



# terragaia Ask us for the World



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Whatever the complexity of the supply chains, no-one - the producers, manufacturers, logistics specialists, distributors... in short any of the operators - can claim ignorance of the social and environmental content of their products. The new world standards in this field (which are voluntary) clarify and highlight the responsibilities of the purchasers. In an ideal world, we should no longer be eating prawns fed on slaves' blood, tomatoes harvested by desti-

tute migrant labour, pseudo organic or fair trade products, etc. The "We didn't know" line

will no longer apply. It is already changing, and will change many more things for the operators. The desire to determine the sustainable production cost in the furthest upstream links of the industries, social and environmental impact studies, audits, inspections and certifications have been common currency for years. But now we need to go further. A company's performance, generally measured via the resources it puts into social programs, occupational safety, education or even healthcare centres, will be valid only if the actual effects of these investments are apparent, and are measured or at least assessed. A school is fine, but having children who have acquired know-how or skills is even better. This assessment was

the main idea of the 4th SocSem, organised by Cirad and Irstea in Montpellier in late November 2014.

For a free copy of the publication distributed at this event, and in the near future to be able to access the presentation videos, please visit the seminar site: **social-lca.cirad.fr** 

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### ontents

Direct from the markets (E. Imbert, D. Loeillet, C. Dawson, P. Gerbaud, T. Paqui, R. Bright)

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E. Imbert, D. Loeillet, C. Dawson, P. Gerbaud, T. Paqui, R. Bright

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Cover photograph: © Eric Imbert

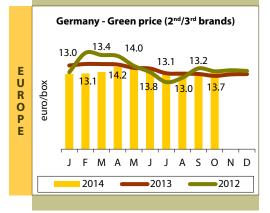
**No. 227** November 2014

### Banana

### October 2014

Balanced at the beginning of October, the European markets weakened throughout the month, because of a rising supply and more sluggish demand. On the dollar banana side, the Colombian shortfall reached its widest point (- 30 %). However, this was largely offset by incoming Ecuadorian shipments which were slightly up (overall volumes still above average), and above all by the Costa Rican production peak which came at the beginning of the month. In parallel, the French West Indies reached their production peak with above-average quantities (+ 14 %). African volumes were average for the season, with high levels from Cameroon (+ 10 %) offsetting the shortfall from Côte d'Ivoire (- 10 %). In Northern Europe, sales maintained good vitality in spite of the start of the school holidays. In Southern Europe, they were mainly stimulated by promotions. In Eastern Europe, the fall in rates helped restore more dynamic sales. However, the end of the promotions, temperatures remaining mild for the season and the run-up to the All Saints' holiday at the end of the month bit by bit reined back sales. Hence green banana prices dropped gradually throughout the month, though they remained above average for previous years on all the European markets. In Spain, the fall in Canaries platano shipments caused by winds contributed to prices rising throughout the month. In Russia, demand started to exhibit signs of weakness because of economic problems (inflation, rouble/ dollar exchange rate in freefall). CIF prices returned to an average level.

NORTHERN EUROPE — IMPORT PRICE			
October	Comparison previous average for		
2014			
euro/box	month	last 2 years	
13.75	+4%	+ 5 %	

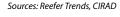


### ■ Banana: purée price in Europe for September 2014.

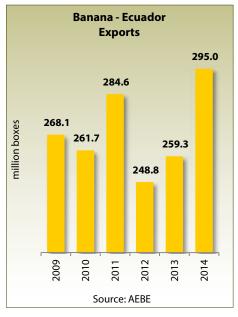
Туре	Price (USD/t)	Source	Comments
ss aseptic, 22°Brix	700-750 cfr Holland df	Ecuador	Scarce supply due to difficult climate conditions in Costa Rica. Prices on the up for all sources.

Note: cfr: cost and freight / df: duty free / Source: MNS-ITC Geneva

■ 2014, a record year for Ecuador, before 2015... 295 million boxes, i.e. more than 5.3 million tonnes! That is the level that Ecuadorian banana exports are expected to reach in 2014, beating the previous record set in 2011 by 3 %. This excellent performance can be explained first of all by a distinct rise in production, thanks especially to the planting investments made with State support (subsidised input purchases, etc.). Secondly, Ecuadorian exporters have been able to take advantage of favourable cyclical conditions on the international market (fall in Costa Rican and Colombian production, lack of local production on the Chinese market because of typhoons). The scenario could be completely different in 2015. The revitalisation policy of the Ecuadorian banana cultivation area should continue to bear its fruits, while world market supply levels could reach maximum level for the first time in years, with practically none of the main suppliers to world trade experiencing any severe climate events. On the other hand, the collapse of the rouble is making for uncertain prospects on the Russian market, a major outlet for Ecuador.







EUROPE - RETAIL PRICE				
	October 2014		Cor	mparison
Country	type	euro/kg	Sept. 2014	average for last 3 years
France	normal	1.52	+ 2 %	+ 5 %
	special offer	1.25	0 %	+ 2 %
Germany	normal	1.27	0 %	+6%
	discount	1.13	- 1 %	+ 4 %
UK (£/kg)	packed	1.14	0 %	- 4 %
	loose	0.73	- 4 %	+8%
Spain	platano	2.13	+4%	+ 12 %
	banano	1.28	+1%	- 3 %





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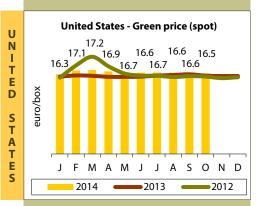
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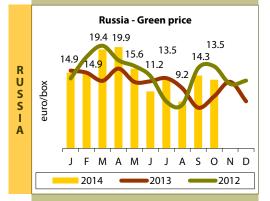
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### Banana



UNITED STATES - IMPORT PRICE			
October 2014 USD/box	Comparison		
	previous month	average for last 2 years	
16.50	+ 3 %	- 1 %	



RUSSIA - IMPORT PRICE			
October	Comparison		
2014 USD/box	previous month	average for last 2 years	
13.50	- 6 %	+ 3 %	



CANARIES - IMPORT PRICE*			
October	Comparison		
2014 euro/box	previous month	average for last 2 years	
21.10	0 %	+8%	
* 10 E kg hov og vivalent			

■ World banana market: still set fair. Supply levels to the EU and United States rose again in September (from September 2013 and 2012) and not just slightly! For the EU-28, volumes on the market increased by 6 %, reaching 454 000 tonnes. European production climbed steeply (+ 23 %), through the effect of Martinique literally exploding in September (+ 90 % from 2013), Guadeloupe confirming its good shape and the Canaries maintaining their very good trend. Latin American (dollar) sources were up by 4 %. All the sources climbed steeply except for Colombia, which nosedived as expected (climate vagaries at the beginning of summer). The ACPs were lagging, with the African group still weighed down by the repercussions of the Ivorian floods. The other ACPs were stable. with the Dominican Republic only increasing slightly, and Surinam

Finally, the supply level over the first nine months of the year was 5 % up on 2013. Over the last

and Saint Lucia coming undone.

twelve months, the European market saw great expansion, in excess of 5.5 million tonnes, i.e. nearly 300 000 tonnes more than the previous year.

The United States also confirmed the very positive trend of its market, with a 2 % gain over the first nine months. Honduras and Colombia sank, while all the other sources were beating records.

Source: CIRAD



Banana - January to September 2014 (provisional)					
000 tonnes	2012	2013	2014	2014/2013 difference	
EU-27 — Supply	3 847	4 006	4 2 1 6	+ 5 %	
Total import, of which	3 384	3 575	3 754	+ 5 %	
MFN	2 664	2 806	2 635	-6%	
ACP Africa	345	391	412	+ 5 %	
ACP others	375	378	388	+ 3 %	
Total EU, of which	463	431	462	+7%	
Martinique	137	128	124	- 3 %	
Guadeloupe	47	47	54	+ 15 %	
Canaries	262	245	253	+ 3 %	
USA — Import	3 274	3 425	3 495	+ 2 %	
Re-exports	380	402	414	+ 3 %	
Net supply	2 894	3 023	2 723	- 10 %	

EU sources: CIRAD, EUROSTAT (excl. EU domestic production) / USA source: US Customs

EUROPE - IMPORTED VOLUMES — OCTOBER 2014				
		Compariso	on	
Source	September 2014	October 2013	2014 cumulative total compared to 2013	
French West Indies	7	+ 46 %	+ 11 %	
Cameroon/Ghana/Côte d'Ivoire	7	- 10 %	+ 2 %	
Surinam	7	- 15 %	- 8 %	
Canaries	7	0 %	+ 3 %	
Dollar:				
Ecuador	7	+8%	+ 35 %	
Colombia*	7	- 27 %	- 18 %	
Costa Rica	7	+ 62 %	+ 76 %	

Estimated thanks to professional sources / \* total all destinations



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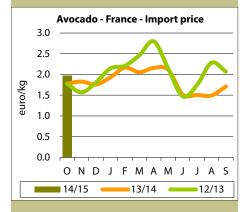


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### Avocado

### October 2014

What a fine start to the season! Hass prices rose steadily, peaking in late October. The supply level, though close to average for the past two years, proved insufficient in view of the new consumption standards in force in Europe. The last shipments from the "summer suppliers" were comparable in volume to last season. In parallel, Chilean imports were considerably less than in 2013, at only average levels. Mexico provided a bigger top-up supply than the previous season, though still moderate. This promising context was to the advantage of the green varieties. Prices also soared, especially with the supply level proving well in shortfall (Spanish season back to average, though modest Israeli imports).



P R I	Varieties	Average monthly price euro/box	Comparison with the last 2 years
E	Green	7.20	+ 31 %
	Hass	10.60	+ 35 %

V		Comparison		
0 L U	Varieties	previous month	average for last 2 years	
M E	Green	7	- 7 %	
s	Hass	22	+ 5 %	

■ The Chilean Hass avocado on the tiny Chinese market. The Chinese sanitary authorities have authorised, for a two-year period, the import of Chilean avocados. The fruits must come from orchards located in zones free from the fruit fly, and which have followed the sanitary protocol stipulated in the agreement. The Peruvian Hass should also shortly obtain the green light. The negotiations, at a very advanced stage, could be finalised in December. China is currently a minor market, with

Sources: Comité de Palta, El Comercio, Trade Map

less than 1 000 tonnes imported in

2013, mainly from Mexico.

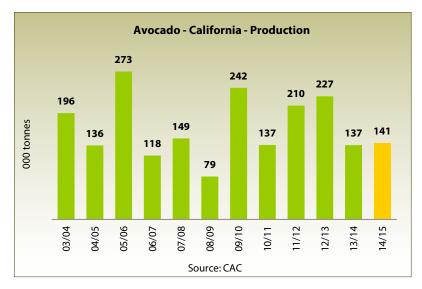
■ Californian avocado: another small harvest on the horizon!
The initial estimates from professional sources are reckoning on a harvest of between 135 000 and 145 000 tonnes, similar to or very

slightly greater than the small 2014

harvest. This is surprising, given

the increase expected from the production swing phenomenon. It can be explained to a great extent by the historic drought, ongoing in certain zones (San Joaquin valley, central coastal zone). Furthermore, precipitation levels will need to return to a more normal level for this forecast to be realised. This second year of lean harvest is good news for the summer 2015 season in Europe. The US market should be very open, and able to absorb good volumes of Peruvian Hass, production of which should continue to rapidly come into its prime (1 500 to 2 000 ha planted per year since 2009). The only blot on the horizon is that the Californian production calendar, just like last year, should be rather focused on the core season (especially April to June). Given the transport time to the Old Continent, the scenario of a wave of Peruvian fruits surging into Europe from mid-June to mid-July should not be ruled out.

Sources: CIRAD, professionals



V 0 I	Source	Comp previous month	average for last 2 years	Observations	Cumulative total / cumulative average for last 2 years
Ū	Israel	7	+ 13 %	Ettinger season off to a gradual and late start. Volumes below average.	- 13 %
M	Mexico	=7	+ 14 %	Hass imports moderate, though rising and above average.	+ 21 %
S	Chile	=	+ 3 %	Hass imports highly irregular (marked peak at the end of the month), though with an average level overall, and well below the 2013-14 season level.	- 8 %
	Spain	77	+ 40 %	Spanish Bacon and Fuerte season off to an early start, rapidly progressing. Volumes well above average.	+ 40 %



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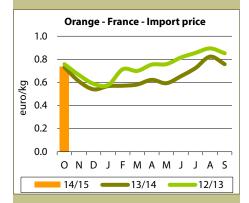
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### **Orange**

### October 2014

The summer season has ended on a calamitous note. Imports remained high for both Argentina and South Africa, despite the run-up to the end of the season. Furthermore, demand was slow, with the Indian summer impeding consumption. The downward trend in Southern Valencia prices, starting from late September, continued and intensified, with the level reached at the end of the month among the lowest seen. In this context the start to the Spanish season proved to be a struggle, especially with the coloration of the first Navelines leaving something to be desired. Sales were slow until the end of the month, when referencing changes in the supermarket sector enabled a clear improvement.



P R I	Туре	Average monthly price euro/15-kg box	Comparison with average for last 2 years
Ē	Dessert orange	12.75	+ 10 %
	Juice orange	9.60	- 12 %

V O L U		Comparison			
	Туре	previous month	average for last 2 years		
M E	Dessert orange	7	+ 10 %		
S	Juice orange	7	- 7 %		

### ■ Orange: juice prices in Europe in September 2014.

	Туре	Price (USD/t)	Source	Comments
Orange	FCOJ, Pera, 66°Brix, bulk, ratio 14-16	2 100-2 200 fca Holland	Brazil	The drought in Brazil and the low availability
	FCOJ, low pulp, 66°Brix, ratio 22<	2 350-2 450 fca Benelux	DIdZII	of high-ratio juice are raising fears of an undersupply for this category.
	FCOJ, Valencia, 66°Brix, ratio 22<	2 350-2 450 fca Benelux	Mexico	The harvest should be scarce in Florida, and
	FCOJ, blood, 55°Brix	2 700-2 900 EUR/t exw Italy	Italy	more particularly in Brazil, where drought is affecting production. Demand is flat, particularly in the USA, where it is even on the wane.

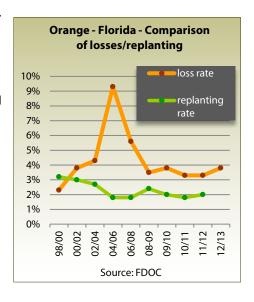
Note: fca: free carrier / exw: ex-works / Source: MNS-ITC Geneva

### ■ Florida: launch of two new citrus replanting aid pro-

grammes. Replacing trees which died due to greening is a necessity for the survival of Floridian citrus growing, with its cultivation stock having melted away like snow in the sun since the invasion of the bacterial infection in 2005 (20 million trees lost, i.e. 25 % of the stock). Two new initiatives have been launched. The USDA funded TAP (Tree Assistance Program) will provide access to aid covering 50 % of land preparation costs (uprooting diseased trees, soil preparation) and 65 % of planting costs (plants and replanting work). Only producers affected by the disease and with a turnover less than 900 000 USD will be eligible, with the aid ceiling set at 125 000 USD per grant. Furthermore, the Citrus World cooperative (1 000 producers from central and southern Florida) has voted for a 10 million USD allowance to help its members expand their cultivation area. This is the second replanting

programme supported by private funds, after that announced by Coca Cola in 2013, which is beginning to be implemented (just over 1 000 ha planted by Duda since 2013). Its target is 10 000 ha.

Source: USDA

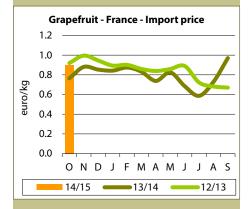


	Varieties				Cumulative total /
V O	by source	previous average for month last 2 years		Observations	cumulative average for last 2 years
L M E	Spanish Navel	77	+ 10 %	Season off to a very gradual start at the beginning of the month, due to still imperfect coloration and an unfavourable market context. Picking up at the very end of the month.	+ 10 %
S	South African Valencia		0 %	Volumes average overall, though heavy at the beginning of the month in the same vein as in late September.	- 12 %
	Argentinian Valencia	Ä	+ 112 %	Last imports during the first half-month, but very high.	- 16 %

### **Grapefruit**

### October 2014

The tropical grapefruit market proved satisfactory through most of the month, despite demand slowed by the high temperatures in the main consumption areas. Incoming Mexican shipments remained smaller than in 2013, and the Floridian season started late at the end of the month. Sales were mainly fluid at good rates, though they hit something of a flat note for sizes 50 and 55 during the second part of the month. The first half-month was also rather favourable for Israel, the only source in place on the Mediterranean grapefruit market segment. The situation deteriorated during the second half-month, with the start of the Spanish season and the growth of the Turkish supply to an above-average level.



P R I C	Туре	Average monthly price euro/ 17-kg box equivalent	Comparison with average for last 2 years
Е	Tropical	15.50	+ 26 %
	Mediterranean	13.00	+ 4 %

V		Comparison			
O L U	Туре	previous month	average for last 2 years		
M E	Tropical	na	na		
s	Mediterranean	77	+ 13 %		

### ■ Grapefruit and lemon: juice prices in Europe in September 2014.

	Туре	Price (USD/t)	Source	Comments	
	Frozen concentrate, 58°Brix, red, ratio 9.5<	1 800-1 900 cfr Holland		No change in the situation. Supply level still limited for white	
Grape- fruit	Frozen concentrate, 58°Brix, pink, ratio 9.5<	1 950-2 050 cfr Rotterdam	Florida	grapefruit juice because of a reduction in surface areas planted. Demand for red and pink juices	
	Frozen concentrate, 58°Brix, white, ratio 9.5<	3 000-3 200 cfr Rotterdam		decreasing faster than quantities available, which could lead to price falls.	
	Frozen concentrate, cloudy, 400 gpl	4 000-4 500 cfr main European ports		Supply level very limited due to the big decrease in the harvest (60 %).	
Lemon	Frozen concentrate, cloudy, 500 gpl	6 500-7 000 cfr Rotterdam	Argentina	Prices quoted are from the spot market. Rates have rarely been as high.	
Lemon	Frozen concentrate, clear, 500 gpl	′			
	Frozen concentrate, clear, 400 gpl	4 500-5 000 cfr main Europe- an ports			

Note: cfr: cost and freight / Source: MNS-ITC Geneva

### ■ Iran: citruses as well as oil.

Iran wants to get into citrus exports, according to an official from the Ministry of Agriculture. The stated objective is to achieve a figure of 800 000 t. Iran is one of the world's top ten citrus producers with a production of approximately 3 million tonnes, but at present is practically absent from the world market (fewer than 10 000 t exported over the past two years, according to Trade Map). The cultivation stock comprises mainly oranges (Navel Thomson and Washington, Valencia, etc.) and easy peelers (Kinnow, Page, Tangelo Orlando). There are three distinct main production zones: the coastal strip around the Caspian Sea (particularly in Mazandaran province, north of Tehran), the

coastal strip along the Persian Gulf (Hormozgan province) and inland in the foothills of the Zagros mountains (Fars province).

Sources: Trade Map, Y. Ebrahimi, FAO



	Comparison			Cumulative	
V O L	Source	previous month	average for last 2 years	Observations	total / cumulative average for last 2 years
M	Florida	7	- 39 %	Imports limited (rains at beginning of season, limited size range) and late (first volumes at the very end of the month).	- 39 %
S	Mexico = 1 na		na	Incoming shipments remaining in shortfall (approx 10 %). Last shipment at the end of the month.	na
	Turkey	77	+ 57 %	High imports into the EU, due in part to a largely closed Russian market.	+ 57 %
	Israel	77	+9%	Volumes high in the last twenty days, though lower than in 2012-13.	+9%

### **Pineapple**

### October 2014

The Sweet supply from Latin America was unbalanced in October. Mainly comprising big sizes, it rapidly weighed down on the market. The launch of promotions at the beginning of the month, as well as the agreed rate reductions, helped maintain some fluidity on the market. During the second half-month, demand was affected by the All Saints' holiday and came to a standstill. Nonetheless, the market remained relatively stable, since the supply, although unbalanced, was limited, enabling the rates for the less available small sizes to strengthen. Finally, we should note the high prices charged by the established brands throughout the month. Some took advantage of their low supply levels to apply considerable price rises.

