Note that NFC consumption converted to FCOJ equivalent is included in the orange juice statistic as of this report.

## Trade

ATO/Sao Paulo projects total Brazilian FCOJ 65 Brix equivalent exports for MY 2020/21 at 1.08 mmt , unchanged from the revised number for MY 2019/20 due to expected higher availability of oranges for crushing in the upcoming season. The Sao Paulo industry should contribute 1.04 mmt , 65 Brix equivalent.

ATO/Sao Paulo revised total exports for MY 2019/20 to 1.08 mmt , an increase of $115,000 \mathrm{mt}$ compared to the previous estimate. Although a significantly lower number of oranges are likely to be crushed and cumulative export numbers are lower than the previous season, high inventories have supported exports as shown by official trade statistics. Cumulative orange juice exports during July-October 2020 are $319,574 \mathrm{mt}$, 66 Brix, FCOJ equivalent, according to the Brazilian Secretariat of Foreign Trade, a drop of 19 percent compared to the same period in 2019 ( $398,064 \mathrm{mt}, 66$ Brix, FCOJ equivalent). However, cumulative exports to the United States during July-October 2020 are $54,089 \mathrm{mt}, 65$ Brix, similar to the same period during the previous year ( $57,350 \mathrm{mt}, 65$ Brix, FCOJ equivalent).

According to a study released by USDA Economic Research Service (ERS), retail orange juice sales, which had been falling in the United States each year since 2010, recovered during the current COVID19 pandemic. The U.S. consumers may have sought methods to increase their intake of vitamin C, a nutrient commonly believed to build up a healthy immune system. Orange juice sales during the four
weeks leading up to April 11, 2020, subsequently reached the highest level in five years at 44.5 million gallons. The average price of frozen concentrate orange juice in April rose five percent from the previous month to $\$ 2.40$ per 12 oz . cans. It was the first March-to-April increase in sales price observed since 2012.

In 2019, orange juice consumption in the United States had fallen to 2.25 gallons per capita, a 40 percent decline from 2010. The decrease in orange juice purchases is attributable to both demand and supply-side factors. Research has indicated that declining consumer interest in sugary beverages may be contributing to reduced purchases. On the supply side, citrus greening disease, an insect-borne illness, has decimated the Florida orange juice industry, decreasing orange juice oranges' acreage by 30 percent since 2005. After their surge in April, sales of orange juice are already showing signs of retreating but are still well above average sales for this time of year.

The tables below show fresh orange juice exports (MCN 2009.11.00, 2009.12.00, and 2009.19.00) by country of destination, according to the Trade Data Monitor (TDM), based on data from the Brazilian Secretariat of Foreign Trade (SECEX) for 2017/18, 2018/19, and 2019/20 (July-June), as well as for 2018/19, 2019/20, and 2020/21 (July-October).

The "others" category includes both FCOJ and NFC exports. Post considers the average monthly price by country of destination for the "others" category as a criterion to distinguish between FCOJ and NFC exports.

| Frozen/Unfermented Orange Juice Exports (MT and US\$ 1,000 FOB) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Country | $\begin{gathered} \text { Jul } 2017 \text { - } \\ \text { Jun } 2018 \end{gathered}$ | $\begin{gathered} \text { Jul } 2017 \text { - } \\ \text { Jun } 2018 \end{gathered}$ | $\begin{gathered} \text { Jul } 2018 \text { - } \\ \text { Jun } 2019 \end{gathered}$ | $\begin{gathered} \text { Jul } 2018 \text { - } \\ \text { Jun } 2019 \end{gathered}$ | $\begin{gathered} \text { Jul } 2019 \text { - } \\ \text { Jun } 2020 \end{gathered}$ | $\begin{gathered} \text { Jul } 2019 \text { - } \\ \text { Jun } 2020 \end{gathered}$ |
|  | Value | Quantity | Value | Quantity | Value | Quantity |
| Belgium | 225,720 | 132,577 | 198,441 | 104,843 | 271,180 | 165,417 |
| Netherlands | 169,681 | 94,671 | 104,463 | 54,383 | 87,820 | 62,938 |
| Japan | 114,108 | 58,609 | 74,810 | 38,070 | 100,694 | 58,009 |
| China | 81,083 | 39,979 | 64,161 | 32,788 | 62,443 | 45,218 |
| United States | 286,410 | 169,153 | 40,768 | 20,973 | 27,946 | 19,069 |
| Australia | 28,970 | 14,790 | 22,885 | 11,299 | 21,948 | 12,712 |
| Austria | - | - | 361 | 180 | 17,219 | 10,782 |
| Israel | 22,878 | 12,741 | 19,874 | 10,557 | 8,863 | 7,332 |
| South Korea | 7,871 | 4,091 | - | - | 10,483 | 6,381 |
| Chile | 12,312 | 5,544 | 12,427 | 6,015 | 8,823 | 5,534 |
| Others | 96,296 | 49,266 | 77,211 | 38,004 | 65,730 | 40,145 |
| Total | 1,045,330 | 581,423 | 615,400 | 317,112 | 683,149 | 433,537 |

