

Summary of results:

December 10, 2015

Total orange crop production forecast¹: increase of 2.6%
Hamlin, Westin and Rubi: reduction of 3.4%
Valencia Americana, Valencia Argentina, Seleta, Pineapple: increase of 2,2%
Pera Rio: increase of 10.7%
Valencia and Valencia Folha Murcha: increase of 0.2%
Natal: increase of 2.8%

Forecast Dates 2015-2016
 3rd forecast update: February 11, 2016
 Final estimate: April 11, 2016

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

Month	Forecast Components				Orange production forecast 2015-2016			Orange production forecast 2015-2016		
	May / December (Value estimated in May and changed in December update)				September			December		
Region and variety group	Bearing trees	Fruits per tree at stripping ²	Fruits forecasted by box	Fruit loss from droppage forecast	By tree	By hectare	Total	By tree	By hectare	Total
	(1,000 trees)	(number)	(number)	(percent)	(boxes/tree)	(boxes/hectare)	(1,000,000 boxes)	(boxes/tree)	(boxes/hectare)	(1,000,000 boxes)
TOTAL										
Hamlin, Westin and Rubi.....	28,786	672	276 270	12.12 +-	2.10	888	60.43	2.03	857	58.35
Other early season ³	7,860	524	237 245	11.91 +-	1.81	758	14.18	1.84	775	14.50
Pera Rio.....	58,495	398	232 254	15.73 +-	1.24	563	72.35	1.37	623	80.10
Valencia and V.Folha Murcha ⁴	60,006	485	220 229	23.00 20	1.60	681	96.25	1.61	682	96.40
Natal.....	18,979	572	225 230	19.50 20	1.89	764	35.78	1.94	786	36.79
Average.....	(X)	498	237 245	17.65 17	1.60	691	(X)	1.64	709	(X)
Total.....	174,126	(X)	(X)	(X)	(X)	(X)	278.99	(X)	(X)	286.14
NORTH SECTOR										
Hamlin, Westin and Rubi.....	7,864	816	276 270	12.12 +-	2.55	1,078	20.03	2.46	1,040	19.34
Other early season ³	1,970	459	237 245	11.91 +-	1.58	713	3.12	1.62	729	3.19
Pera Rio.....	10,567	408	232 254	15.73 +-	1.27	623	13.40	1.40	690	14.83
Valencia and V.Folha Murcha ⁴	13,713	481	220 229	23.00 20	1.59	692	21.83	1.59	693	21.86
Natal.....	3,849	424	225 230	19.50 20	1.40	556	5.38	1.44	571	5.53
Average.....	(X)	523	237 245	17.65 17	1.68	744	(X)	1.71	756	(X)
Subtotal.....	37,963	(X)	(X)	(X)	(X)	(X)	63.76	(X)	(X)	64.75
NORTHWEST SECTOR										
Hamlin, Westin and Rubi.....	2,911	344	276 270	12.12 +-	1.08	468	3.13	1.04	452	3.02
Other early season ³	1,388	377	237 245	11.91 +-	1.30	560	1.80	1.33	572	1.84
Pera Rio.....	9,535	286	232 254	15.73 +-	0.89	367	8.47	0.98	406	9.38
Valencia and V.Folha Murcha ⁴	3,737	209	220 229	23.00 20	0.69	312	2.58	0.69	313	2.59
Natal.....	1,483	587	225 230	19.50 20	1.93	669	2.87	1.99	688	2.95
Average.....	(X)	310	237 245	17.65 17	0.99	414	(X)	1.04	434	(X)
Subtotal.....	19,054	(X)	(X)	(X)	(X)	(X)	18.85	(X)	(X)	19.78
CENTRAL SECTOR										
Hamlin, Westin and Rubi.....	7,858	469	276 270	12.12 +-	1.46	585	11.51	1.41	565	11.11
Other early season ³	2,877	597	237 245	11.91 +-	2.06	788	5.92	2.10	805	6.05
Pera Rio.....	15,685	376	232 254	15.73 +-	1.17	525	18.33	1.29	581	20.29
Valencia and V.Folha Murcha ⁴	16,419	409	220 229	23.00 20	1.35	534	22.21	1.36	535	22.25
Natal.....	4,615	525	225 230	19.50 20	1.73	635	7.98	1.78	654	8.21
Average.....	(X)	431	237 245	17.65 17	1.39	567	(X)	1.43	584	(X)
Subtotal.....	47,454	(X)	(X)	(X)	(X)	(X)	65.95	(X)	(X)	67.91
SOUTH SECTOR										
Hamlin, Westin and Rubi.....	4,925	675	276 270	12.12 +-	2.11	892	10.37	2.03	862	10.02
Other early season ³	607	525	237 245	11.91 +-	1.81	782	1.10	1.85	796	1.12
Pera Rio.....	12,605	420	232 254	15.73 +-	1.30	579	16.43	1.44	642	18.20
Valencia and V.Folha Murcha ⁴	14,161	566	220 229	23.00 20	1.87	747	26.53	1.88	748	26.57
Natal.....	3,068	629	225 230	19.50 20	2.07	811	6.36	2.13	834	6.54
Average.....	(X)	534	237 245	17.65 17	1.72	717	(X)	1.77	737	(X)
Subtotal.....	35,366	(X)	(X)	(X)	(X)	(X)	60.79	(X)	(X)	62.45
SOUTHWEST SECTOR										
Hamlin, Westin and Rubi.....	5,228	942	276 270	12.12 +-	2.94	1,341	15.39	2.84	1,294	14.86
Other early season ³	1,017	644	237 245	11.91 +-	2.21	1,022	2.25	2.26	1,045	2.30
Pera Rio.....	10,103	501	232 254	15.73 +-	1.56	759	15.72	1.72	840	17.40
Valencia and V.Folha Murcha ⁴	11,978	583	220 229	23.00 20	1.93	946	23.09	1.93	948	23.13
Natal.....	5,964	671	225 230	19.50 20	2.21	1,059	13.19	2.27	1,088	13.56
Average.....	(X)	630	237 245	17.65 17	2.03	977	(X)	2.08	1,000	(X)
Subtotal.....	34,290	(X)	(X)	(X)	(X)	(X)	69.64	(X)	(X)	71.25