The restricted Cayenne supply sold more or less well depending on the fruit quality.

At the beginning of the month, the airfreight market, still with a low supply level, remained fairly stable. The rates range for sources such as Cameroon and Benin widened because of quality concerns on their products. The increase in the supply over the month coincided with the start of the All Saints' holidays. At that point demand subsided, and sales were a bit more listless. The lack of sales was accentuated by ongoing quality problems on the sources mentioned above. Some operators had to lower their prices to get stocks moving, and some sales were made at relatively low rates (1.50 euro/kg).

The Sugarloaf supply sold best at the beginning of the month, when it was smaller. The rates range fluctuated between 1.75 and 2.00 euros/kg throughout October.

From the beginning of the month, the Victoria supply from Reunion was unbalanced by the presence of many small fruits that struggled to sell. Specifically, this resulted in the source's rates range widening, depending on the sizes on the market.

	PINEAPPLE — IMPORT PRICE							
E U R O P E	Weeks 40 to 44	Min	Max					
	Air-freight (euro/kg)							
	Smooth Cayenne Victoria	1.70 3.00	2.10 3.70					
	Sea-freight (euro/box)							
	Sweet	6.00	9.00					

### ■ Mango: juice and purée prices in Europe in September 2014.

Туре	Price (USD/t)	Source	Comments	
Aseptic purée, 17°Brix, Alphonso	1 550-1 650 cfr Rotterdam		In India, the Alphonso from the west of the country has	
Aseptic concentrate, 28°Brix, Totapuri	1 200-1 400 cfr Rotterdam	India	been sold in full, though with discounts granted for other varieties. The Totapuri	
Aseptic purée, 14-16°Brix, Totapuri	825-870 ddp London		harvest is complete, and less concentrate has been	
Aseptic concentrate, 28°Brix, Tommy Atkins	1 300-1 400 fca Holland	Mexico	produced. In Mexico, the harvest, smaller than predicted, has sold off in fu Prices are strengthening.	

Note: cfr: cost and freight / ddp: delivered duty paid / fca: free carrier / Source: MNS-ITC Geneva

### ■ Pineapple: juice prices in Europe in September 2014.

Туре	Price (USD/t)	Source	Commentaires	
Frozen concentrate, 60°Brix, Smooth Cayenne	1 650-1 750 fca Holland	Thailand	Prices on the increase due to the announced	
Aseptic concentrate, 60°Brix, Smooth Cayenne	1 650-1 750 cfr Rotterdam	IIIdilallu	production falls in the Philippines and Thailand, causing volumes to be	
NFC, ss aseptic, 12°Brix, MD-2	700-850 ddp London	Costa Rica	causing volumes to be diverted to processing. Demand still flat on the East European markets.	

Note: fca: free carrier / cfr: cost and freight / ddp: delivered duty paid / Source: MNS-ITC Geneva

# market. 2014 should be a year of tension on the lime market right to the end. Prices, already peaking between spring and the beginning of summer, saw a new surge in November. The Brazilian supply, usually already limited during this inter-season period, is particularly low because of the severe drought ravaging the São Paulo region, where just 20 % of the orchards are irrigated: a situation which could persist in December, although a small rise in volumes

is expected.





PI	PINEAPPLE - IMPORT PRICE IN FRANCE - MAIN SOURCES							
Weeks 2	014	40	41	42	43	44		
		Air-freigh	t (euro/kg)					
<b>Smooth Cayenne</b>	Benin	1.80-1.90	1.75-2.00	1.80-2.00	1.70-1.90	1.70-2.00		
	Cameroon	1.80-1.90	1.75-2.00	1.80-2.00	1.70-1.90	1.70-1.90		
	Ghana	1.80-2.00	1.80-2.00	1.80-2.00	1.80-2.00	1.80-2.00		
Victoria	Réunion	2.50-3.50	2.50-3.50	2.50-3.50	2.50-3.50	2.50-3.80		
	Mauritius	2.50-3.40	2.50-3.40	3.00-3.40	3.00-3.30	3.00-3.40		
		Sea-freight	t (euro/box	)				
Smooth Cayenne	Côte d'Ivoire		6.00-7.50	6.00-7.50				
Sweet	Côte d'Ivoire	7.00-9.00	7.00-9.00	7.00-8.50	7.00-8.50	7.00-9.00		
	Ghana	7.00-9.00	7.00-9.00	7.00-8.50	7.00-8.50	7.00-9.00		
	Costa Rica	6.50-8.00	6.50-7.50	6.50-7.50	6.50-7.50	6.50-7.50		



### Mango

### October 2014

Against all expectations, the mango supply level in October proved to be in shortfall, given the more dynamic demand. The end of the Israeli season and the decrease in Spanish shipments coincided with a marked delay to the start of the Brazilian season. Exports from this source were focused on North America, where the market conditions were particularly favourable. Furthermore, the distinct delay in Kent production, traditionally shipped to Europe, only accentuated this market imbalance. This was manifested by an explosion in rates, bearing no real relation to the product value and quality of the incoming fruits. The Brazilian Tommy Atkins and Keitt reached prices rarely recorded, sometimes in excess of 10.00 euros/box. The last batches of Spanish Osteen and then Keitt took advantage of these unusual conditions. Kents and Irwins from the same source sold at high rates for limited quantities, of gradually deteriorating quality. Some batches of Moroccan Osteen supplemented the supply in the first half-month, though they traded at lower basic prices.

At the beginning of the month the Israeli season finished, with Keitt batches proving unpopular compared to the Spanish competition. Brazilian Kent shipments started in early October with marginal quantities, enabling high prices to be maintained. These prices remained stable, with volumes available remaining small until the end of the month.

### ■ Other fruits: juice and pulp prices in Europe in September 2014.

	Туре	Price (USD/t)	Source	Comments	
Acerola	frozen ss, 6-8°Brix Frozen concentrate,	1 150-1 200 cfr Rotterdam 3 000-3 100	Brazil	Market abundantly supplied, with prices falling.	
	20-22°Brix, clear Frozen concentrate, 52°Brix	fob Santos 8 500-9 500 cfr Holland		Supply level still very limited, whether from	
Passion	NFC, 11°Brix	3 500-3 750 cfr exw Ecuador	Ecuador	Ecuador or Peru. However, the latest harvest is better than predicted.	
fruit	Frozen concentrate, 50°Brix	10 500-11 000 fca Holland		Prices falling, despite uncertainty over the possible impact of El Niño on the December harvest.	
Guava	Frozen concentrate pulp, 20°Brix, white	1 200-1 300 cfr Rotterdam	Brazil	Market steady for white, although the September peak in Brazil seemcs to have been smaller than usual. The scarce pink	
Cuuru	Frozen concentrate pulp, 19°Brix, pink	1 100-1 250 cfr Rotterdam		harvests in Brazil and South Africa seem to be pushing prices upward.	
Pome- granate	Aseptic clarified concentrate, 65°Brix	2 700-2 900 fca Rotterdam	Turkey Iran	The abundance of volumes continues to drive prices downward. The harvest, which started in October in Iran and Turkey, should be normal.	

Note: cfr: cost and freight / fob: free on board / exw: ex-works / fca: free carrier / Source: MNS-ITC Geneva



EU	MANGO - INCOMING SHIPMENTS (estimates in tonnes)											
	Weeks 2014	40	41	42	43	44						
R O	Air-freight											
P E	Brazil	10	10	15	25	35						
	Sea-freight Sea-freight											
	Brazil	620 950		1 780	2 220	3 260						

MANGO - IMPORT PRICE ON THE FRENCH MARKET										
Weeks 2014		40	41	42 43		44	Average Oct. 2014	Average Oct. 2013		
			Ai	r-freight (e	euro/kg)					
Brazil	Kent	4.50-4.80	5.00	4.50-5.00	5.00	4.50-5.00	4.70-4.95	4.60-5.00		
Israel	Keitt	3.00-3.50	3.20-3.30	-	-	-	3.10-3.40	-		
Israel	Kent	3.00-3.30	-	-	-	-	3.00-3.30	-		
Egypt	Kent	4.00	-	-	-	-	4.00	-		
Sea-freight (euro/box)										
Brazil	Keitt	5.00-6.50	8.00-9.00	9.00-10.00	9.00-10.00	9.00-10.00	8.00-9.10	6.40-7.50		
Brazil	T. Atkins	-	-	9.00	9.00	9.00	9.00	4.10-5.20		
Israel	Keitt	5.00-6.00	-	-	-	-	5.00-6.00	6.50-7.50		
			Roa	d-freight (	euro/box)					
Spain	Osteen	6.00-7.00	6.50-8.00	7.00-9.00	9.00-10.00	-	7.10-8.50	6.90-10.10		
Spain	Irwin	18.00	18.00-20.00	14.00-20.00	-	-	16.65-19.30	-		
Spain	Kent	14.00-18.00	14.00-20.00	12.00-14.00	-	-	13.30-17.30	11.30-18.00		
Spain	Keitt	-	-	-	10.00-13.00	11.00-12.00	10.50-12.50	9.00-10.00		
Morocco	Osteen	6.00-7.00	6.00-7.00	6.00	-	-	6.00-6.65	-		

### Sea freight

### October 2014

Although the beginning of the month started as September had ended, by mid-October the charter market showed signs of life with surplus bananas appearing in Guatemala, Mexico and Colombia encouraging traders back into the market. Philippine banana production also appears to have recovered after Typhoon Pablo at the end of 2012, with both Del Monte and Sumifru fixing Spot cargoes for the first time in almost two years.

The decision to delay the start of the Moroccan citrus season by a month in order for fruit to 'colour up', meant there was no repeat to the supply/demand scenario witnessed in October 2013, which saw chartering activity generate the highest average TCE return since October 2006.

After a quiet start to the month, which saw demand for tonnage decrease as trawlers caught diminishing volumes of fish off Mauritania, the small segment recovered to equilibrium, led by a strong start to the N Cont potato season. After the first 10 months of 2014, the TCE average for Spot cargoes is on course to match, if not better, the record mid 80sc/cbft achieved last year.

Other than the step increase in demand, the other factor that has benefited both owners of larger and smaller units is the fall in the price of oil, which has resulted in a drop in bunker prices. At the end of the month the cost of 380 cSt was almost 20% lower than it had been 12 months previously. The fall in fuel price would also have benefited the banana majors and any other charterer who fixed on TC.

■ New management, new partner and new facilities at Galilee.

At the beginning of September, Dror Eigerman was appointed head of the Israeli cooperative, after the tragic disappearance of its previous Managing Director Oded Jacobson in spring. Mr. Eigerman was previously in charge of the fruits section at Mehadrin, the other big Israeli leader in citrus and avocado exports. He is taking over the management of a structure reinforced upstream and downstream. The recent partnership signed with Zemach should be able to boost the avocado export potential (23 000 t instead of 17 000 t) and mango export potential (3 000 t instead of 1 600 t), while the investment in two ripening chambers at Cavaillon (capacity at least 40 t/week) is an additional step in the group's strategy to develop in the "ready-to-eat" segment.

Source: Galilee





■ Fear for the mango? While Côte d'Ivoire has just beaten its mango export record in the 2014 season, with more than 20 000 tonnes, the phytosanitary vice is tightening on this West African source. The big rise in interceptions of mango batches in recent years (62 in 2014), due to fruit fly infestation of non-European fruit, could compromise this considerable quantitative surge. The European Commission's inspection services have alerted their Ivorian counterparts to this problem, expressly requesting them to implement an appropriate management programme as matter of urgency. This warning shot could potentially undermine the positive trend in Ivorian exports for the 2015 season (April/June), if no appropriate measures are taken. The absence of an effective response could lead even to a European Union embargo on Côte d'Ivoire mangoes. This already applies to India until the end of 2015, and could also be the case for Pakistan, currently under close monitoring.

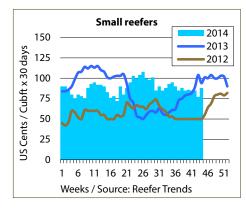
Source: Pierre Gerbaud

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	MONTHLY SPOT AVERAGE									
E U R	USD cents/cubic foot x 30 days	Large reefers	Small reefers							
O P E	October 2014	31	86							
	October 2013	46	88							
	October 2012	24	51							

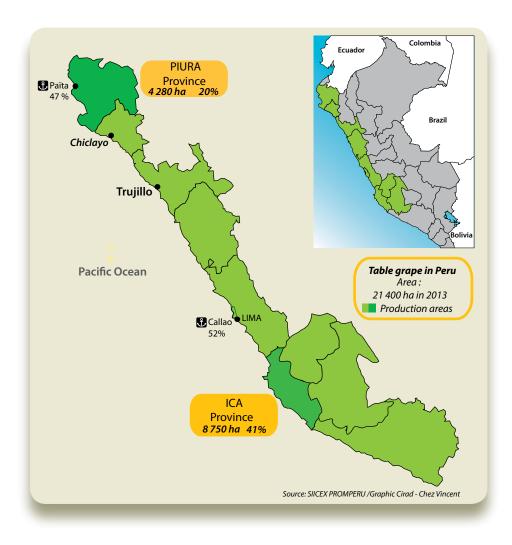
		Large reefers
\ s	125	2014
day	100	2013
US Cents / Cubft x 30 days	75	2012
cub	50	
Cents	25	M. A MACAN
US	0	
		1 6 11 16 21 26 31 36 41 46 51
		Weeks / Source: Reefer Trends





### **Peruvian** grape

### Showing potential



The European table grape market is rapidly easing, with a definitely early end to the local production seasons. Hence the prospects are set to be fairly bright for the early-season Southern Hemisphere sources, led in recent years by Peru, whose potential is growing.





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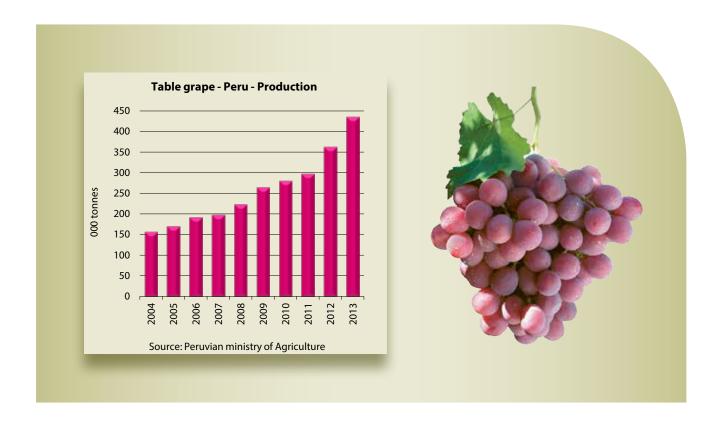












## Considerable expansion of surface areas in the north

Table grape cultivation in Peru is currently spread over a surface area of 21 400 ha, as opposed to 11 400 ha ten years ago. While production then extended along the Pacific coast, mainly around lca, since then it has been set up in a big way further north, around the Piura zone. Surface areas there are already reaching 4 280 ha, with a marked increase of 22 % in 2013, while growth in the south is slower (8 750 ha, i.e. + 1 %). Yields there are only 20 t/ha, whereas they reach 30 t/ha in the most northern zones, equipped with modern irrigation systems.

Planting still mainly involves Red Globe (80 % in certain zones), in particular to satisfy growing demand from the Asian markets. However, seedless

varieties can also be found, such as Crimson seedless, Flame seedless, Sugraone or Thompson seedless.

The harvest is reported to have reached 430 000 t last year (+ 20 % in 2013-14), and could rise again by 8 % this season (470 000 t).

16



Table grape — Peru — Harvest calendar by variety												
Export market shares	S	o	N	D	J	F	М	A	М	J	J	A
78 %												
7 %												
6 %												
4 %												
2 %												
	Export market shares  78 %  7 %  6 %  4 %	Export market shares S  78 %  7 %  6 %  4 %	Export market shares S O  78 %  7 %  6 %  4 %	Export market shares         S         O         N           78 %         Image: Control of the contr	Export market shares         S         O         N         D           78 %         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Export market shares         S         O         N         D         J           78 %	Export market shares         S         O         N         D         J         F           78 %         I	Export market shares         S         O         N         D         J         F         M           78 %         I	Export market shares         S         O         N         D         J         F         M         A           78 %	Export market shares         S         O         N         D         J         F         M         A         M           78 %         I	Export market shares         S         O         N         D         J         F         M         A         M         J           78 %         I	Export market shares         S         O         N         D         J         F         M         A         M         J         J           78 %         I





### Exports to more than 70 destinations on a constant rise

Volumes exported already exceeded the 170 000-t mark in 2013-14, with 70 000 t out of Piura and 100 000 t out of Ica. The objective is to reach a tonnage of 200 000 t, given that the Piura zone is reaching its prime, and should rapidly equal the export level of Ica. Operators are even hoping in the near future to exceed the export potential of South Africa, which is approaching 250 000 t.

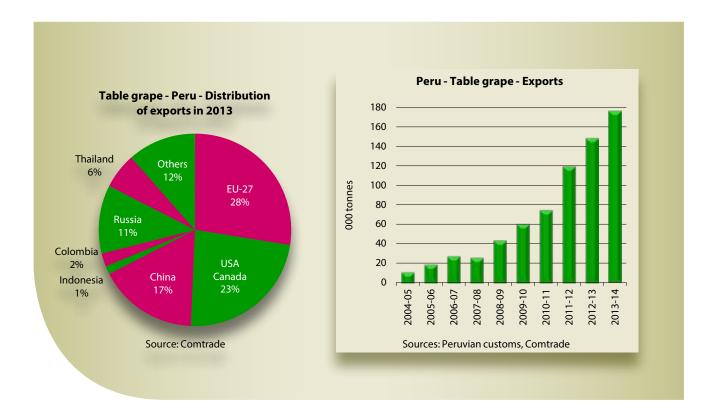
Peru's customer portfolio has been constantly widening. More than 70 destinations are now covered. And while Europe was hitherto still the

main destination for the Peruvian grape, with 48 000 t imported in 2013, China and other Oriental destinations such as Indonesia and Vietnam are starting to capture a big proportion of volumes (30 000 t for China in 2013). Shipments to North America are also rising every year (35 000 t to the United States and 5 000 t to Canada in 2013), to accompany the increasing production potential. The development of this export source should be considerable, particularly during the period from October to December, when the Piura zone is exporting, and less so at the beginning of the year when the Ica zone is active

Cécilia Céleyrette, consultant c.celeyrette@infofruit.fr



Source: SUNAT



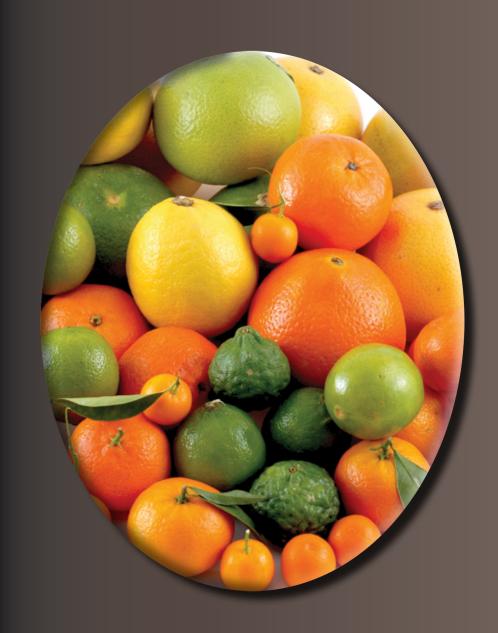
**No. 227** November 2014 17

### A report by **Eric Imbert**

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# Citrus





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# **Mediterranean citruses 2014-15 harvest forecasts**

Big production figures, but no record



The Mediterranean will undoubtedly remain the world's number two citrus production area in 2014-15. The harvest, set to register a small cyclical fall, should be slightly in excess of 23 million tonnes, of which just over 20.6 million tonnes from the **CLAM countries\*. A figure well** below the more than 30 million tonnes produced in China, where the growth dynamic nonetheless seems to be withering because of the increasingly significant effects of greening. The USDA has also announced for the first time in years a fall in cultivation surface areas in 2013-14, the consequence of eradication measures taken in major production provinces such as Jiangxi and Guangdong. On the other hand, the gap is tending to widen with Brazil and the United States, which follow in the ranking but are seeing their production stagnate, or even clearly shrink under the impact - once again of greening, more than ever the nemesis of world citrus growing.