Source: Trade Data Monitor based on the Brazilian Secretariat of Foreign Trade (SECEX) NCM 2009.11.00 Numbers may not add due to rounding.

| Frozen/Unfermented Orange Juice Exports (MT and US\$ 1,000 FOB) |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Country | Jul 2018 - <br> Oct 2018 | Jul 2018 - <br> Oct 2018 | Jul 2019 - <br> Oct 2019 | Jul 2019 - <br> Oct 2019 | Jul 2020 - <br> Oct 2020 | Jul 2020 - <br> Oct 2020 |
|  | Value | Quantity | Value | Quantity | Value | Quantity |
| Belgium | 42,383 | 22,471 | 74,937 | 41,419 | 50,498 | 40,004 |
| Netherlands | 47,037 | 24,089 | 41,113 | 28,405 | 30,489 | 21,979 |
| China | 14,703 | 7,137 | 23,216 | 16,184 | 15,699 | 14,033 |
| Japan | 14,203 | 7,422 | 42,927 | 24,278 | 18,382 | 12,971 |
| Australia | 4,128 | 2,034 | 8,679 | 4,504 | 9,304 | 6,758 |
| United States | 24,116 | 12,326 | 553 | 375 | 7,272 | 6,421 |
| Israel | 4,752 | 2,489 | 2,554 | 1,658 | 3,021 | 2,445 |
| Spain | 3,688 | 1,937 | 2,080 | 1,522 | 3,253 | 2,281 |
| Italy | 1,127 | 574 | 2,646 | 1,913 | 2,340 | 1,634 |
| Saudi Arabia | 1,826 | 871 | 1,134 | 570 | 2,060 | 1,294 |
| Others | 25,269 | 12,126 | 24,060 | 13,096 | 14,344 | 9,625 |
| Total | 183,232 | 93,476 | 223,899 | 133,923 | 156,662 | 119,444 |

Source: Trade Data Monitor based on the Brazilian Secretariat of Foreign Trade (SECEX) NCM 2009.11.00 Numbers may not add due to rounding.

Brazilian Orange Juice Exports, Not Frozen and Brix Under 20 (MT and US\$ 1,000 FOB)

| Country | Jul 2017 - <br> Jun 2018 | Jul 2017 - <br> Jun 2018 | Jul 2018 - <br> Jun 2019 | Jul 2018 - <br> Jun 2019 | Jul 2019 - <br> Jun 2020 | Jul 2019 - <br> Jun 2020 |
| :--- | :---: | ---: | ---: | ---: | ---: | ---: |
|  | Value | Quantity | Value | Quantity | Value | Quantity |
| Belgium | 186,742 | 566,197 | 178,621 | 525,064 | 178,466 | 495,518 |
| United States | 212,459 | 608,294 | 190,656 | 591,747 | 140,358 | 437,326 |
| Netherlands | 113,974 | 327,726 | 116,831 | 365,919 | 124,646 | 381,418 |
| Austria | - | - | - | - | 16,745 | 44,728 |
| Spain | - | - | - | - | 2,545 | 9,288 |
| Australia | - | - | 1 | 2 | 403 | 1,075 |
| Chile | 610 | 618 | 1,027 | 1,034 | 994 | 955 |
| China | - | - | 0 | 0 | 317 | 377 |
| Philippines | 9 | 7 | 51 | 41 | 91 | 80 |
| Paraguay | 17 | 12 | 19 | 17 | 71 | 80 |
| Others | 198 | 2,155 | 558 | 606 | 299 | 305 |
| Total | 514,010 | $1,505,009$ | 487,763 | $1,484,431$ | 464,936 | $1,371,151$ |

