

Summary of results:

September 12, 2016\*

**Total orange crop production forecast<sup>1</sup>: increase of 1.3%**  
**Hamlin, Westin e Rubi: increase of 5.3%**  
**Valencia Americana, Valencia Argentina, Seleta, Pineapple: increase of 1.0%**  
**Pera Rio: increase of 1.0%**  
**Valencia and Valencia Folha Murcha: without changes**  
**Natal: without changes**

**Forecast Dates 2016-2017**  
 2<sup>nd</sup> forecast update: December 12, 2016  
 3<sup>rd</sup> forecast update: February 10, 2017  
 Final estimate: April 10, 2017

**Orange production forecast update by sector and variety group – citrus belt**

Month	Forecast Components				Orange production forecast 2016-2017			Orange production forecast update 2016-2017		
	May / September (strike-through values were estimated in May, to their left are their respective values updated in September)				May			September		
	Bearing trees	Fruits per tree at stripping <sup>2</sup>	Fruits forecasted by box	Fruit loss from droppage forecast	By tree	By hectare	Total	By tree	By hectare	Total
Sector and Variety Group	(1,000 trees)	(number)	(number)	(percentage)	(boxes/tree)	(boxes/hectare)	(1,000,000 boxes)	(boxes/tree)	(boxes/hectare)	(1,000,000 boxes)
<b>TOTAL</b>										
Hamlin, Westin and Rubi.....	28,304	523	255 <del>275</del>	9.4 <del>10.0</del>	1.62	706	45.86	1.71	744	48.31
Other early season <sup>3</sup> .....	8,256	475	237 <del>245</del>	10.3 <del>11.0</del>	1.63	736	13.48	1.65	744	13.62
Pera Rio.....	59,668	378	245 <del>255</del>	16.0 <del>16.0</del>	1.18	566	70.38	1.19	572	71.09
Valencia and V.Folha Murcha <sup>4</sup>	60,432	409	230	17.0	1.40	629	84.48	1.40	629	84.48
Natal.....	18,888	500	235	17.0	1.67	705	31.54	1.67	705	31.54
<b>Average.....</b>	<b>(X)</b>	<b>430</b>	<b>240 <del>248</del></b>	<b>14.86 <del>15.0</del></b>	<b>1.40</b>	<b>635</b>	<b>(X)</b>	<b>1.42</b>	<b>644</b>	<b>(X)</b>
<b>Total.....</b>	<b>175,548</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>	<b>245.74</b>	<b>(X)</b>	<b>(X)</b>	<b>249.04</b>
<b>NORTH SECTOR</b>										
Hamlin, Westin and Rubi.....	7,995	440	255 <del>275</del>	9.4 <del>10.0</del>	1.36	589	10.91	1.44	620	11.49
Other early season <sup>3</sup> .....	2,025	407	237 <del>245</del>	10.3 <del>11.0</del>	1.40	707	2.84	1.42	714	2.87
Pera Rio.....	11,824	235	245 <del>255</del>	16.0 <del>16.0</del>	0.73	381	8.67	0.74	385	8.76
Valencia and V.Folha Murcha <sup>4</sup>	13,975	320	230	17.0	1.09	493	15.26	1.09	493	15.26
Natal.....	3,785	372	235	17.0	1.24	513	4.71	1.24	513	4.71
<b>Average.....</b>	<b>(X)</b>	<b>(X)</b>	<b>240 <del>248</del></b>	<b>14.86 <del>15.0</del></b>	<b>1.07</b>	<b>496</b>	<b>(X)</b>	<b>1.09</b>	<b>504</b>	<b>(X)</b>
<b>Subtotal.....</b>	<b>39,604</b>	<b>328</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>	<b>42.39</b>	<b>(X)</b>	<b>(X)</b>	<b>43.09</b>
<b>NORTHWEST SECTOR</b>										
Hamlin, Westin and Rubi.....	2,811	203	255 <del>275</del>	9.4 <del>10.0</del>	0.63	273	1.77	0.66	286	1.86
Other early season <sup>3</sup> .....	1,384	257	237 <del>245</del>	10.3 <del>11.0</del>	0.88	384	1.22	0.89	387	1.23