<sup>\*</sup>Algeria, Cyprus, Egypt, Spain, France, Gaza, Greece, Israel, Italy, Morocco, Tunisia, Turkey



#### Citrus – CLAM countries production forecast 2014-15 comparison with 000 2014-15 2013-14 tonnes average of the 2013-14 4 last years Spain 6 862 7 171 -4% - 2 % Egypt 3 719 3 719 0 % +4% Italy 2 499 3 250 - 23 % - 21 % Turkey 3 349 3 200 +5% + 12 % 2 203 Morocco 1 907 - 13 % +5% Greece 1 059 1 180 - 10 % - 5 % 597 496 + 20 %

295

235

24

21 773

+4%

+ 13 %

+ 23 %

- 5 %

+ 17 %

+4%

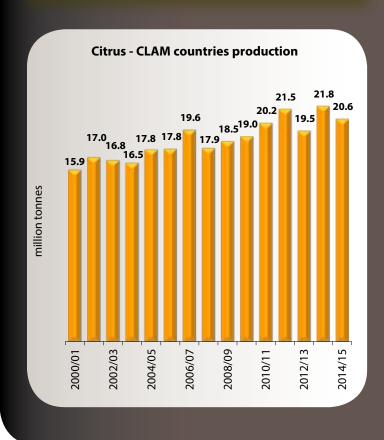
+ 13 %

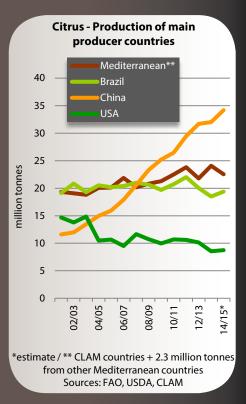
+ 18 %

-1%

### Mediterranean citrus growing

- Production approximately 22.8 million tonnes, of which 20.6 million tonnes is in CLAM countries
- 18 % of world production estimated at 121 million tonnes
- World number 2 production zone after China (23 million tonnes)





Israel

Tunisia

Cyprus

France

Total

308

265

30

20 595

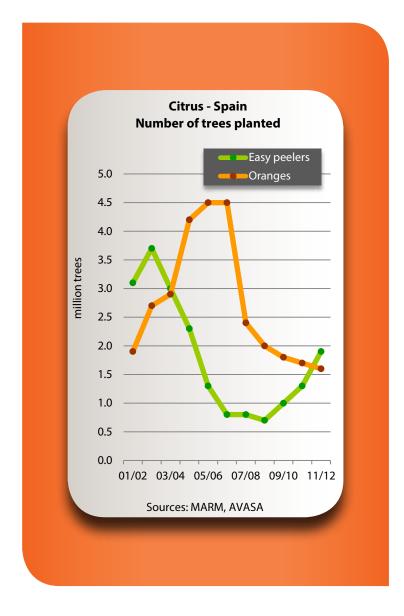


### **Spain**

# Another big season for a source near maturity

The region's main producer is again set for a big season. Estimated at approximately 6.5 million tonnes, the harvest is close to last season's, and is among the three or four biggest ever recorded. This level, which has seen no considerable changes for the past three or four seasons, also seems to confirm that the Spanish citrus growing industry is approaching maturity. According to the latest data available, sales of certified plants climbed slightly to 3.9 million plants in 2011-12, though they remained in the bottom bracket, and a very long way from the 6.5 to 7.0 million seen in 2006-07. Orange tree sales have continued to wane, with production set nonetheless to continue its upward trend for a few years

because of the extensive late Navel planting carried out until 2005-06. This lack of interest from producers for the orange reflects the chronic weakness in the profitability of this citrus family, as the poor results of last season showed again. The slight upturn by easy peelers remains very hesitant. The mid-season slot remains saturated. Uprooting of Fortuna, overly sensitive to alternaria, is partly offsetting Nadorcott planting, whose production potential is now approximately 150 000 t. Producers remain cautious with respect to Tango, given the very high licence price and the lack of clarity on the outcome of the dispute on the parentage of this variety. Finally, they still lack at least one convincing variety on the buoyant spring slot, with no triploids really standing out to date. Will solutions emerge? Hard to say, but in any case there has been a real varietal tidal wave breaking since 2013, with more than 150 varieties available for producers, i.e. nearly 100 more than in 2011 and more than three times more than in the early 2000s.









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### Morocco

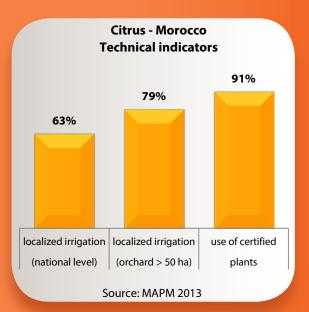
### The lessons of a difficult 2013-14 season

It is not the small cyclical downturn of 10 % in production which should be underlined, because of unfavourable weather in Souss. It is rather the size of the harvest, which will be nearly 2.0 million tonnes for the second time in its history. The effects of the "Maroc Vert" plan are clearly in place. 37 000 ha have been planted since 2007-08, i.e. more than 5 000 ha per year on average! The easy peelers cultivation area has literally exploded, growing by approximately 27 000 ha, due to large-scale planting of clementines (the traditional Fine, but also earlier cultivars such as Nules or Sidi Aïssa, or later cultivars such as Nour) and Afourer (cultivation area currently 5 000 ha, i.e. an export potential of approximately 160 000 t). In parallel, yields have risen considerably, thanks to the spread of use of certified plants, and to better equipped orchards. Localised irrigation was set up over 61 000 ha in 2012-13, as opposed to 40 000 ha before the start of the plan in 2006-07. The equipment rate is even approaching 80 % in plantations of more than 50 ha.

The Moroccan industry was also quick to draw the lessons of a 2013-14 season which was a record in terms of volume, though so catastrophic in terms of price that certain producers are now close to bankruptcy, with ASPAM needing to intervene for Crédit Agricole to agree to ease the lending conditions. A new structure, the Citrus Coordination Committee, has been set up to ensure "a quality turnaround" and export regulation. This body holds genuine inspection power, upheld by EACCE, which manages it and monitors it, along with the producers (ASPAM) and packers. Quality standards have been established (minimum juice content 40 %, minimum Brix 10°, minimum maturity index 8 and degreening limited to 5 days), and the export calendar has been put back in step with the physiological state of the fruits, by setting the official start date of the season as 13 October instead of 13 September. Furthermore, a market monitoring and weekly volume scheduling system has been set up.

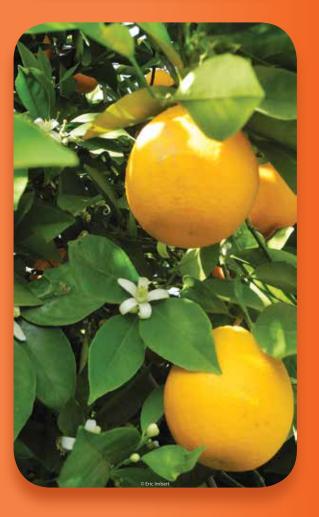






Easy peelers – Morocco Evolution of cultivation area									
hectares	2006	2013							
Total	34 140	60 457							
Clementines	30 287	53 475							
Fine	17 381	30 961							
Nules	3 403	8 372							
Nour	5 678	7 596							
Sidi Aissa	3 021	5 197							
Marisol	803	1 349							
Others	3 853	6 982							
Nadorcott	722	4 641							
Nova	652	730							
Ortanique	569	513							
Others	1 910	1 098							

Source: MAPM 2013									
Orange – Morocco Evolution of cultivation area									
hectares	2006	2013							
Total	41 729	52 694							
Navel	16 025	19 777							
Maroc Late	21 480	23 922							
Blood	2 506	3 250							
Salustiana	1 226	1 089							
Others	492	4 656							



Source: MAPM 2013



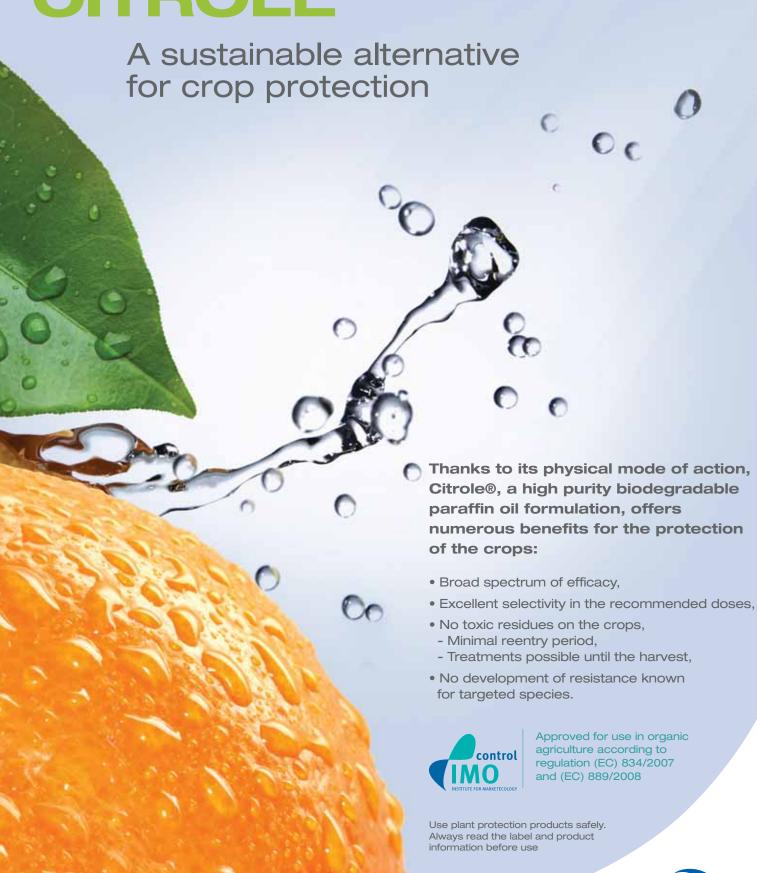
### **Turkey**

### From record to record

Turkey keeps on stringing the records together. For the first time in its history, production should exceed 3.3 million tonnes in 2014-15. In the space of ten years, the harvest has increased by more than one million tonnes, enabling Turkey to hoist itself up to 3<sup>rd</sup> place in the ranking of the biggest Mediterranean producer countries, behind Spain and Egypt. Today, the growth is primarily due to the very rapid expansion of the easy peelers cultivation area, the varietal group now representing one third of the total harvest, as opposed to 20 % at the end of the last decade. And this expansion has not yet finished: cultivars mainly intended for East European markets, such as Okitsus or Satsumas (Mia Wase or later cultivars such as Bela and Dobashi Beni) are continuing to see considerable growth. However, other varieties aimed at establishing a broader footing on the Community market are also expanding (W. Murcott and Tango, with 500 ha already planted). The Citrus Promotion Group is investing in a strategic avenue, through three programmes with local research centres (Alata, Batem and Çukurova University). This approach, which is aimed above all at restoring added value, is all the more important since the developments on the Russian market are increasingly pressurising Russian exporters. With the Russian giants disappearing from the fruit import scene, the big supermarkets are increasingly sourcing directly, stipulating increasingly tough commercial conditions, the forerunners of a trend very familiar in Europe around thirty years ago. The historical weakness of the rouble and the tragic crisis spreading across Irag, which had become a big market for Turkey in recent years, are doing nothing to help.



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### Italy

# Toward large-scale restructuring?

"From Charybde to Scylla" is a local saying which could best sum up the current situation of Italian citrus growing. After the umpteenth calamitous season in terms of prices, 2014-15 production should register a major fall of more than 20 % from the previous season, and reach its lowest level since the late 1990s! This situation is not due solely to the cyclical climatic problems encountered in 2014. The structural lack of competitiveness of Italian citrus growing remains evident, as is illustrated by its trade balance, more negative every season for citruses, despite the scale of its production (third in the Mediterranean by volume). Production structure remains highly fragmented, although undeniable progress has been made.

According to a 2010 survey, farms of less than 3 ha still represented more than one quarter of total surface areas. Yet above all, the spread of severe strains of tristeza is ravaging in particular the east of Sicily, on the great plain of Catania renowned for its blood oranges. While the situation at present seems increasingly gloomy, there is nonetheless some light at the end of the tunnel. The fight against the disease is being organised, and a highly ambitious conversion plan has begun to be set up. The objective is to apply a new turn in strategy, by replanting 30 000 ha of more competitive varieties on rootstocks tolerant to the disease (Tarocco clones that have been improved or able to extend the season, easy peelers developed locally, etc.). An initial allowance of 10 million euros has been granted, enabling approximately 1 000 ha to be treated. 50 million euros per year of Community funds should follow until 2020, with this project among the priorities of the 2014-2020 ERDF submitted by Sicily to the EU.





### Other Mediterranean producers

The harvest should return to normal in Israel, after two seasons marked by major climate problems. The in-depth reconstruction of the cultivation stock in recent years is apparent in the forecast, with in particular strong growth expected from volumes of Or and a very significant parallel fall in grapefruit volumes (see article). Production is also set for a good level in Cyprus, but below average in Greece.

### A difficult context

The market context does not seem particularly favourable. Firstly, the apple could end up strongly competing with the other staples of the fruits section on European markets, such as the banana or citruses. The production is set to be large, and even very large in Northern and Eastern Europe. Furthermore, the loss of the Russian market could lead to a transfer of considerable volumes onto the Community market, particularly of Polish fruits. Finally, the "entry level" supplies of small-size apples could be more abundant, as the industrial apple market where these fruits are offloaded is saturated this season. Furthermore, while the direct impact of the Russian embargo on Community citruses seem rather moderate overall (see article), what will be the impact of the collapse of the rouble? Might volumes earmarked for this market not be transferred onto the Community market, for want of takers? Prices of imported food labels are soaring, with the Russian currency having lost 30 % against the dollar in one year

Eric Imbert, CIRAD eric.imbert@cirad.fr



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			C	itrus – N	lediterra	nean Ba	nsin – 20	13-2014	4 produ	ction				
	000 tonnes	Total	France	Spain	Morocco	Algeria	Tunisia	Italy	Israel	Cyprus	Greece	Turkey	Egypt	Gaza*
	Production	6 311.4	24.3	2 204.3	1 162.3	111.0	46.5	760.0	138.9	81.1	148.0	910.0	725.0	-
ERS	Domestic sales	2 662.7	-	299.0	667.0	111.0	46.5	521.0	37.0	15.9	44.7	300.0	620.6	-
EASY PEELERS	Industry	432.4	-	215.0	16.0	-	-	77.0	24.0	22.9	1.5	70.1	5.8	-
EAS	Losses	363.0	2.0	172.9	-	-	-	96.0	-	-	19.0	-	73.1	-
	Export	2 853.6	22.3	1 517.4	480.0	-	-	65.6	77.9	42.2	82.9	539.9	25.4	-
	Production	12 638.0	-	3 914.2	999.9	415.0	190.1	1 935.0	68.9	92.4	970.0	1 380.0	2 613.2	59.4
ш	Domestic sales	6 645.5	-	1 099.0	849.8	415.0	171.2	1 424.1	46.0	52.5	429.3	900.4	1 250.2	8.1
ORANGE	Industry	1 798.6	-	1 104.0	52.0	-	-	320.0	16.0	20.3	135.0	118.2	18.8	14.3
	Losses	531.0	-	150.0	-	-	-	92.0	-	-	47.0	7.0	235.0	-
	Export	3 662.9	-	1 561.2	98.1	-	18.9	98.9	6.9	19.5	358.7	354.4	1 109.2	37.0
	Production	2 906.8	-	1 057.0	41.3	41.4	58.3	545.0	64.3	16.6	55.5	700.0	323.0	4.4
_	Domestic sales	1 301.7	-	161.0	37.2	41.4	56.1	407.6	58.0	7.6	46.0	228.8	256.2	1.8
Lemon	Industry	386.3	-	240.0	-	-	-	85.0	3.0	3.9	0.5	50.4	2.6	0.9
	Losses	76.9	-	21.4	-	-	-	22.0	-	-	1.5	-	32.0	-
	Export	1 141.9	-	634.6	4.1	-	2.2	30.4	3.3	5.1	7.5	420.8	32.2	1.7
	Production	616.8	•	58.7	-	1.0	-	10.0	223.6	44.9	6.0	210.0	58.2	4.5
5	Domestic sales	80.7	-	4.0	-	1.0	-	8.0	13.0	3.5	2.6	11.4	36.4	0.9
GRAPEFRUIT	Industry	181.1	-	7.2	-	-	-	-	134.0	18.2	0.8	16.8	0.5	3.6
Ğ	Losses	6.7	-	0.2	-	-	-	-	-	-	0.5	-	6.0	-
	Export	348.4	-	47.3	-	-	-	2.0	76.6	23.2	2.2	181.8	15.3	-
	Production	112.8	-	13.2	-	-	59.5	30.0	9.8	-	-	-	0.3	-
S	Domestic sales	80.3	-	12.0	-	-	59.3	2.0	7.0	-	-	-	-	-
<b>O</b> THERS	Industry	28.0	-	-	-	-	-	28.0	-	-	-	-	-	-
	Losses	1.2	-	1.2	-	-	-	-	-	-	-	-	-	-
	Export	3.3	-	-	-	-	0.2	-	2.8	-	-	-	0.3	-
	Production	22 585.8	24.3	7 247.4	2 203.5	568.4	354.4	3 280.0	505.5	235.0	1 179.5	3 200.0	3 719.6	68.3
	Domestic sales	10 770.9	-	1 575.0	1 554.0	568.4	333.0	2 362.7	161.0	79.5	522.5	1 440.6	2 163.4	10.8
TOTAL	Industry	2 826.4	-	1 566.2	68.0	-	-	510.0	177.0	65.4	137.8	255.5	27.7	18.8
	Losses	978.8	2.0	345.7	-	-	-	210.0	-	-	68.0	7.0	346.1	-
	Export	8 011.6	22.3	3 760.5	583.8	-	21.4	196.9	167.5	90.1	451.2	1 496.9	1 182.4	38.7

