

Report on fruit size and droppage rate

April 10, 2025

This publication presents the final estimates of fruit size (pieces of fruit to make a standard 40.8 kg box at harvest) and droppage rate from 2015-2016 to 2024-2025 orange crops. The precision of the overall average of the citrus belt is higher than that of the sectors, ages or variety groups, due to the larger sample size.

The information was obtained from the monitoring survey conducted on 1,200 blocks since May, which cease to be visited as their harvest is concluded. Other source of data used was the average size of fruit received throughout the crop by orange juice companies associated to Fundecitrus – Citrosuco, Cutrale and Louis Dreyfus – for industrial processing. Each processing company supplies individual data under confidentiality for the calculation of the average size of processed fruit.

Table 1 – Oranges¹: Final estimates of fruits per box (average size) and droppage rate from 2015-2016 to 2024-2025 crops by sector, age, variety groups and reasons of fruit drop since 2016-2017 crop

Sector, age, variety and reasons of fruit drop	Final estimate of fruit per box										Final estimate of droppage rate (%)									
	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025
North.....	237	220	248	252	256	248	267	242	246	246	18.09	10.18	15.55	19.68	16.72	17.96	19.06	19.40	14.80	14.30
Northwest....	219	224	245	281	255	267	273	287	240	239	14.81	12.73	22.27	26.74	17.44	23.74	20.49	18.10	12.70	13.40
Central.....	211	214	227	241	257	269	303	247	255	263	19.94	16.25	19.50	15.81	18.79	27.03	24.35	19.70	20.70	20.50
South.....	237	230	268	273	263	268	288	281	261	266	22.28	13.58	19.94	15.04	22.81	20.34	26.26	22.30	24.20	18.60
Southwest....	225	224	246	265	271	246	276	251	267	255	11.16	12.75	11.82	14.89	13.11	19.60	18.65	25.00	20.20	18.00
3 to 5 years..	228	229	221	238	217	224	249	233	239	265	11.21	9.14	12.86	11.60	13.90	12.63	13.25	12.70	15.43	17.86
6 to 10 years	223	221	242	253	247	253	263	241	243	262	14.93	11.22	15.63	14.69	16.38	18.18	17.83	18.60	16.71	15.35
Above 10 years.....	228	222	252	264	271	262	293	258	260	253	20.98	16.15	19.16	18.31	18.40	23.48	23.90	23.10	20.07	18.49
Hamlin, Westin and Rubi.....	272	243	277	320	300	278	332	310	293	283	12.12	9.40	10.00	11.00	10.50	12.80	12.00	10.40	10.80	10.60
Valencia Americana, Seleta, Pineapple and Alvorada	233	210	251	282	262	255	289	266	251	257	11.91	10.30	11.30	12.30	13.20	11.50	13.50	14.20	12.10	13.90
Pera Rio.....	225	224	253	261	261	263	287	258	258	253	15.51	12.00	17.00	16.80	17.50	22.90	23.80	20.30	19.0	16.50
Valencia and Folha Murcha.....	200	211	223	224	239	247	262	229	233	247	22.62	17.00	21.80	18.40	21.50	25.20	25.00	27.50	22.0	21.60
Natal.....	211	220	235	237	247	246	269	233	244	252	19.71	17.50	20.00	23.80	22.00	23.70	26.30	28.00	28.90	22.60
Natural and physical.....	-	-	-	-	-	-	-	-	-	-	ND	5.99	7.45	5.16	5.15	6.63	5.50	3.94	3.01	3.01
Greening.....	-	-	-	-	-	-	-	-	-	-	ND	1.37	4.06	2.70	4.39	3.71	3.08	5.48	8.35	9.05
Fruit borer and Fruit fly.	-	-	-	-	-	-	-	-	-	-	ND	2.34	2.70	5.70	4.29	4.76	5.63	6.27	5.05	4.11
Black spot...	-	-	-	-	-	-	-	-	-	-	ND	3.75	2.16	2.02	2.12	2.98	2.90	2.34	1.50	1.11
Leprosis.....	-	-	-	-	-	-	-	-	-	-	ND	0.25	0.62	0.82	1.30	1.70	2.83	1.99	0.53	0.23
Cancker.....	-	-	-	-	-	-	-	-	-	-	ND	0.03	0.31	0.30	0.38	0.37	0.21	0.17	0.19	0.12
Fruit peel cracking	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND	1.45	1.65	1.10	0.33	0.17
Citrus Belt	226	222	246	259	261	258	285	256	255	256	17.49	13.73	17.31	16.70	17.63	21.60	21.80	21.30	19.00	17.80

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