(X) Not applicable.

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

² Weighted average per stratum area.

³ Valencia Americana, Valencia Argentina, Seleta and Pineapple.

⁴ V. Folha Murcha – Valencia Folha Murcha.

Total orange crop forecast¹ update is 286.14 million boxes

The orange production forecast update of the São Paulo and West-Southwest of Minas Gerais citrus belt for the 2015-2016 season, published on December 10, 2015 by Fundecitrus with the cooperation of Markestrat, FEA-RP/USP and FCAV/Unesp² – is 286.14 million boxes (40.8 kg). This amount represents a 2.6% increase in comparison to the first forecast published in May 2015 and maintained in September 2015.

The method for this forecast update contemplated the information provided by the monitoring research conducted on a monthly basis by Fundecitrus technicians in several blocks distributed throughout the citrus belt (as per the Method for the Orange Production Forecast Update at Fundecitrus website www.fundecitrus.com.br), and from data obtained from the Technical Committee (composed by Fundecitrus members), which together enabled to ascertain the average fruit size per variety at processing, in the period between June and November 2015. Data was collected on an individual basis and was compiled under strict confidentiality. Because it represents all fruits processed in the citrus belt, such data contributed to further increase the reliability of the method for the orange production forecast update.

Fruits are larger than expected and, consequently, a smaller amount of oranges is required to reach the weight of 40.8 kg (box). The average size, considering all varieties, updated in December is 237 fruits/box, that is, eight fruits less than the initial forecast. Such increase in fruit size is attributed to some factors such as the higher volume of rain in comparison to the respective historical average. In the second semester of 2015 only, the accumulated rain volume in the citrus belt – considering the rain volume expected for December – is 212 mm higher than the average for this period as recorded between 2010 and 2014, equivalent to a volume of 35 mm/month in this entire area, or a 38% increase in relation to the historical average. It is worth mentioning also the smaller number of fruits/tree in relation to previous seasons. Exceptions as regards size were observed in Hamlin, Westin and Rubi varieties that presented an average size at processing of 276 fruits/box, requiring six more fruits to complete a 40.8 kg box than originally expected (270 fruits/box). The forecast of other early season varieties was updated to 237 fruits/box (8 fruits less). Pera Rio to 232 fruit/box (22 fruits less), Valencia and Valencia Folha Murcha to 220 fruit/box (9 fruits less) and Natal to 225 fruit/box (5 fruits less).

As regards the rate of fruit loss from droppage, the average value forecast updated, considering all varieties, is 17.65%, slightly higher than the initial forecast of 17%. Hamlin, Westin and Rubi varieties were reviewed to 12.12%, higher than the 11% value used in the May forecast. The forecast for other early season varieties was updated to 11.91% versus the 11% forecasted. The rate of Pera Rio loss from droppage was 15.73% versus the 17% initially expected. Valencia and Valencia Folha Murcha were updated to 23% and Natal to 19.50%. This higher value occurs mainly due to a delay in harvesting. It is estimated that 72% of the crop were already harvested until November, where: Hamlin, Westin and Rubi varieties' blocks harvested is 98%, other early varieties 82%, Pera Rio 83%, Valencia and Valencia Folha Murcha 56% and Natal 52%.

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

² Exact Sciences Department.