<sup>\*</sup> estimate / Source: CLAM



			Citrus	- Medi	terranea	n Basin -	- 2014-2	015 pro	duction	n foreca	st			
	000 tonnes	Total	France	Spain	Morocco	Algeria	Tunisia	Italy	Israel	Cyprus	Greece	Turkey	Egypt	Gaza*
	Production	6 037.5	30.0	1 897.3	1 004.0	111.0	46.5	672.0	223.0	88.6	148.0	1 092.1	725.0	
ERS	Domestic sales	2 714.8	-	290.0	605.0	111.0	46.5	476.0	97.5	17.2	50.0	401.0	620.6	-
EASY PEELERS	Industry	433	-	200.0	30.0	-	-	75.0	25.5	25.1	1.5	70.1	5.8	-
<b>E</b> AS)	Losses	178.5	3.0	7.3	-	-	-	63.0	-	19.6	12.5	-	73.1	-
	Export	2 710.9	27.0	1 400.0	369.0	-	0.03	58.0	100.0	26.7	84.0	620.8	25.4	-
	Production	11 242.5	-	3 336.5	868.0	415.0	190.1	1 344.0	122.5	106.8	850.0	1 337.0	2 613.2	59.4
	Domestic sales	5 658.1	-	962.0	681.0	415.0	171.2	855.0	78.0	60.7	330.0	846.9	1 250.2	8.1
ORANGE	Industry	1 434.3	-	704.0	40.0	-	-	320.0	25.5	23.5	170.0	118.2	18.8	14.3
0	Losses	401	-	93.5	-	-	-	52.0	-	0.5	20.0	-	235.0	-
	Export	3 749.1	-	1 577.0	147.0	-	18.9	117.0	19.0	22.1	330.0	371.9	1 109.2	37.0
	Production	2 766.6	-	955.6	29.0	41.4	58.3	475.0	66.0	23.9	55.0	735.0	323.0	4.4
	Domestic sales	1 221.5	-	160.0	22.0	41.4	56.1	300.0	59.8	10.9	46.0	267.3	256.2	1.8
LEMON	Industry	367.2	-	220.0	-	-	-	85.0	2.2	5.6	0.5	50.4	2.6	0.9
	Losses	79.1	-	5.6	-	-	-	40.0	-	-	1.5	-	32.0	-
	Export	1 098.7	-	570.0	7.0	-	2.2	50.0	4.0	7.3	7.0	417.3	32.2	1.7
	Production	575.9	-	75.9	6.0	1.0	-	8.0	185.0	46.0	6.0	185.3	58.2	4.5
5	Domestic sales	72	-	6.0	2.0	1.0	-	4.0	10.0	3.5	3.0	5.2	36.4	0.9
GRAPEFRUIT	Industry	147.1	-	9.0	-	-	-	-	98.0	18.7	0.5	16.8	0.5	3.6
F	Losses	13.4	-	6.9	-	-	-	-	-	-	0.5	-	6.0	-
	Export	343.4	-	54.0	4.0	-	-	4.0	77.0	23.8	2.0	163.3	15.3	-
	Production	74	-	2.7	-	-	59.5	4.0	7.5	-	-	-	0.3	-
S	Domestic sales	65.8	-	2.0	-	-	59.3	-	4.5	-	-	-	-	-
<b>O</b> THERS	Industry	4.5	-	-	-	-	-	4.0	0.5	-	-	-	-	-
	Losses	0.7	-	0.7	-	-	-	-	-	-	-	-	-	-
	Export	3	-	-	-	-	0.2	-	2.5	-	-	-	0.3	-
	Production	20 696.3	30.0	6 268.0	1 907.0	568.4	354.4	2 503.0	604.0	265.2	1 059.0	3 349.4	3 719.6	68.3
	Domestic sales	9 732.1	-	1 420.0	1 310.0	568.4	333.0	1 635.0	249.8	92.3	429.0	1 520.4	2 163.4	10.8
TOTAL	Industry	2 386.1	-	1 133.0	70.0	-	-	484.0	151.7	72.9	172.5	255.5	27.7	18.8
	Losses	672.7	3.0	114.0	-	-	-	155.0	-	20.1	34.5	-	346.1	-
	Export	7 905.1	27.0	3 601.0	527.0	-	21.4	229.0	202.5	79.9	423.0	1 573.2	1 182.4	38.7

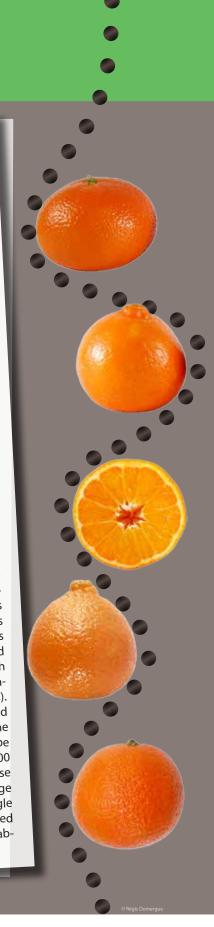
<sup>\*</sup> estimate / Source: CLAM



# **Easy peelers**

2014-15 is again set for a big season, symptomatic of the strong growth dynamic of this varietal group in the Mediterranean. For the second time in its history, production will exceed the symbolic 6 million-tonne mark, approaching the record set last season. However, the harvest of the regional champion, Spain, which on its own accounts for approximately one third of the total volumes produced in the region, is set to be somewhat smaller than last season and below average. A shortfall due to smaller production of early cultivars (clementines such as Clemenrubi or Oronules, and above all Satsuma), but also Clemenvilla, a variety representing a considerable proportion of the supply during the core season. Conversely, volumes of clementines like Nules will be as large as in 2013-14. Volumes of late varieties will continue to increase slightly, in particular thanks to a bigger season for Ortanique and above all Nadorcott. Moroccan production will also drop, though this is from a historic 2013-14 season when the effects of the "Maroc Vert" plan showed through for the first time. The expected rise in volumes in the Berkane region will not manage to compensate for the considerable fall from the Souss region. Nonetheless, with quantities estimated at approximately 1 million tonnes, the harvest for this source remains the second biggest ever recorded. A considerable shortfall is also expected in Italy, even further reducing its already extremely limited export capacity. While the West Mediterranean sources are exhibiting a downturn, the same cannot be said for the Eastern sources. The Israeli harvest will reach a historic level, with easy peelers for the first time becoming the country's number one citrus family, ahead of the grapefruit. The growth of Or production potential, concealed for the past two seasons by major climatic problems, should become tangible. A record harvest is also expected in Turkey, set to exceed the symbolic one million-tonne mark. The supply this season will remain largely dominated by early cultivars such as Satsuma, with the big surface areas of late cultivars planted in recent years not yet having entered production. The Cypriot Mandora harvest will return to average.

The very first part of the season went rather well on the West European markets. The abnormally high temperatures weighed down on demand, though the volumes available were extremely modest because of the Spanish shortfall. The situation gradually deteriorated from mid-October, with the switch to cultivars representing bigger volumes, such as Oronules. The blame this season once again lies with the still abnormally high temperatures, which had a negative impact on sales on the consumption markets, and on external quality in the production zones. This unfavourable climatic context, which remained in place in mid-November, could impede the always very sensitive core season period, when big volumes of Spanish Nules are still to be sold. The production shortfall of Clemenvilla may help counterbalance the delay to market already existing (evaluated at around ten days). Morocco's desire to limit shipments to Russia (130 000 t scheduled as opposed to figures of 200 000 t in 2013-14) could lead to more significant volumes of Fine clementine to the EU. For Spain, the absence of its Russian outlet should also be considered in this period, although modest quantities overall are involved (25 000 to 40 000 t, depending on the season). The supply level will be clearly on the rise during the last part of the season, in particular for top-of-the-range cultivars (large potential for Spanish Nadorcott, and most of all Israeli Or). Ortaniques may struggle to find their place on the market in this context, especially since Cyprus will need to reposition a large proportion of its supply on the Community market, in the absence of its Russian outlet (40 000 to 50 000 t).





### Still plenty from the West... and loads from the East

### Mediterranean Easy peelers

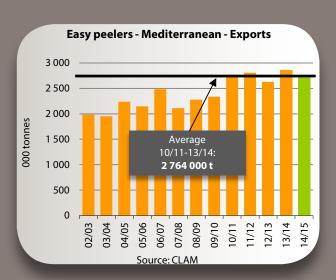
- Growing exports between 2.6 and 2.8 million tonnes
- 63 % of world trade estimated at 4.1 million tonnes
- The world's leading export zone

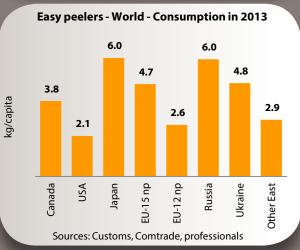
Easy peelers – Export forecast by CLAM countries										
000 tonnes	2014-15	2013-14	average of the 4	2014-15 comparison with						
			last years	2013-14	average					
Spain	1 400	1 517	1 575	-8%	- 11 %					
Morocco	369	480	370	- 23 %	0 %					
Corsica	26	22	21	+ 17 %	+ 21 %					
Israel	99	78	74	+ 26 %	+ 33 %					
Turkey	551	540	469	+ 2 %	+ 17 %					
Italy	78	66	91	+ 20 %	- 14 %					
Cyprus	59	42	56	+ 40 %	+ 5 %					
Greece	100	83	79	+ 21 %	+ 27 %					
Egypt	25	25	28	- 2 %	- 12 %					
Total	2 707	2 854	2 764	- 5 %	- 2 %					

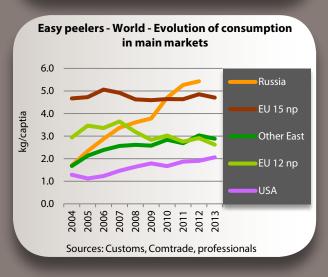
Source: CLAM

Easy peelers – World – Consumption										
	2013	Evolut	ion (g)							
	(kg)	2013/2012	2013/2009							
Canada	3.8	+ 3	+ 138							
United States	2.1	+ 151	+ 266							
Japan	6.0	+ 384	- 749							
EU-15 np	4.7	- 152	+ 110							
EU-12 np	2.6	- 292	- 210							
Russia	6.0	+ 536	+ 2 184							
Ukraine	4.8	+ 887	+ 1 775							
Other Eastern countries	Other Eastern countries 2.9 - 147 + 306									

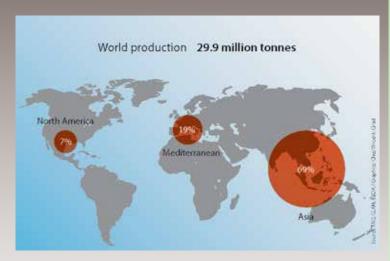
np: non producer countries / Sources: Customs, COMTRADE, professionals







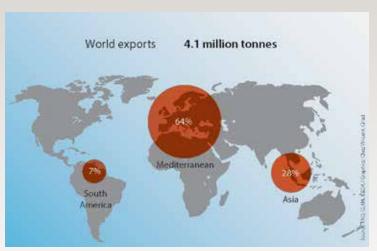
### **EASY PEELERS - Production (2012-13)**



Easy peelers - The 10 leading producer countries					
000 tonnes	2012-2013				
China	17 000				
Spain	2 174				
Brazil	960				
Japan	900				
Iran	825				
Italy	792				
Egypt	725				
South Korea	692				
Morocco	662				
Turkey	543				

Sources: FAO, professionals

### **EASY PEELERS - Exports (2012-13)**



Easy peelers - The 10 leading exporter countries				
000 tonnes	2012-2013			
Spain	1 541			
China	733			
Turkey	411			
Pakistan	358			
Morocco	307			
South Africa	127			
Greece	91			
Italy	85			
Peru	85			
Argentina	80			

Sources: national Customs, professionals

### **EASY PEELERS - Imports (2012-13)**



Easy peelers - The 10 leading importer countries				
000 tonnes	2012-2013			
Russia	838			
Germany	768			
France	704			
United Kingdom	541			
Netherlands	373			
Poland	343			
Ukraine	216			
Italy	186			
United Kingdom	150			
Canada	130			

Source: National Customs

USA - Imports - Main supplier countries						
000 tonnes	2008-09	2009-10	2010-11	2011-12	2012-13	
Total	117.6	117.3	152.2	146.5	150.1	
Total N. Hemis., incl.	83.1	67.5	86.3	66.9	65.3	
Spain	55.5	44.9	60.8	47.5	47.6	
Morocco	18.6	15.1	20.9	16.2	11.5	
Mexico	7.7	5.8	3.5	1.1	3.9	
Israel	1.2	1.7	1.1	2.0	2.3	
Total S. Hemis., incl.	49.8	61.5	65.9	79.6	84.8	
Chile	27.3	35.5	43.3	53.5	60.2	
Peru	10.6	14.6	14.3	17.2	19.6	
South Africa	6.0	7.8	4.5	7.0	3.4	
Australia	4.3	3.1	2.2	1.9	1.6	
Local production (tangerine, tangelo)	577	601	643	711	716	
California	337	359	385	472	526	
Florida	229	229	247	232	182	
Arizona	12	13	11	7	7	

Source: US Customs, code 080520

Canada - Imports - Main supplier countries							
000 tonnes	2009	2010	2011	2012	2013		
Total	124.1	123.9	123.9	129.9	129.7		
Total N. Hemis., incl.	106.5	105.9	103.2	104.5	104.9		
Morocco	50.3	45.4	38.6	37.3	33.8		
China	32.0	29.7	28.5	28.7	33.4		
USA	17.8	22.4	22.4	17.0	20.2		
Spain	2.3	3.8	7.6	11.7	7.5		
Japan	2.1	1.7	2.2	2.0	2.3		
Total S. Hemis., incl.	17.0	18.0	20.7	25.4	24.8		
Peru	4.4	6.5	8.9	11.1	10.5		
South Africa	4.5	3.2	4.5	6.0	6.2		
Argentina	2.6	3.1	3.0	3.5	3.0		
Chile	2.4	2.7	2.3	2.5	2.3		
Uruguay	1.6	1.1	1.6	1.4	1.9		
Brazil	1.3	1.4	0.4	0.9	0.3		

Source: COMTRADE, code 080520

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European Union - Imports - Main supplier countries						
000 tonnes	2008-09	2009-10	2010-11	2011-12	2012-13	
Total	1 708.7	1 697.8	1 750.0	1 787.6	1 710.7	
Total N. Hemis., incl.*	1 532.8	1 522.7	1 592.2	1 623.5	1 551.4	
Spain	1 262.3	1 157.6	1 295.7	1 317.7	1 279.8	
Italy	47.3	91.7	75.1	89.5	75.1	
Morocco	79.9	114.2	90.5	80.6	64.0	
Israel	24.8	36.3	29.0	42.7	40.8	
Greece	14.4	31.5	36.1	31.6	39.9	
Turkey	80.9	64.3	50.3	45.4	36.7	
Cyprus	11.5	13.6	8.1	6.4	7.0	
Portugal	4.4	4.1	2.8	5.8	5.6	
Pakistan	4.3	5.1	3.3	2.6	2.2	
Egypt	1.5	2.3	1.1	1.2	0.3	
Total S. Hemis., incl.	175.2	177.4	157.9	164.1	159.3	
South Africa	65.3	65.1	57.8	70.0	80.9	
Peru	23.4	33.2	41.9	48.5	44.1	
Argentina	47.0	39.8	32.1	24.0	15.8	
Uruguay	33.9	37.2	24.2	19.4	15.4	
Australia	2.2	0.5	0.2	0.5	1.9	

\*Extra-EU imports and imports from EU producer countries (Spain, Italy, Greece) / Source: EUROSTAT, code 080520

Other West European countries - Main markets							
000 tonnes	000 tonnes 2008-09 2009-10 2010-11 2011-12 2012-13						
Total 1 708.7 1 697.8 1 750.0 1 787.6 1 71							
Switzerland	1 262.3	1 157.6	1 295.7	1 317.7	1 279.8		
Norway	47.3	91.7	75.1	89.5	75.1		
Iceland 79.9 114.2 90.5 80.6 64.							

Source: COMTRADE, code 080520

Russia	a - Imports -	· Main supp	lier countri	<u>es</u>	
000 tonnes	2009	2010	2011	2012	2013
Total	533.4	660.4	739.5	762.8	838.1
Total N. Hemis, incl.	469.0	590.8	668.7	696.1	768.3
Morocco	132.5	167.7	198.7	191.8	222.2
Turkey	134.6	162.7	186.9	158.8	200.6
China	79.0	66.7	66.0	87.1	86.9
Pakistan	43.5	82.9	77.1	91.3	80.3
Georgia	10.9	-	-	29.2	49.2
Spain	19.9	27.5	57.7	59.7	47.7
Israel	23.7	22.7	21.5	19.9	22.7
Cyprus	6.2	9.4	16.6	15.8	18.6
Greece	2.3	3.4	7.4	12.7	12.4
Iran	0.8	0.4	0.5	3.5	5.2
Total S. Hemis, incl.	62.2	69.6	70.8	66.7	69.8
Argentina	40.6	46.5	48.1	42.0	44.0
South Africa	11.1	14.1	13.2	13.0	14.1
Uruguay	3.2	5.8	5.6	7.0	8.0
Peru	1.0	3.2	3.9	4.7	3.7

Source: COMTRADE, code 080520

Ukraine - Imports - Main supplying countries							
000 tonnes	2009	2010	2011	2012	2013		
Total, incl.	136.2	157.6	181.8	175.7	215.7		
Spain	14.5	16.3	34.1	35.2	343.9		
Turkey	54.9	75.3	85.5	70.0	114.6		
Georgia	37.8	28.7	10.8	13.4	21.4		
Pakistan	8.4	11.0	20.9	25.4	13.8		
Italy	8.5	10.7	16.9	16.8	12.4		
Greece	2.9	5.6	5.6	5.8	6.0		
Israel	2.4	1.8	-	2.5	3.6		
Egypt	1.7	1.7	1.7	1.9	3.5		

Source: COMTRADE, code 080520

Other Central and East European countries - Main markets								
000 tonnes	2009	2010	2011	2012	2013			
Total, incl.	94.2	103.7	98.0	110.5	105.1			
Belarus	27.9	29.4	32.5	38.9	42.9			
Serbia	22.1	27.3	23.0	24.4	21.1			
Bosnia	16.5	18.7	16.2	17.3	13.8			
Moldova	6.9	6.6	7.6	8.2	9.3			
Macedonia	7.4	7.5	6.5	7.5	8.1			
Albania	9.9	10.4	7.7	8.4	5.7			
Croatia	3.3	3.8	4.7	5.8	4.3			

Source: COMTRADE, code 080520

Japar	Japan - Imports - Main supplier countries							
000 tonnes	2009	2010	2011	2012	2013			
Total	9.0	10.9	21.3	20.3	15.6			
Total N. Hemis, incl.	7.2	9.3	17.7	16.7	12.4			
USA	7.1	9.2	17.6	16.6	12.4			
Israel	-	-	-	-	1.3			
Taiwan	0.1	0.1	0.1	0.1	0.1			
Total S. Hemis, incl.	1.8	1.6	3.6	3.6	3.2			
Australia	1.2	1.0	2.3	2.1	2.5			
New Zealand	0.5	0.3	0.9	1.0	0.6			
Chile	0.2	0.3	0.5	0.3	0.1			

Source: Japanese Customs, code 080520

South-East Asia - Main markets								
000 tonnes	2009	2010	2011	2012	2013			
Total	433.8	391.0	462.2	534.6	414.9			
Thailand	38.7	30.8	73.8	144.8	142.6			
Indonesia	189.0	160.3	182.3	179.4	76.0			
Philippines	56.6	41.8	46.7	72.6	57.6			
Malaysia	65.9	75.3	72.8	59.3	44.6			
China	36.5	31.2	36.1	29.5	41.9			
Singapore	16.8	19.5	19.8	17.5	21.7			
Vietnam	25.8	21.2	20.1	21.0	21.0			
Sri Lanka	4.5	10.9	10.5	10.6	9.5			

Source: COMTRADE, code 080520

Central Asia - Main markets							
000 tonnes 2009 2010 2011 2012							
Total	49.3	52.2	79.0	80.7	102.2		
Kazakhstan	28.8	40.0	51.6	65.9	84.2		
Kyrgyzstan	8.1	7.0	7.3	10.2	11.3		
Armenia	3.0	2.6	10.1	3.7	4.8		
Azerbaijan	9.5	2.6	10.1	0.9	1.9		

Source: COMTRADE, code 080520

	Persian Gulf - Main markets							
000 tonnes	2009	2010	2011	2012	2013			
Total	161.9	255.7	326.8	286.9	333.1			
Iraq	55.0	72.0	105.0	134.9	158.8			
United Arab Emirates	17.2	17.3	50.0	50.0	85.0			
Saudi Arabia	20.4	57.5	59.3	58.6	55.7			
Kuwait	14.1	15.0	15.0	10.6	15.1			
Qatar	3.5	4.9	5.0	9.1	6.1			
Oman	11.5	11.2	23.0	7.6	4.6			
Bahrain	3.7	3.7	3.9	4.0	4.5			
Iran	36.5	74.2	65.6	12.1	3.3			

Source: COMTRADE, code 080520



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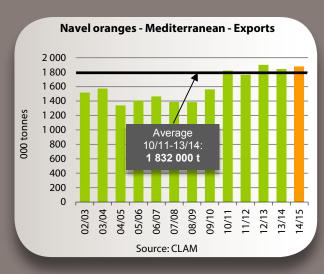
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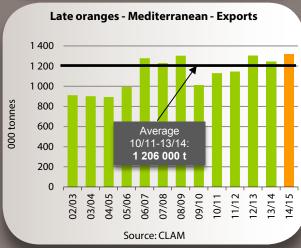


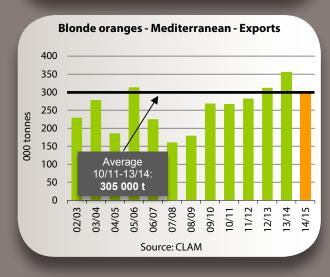
## Orange

There will be a considerable production fall, though this is from a record 2013-14 season when Mediterranean volumes exceeded 12 million tonnes for the first time. A trend largely attributable to the region's number one Spain, whose harvest will stick very closely to the trend described above: production will remain big despite a lower level than last year's historic season of more than 7 million tonnes. The export potential should be greater still, even more than last season's, and the second biggest ever seen. Sorting rejects and industrial use should not reach the historic levels of 2013-14, with the size range set to be considerably higher, while the occurrence of quality problems of creasing or splitting of the epidermis ("clareta" or "rajado") should be less than last season. Hence the supply to the West European markets, three-quarters of which is provided by Spain, promises to be abundant throughout the season. Volumes, which had proven somewhat below average during the period from January to April because of the problems mentioned above, should return to a much higher level.