Source: Trade Data Monitor based on the Brazilian Secretariat of Foreign Trade (SECEX) NCM 2009.12.00 Numbers may not add due to rounding.

| Brazilian Orange Juice Exports, Not Frozen and Brix Under 20 (MT and US\$ 1,000 FOB) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Country | $\begin{aligned} & \text { Jul } 2018 \text { - } \\ & \text { Oct } 2018 \end{aligned}$ | $\begin{aligned} & \text { Jul } 2018 \text { - } \\ & \text { Oct } 2018 \end{aligned}$ | $\begin{gathered} \text { Jul } 2019 \text { - } \\ \text { Oct } 2019 \end{gathered}$ | $\begin{gathered} \text { Jul } 2019 \text { - } \\ \text { Oct } 2019 \end{gathered}$ | $\begin{aligned} & \text { Jul } 2020 \text { - } \\ & \text { Oct } 2020 \end{aligned}$ | $\begin{aligned} & \text { Jul } 2020 \text { - } \\ & \text { Oct } 2020 \end{aligned}$ |
|  | Value | Quantity | Value | Quantity | Value | Quantity |
| Belgium | 53,250 | 153,971 | 77,778 | 201,502 | 57,183 | 200,858 |
| United States | 52,660 | 145,680 | 43,607 | 128,692 | 40,969 | 129,584 |
| Netherlands | 49,325 | 151,770 | 50,144 | 154,405 | 42,538 | 127,338 |
| Spain | - | - | - | - | 1,434 | 5,681 |
| China | 0 | 0 | 3 | 1 | 1,093 | 1,305 |
| Chile | 527 | 529 | 319 | 311 | 327 | 319 |
| Paraguay | 7 | 6 | 7 | 8 | 54 | 79 |
| Philippines | 25 | 20 | 29 | 24 | 59 | 54 |
| New Zealand | - | - | - | - | 14 | 25 |
| Singapore | 15 | 12 | 14 | 11 | 27 | 24 |
| Other | 116 | 89 | 41 | 37 | 32 | 27 |
| Total | 155,925 | 452,075 | 171,943 | 484,992 | 143,731 | 465,293 |

Source: Trade Data Monitor based on the Brazilian Secretariat of Foreign Trade (SECEX) NCM 2009.12.00 Numbers may not add due to rounding.

Brazilian Orange Juice Exports, Others (MT and US\$ 1,000 FOB)

| Country | Jul 2017 - <br> Jun 2018 | Jul 2017 - <br> Jun 2018 | Jul 2018 - <br> Jun 2019 | Jul 2018 - <br> Jun 2019 | Jul 2019 - <br> Jun 2020 | Jul 2019 - <br> Jun 2020 |
| :--- | :---: | ---: | ---: | ---: | ---: | ---: |
|  | Value | Quantity | Value | Quantity | Value | Quantity |
| Netherlands | 293,954 | 157,472 | 277,587 | 162,111 | 310,418 | 214,394 |
| Belgium | 289,929 | 156,493 | 278,282 | 138,171 | 210,151 | 116,868 |
| United States | 62,878 | 35,771 | 109,539 | 67,826 | 108,629 | 76,183 |
| U.K. | 8,230 | 4,412 | 7,261 | 3,877 | 26,058 | 17,939 |
| Ireland | 610 | 494 | 732 | 520 | 519 | 442 |
| Turkey | - | - | 55 | 28 | 510 | 358 |
| Russia | - | - | 1 | 0 | 474 | 270 |
| Kuwait | 729 | 298 | 580 | 248 | 529 | 248 |


| Paraguay | 34 | 89 | 340 | 374 | 151 | 243 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Japan | 0 | 0 | 18,456 | 9,843 | 391 | 215 |
| Others | 14,247 | 7,190 | 5,982 | 3,287 | 1,673 | 1,033 |
| Total | 670,613 | 362,220 | 698,816 | 386,285 | 659,503 | 428,193 |

Source: Trade Data Monitor based on the Brazilian Secretariat of Foreign Trade (SECEX) NCM 2009.19.00 Numbers may not add due to rounding.