Pera Rio.....	8,309	284	245 <del>255</del>	16.0 <del>16.0</del>	0.89	375	7.36	0.89	379	7.43
Valencia and V.Folha Murcha <sup>4</sup>	3,862	219	230	17.0	0.75	353	2.89	0.75	353	2.89
Natal.....	1,690	414	235	17.0	1.38	536	2.34	1.38	536	2.34
<b>Average.....</b>	<b>(X)</b>	<b>(X)</b>	<b>240 <del>248</del></b>	<b>14.86 <del>15.0</del></b>	<b>0.86</b>	<b>373</b>	<b>(X)</b>	<b>0.87</b>	<b>377</b>	<b>(X)</b>
<b>Subtotal.....</b>	<b>18,056</b>	<b>268</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>	<b>15.58</b>	<b>(X)</b>	<b>(X)</b>	<b>15.75</b>
<b>CENTRAL SECTOR</b>										
Hamlin, Westin and Rubi.....	7,447	481	255 <del>275</del>	9.4 <del>10.0</del>	1.49	631	11.08	1.57	665	11.68
Other early season <sup>3</sup> .....	3,215	576	237 <del>245</del>	10.3 <del>11.0</del>	1.98	841	6.36	2.00	850	6.43
Pera Rio.....	17,263	386	245 <del>255</del>	16.0 <del>16.0</del>	1.20	583	20.76	1.21	589	20.97
Valencia and V.Folha Murcha <sup>4</sup>	16,915	388	230	17.0	1.32	587	22.40	1.32	587	22.40
Natal.....	4,647	494	235	17.0	1.65	638	7.67	1.65	638	7.67
<b>Average.....</b>	<b>(X)</b>	<b>(X)</b>	<b>240 <del>248</del></b>	<b>14.86 <del>15.0</del></b>	<b>1.38</b>	<b>616</b>	<b>(X)</b>	<b>1.40</b>	<b>624</b>	<b>(X)</b>
<b>Subtotal.....</b>	<b>49,487</b>	<b>423</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>	<b>68.27</b>	<b>(X)</b>	<b>(X)</b>	<b>69.15</b>
<b>SOUTH SECTOR</b>										
Hamlin, Westin and Rubi.....	5,009	579	255 <del>275</del>	9.4 <del>10.0</del>	1.79	801	8.98	1.89	844	9.46
Other early season <sup>3</sup> .....	547	418	237 <del>245</del>	10.3 <del>11.0</del>	1.45	601	0.79	1.44	601	0.79
Pera Rio.....	12,073	423	245 <del>255</del>	16.0 <del>16.0</del>	1.32	615	15.92	1.33	621	16.08
Valencia and V.Folha Murcha <sup>4</sup>	13,210	454	230	17.0	1.55	638	20.49	1.55	638	20.49
Natal.....	2,895	558	235	17.0	1.87	771	5.40	1.87	771	5.40
<b>Average.....</b>	<b>(X)</b>	<b>(X)</b>	<b>240 <del>248</del></b>	<b>14.86 <del>15.0</del></b>	<b>1.53</b>	<b>665</b>	<b>(X)</b>	<b>1.55</b>	<b>674</b>	<b>(X)</b>
<b>Subtotal.....</b>	<b>33,734</b>	<b>470</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>	<b>51.58</b>	<b>(X)</b>	<b>(X)</b>	<b>52.22</b>
<b>SOUTHWEST SECTOR</b>										
Hamlin, Westin and Rubi.....	5,042	840	255 <del>275</del>	9.4 <del>10.0</del>	2.60	1,177	13.12	2.74	1,240	13.82
Other early season <sup>3</sup> .....	1,085	610	237 <del>245</del>	10.3 <del>11.0</del>	2.09	1,010	2.27	2.12	1,024	2.30
Pera Rio.....	10,199	556	245 <del>255</del>	16.0 <del>16.0</del>	1.73	860	17.67	1.75	868	17.85
Valencia and V.Folha Murcha <sup>4</sup>	12,470	550	230	17.0	1.88	938	23.43	1.88	938	23.43
Natal.....	5,871	583	235	17.0	1.95	942	11.43	1.95	942	11.43
<b>Average.....</b>	<b>(X)</b>	<b>(X)</b>	<b>240 <del>248</del></b>	<b>14.86 <del>15.0</del></b>	<b>1.96</b>	<b>956</b>	<b>(X)</b>	<b>1.99</b>	<b>969</b>	<b>(X)</b>
<b>Subtotal.....</b>	<b>34,667</b>	<b>630</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>	<b>67.92</b>	<b>(X)</b>	<b>(X)</b>	<b>68.83</b>