What about the volumes from the top-up sources? Egypt, the number two supplier to the EU in recent years during the winter season, with a market share of approximately 8 %, seems to have an average production. Conversely, a fall in exports is possible since the main asset of this source, namely its price competitiveness, could be less pronounced because of a very considerable increase in logistical costs (approximately 850 USD per tonne more, according to the Agricultural Export Council). The Italian harvest is registering a spectacular downturn of more than 30 %, plummeting to a level never recorded. Nonetheless, exporters hope to be able to maintain the export flow, limited in view of the production, to a normal level. Morocco, less and less involved in exports of this citrus family, because of an increasingly demanding and lucrative local market (less than 100 000 t of exports to all destinations in 2012-13 and 2013-14), should have a smaller production than last year.



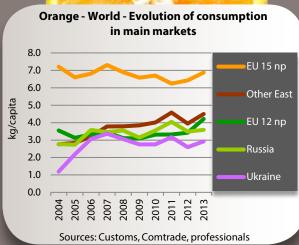


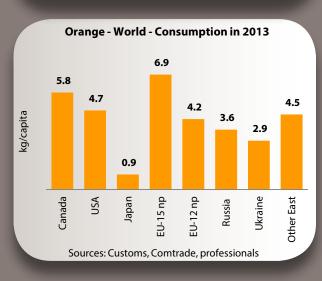




## Export potential similar to last season, but quality and size range on the rise







#### Mediterranean orange

- Growing exports between 3.3 and 3.7 million tonnes
- 59 % of world trade estimated at 6.2 million tonnes
- The world's leading export zone

Ora	Orange – Export forecast by CLAM countries						
000 tonnes	2014-15	2013-14	average of the 4	compari	4-15 son with		
			last years	2013-14	average		
Spain	1 576	1 560	1 602	+1%	- 2 %		
Morocco	147	98	122	+ 50 %	+ 20 %		
Israel	19	7	10	+ 175 %	+ 92 %		
Tunisia	19	18	20	+4%	- 4 %		
Turkey	372	354	318	+ 5 %	+ 17 %		
Italy	117	99	106	+ 18 %	+ 10 %		
Cyprus	22	20	24	+ 13 %	- 7 %		
Greece	330	359	348	-8%	- 5 %		
Egypt	1 063	1063	937	0 %	+ 13 %		
Total	3 665	3 578	3 486	+2%	+5%		

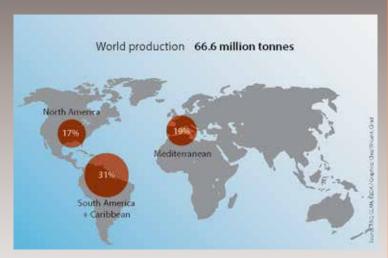
Source: CLAM

Orange – Export forecast by variety							
000 tonnes	2014-15 2013-14		average 2013-14 of the 4		4-15 ison with		
tonnes			last years	2013-14	average		
Navel Navelina	1 877	1 839	1 832	+ 2 %	+ 2 %		
Blonde	302	356	305	- 15 %	- 1 %		
Blood	173	144	149	+ 20 %	+ 16 %		
Late	1 319	1 243	1 206	+6%	+9%		
Total	3 665	3 578	3 486	+ 2 %	+ 5 %		
6 61 444							

Orange – World – Consumption							
	2013 Evolution (g)						
	(kg)	2013/2012	2013/2009				
Canada	5.8	+ 74	+ 274				
United States	4.7	- 114	+ 691				
Japan	0.9	- 153	+ 132				
EU-15 np	6.9	+ 454	+ 301				
EU-12 np	4.2	+ 790	+ 1 121				
Russia	3.6	+ 107	+ 442				
Ukraine	2.9	+ 331	+ 176				
Other Eastern countries	4.5	+ 546	+ 649				
nn: non producer countries / Sou	react Custan	os COMTRADE pr	ofossionals				

np: non producer countries / Sources: Customs, COMTRADE, professionals

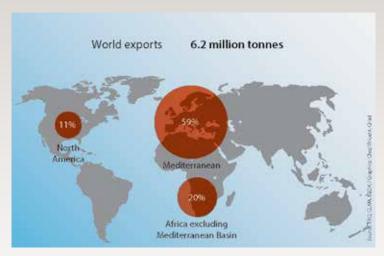
#### ORANGE - Production (2012-13)



Orange - The 10 leading producer countries					
tonnes	2012-2013				
Brazil	16 361 000				
United States	7 502 000				
China	7 000 000				
India	5 000 000				
Mexico	4 000 000				
Spain	3 723 000				
Egypt	2 613 000				
Italy	1 730 000				
Indonesia	1 611 000				
South Africa	1 609 000				

Sources: FAO, professionals

#### ORANGE - Exports (2012-13)



Orange - The 10 leading exporter countries					
tonnes	2012-2013				
Spain	1 771 000				
South Africa	1 152 000				
Egypt	1 017 000				
USA	680 000				
Greece	303 000				
Turkey	243 000				
Morocco	141 000				
Italy	105 400				
China	83 000				
Argentina	50 000				

#### Sources: national Customs, professionals Contenu publié par l'Observatoire des Marchés du CIRAD – Toute reproduction interdite

#### **ORANGE - Imports** (2013)



Orange - The 10 leading importer countries					
tonnes	2013				
Germany	1 086 895				
Netherlands	974 265				
France	950 163				
United Kingdom	576 643				
Russia	503 937				
Italy	405 150				
Saudi Arabia	334 778				
Poland	306 784				
China	269 608				
Spain	248 488				

Source: national Customs

USA - Import - Main supplier countries								
tonnes	2009	2010	2011	2012	2013			
Total	89 933	106 839	104 335	118 895	138 869			
Total N. Hemis., incl.	18 386	23 631	15 208	19 954	33 441			
Mexico	16 089	20 636	12 318	17 421	27 600			
Morocco	25	61	0	0	3 189			
Dominican Rep.	1 482	1 840	2 084	2 380	2 485			
Total S. Hemis., incl.	71 547	83 208	89 127	98 941	105 428			
Chile	20 312	33 393	44 933	51 510	58 856			
South Africa	27 246	33 632	35 662	35 961	36 013			
Australia	23 486	15 361	7 959	11 100	10 433			
Peru	503	822	573	370	126			

Source: US Customs

Canada - Imports - Main supplying countries							
tonnes	2009	2010	2011	2012	2013		
Total	185 932	200 795	208 119	194 473	197 951		
Total N. Hemis, incl.	148 668	162 379	163 728	149 339	149 653		
Morocco	141 246	159 779	161 300	145 012	145 405		
China	3 268	1 452	1 149	3 001	2 957		
USA	2 195	230	272	453	677		
Spain	1 709	591	563	466	335		
Japan	251	327	444	407	279		
Total S. Hemis., incl.	36 498	37 392	43 588	44 467	47 367		
South Africa	27 128	26 828	33 094	36 297	38 504		
Chile	2 297	3 754	4 928	3 562	4 013		
Australia	3 840	3 708	3 255	3 107	3 563		
Uruguay	2 032	834	821	457	940		
Argentina	472	1 568	1 329	935	279		
Others	766	1 024	803	667	931		

Source: COMTRADE

Oceania - Main markets						
tonnes 2009 2010 2011 2012 2013						
Total	27 444	32 708	36 645	32 722	35 058	
Australia	15 165	19 481	24 023	19 223	20 794	
New Zealand	12 279	13 227	12 622	13 499	14 264	

Source: COMTRADE

European Union - Imports - Main supplier countries						
tonnes	2008-09	2009-10	2010-11	2011-12	2012-13	
Total	2 269 862	2 421 149	2 266 123	2 513 265	2 687 113	
Total N. Hemis., incl.	1 740 302	1 765 840	1 723 883	1 975 193	2 080 343	
Spain	1 233 935	1 097 480	1 146 248	1 382 095	1 464 457	
Greece	120 811	221 229	195 743	196 100	214 532	
Egypt	131 496	133 650	101 350	176 339	178 600	
Italy	57 591	127 233	100 392	89 942	93 565	
Morocco	90 430	92 965	99 281	46 570	46 628	
Portugal	13 747	10 305	17 699	24 291	25 708	
Tunisia	19 945	22 329	20 307	19 445	19 445	
Turkey	32 912	17 400	10 695	13 338	13 449	
Cyprus	4 861	7 135	8 020	7 444	7 587	
Israel	22 833	17 836	11 101	6 436	6 434	
Total S. Hemis., incl.	529 560	655 309	542 240	538 071	606 770	
South Africa	333 211	416 018	338 664	396 015	433 637	
Uruguay	59 293	71 279	57 610	36 012	50 268	
Argentina	81 413	86 702	80 720	47 971	49 653	
Zimbawe	13 517	23 705	11 645	19 257	28 903	
Brazil	16 217	33 903	26 872	13 276	21 248	
Peru	2 678	6 192	9 892	7 254	10 565	
Swaziland	12 983	9 566	11 879	12 005	9 801	
Chile	8 609	6 899	4 716	5 730	2 208	
Source: EUROSTAT						

Other West European countries - Main markets						
tonnes 2009 2010 2011 2012 20 <sup>-</sup>						
Total	100 815	103 800	102 085	100 538	108 110	
Switzerland	61 689	64 424	62 758	62 924	68 025	
Norway	37 509	37 730	37 484	35 644	37 985	
Iceland	1 617	1 646	1 842	1 970	2 100	
Source: COMTRADE						

Source. COMMODE							
Russia - Imports - Main supplying countries							
000 tonnes	2009	2010	2011	2012	2013		
Total	443 549	498 799	568 339	489 149	503 937		
Total N. Hemis, incl.	320 047	327 511	433 964	361 281	365 856		
Egypt	128 536	149 905	218 941	197 299	233 934		
Turkey	85 378	76 931	102 458	69 888	66 381		
Spain	6 007	15 099	22 404	25 008	27 518		
Morocco	80 978	63 848	69 968	50 733	24 531		
China	13 131	15 224	10 348	13 980	9 636		
Greece	510	769	3 142	1 276	1 787		
Syria	1 001	1 082	2 600	1 087	1 762		
Total S. Hemis, incl.	122 400	167 606	132 712	126 862	135 000		
South Africa	94 020	131 732	114 601	118 110	128 853		
Uruguay	5 586	6 426	4 699	2 872	3 698		
Zimbabwe	846	577	276	1 399	1 187		

Source: COMTRADE							
Ukraine - Imports - Main supplier countries							
tonnes	2009	2010	2011	2012	2013		
Total	125 762	124 849	143 659	117 953	133 185		
Total N. Hemis., incl.	108 271	107 249	127 735	104 184	122 855		
Egypt	67 367	68 471	80 474	67 361	72 596		
Turkey	33 648	29 715	36 793	25 633	38 637		
Spain	4 065	6 070	7 324	8 259	10 790		
Total S. Hemis., incl.	17 325	17 201	15 588	13 361	9 799		
South Africa	14 385	15 880	14 640	12 758	8 609		
Zimbabwe	256	382	64	438	1 082		
Source: COMTRADE							

Source: COMTRADE							
Other East European countries - Main markets							
tonnes	2009	2010	2011	2012	2013		
Total, incl.	154 514	163 145	189 278	163 858	189 324		
Serbia	40 320	39 288	48 156	38 433	44 425		
Belarus	21 478	24 701	23 999	26 904	36 386		
Croatia	28 341	28 016	32 100	27 373	29 201		
Bosnia	16 399	18 177	21 101	17 821	20 040		
Albania	20 638	22 083	22 791	17 670	16 687		
Georgia	6 018	5 051	8 669	9 329	12 629		
Macedonia	8 309	9 971	13 032	11 392	11 913		
Armenia	4 181	6 792	8 102	5 458	7 253		
Montenegro	3 780	4 003	5 415	5 038	5 512		
Moldova	5 049	5 063	5 913	4 440	5 278		
Source: COMTRADE							

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Japan - Imports - Main supplier countries							
tonnes	2009	2010	2011	2012	2013		
Total	94 411	109 940	115 330	130 476	111 882		
Total N. Hemis., incl.	66 811	75 469	83 626	97 304	74 976		
USA	66 792	75 393	83 589	97 304	74 942		
Italy	19	76	37	-	34		
Total S. Hemis, incl.	27 582	34 441	31 704	33 172	36 906		
Australia	18 324	25 312	23 762	27 717	32 479		
South Africa	7 370	7 106	7 258	4 930	4 085		

Source: Japanese Customs								
Central and South-East Asia - Main markets								
tonnes	2009	2010	2011	2012	2013			
Total	558 148	638 657	721 633	759 192	717 044			
China	246 028	273 953	309 583	292 309	269 608			
South Korea	71 221	110 055	141 961	173 943	152 714			
Malaysia	86 469	83 119	88 671	95 044	90 353			
Singapore	40 542	41 743	43 138	43 460	45 026			
Vietnam	10 460	10 147	7 079	8 000	38 071			
India	9 872	10 045	24 770	32 566	34 242			
Philippines	39 822	35 932	29 670	35 939	24 748			
Indonesia	19 586	31 346	33 074	32 492	17 328			
Kazakhstan	16 133	18 706	14 792	16 822	14 760			
Azerbaijan	5 173	11 819	12 021	10 128	11 535			
Thailand	8 536	7 293	9 877	12 516	10 994			
Sri Lanka	4 305	4 499	6 996	5 973	7 665			
Source: COMTRADE								

Source: COMTRADE								
Persian Gulf - Main markets								
tonnes 2009 2010 2011 2012								
Total	1 005 643	1 045 578	1 061 067	1 081 488	1 104 195			
Saudi Arabia	303 642	332 473	360 597	389 870	334 778			
United Arabia Emirates	178 549	180 000	202 920	157 200	210 208			
Iran	152 000	136 407	184 287	200 000	200 000			
Iraq	218 169	236 226	147 131	176 737	180 211			
Kuwait	76 256	82 582	80 197	69 457	92 827			
Oman	37 915	40 193	43 547	45 304	43 796			
Qatar	20 000	23 427	25 332	27 891	27 528			
Bahrain	19 112	14 270	17 055	15 029	14 847			
Yemen	4 309	4 500	1 125	2 549	2 500			
Source: COMTRADE								

Source Community							
Mediterranean - Main markets							
tonnes 2009 2010 2011 2012 2013							
Total	66 433	66 055	94 271	101 658	111 283		
Jordan	16 400	28 664	26 482	36 485	35 435		
Turkey	40 853	28 591	44 259	30 816	33 472		
Algeria	9 180	8 800	8 531	19 357	27 376		
Syria	19 000	10 186	15 000	15 000	15 000		
Source: COMTRADE							

Africa - Main markets							
tonnes	2009	2010	2011	2012	2013		
Total	51 191	63 017	54 650	58 855	48 836		
South Africa	1 699	1 255	808	378	19 292		
Zambia	5 936	7 055	7 261	7 500	10 139		
Kenya	3 872	5 282	5 460	6 000	6 000		
Namibia	3 407	3 357	3 515	4 272	5 255		
Sudan	22 885	29 048	29 158	29 839	3 000		
Botswana	1 884	1 777	1 541	2 014	2 276		
Senegal	1 460	2 041	1 202	1 534	1 881		
Source: COMTRADE							

Source: COMTRADE  South America - Main markets							
tonnes 2009 2010 2011 2012 201							
Total	236 018	257 694	276 625	305 017	280 974		
Costa Rica	71 880	55 016	74 284	84 001	66 637		
Surinam	47 967	50 000	50 000	50 000	50 000		
Guatemala	34 826	47 860	40 698	53 066	48 791		
Paraguay	28 840	37 001	28 784	31 470	29 353		
Mexico	10 939	22 535	25 132	35 501	27 912		
El Salvador	19 000	22 824	23 000	21 693	27 898		
Brazil	1 824	6 002	11 527	11 873	14 598		
Ecuador	13 702	9 022	2 562	3 321	9 449		
Nicaragua	6 847	2 631	1 352	1 431	2 695		
Chile	193	2 659	889	1 456	2 571		
Colombia	9 775	1 209	17 408	11 203	1 070		
Source: COMTRADE							

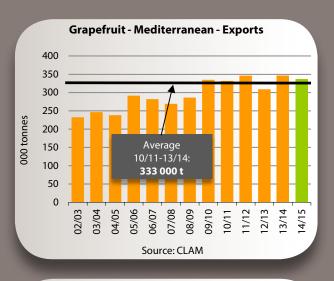
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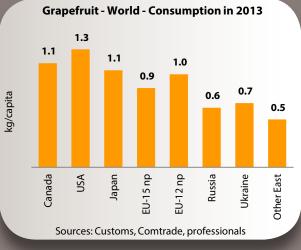
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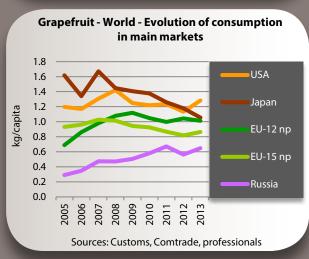


## Mediterranean grapefruit

The 2013-14 season, economically catastrophic for the Mediterranean industry (as well as its South African counterpart) has left its marks. Prices were below average for ten months out of twelve on the fresh market from October 2013 to September 2014, reaching their lowest ebb during summer 2014. Furthermore, sales to the industrial sector were very often made at below cost-price levels. This was a difficult season of excess for a good many producers, who resolved to abandon the crop. This was the case in Israel, where 700 ha of Star Ruby were uprooted between 2013 and 2014 (i.e. 30 % of the cultivation area). It was also the case in Turkey, where significant surface areas seem to have suffered the same fate. This reduction in surface areas shows in the 2014-15 production forecasts for these two sources, which represent more than two thirds of the Mediterranean's total production. The fall of more than 10 % in their production potential should bring down the Mediterranean harvest to approximately 560 000 t, its lowest level since the middle of the last decade. Only the outsiders are registering stable production (Cyprus), or slightly above average (Spain). The increase must be put into context for the latter source, since while a 10 to 15 % increase is genuine and due to the expansion of the cultivation area from 2005 to 2010, the rest of the increase corresponds purely to adjustment of the official statistics. A clear market in early October, due to a much more limited Mexican presence than in 2013, and lower production pressure due to these major production structure adjustments, helped get the season off to a decent start. Let's hope that in the long run these drastic measures have put the supply back in step with a consumption in structural decline.