| Brazilian Orange Juice Exports, Others (MT and US\$ 1,000 FOB) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Country | $\begin{gathered} \text { Jul } 2018 \text { - } \\ \text { Oct } 2018 \end{gathered}$ | $\begin{gathered} \text { Jul } 2018 \text { - } \\ \text { Oct } 2018 \end{gathered}$ | $\begin{gathered} \text { Jul } 2019 \text { - } \\ \text { Oct } 2019 \end{gathered}$ | $\begin{gathered} \text { Jul } 2019 \text { - } \\ \text { Oct } 2019 \end{gathered}$ | $\begin{gathered} \text { Jul } 2020- \\ \text { Oct } 2020 \end{gathered}$ | $\begin{gathered} \text { Jul } 2020 \text { - } \\ \text { Oct } 2020 \end{gathered}$ |
|  | Value | Quantity | Value | Quantity | Value | Quantity |
| Netherlands | 121,491 | 65,850 | 105,310 | 70,576 | 74,212 | 55,372 |
| Belgium | 101,825 | 50,500 | 147,902 | 77,750 | 56,491 | 35,107 |
| United States | 31,068 | 17,963 | 41,634 | 29,880 | 29,993 | 24,723 |
| Japan | 18,455 | 9,843 | 304 | 167 | 13,044 | 9,844 |
| U.K. | 7,258 | 3,871 | 11,934 | 7,956 | 5,134 | 3,875 |
| Ireland | 242 | 182 | 216 | 156 | 110 | 104 |
| Kuwait | 177 | 75 | 231 | 99 | 182 | 99 |
| South Korea | - | - | 50 | 23 | 169 | 92 |
| Paraguay | 181 | 112 | 36 | 45 | 35 | 57 |
| Lebanon | - | - | 206 | 99 | 75 | 50 |
| Others | 5,306 | 2,921 | 1,194 | 755 | 189 | 164 |
| Total | 286,003 | 151,317 | 309,017 | 187,507 | 179,636 | 129,487 |

Source: Trade Data Monitor based on the Brazilian Secretariat of Foreign Trade (SECEX) NCM 2009.19.00 Numbers may not add due to rounding.

## Stocks

Ending stocks for MY 2020/21 are forecast at $136,000 \mathrm{mt}$, 65 Brix, relatively stable compared to MY $2019 / 20$ carryover stocks ( $134,000 \mathrm{mt}$ ). Stock figures include only stocks in the storage tanks of orange juice facilities (processing plants, port terminals, etc.) in Brazil. They do not include stocks owned by Brazilian companies abroad, e.g., in transit and port terminals in the United States, Europe, and Japan.

According to the Brazilian Association of Citrus Exporters (CitrusBR), global Brazilian orange juice inventories were $471,138 \mathrm{mt}$ ( 66 Brix) on June 30, 2020, an increase of 86 percent vis-à-vis stocks on June 30, 2019 ( $253,81 \mathrm{mt}$, 66 Brix). CitrusBR global inventories include orange juice in storage tanks at processing plants and port terminals in Brazil, as well as stocks abroad (vessels and port facilities worldwide).

## Production, Supply, and Distribution Statistics

This table includes NFC production for exports converted to FCOJ 65 Brix equivalent using the following conversion factor: 1 metric ton of FCOJ 65 Brix equals 5.4-5.6 metric tons of NFC 11.6 Brix.

| Orange Juice | 2018/ | 2019 | 2019/ | 2020 | 2020 | /2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Market Year Begins | Jul 2 | 2019 | Jul 2 | 2020 | Jul | 2021 |
| Brazil | USDA Official | New Post | USDA Official | New Post | USDA <br> Official | New Post |
| Deliv. To Processors (MT) | 14239200 | 14361000 | 10689600 | 10159200 | 0 | 12199200 |
| Beginning Stocks (MT) | 160000 | 160000 | 290000 | 312000 | 0 | 134000 |
| Production (MT) | 1312000 | 1324000 | 1022000 | 965000 | 0 | 1157000 |
| Imports (MT) | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Supply (MT) | 1472000 | 1484000 | 1312000 | 1277000 | 0 | 1291000 |
| Exports (MT) | 1142000 | 1120000 | 965000 | 1080000 | 0 | 1080000 |
| Domestic <br> Consumption (MT) | 40000 | 52000 | 42000 | 63000 | 0 | 75000 |
| Ending Stocks (MT) | 290000 | 312000 | 305000 | 134000 | 0 | 136000 |
| Total Distribution (MT) | 1472000 | 1484000 | 1312000 | 1277000 | 0 | 1291000 |
|  |  |  |  |  |  |  |
| (MT) |  |  |  |  |  |  |

## Attachments:

No Attachments