(X) Not applicable.

<sup>1</sup> Hamlin, Westin, Rubi, Valencia Americana, Valencia Argentina, Seleta, Pineapple, Pera Rio, Valencia, Valencia Folha Murcha and Natal.

<sup>2</sup> Weighted average per stratum area.

<sup>3</sup> Valencia Americana, Valencia Argentina, Seleta and Pineapple.

<sup>4</sup> V. Folha Murcha – Valencia Folha Murcha.

\* In the publication disclosed at 10 am, values about groves area were reported in the "Bearing trees" column and density planting in the "Fruits per tree at stripping". This transcription error from the system data to the report only occurred at the sector level, and had no interference in the calculations.

### Total orange production forecast<sup>1</sup> update is 249.04 million boxes

The 2016-2017 orange production forecast update of the São Paulo and West-Southwest Minas Gerais Citrus Belt published on September 12, 2016 by Fundecitrus, carried out in cooperation with Markestrat, FEA-RP/USP and FCAV/Unesp<sup>2</sup>, is 249.04 million boxes of 40.8 kg each. This figure represents a 1.3% increase vis-à-vis the first estimate published in May/2016. The method utilized for this re-estimate is the same one employed for the previous season.

The revision is a result from the increased size of the fruit due to the rains occurred in the months from May to August. The accumulated rainfall during those four months was an average of 279 millimeters in producing regions, 102% higher than forecast. As opposed to the expected dry period, the rain in this beginning of harvest remained above its historical average, a condition that has prevailed since the last season.

The greater volume of water, together with the low number of fruits on the trees, contributed to the higher-than-expected fruit growth. Due to this gain in orange weight, one requires fewer fruit to attain the weight equivalent to a 40.8-kg box and, consequently, a small increase in the estimated production.

The effect of such rains is higher on early varieties because rainfall has coincided with the period when oranges are picked. The harvest of such varieties is about to be finished, there remaining basically a new pass to remove the fruit from the third and fourth blooms. In the Hamlin, Westin, and Rubi varieties, fruit size is revised to 255 fruits/box, whereas in the May/2016 estimate, 275 fruits/box were forecast. Other early oranges were re-estimated at 237 fruits/box (eight fruits less than the initial estimate).

In the Pera Rio mid-season variety, an increase in weight was also observed, which may persist for the next months, since soils are wet and spring rains are coming soon. From the block monitoring survey, only 37% of the production of such variety is estimated to have been picked, therefore the re-estimated size at 245 fruits/box may be revised again by the closing of the season.

As regards the late varieties, it is estimated that only 16% of the production of Valencia and Valencia Folha Murcha varieties has already been picked, and 14% for the Natal variety. Thus, the data available so far are insufficient to update the initial estimate.

As regards the rate of fruit loss from droppage, the average value forecast updated, considering all the varieties, is 14.86%, slightly below the initial forecast of 15%. The drop in Hamlin, Westin, and Rubi varieties was revised to 9.4%, lower than the 10% in the May estimate. For the other early varieties, the updated was 10.3% as opposed to the estimated 11%. Droppage rates for Pera Rio and the other varieties were not revised. Such lower figures than the estimates at the beginning of the season occur mainly due to the greater agility in picking, a fact that has been observed in the current season.

<sup>1</sup> Hamlin, Westin, Rubi, Valencia Americana, Valencia Argentina, Seleta, Pineapple Pera Rio, Valencia, Valencia Folha Murcha and Natal.

<sup>2</sup> Exact Sciences Department.