#### A new deal, after the season of excess



Grapefruit – Export forecast by CLAM country									
000 tonnes	2014-15	2013-14	average of 013-14 the 4 last		4-15 son with				
tonnes			years	2013-14	average				
Spain	54	47	49	+ 14 %	+9%				
Israel	77	77	79	+1%	- 3 %				
Cyprus	24	23	25	+ 3 %	- 3 %				
Turkey	163	182	160	- 10 %	+ 2 %				
Others	19	17	20 + 12 %		- 4 %				
Total	337	346	333	- 3 %	+1%				

Source: CLAM

Grapefruit – World – Consumption								
	2013	Evolution (g)						
	(kg)	2013/2012 2013/20						
Canada	1.1	- 82	- 214					
United States	1.3	+ 151	+ 34					
Japan	1.1	- 122	- 351					
EU-15 np	0.9	+ 44	- 81					
EU-12 np	1.0	- 31	- 106					
Russia	0.6	+ 84	+ 142					
Ukraine	0.7	+ 109	+ 319					
Other Eastern countries	0.5	+ 99	+ 83					

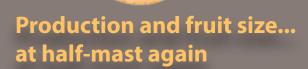
np: non producer countries / Sources: Customs, COMTRADE, professionals

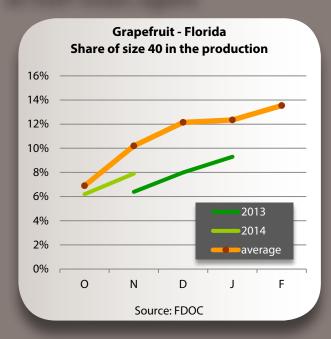


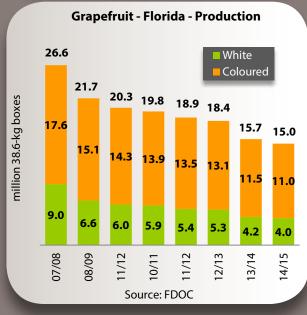


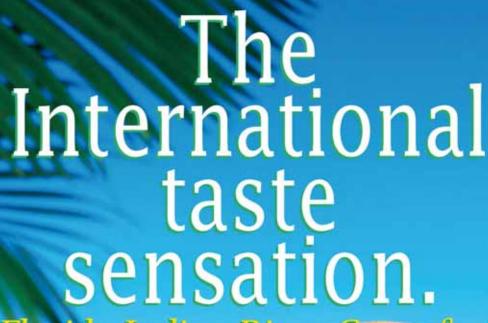
## Floridian grapefruit

Unsurprisingly, the USDA announced in early October another fall in Floridian production, extending a trend well established since the invasion and rapid spread of greening in Florida in 2005. With 15 million eighty five-pound field crates expected (i.e. approximately 580 000 tonnes), the harvest is down nearly 4 % on last season, reaching a new low point. If this forecast is confirmed, Floridian production will have lost 5 million boxes in five years, i.e. a quarter of its potential. And this initial estimate must not be considered too optimistic. The gap between the initial forecast and actual harvest has been approximately 2 million boxes for the past two seasons, with major fruit dropping during the autumn and winter because of the extreme fragility of the trees infected by the lethal bacterium. The fall in volumes available for the fresh market should be less drastic, with producers continuing to favour this outlet to the detriment of the processing sector, still less lucrative despite the high rates for concentrated juice on the international market. Nonetheless, it is very likely that the volumes intended for export will continue to follow the downward trend of recent seasons (losing 2 million boxes per season since 2009-10). The change, unfavourable for both European and Japanese importers, could hit hard. On the other hand, the small fruit size range still seemed to be quite a handicap in mid-November (volumes delivered to Europe established as at week 47 down more than 40 % from last season). The tests conducted by FDOC revealed an average size range up from last season, though still well below average. Conversely, as in previous seasons, the breakdown of volumes by market should remain more in favour of the EU than Japan. This market, where the economic cycle is still more difficult than in Europe, and where cosmetic aspects are vital, has slumped by half in four seasons, and now absorbs volumes a long way behind those of the EU.









Florida Indian River Grapefruit



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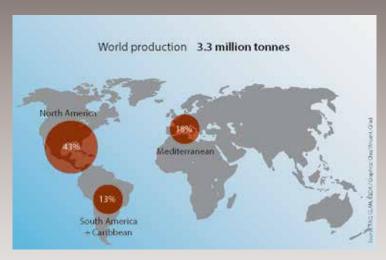
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#### **GRAPEFRUIT - Production** (2012-13)



Grapefruit - The 8 leading producer countries				
tonnes	2012-2013			
USA	1 092 000			
South Africa	448 000			
Mexico	350 000			
Turkey	223 000			
Israel	210 000			
Sudan	196 000			
Cuba	84 000			
Argentina	60 000			

Sources: FAO, professionals

#### **GRAPEFRUIT - Exports** (2012-13)



Grapefruit - The 8 leading exporter countries					
tonnes	2012-2013				
South Africa	268 000				
USA	182 800				
Turkey	132 000				
Israel	79 000				
Spain	52 000				
Cyprus	26 000				
Mexico	17 600				
Egypt	15 000				

Sources: national Customs, professionals

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#### **GRAPEFRUIT - Imports** (2012-13)



Grapefruit - The 8 leading importer countries				
tonnes	2013			
Netherlands	336 883			
France	152 186			
Japan	134 091			
Germany	119 326			
Russia	90 900			
Poland	87 965			
United Kingdom	71 886			
Canada	38 384			

Source: national Customs

USA - Imports - Main supplier countries							
tonnes 2009 2010 2011 2012							
Total	11 143	8 066	6 088	2 851	12 224		
Mexico	3 336	4 608	4 410	2 263	10 093		
Israel	119	123	158	473	1 094		
Bahamas	7 538	3 162	1 234	-	-		
Others 20 312 33 393 44 933 51 510 58 856							

Source: US Customs

Canada - Imports - Main supplier countries								
tonnes	2009	2010	2011	2012	2013			
Total	45 216	43 614	43 360	41 146	38 384			
Winter total, incl.	39 552	38 512	35 915	33 972	30 158			
USA	38 152	37 212	35 277	33 054	29 517			
Bahamas	874	396	137	-	-			
Mexico	335	641	328	735	423			
Thailand	192	262	173	183	218			
Summer total, incl.	5 220	4 488	6 472	5 396	8 226			
South Africa	4 589	4 288	6 374	5 267	8 136			
Argentina	626	124	98	127	72			
Chile	5	76	-	2	18			

Source: COMTRADE

South America - Main markets					
tonnes	2009	2010	2011	2012	2013
Total	11 222	11 652	4 5 1 1	9 612	3 792
Mexico	9 118	9816	2 469	8 272	2 228
Argentina	2 104	1836	2 041	1 340	1 564

Source: COMTRADE

European Union - Imports - Main supplier countries						
tonnes	2008-09	2008-09 2009-10 2010-11 2011-1		2011-12	2012-13	
Total	386 530	373 288	372 610	335 061	323 264	
Total N. Hemis.*, incl.	273 654	271 878	252 081	246 851	211 803	
Turkey	64 634	75 004	66 286	81 960	52 786	
Spain	36 300	47 900	51 825	44 560	46 998	
Israel	68 502	58 101	48 576	44 170	45 401	
USA	64 548	55 132	52 721	45 988	40 676	
Mexico	11 600	9 167	14 385	13 472	11 392	
Cyprus	11 880	10 617	11 773	13 081	11 031	
Honduras	9 478	6 063	1 109	76	73	
Cuba	1 276	754	-	-	-	
Others	5 436	9 140	5 406	3 544	3 446	
Total S. Hemis., incl.	112 876	101 410	120 529	88 210	111 461	
South Africa	88 616	78 897	94 006	75 412	104 725	
Zimbabwe	1 947	2 053	2 228	1 360	2 414	
Swaziland	6 707	9 906	14 986	8 480	2 328	
Argentina	14 828	9 129	8 276	1 485	1 080	
Chile	70	363	18	176	105	
Mozambique	240	669	1 016	840	89	
Uruguay	213	140	-	-	-	
Others	255	251	-	457	721	

\*Extra-EU imports and imports from EU producer countries (Spain, Cyprus) / Source: EUROSTAT

Other West European countries - Main markets					
tonnes	2009	2010	2011	2012	2013
Total	9 880	8 767	8 393	8 786	8 661
Switzerland	8 554	7 434	7 174	7 445	7 321
Norway	1 327	1 333	1 219	1 341	1 340

Source: COMTRADE

Russia	Russia - Imports - Main supplier countries							
000 tonnes	2009	2010	2011	2012	2013			
Total	71 262	81 491	94 274	79 075	90 900			
Total N. Hemis., incl.	52 705	56 621	65 205	56 215	58 537			
Turkey	38 211	43 377	48 811	41 595	43 689			
Israel	11 845	11 978	15 581	13 655	13 839			
Morocco	544	365	122	660	612			
Spain	891	691	678	303	365			
USA	1 214	209	13	2	32			
Total S. Hemis., incl.	17 963	24 316	27 583	20 580	30 129			
South Africa	15 402	19 768	22 492	15 589	25 700			
Mexico	1 004	2 704	3 016	4 020	3 303			
Swaziland	298	631	910	622	888			
Zimbabwe	481	188	262	81	183			
Argentina	691	1 025	903	268	55			
Others	593	554	1 486	2 280	2 234			

Source: COMTRADE

	_						
Other East Europe countries - Main markets							
tonnes	2009	2010	2011	2012	2013		
Total, incl.	32 912	36 548	40 907	42 644	50 495		
Ukraine	17 344	20 807	25 691	26 786	31 734		
Belarus	4 049	4 385	3 880	4 753	8 316		
Serbia	4 569	4 255	4 154	4 322	3 745		
Croatia	2 549	2 446	2 729	2 408	2 577		
Moldova	1 636	1 703	1 655	1 597	1 755		
Bosnia Herzegovina	1 679	1 852	1 695	1 581	1 285		
Macedonia	1 086	1 100	1 103	1 197	1 083		
Georgia	381	334	536	929	954		
Montenegro	330	436	521	507	536		
Albania	396	201	257	222	192		

Source: COMTRADE

Japan - Imports - Main supplier countries							
tonnes	2008-09	2009-10	2010-11	2011-12	2012-13		
Total	180 378	166 075	168 438	149 567	134 091		
Total N. Hemis., incl.	119 320	119 175	113 939	101 061	83 238		
USA	115 592	115 350	109 981	96 444	78 598		
Israel	3 728	3 825	3 492	2 850	3 120		
Turkey	-	-	465	1 639	1 520		
Others	-	-	1	128	-		
Total S. Hemis, incl.	61 058	46 900	54 499	48 506	50 853		
South Africa	57 818	44 602	53 579	48 120	50 853		
Swaziland	3 240	2 237	857	-	-		
Chile	-	61	60	-	-		

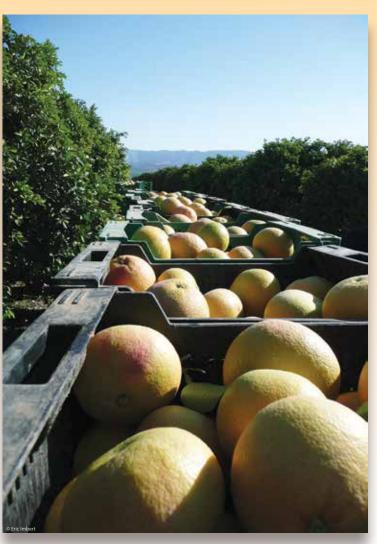
Source: Japanese Customs

Other Asian countries - Main markets							
tonnes	2009	2010	2011	2012	2013		
Total	33 483	36 838	42 592	42 242	42 743		
China	22 606	23 517	27 538	25 268	25 387		
South Korea	5 724	7 861	9 337	10 452	11 580		
Singapore	4 022	4 530	4 571	5 252	5 120		
Malaysia	1 131	930	1 147	1 270	656		

Source: COMTRADE

Persian Gulf - Main markets						
tonnes	2009	2010	2011	2012	2013	
Total	20 762	21 044	20 699	22 000	26 960	
United Arab Emirates	9 000	8 8 9 1	7 698	7 164	10 572	
Saudi Arabia	8 500	8 457	9 904	21 510	10 562	
Qatar	1 260	1 228	1 377	3 922	3 850	
Kuwait	2 002	2 468	1 720	2 345	1 976	

Source: COMTRADE



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**No. 227** November 2014 **45** 



### Lemon

Will 2014-15 be the benchmark season par excellence for the lemon? Production . levels – all within average to the nearest 5 % – of the main Mediterranean producer countries would seem to indicate so. The Spanish harvest seems fine, with a level very similar to last season and slightly less than one million tonnes. The slight fall in production of the late variety Verna is being compensated for by an increase in Fino, which makes up practically all the supply at the beginning of the season. The size range appears to be at a better level than last season. Turkey, the number two producer in the region, just like Spain is set for an Interdonato and Kütdiken harvest very close to last year's and the average. Finally, Italian production should return to average, down approximately 15 % on last year's very big season. However, the concentration of the supply from January to April could be more marked than in previous seasons.

While production levels are nothing special, the market context is extremely favourable. Firstly, the season finished very early for the Southern Hemisphere, because of the near-historic weakness of Argentinean production (exports half those of a normal season). Hence the Northern Hemisphere sources were able to take over early, and enjoy a healthy head-start on the market (approximately 10 to 15 days for Spain). Secondly, the industrial market is very buoyant, once again because of the scarcity of the 2014 harvest in Argentina. Prices of derivatives are registering a record level corresponding to double those charged one year ago (approximately 5 000 USD for concentrated juice 400 gpl FOB Argentina, and nearly 55 000 USD into Rotterdam for essential oil). So this context should enable the fresh market to remain fairly tight, unless the collapse of the rouble leads Turkish exporters to switch some of the volumes earmarked for Russia back to the Community market.





## An average season, though in a perfect setting... or nearly

## Mediterranean lemon

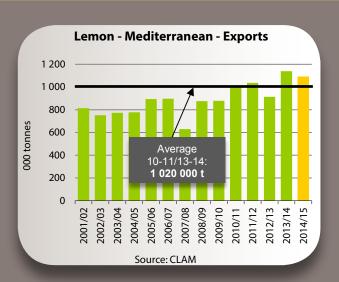
- Growing exports between 0.9 and 1.1 million tonnes
- 63 % of world trade estimated at 1.6 million tonnes
- The world's leading export zone

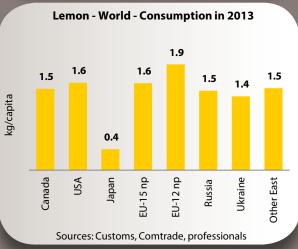
Lemon – Export forecast by CLAM country						
000 tonnes	2014-15	2013-14	average of the 4		4-15 son with	
tomics		last years 2		2013-14	average	
Spain	570	635	529	- 10 %	+8%	
Cyprus	7	5	7	+ 43 %	+ 10 %	
Turkey	417	421	415	- 1 %	+1%	
Greece	7	8	5	- 7 %	+ 39 %	
Italy	50	30	30	+ 64 %	+ 67 %	
Egypt	32	32	31	0 %	+ 5 %	
Morocco	4	4	4	0 %	- 5 %	
Total	1 088	1 135	1 020	- 4 %	+7%	

Source: CLAM

Lemon – World – Consumption						
	2013	Evolut	ion (g)			
	(kg)	2013/2012 2013/20				
Canada	1.5	+ 62	+ 352			
United States	1.6	- 201	+ 205			
Japan	0.4	- 36	- 17			
EU-15 np	1.6	+ 80	+ 144			
EU-12 np	1.9	+ 204	+ 115			
Russia	1.5	+ 46	0			
Ukraine	1.4	- 12	- 14			
Other Eastern countries	1.5	+ 21	- 55			

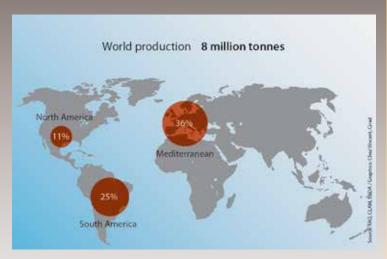
np: non producer countries / Sources: Customs, COMTRADE, professionals







#### **LEMON - Production** (2012-13)



Lemon - The 8 leading producer countries				
tonnes	2012-2013			
Argentina	1 325 000			
Spain	830 000			
USA	827 000			
Turkey	624 000			
Italy	411 000			
China	400 000			
South Africa	236 000			
Chile	230 000			

Sources: FAO, professionals

#### LEMON - Exports (2012-13)



Lemon - The 7 leadin	Lemon - The 7 leading exporter countries				
tonnes	2012-2013				
Spain	496 000				
Turkey	350 000				
Argentina	275 000				
South Africa	159 000				
USA	108 000				
Chile	33 400				
Italy	29 000				

Sources: national Customs, professionals

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#### LEMON - Imports (2012-13)



Lemon - The 8 leading importer countries						
tonnes	2013					
Netherlands	359 529					
Germany	301 900					
France	271 128					
United Kingdom	223 058					
Italy	207 547					
Russia	204 951					
Poland	198 504					
Spain	117 216					

Source: national Customs

USA - Imports - Main supplier countries								
tonnes	2008-09	2009-10	2010-11	2011-12	2012-13			
Total	37 287	39 789	52 577	51 937	51 297			
Total N. Hemis, incl.	20 402	23 184	33 603	33 603	29 013			
Mexico	16 954	22 286	23 413	31 014	28 056			
Spain	3 159	609	835	1 510	389			
Dominican Rep.	285	248	387	191	300			
Total S. Hemis., incl.	16 885	16 605	23 674	23 674	12 321			
Chile	16 821	16 333	23 413	17 020	11 829			
Others	64	272	621	608	492			

Source: US Customs

Canada - Imports - Main supplying countries								
tonnes	2009	2010	2011	2012	2013			
Total	38 450	38 677	43 980	48 645	50 752			
Total N. Hemis, incl.	30 365	31 310	32 470	35 471	37 466			
USA	30 250	31 109	31 555	30 481	35 105			
Spain	115	201	915	3 940	1 618			
Turkey	20	88	306	1 050	743			
Total S. Hemis., incl.	7 724	6 787	11 013	12 216	12 706			
Argentina	6 213	4 606	7 381	9 299	7 263			
South Africa	443	1 612	2 789	2 560	5 132			
Chile	653	311	435	112	110			
Australia	203	169	181	174	104			

Source: COMTRADE

South America - Main markets							
tonnes	2009	2010	2011	2012	2013		
Total	13 911	18 391	29 557	15 536	13 926		
Chile	1 319	3 966	17 574	4 497	5 733		
Brazil	918	1 248	1 954	2 381	2 712		
Colombia	4 639	956	2 993	4 194	1 382		
Mexico	453	602	2 398	1 419	1 214		
Ecuador	819	4 088	2 356	1 823	1 169		
Argentina	4 837	6 524	1 177	331	966		
Costa Rica	511	536	802	731	550		
Bolivia	415	471	302	160	200		

Source: COMTRADE

European Union - Imports - Main supplier countries								
tonnes	2008-09	2009-10	2010-11	2011-12	2012-13			
Total	828 036	780 827	787 381	828 096	738 399			
Winter total, incl.	578 027	565 295	569 644	587 071	509 146			
Spain	439 194	372 445	412 568	442 573	402 382			
Turkey	85 519	132 610	110 261	103 455	68 039			
Italy	40 889	47 306	37 226	30 731	30 984			
Greece	3 481	4 493	3 790	3 804	3 626			
Cyprus	2 947	1 658	2 031	2 041	1 805			
Portugal	1 007	1 154	942	2 571	1 334			
Israel	730	1 099	373	187	377			
Egypt	1 001	2 191	554	567	279			
Morocco	3 184	1 785	1 771	1 119	196			
Iran	63	85	73	12	84			
USA	1	428	2	-	31			
Summer total, incl.	250 009	215 532	217 737	241 025	229 253			
Argentina	182 387	158 391	159 063	182 580	187 449			
South Africa	45 633	44 532	45 233	41 385	25 363			
Uruguay	10 762	8 064	8 280	9 959	9 194			
Chile	9 275	3 211	3 217	5 751	6 333			
Dominican Rep.	1 947	1 198	1 943	1 256	632			
Brazil	5	136	-	92	249			
Source: EUROSTAT								

Other West European countries - Main markets							
tonnes	2009	2010	2011	2012	2013		
Total	23 329	24 199	25 172	26 327	27 677		
Switzerland	17 483	17 861	18 358	18 998	19 516		
Norway	5 431	5 888	6 300	6 781	7 496		
Iceland	415	450	514	548	665		

Source: COMTRADE

Source: COMMUNE								
Russia - Imports - Main supplier countries								
000 tonnes	2009	2010	2011	2012	2013			
Total	205 726	211 886	223 264	198 585	204 951			
Total N. Hemis, incl.	145 109	144 290	156 085	137 942	131 080			
Turkey	106 890	117 255	131 314	101 648	109 248			
Spain	29 664	16 989	17 801	28 964	16 509			
China	2 478	4 995	2 866	3 837	3 682			
Morocco	2 925	1 230	2 511	2 172	1 166			
Egypt	985	1 412	1 400	601	189			
USA	1 302	1 689	188	63	152			
Israel	866	719	5	657	134			
Total S. Hemis., incl.	60 298	66 848	66 643	60 427	72 448			
Argentina	47 192	43 948	40 250	41 853	42 795			
South Africa	12 929	20 960	26 094	18 438	28 387			
Uruguay	177	1 939	299	136	1 266			
Others	318	748	536	216	1 423			

Source: COMTRADE

Ukraine - Imports - Main supplying countries								
tonnes	2009	2010	2011	2012	2013			
Total	62 787	60 102	62 188	62 319	61 754			
Total N. Hemis, incl.	48 682	46 780	46 619	48 739	45 457			
Turkey	41 263	41 992	43 102	37 464	39 574			
Spain	6 709	3 732	3 516	10 478	5 634			
Egypt	619	848	1	722	236			
Total S. Hemis., incl.	13 399	12 147	15 021	12 624	16 092			
Argentina	12 193	8 741	11 241	9 6 1 9	12 274			
South Africa	1 205	3 406	3 780	3 005	3 818			
Others	706	1 175	548	956	205			

Source: COMTRADE

Other East European countries - Main markets							
tonnes	2009	2010	2011	2012	2013		
Total, incl.	58 583	51 711	58 496	57 413	59 308		
Serbia	16 278	13 791	15 971	15 692	16 372		
Croatia	12 218	11 025	12 399	12 037	11 499		
Belarus	7 984	7 230	6 912	7 503	8 433		
Bosnia	9159	7839	8 921	8 220	7 988		
Macedonia	5 084	5 000	5 194	4 697	4 939		
Georgia	1 441	1 265	2 871	3 141	4 263		
Moldova	3 613	3 382	3 523	3 295	3 351		
Albania	2 806	2 180	2 706	2 828	2 463		
Montenegro	2 781	1 979	1 831	2 068	2 351		
Carrage COMTRADE							

Source: COMTRADE

Japan - Imports - Main supplier countries								
tonnes	2009	2010	2011	2012	2013			
Total	51 422	52 618	53 781	53 834	49 229			
Total N. Hemis, incl.	36 531	38 459	35 758	38 204	35 268			
USA	36 462	36 741	32 099	36 917	34 614			
Mexico	69	1 718	3 659	1 287	654			
Total S. Hemis., incl.	14 475	14 159	18 022	15 562	13 920			
Chile	12 187	12 949	16 767	14 331	13 170			
New Zealand	953	786	862	725	529			
South Africa	1 335	424	393	506	221			
Others	416	-	1	68	41			

Source: Japanese Customs

Other Asian countries - Main markets								
tonnes	2009	2010	2011	2012	2013			
Total	66 570	67 838	74 996	81 691	91 974			
China	34 968	30 211	32 980	34 865	39 251			
South Korea	5 147	5 631	7 398	10 664	13 950			
Singapore	8 423	8 988	9 932	10 191	12 858			
Azerbaijan	2 261	8 745	6 963	6 303	7 742			
Malaysia	6 556	6 646	7 559	9 377	7 585			
Kazakhstan	7 503	5 000	4 568	4 712	4 616			
Indonesia	-	-	1 931	3 413	2 864			
Philippines	854	1 277	1 430	1 390	1 610			
Armenia	858	1 341	1 176	776	927			
Kyrgyzstan	1 100	872	1 059	1 088	571			

Source: COMTRADE

Persian Gulf - Main markets								
tonnes	2009	2010	2011	2012	2013			
Total	118 561	166 268	176 853	152 490	233 633			
Saudi Arabia	42 770	93 613	92 753	71 617	116 645			
United Arab Emirates	50 000	44 823	56 048	50 000	82 068			
Kuwait	15 000	15 000	11 506	14 869	16 396			
Oman	2 214	2 284	3 289	6 516	7 253			
Qatar	5 000	6 848	7 328	5 351	6 406			
Bahrain	3 577	3 700	5 930	4 137	4 865			

Source: COMTRADE

Mediterranean - Main markets								
tonnes	2009	2010	2011	2012	2013			
Total	25 858	31 023	34 570	34 984	31 921			
Jordan	5 093	7 983	11 469	10 022	14 304			
Syria	16 289	19 618	19 909	17 504	8 225			
Lebanon	451	891	616	821	4 5 1 6			
Algeria	1 310	33	1 105	2 744	2 093			
Turkey	1 808	1 722	670	3 093	1 983			
Tunisia	906	777	800	800	800			
Source: COMTRADE								

Source: COMTRADE

Oceania - Main markets							
tonnes 2009 2010 2011 2012 2							
Total	5 099	6 921	5 823	7 691	9 563		
Australia	4 209	6 241	4 988	6 189	8 242		
New Zealand	890	680	835	1 502	1 321		

Source: COMTRADE



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**No. 227** November 2014 49





# Impact of the Russian embargo on Community citruses

**Beware the indirect effects!** 



The announcement at the beginning of August of a one-year Russian embargo on imports of a number of agricultural products from the EU-28 had an explosive effect. The impact on agricultural industries such as dairy products, meat and certain fruits such as the apple, made the headlines in the press. Yet what about **Community citruses?** 





#### Russian fruit production 43rd in the world, with just under 3 million tonnes

Russia – Top 10 fruit yields (000 tonnes)					
1	Apple	1 302			
2	Red currant	355			
3	Grape	340			
4	Sour cherry	187			
5	Strawberry	179			
6	Raspberry	137			
7	Plum	134			
8	Cherry	74			
9	Pear	58			
10	Apricot	59			
FAO 2011 2012					

#### Russia: one of the world's main markets for imported fruits

In terms of fruit trade, Russia is a player of imperial proportions! Its imports, amounting to more than 6 million tonnes, are 4th in the world by value, just behind those of the United States, Germany and the Netherlands. This dominant position is not due only to the 140 million mouths to feed. The severity of the continental climate prevalent across most of the country limits its agricultural potential. Hence despite having proportions worthy of a continent, Russia's fruit production is just 43rd in the world, amounting to less than 3 million tonnes. It comprises primarily apples, red fruits and grapes.

#### Russian fresh fruit consumption largely dependent on imports

Fruits – Russia – Imports							
en tonnes	2009	2010	2011	2012	2013		
Fresh fruits	5 092 092	5 616 237	5 948 913	5 946 007	6 132 073		
Apples, pears and quince, fresh	1 421 674	1 607 165	1 580 243	1 692 906	1 733 063		
Citrus, fresh or dry	1 280 011	1 491 004	1 660 518	1 580 285	1 703 436		
Bananas, incl. plantains, fresh or dry	980 896	1 068 571	1 307 600	1 255 608	1 339 123		
Apricots, cherries, peaches, nectarines, plums, sloes, fresh	367 954	437 388	463 365	487 989	460 944		
Grapes, fresh or dry	443 963	475 433	445 431	425 427	401 077		
Dates, figs, pineapples, avocados, guavas, mangoes, mangosteens, fresh	65 122	90 228	87 806	94 869	102 020		
Melons (incl. watermelons) and papayas, fresh	215 972	80 580	58 238	34 038	19 154		
Other fruits, fresh	316 500	365 868	345 712	374 885	373 256		
Source: Trade Map							

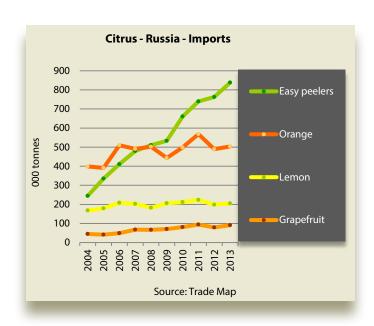


Citrus – Russia – Main supplier countries						
tonnes	2009	2010	2011	2012	2013	
GRAPEFRUIT TOTAL	71 262	81 491	94 274	79 075	90 900	
incl. Northen Hemisphere total	52 705	56 621	65 205	56 215	58 537	
Turkey	38 211	43 377	48 811	41 595	43 689	
Israel	11 845	11 978	15 581	13 655	13 839	
incl. Southern Hemisphere total	17 963	24 316	27 583	20 580	30 129	
ORANGE TOTAL	443 549	498 799	568 339	489 149	503 937	
incl. Northen Hemisphere total	320 047	327 511	433 964	361 281	365 856	
Egypt	128 536	149 905	218 941	197 299	233 934	
Turkey	85 378	76 931	102 458	69 888	66 381	
Spain	6 007	15 099	22 404	25 008	27 518	
Morocco	80 978	63 848	69 968	50 733	24 531	
incl. Southern Hemisphere total	122 400	167 606	132 712	126 862	135 000	
EASY PEELERS TOTAL	533 405	660 400	739 500	762 787	838 100	
incl. Northen Hemisphere total	468 974	590 776	668 666	696 087	768 300	
Morocco	132 458	167 700	198 700	191 800	222 200	
Turkey	134 617	162 700	186 900	158 800	200 600	
China	79 003	66 700	66 000	87 100	86 900	
Pakistan	43 477	82 900	77 058	91 300	80 300	
Spain	19 863	27 500	57 740	59 700	47 700	
incl. Southern Hemisphere total	62 200	69 624	70 834	66 700	69 800	
LEMON TOTAL	205 726	211 886	223 264	198 585	204 951	
incl. Northen Hemisphere total	145 109	144 290	156 085	137 942	131 080	
Turkey	106 890	117 255	131 314	101 648	109 248	
Spain	29 664	16 989	17 801	28 964	16 509	
incl. Southern Hemisphere total	60 298	66 848	66 643	60 427	72 448	

Source: Trade Map

## Mad about citruses, particularly easy peelers!

The importance of the Russian market is even more obvious if we look just at citruses. Russia absorbs 13 % of the world trade, and is quite simply the world's number one import market, citruses being the most imported family along with pip fruits. This country is a cornerstone of the balance of world trade in clementines and other mandarins, since one in every five easy peelers on the international market is bought by a Russian consumer. Furthermore, while the imported varietal range remains relatively narrow and centred on the basics, the market is upgrading. Price remains a particularly crucial factor, yet the quality requirements are increasingly high, and certain top-of-the-range varieties are now welcome (Israeli Or, Nadorcott, etc.).







#### **Limited overall impact limited** for Community citruses

Though not negligible, the direct impact of the embargo on overall citrus exports from the European Community should be fairly moderate. Firstly, approximately one quarter of the 1.7 million tonnes imported by Russia comprises counter-season citruses from the Southern Hemisphere. Secondly, the supply of winter citruses, which represents most of the imports, comes from extra-Community producers such as Turkey, Morocco, Egypt and China, to name just the countries exporting more than 100 000 t. Hence citrus shipments from the Community to Russia have been between 80 000 and 110 000 t for the past two seasons, i.e. 2 % of the total volumes exported by EU-28 producer countries. The main products concerned are easy peelers(between 40 000 and 80 000 t, i.e. approximately 3 % of total Community exports), oranges (approximately 15 000 t, i.e. 1 % of total exports) and lemons (15 000 to 20 000 t, i.e. 3 % of the total).

Citrus – Russia – Imports from EU-28						
4	EU-28 expo	ort volumes	Share of total exports			
tonnes	2012-13	2013-14	2012-13	2013-14		
SPAIN TOTAL, incl.	69 357	58 891	2 %	2 %		
Easy peelers	37 058	25 414	2 %	2 %		
Lemon	16 143	20 036	3 %	4 %		
Orange	15 939	13 258	1 %	1 %		
CYPRUS TOTAL, incl.	18 683	9 570	37 %	25 %		
Easy peelers	18 247	9 154	62 %	46 %		
GREECE TOTAL, incl.	13 276	5 569	3 %	1 %		
Easy peelers	12 257	4 551	13 %	5 %		
CROATIA TOTAL, incl.	9 581	2 948	27 %	13 %		
Easy peelers	9 581	2 948	27 %	14 %		
ITALY TOTAL, incl.	2 230	923	1 %	0 %		
Easy peelers	1 948	674	2 %	1 %		
CITRUS TOTAL, incl.	113 332	77 968	2 %	2 %		
Orange	17 458	14 594	1 %	1 %		
Easy peelers	79 158	42 741	4 %	2 %		
Grapefruit	356	451	1 %	1 %		
Lemon	16 360	20 183	3 %	3 %		
Source: Eurostat						



# More significant consequences for certain industries in Cyprus, Greece and Croatia

The impact is nonetheless considerable in certain particular cases. Cyprus is losing a market absorbing between one quarter and just over one third of its export potential, i.e. between 40 000 and 50 000 t. The blow is particularly heavy in easy peelers, with 45 to 60 % of exports going to Russia. Greece is also losing a easy peelers outlet of 5 000 to 12 000 t, and the small Croatian industry an outlet of between 3 000 and 10 000 t (i.e. between 15 and 30 % of its potential). Finally, Spain should also be mentioned. Although the volumes lost amount to just 2 % of total exports, they nonetheless represent between 60 000 and 70 000 t by absolute value (of which 25 000 to 40 000 t for easy peelers alone).



#### **Major indirect effects**

While the indirect effects seem moderate, except for particular cases, we should not under-estimate the consequences of the at least partial transfer onto the Community market of other products traditionally exported to Russia. The case of the apple is obviously the most critical: of the 1.3 million tonnes imported annually by Russia, approximately 750 000 t comes from the European Community (of which 600 000 to 700 000 t from Poland). What will be the outlet for this produce, in the context of a particularly big harvest this season in Europe and in the United States, and of a saturated industrial outlet? The impact on the labels of the other fruit section staples, such as the banana or citruses, could be considerable, particularly from January to May when European exports to Russia peak ■

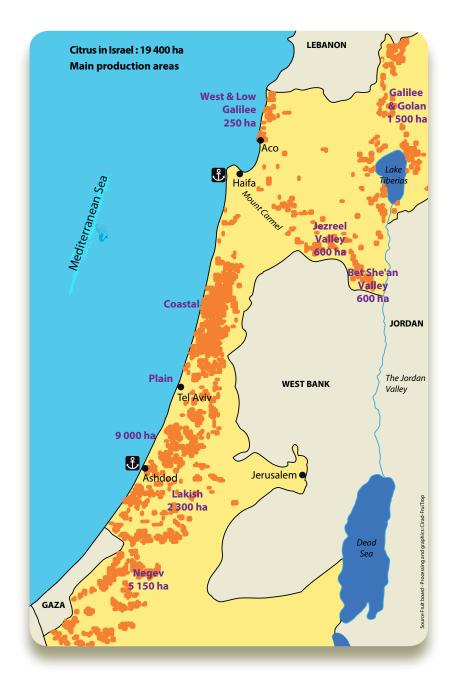
**Eric Imbert**, CIRAD eric.imbert@cirad.fr





#### Israeli citrus industry

In-depth restructuring to combat growing constraints



"Reinvention every day" must have been the guiding principle adopted by Israel's citrus producers, who have had to completely overhaul their production model over the past few decades to adapt to the new realities of the international market, and to an increasingly tough pedoclimatic and social context. FruiTrop offers you this review of an industry under heavy constraints, which has no choice but to keep moving forward.





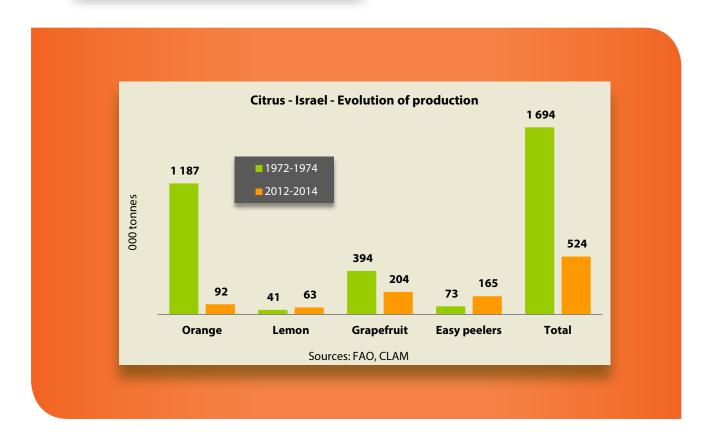


#### A long dark spell between the early 1980s and the beginning of the new millennium

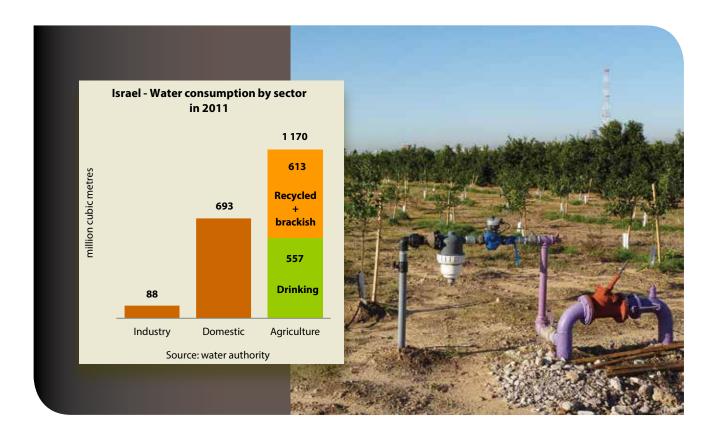
"Jaffa": this Israeli umbrella brand was such a vital player on the European markets during the 1970s that it was very much synonymous with citruses for many consumers. At this time, Israel was the world's third biggest exporter behind Spain and the United States, with volumes of between 650 000 and 700 000 t per season, mainly intended for Europe. This was a real feat if we bear in mind that two-thirds of the country are classified as an arid or semi-arid zone. But the skies gradually clouded over during the 1980s and 1990s.

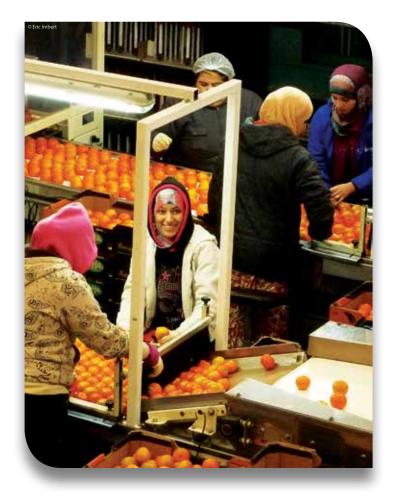
> Competition in Europe saw constant growth, with in particular the entry into the Common Market of big producer countries like Spain. In addition, the availability of certain major production factors became scarce. Hence the citrus growing industry entered a period of outright recession, with the cultivation area gradually shrinking, down from 42 000 ha at its peak in the late 1960s to 17 500 ha in 2003. The country's specialities, which had enabled the Israeli citrus growing boom but had become unprofitable, were the hardest hit by this uprooting trend. The most iconic of them, Shamouti, and more generally oranges as a whole, paid the heaviest toll. The cultivation area of this varietal group went from more than 24 000 ha in the late 1970s to 4 000 ha now (just under 1 500 ha for Shamouti). The white grapefruit also bore the consequences of this rationalisation trend, uprooted or replaced on a large scale by Sunrise (Star Ruby).









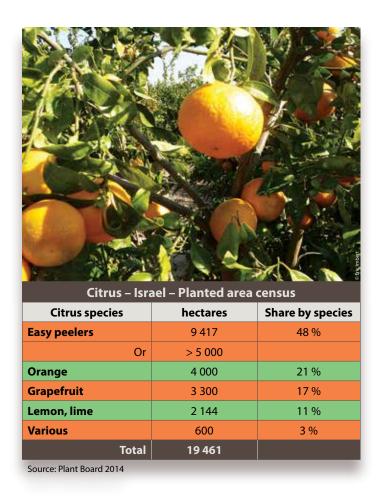


# Solutions for better access to key production factors

Two major challenges needed to be faced before things could start to pick up. The drastic fall in agricultural water allocations was definitely the most concerning point. A trend attributable to the deterioration of annual rainfall since the late 1990s and to increasing demand for drinking water, with the population having more than doubled between 1970 and today (5 million more inhabitants). It was desalination and above all recycling of household wastewater which enabled things to be turned around. Currently, re-use of nearly 80 % of the country's wastewater (100 % in the Tel Aviv region) covers over one quarter of the overall requirements, and provides more than 50 % of agricultural water, at a price practically less than half the rate of drinking water.

The shortage of agricultural labour is the other black spot which Israeli producers had to face from the early 1990s, especially after the closure of the territories from where many of the agricultural labourers came, following the two intifadas. The problem was resolved by bringing in foreign workers, primarily from Thailand.





## Stock reconstruction based on easy peelers as radical as it was redeeming

Yet it was also the launch of Or, the premium easy peeler variety developed locally by the Volcani Center, which helped Israeli citrus growing to bounce back. This term is no exaggeration since surface areas, which had fallen to 17 500 ha in 2003, have started growing again, now registering a level of approximately 19 000 ha. This variety is to this day a benchmark on the late easy peelers market. On its own it represents more than a quarter of Israel's cultivated surface areas, nearly 50 % rebuilt on easy peelers, a varietal group providing the high economic returns essential to citrus growing under the constraints inherent in Israel. Traditional varieties such as Minneola, Nova (Suntina) or Ortanique (Mandora/Topaz) represent less than 7 % of surface areas. Oranges come in second position, with just over 20 % of surface areas. There too, the traditional varieties (Shamouti, Valencia or Jaffa Late) are diminishing in favour of early Navel (Newhall) and late Navel. The grapefruit still represents 17 % of surface areas (30 % white and 70 % coloured), and the lemon, aimed at the local market – apart from exceptional exports - approximately 11 %. Hence the cultivation stock in the hands of Israel's 2 800 citrus producers is young (three guarters of the trees were planted after 2000), and completely restructured.





# Premium Grapefruit Exporters



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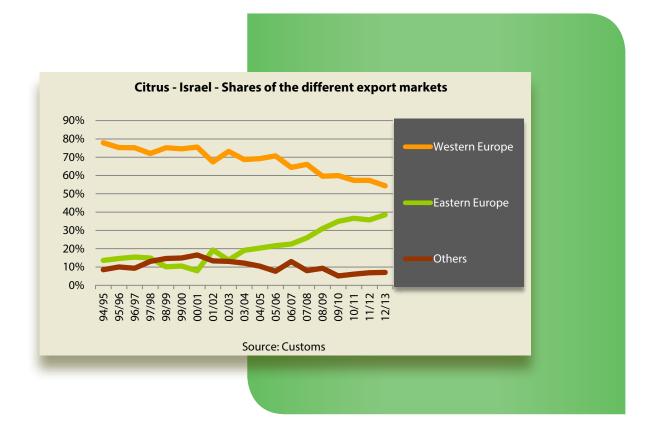
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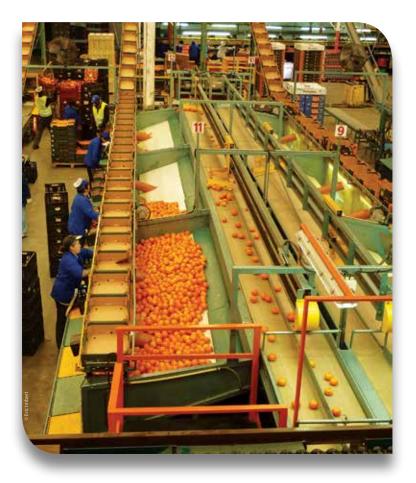
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## Reducing dependence on the European market

The industry has also worked downstream to reduce its heavy dependence on the Community market. Three quarters of Israeli exports were intended for the Old Continent in the early 2000s. Their share in recent seasons has barely exceeded 50 %. Trade diversification efforts have mainly focused on the East European markets. Russia is currently Israel's leading market, ahead of the United Kingdom and France. Exports intended for these countries, combined with those to Ukraine and the Baltic States, represent more than 20 % of total volumes (mainly easy peelers, including the premium variety Or, and grapefruit). Shipments to Scandinavia are also tending to become significant. Asia remains a strategic avenue, and Israeli exporters have not spared their efforts in getting to grips with the particularly restrictive sanitary protocols demanded by most countries in the zone. In particular, Israel is one of the few countries in the world able to export its produce to Japan without an outgoing inspection by the Japanese sanitary authorities. Nonetheless, sales remain modest.



## A new reconversion trend still in progress

As we have seen, Israeli producers have come a long way in the space of around thirty years. However, they must continue to move forward to remain competitive, given the production constraints and the changes both in demand and competition. The number one challenge is now the soaring production costs, which have gone up by approximately 30 % in five years, according to professional sources. They now exceed 10 000 USD/ha. This problem is all the more weighty since the shekel's strengthening against a good many currencies is weighing down on economic returns to producers. The Israeli currency climbed approximately 20 % against the euro and the dollar between 2009-2010 and the beginning of 2014. And now it is the turn of the coloured grapefruit to bear the consequences of a large-scale rationalisation trend. The drastic fall in demand and rise to prominence of competitors such as Turkey have meant that many plantations are no longer profitable. Surface areas, which had seen very considerable expansion after the collapse of Floridian production, are now going the other way: approximately 700 ha were uprooted between 2012 and 2014, i.e. just over 30 % of the cultivation area. Producers hope that this radical fall will be sufficient to restore an economic balance, before resorting to further uprooting if necessary.



# Easy peelers still with the wind in their sails, though producers are more cautious

Of course, it is the easy peeler family which has taken advantage of the surface areas vacated by the grapefruit. However, the planting rate has slowed down considerably since 2013. Or remains in favour with the producers, though they are more cautious since the current cultivation area will provide an ample production of approximately 200 000 t by three to four years' time. Furthermore, there is scarcely any alternative in terms of variety. The main new cultivars, on which producers now have some perspective, have their strong points, but are not entirely satisfactory. Tami, a hybrid of Temple and Michal bearing fruit in mid-season, struggles to colour naturally. Odem, derived from a mutation of Orah and Shani, often contain pips. The same observations can be made with the grapefruit: Aliza (hybrid of Orah and Chandler) has some particularly attractive characteristics

(lack of bitterness, low furanocoumarins content making it compatible with statin medications, original orange colour), but large promotion budgets would be required to publicise this very particular fruit. Hence it is primarily on Or that planting efforts should continue to focus for the forthcoming seasons (after completely halting for religious reasons in 2014-15), though still at a moderate tempo.

Nonetheless, there can be no doubt that valuable varieties will emerge in the medium term. Very many cultivars, selected for their regular productivity, being pip-free, their flavour, their resistance to *alternaria* and preservability are currently being tested. Israeli varietal research is among the most creative in the world, particularly thanks to the existing relationship between research (Volcani Center) and private partners, in the framework of varietal development projects. Meanwhile, it is once again on Or that the economic balance of the Israeli citrus growing industry will rest over the coming years

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### **World orange juice market**

A fall in rates against the trend?



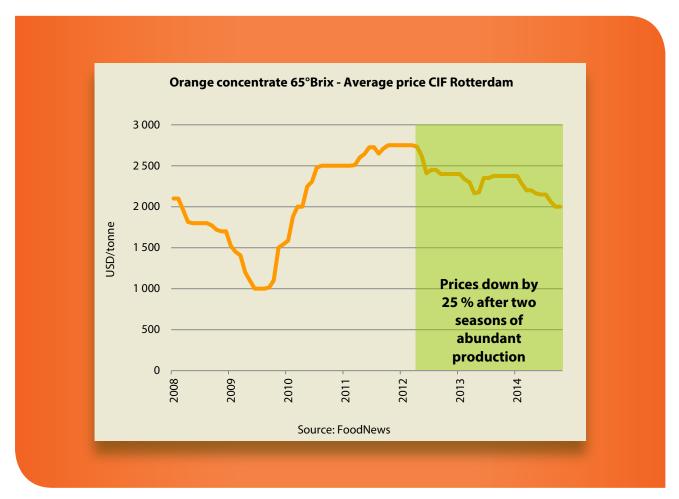
After several years of near bliss, gloom is once more prevailing on the orange juice market. Prices per tonne of concentrated juice have lost nearly 400 USD since the beginning of the year, reaching 2 000 USD into Rotterdam in October, their lowest level since early 2010. Has the market entered another downward spiral? The short and medium-term production forecasts of the two main protagonists, namely Florida and Brazil, and the latest worldwide consumption statistics, provide a clearer picture of the market's medium-term development.



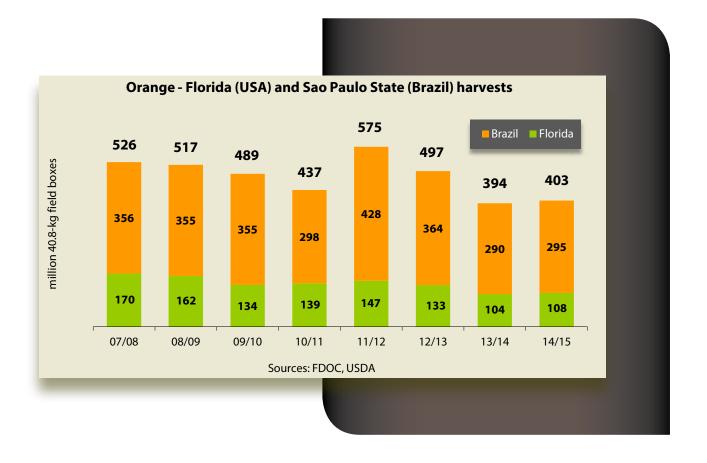
# Floridian production at its lowest level for 50 years

There is no risk of Floridian production, estimated at 108 million ninety-pound field crates (i.e. approximately 4.4 million tonnes) by the USDA, weighing down the market in 2014-15. Despite a slight rise of 3 % from last season, the production of the Sunshine State is still 20 % below average for the past four years, and is even approaching its lowest level for 50 years, a poor record largely due to the increasingly heavy consequences of greening. And the performance of previous seasons is even leading to questions whether this already very gloomy estimate is actually over-optimistic: the differences between initial forecasts and final harvests have exceeded 20 million boxes in recent seasons, because of the extent of physiological dropping occurring during autumn and winter.







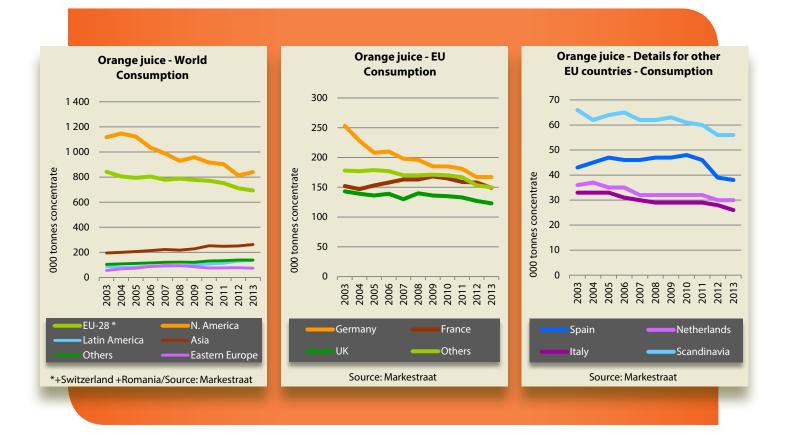




## Recovery expected in Brazil, at least on paper

The initial forecast distributed by Citrus BR in early May was reckoning on a production from the Sao Paulo region of approximately 309 million field crates (just over 12.5 million tonnes) - nothing to celebrate despite a small increase of 6 % from last season. Firstly, this level is still 10 % below average for the past four seasons. Secondly, it seems increasingly clear that it will never be reached. The drought, deemed "unprecedented" by some, which is ravaging in particular the centre of the Sao Paulo region, could lead to a considerable revision of the forecast, since fewer than 20 % of Brazil's orchards are irrigated. Furthermore, the GCON-CI consultancy group is already reckoning on a reduced harvest of 258 million field crates (10.5 million tonnes). In any case, even in the more than unlikely event of the Brazilian harvest meeting the higher estimate and zero physiological dropping in Florida, the combined production of the two leaders would register a level 13 % below the four-year average!





## Status quo for demand in 2013, a deceptively reassuring year

So it is once more demand that explains the major slide in rates. It is true that the background trend remains very poor worldwide, despite a slight cyclical upturn in 2013. In ten years the market has dropped by 10 %, i.e. approximately 260 000 t concentrate equivalent. The blame lies with the United States, where the 2014 figures have extended the downward sales trend of the past decade, demonstrating that the recovery of 2013 was utterly temporary and fragile. It also lies with Europe, the world's number two consumption market, since the big countries on the Old Continent are without exception exhibiting falling consumption, clearly so in certain cases. Sales have fallen by one third in ten years in Germany, the number one market in the zone. In France, volumes consumed have gone down 10 % in four years, while sales were holding up well until the end of the last decade. As for the United Kingdom, a regular falling trend has brought down the volumes consumed by 15 % in ten years. The Spanish market has literally plummeted since the economic crisis, losing more than 20 % of its volumes in three years, while Italy seems to be following in its footsteps.





## Relays for growth, but too small-scale

# Concentrated juice production well below demand one year in every two!



True, the dynamic on certain emerging markets remains lively. Despite falling sales in Japan, Asia is seeing rapid progress thanks to the booming Chinese market. Similarly, the sales invigoration programmes in Brazil are driving the South American market upward, whereas Argentina is rising just as steadily. However, these trends are completely unable to compensate for the decline of the North American and European giants, which on their own absorb 70 % of the world supply. Overall, consumption has been falling steadily by 26 000 t concentrate equivalent per year for the past decade.

Now it remains to consolidate supply and demand, a complex statistical task given the various sources available and the conversions to make to obtain consistent data. but oh how rewarding in terms of lessons. It appears that juice production exceeded demand just twice in the past ten years (in 2007-08 and 2011-12). There has been a major production shortfall (of between 200 000 and more than 400 000 t concentrate equivalent) one year in every two! The 2014-15 season also promises to be well in shortfall: even if we take the higher production estimates for the two giants, the shortfall would be around 270 000 t concentrate equivalent in 2014-15, assuming demand falling by approximately 25 000 t of concentrate per year (i.e. 230 000 to 280 000 t fresh fruit equivalent, depending on the yield counted).





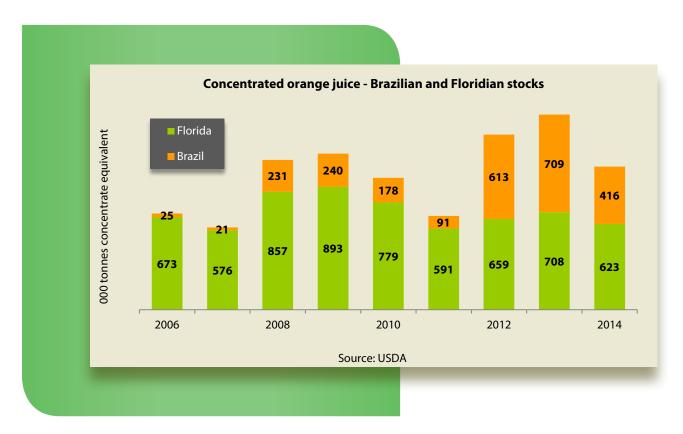
## Market still weighed down by heavy stocks

It is the weight of the stocks which explains the sluggishness of the market. For Brazil alone, they amounted to 766 000 t concentrate equivalent in summer 2013, after the country's last two big production seasons (2011-12 and 2012-13): a level corresponding to more than half a year of exports! Nonetheless, the situation seems to be clearing up. Stocks dropped by more than 230 000 t in 2013-14, and should do the same in 2014-15, given the expected production from the two leaders. Several sector analysts are forecasting a level of approximately 350 000 t at the end of the 2014-15 season.

It is difficult in this context to understand the current trend in rates. How can we explain a fall of 15 % since January, and a market continuing to drop over the long term, while a clear shortfall between supply and demand will remain in 2014-15, and the weight of stocks will be considerably eased from last season? It has to be observed that the markets are once more giving much more weight to falling demand, with the message hammered home by most of the professional press, than to the supply. Should we see in this a desire by the handful of sector giants to keep rates low in order to force small producers out of the trade, in order to even further dominate the supply and eliminate the orchards with the lowest sanitary controls? The multi-million dollar takeover bid for Chiquita by the Cutrale/Safra consortium indicates that the business is still highly profitable for the juice manufacturers.

### Less and less from Florida, pending the results of the research efforts

The medium-term production projections are clear, showing that volumes available for processing should remain very limited over the next ten years. There is no bounce-back expected in Florida. According to the latest scenario put forward by FDOC, production should continue to drop for the next ten years at least, reaching 86 million field crates in 2023-24 (as opposed to a forecast of 108 million this season). Maintaining a good level of economic returns for the producer has only slowed down the phenomenon of cultivation area shrinkage. The planting rate remains very low (approximately 2 % per year), and half that of cultivation area shrinkage (approximately 3.5 % per year). Yet the major consequence of greening, which has become omnipresent (between 40 and 70 % of trees affected), is the collapsing trend in volumes produced, because of the small fruit size range and a dropping rate which has gone from 10-15 % to 25 %, depending on the varieties. Massive efforts are still being made to find resistant varieties, thanks to massive State budgets (30 million USD programme announced this summer), producers and also the support of big groups such as Coca Cola (500 000 USD per year since 2011). These efforts are starting to bear fruit: five rootstocks exhibiting good resistance in certain soil types (though not the sandy soils of central Florida) were just released in early October by the USDA. However, it will take years before they have been reproduced, planted and have borne their first fruits. Furthermore, the resistance of the rootstock does not mean resistance of the fruit-bearing part.







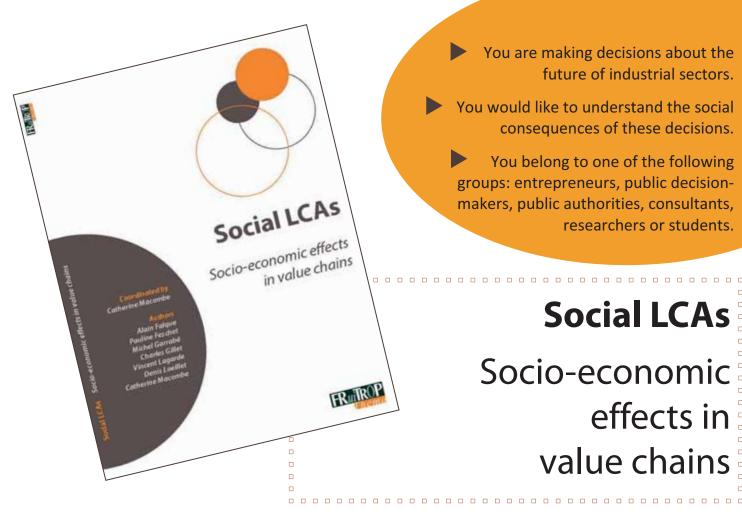
# Brazilian production heading for stability as things stand

Brazil's production potential is just as seriously afflicted. The inspection methods developed in recent years are helping contain greening, but the small producers cannot afford them. Hence the latter are continuing to leave the business en masse: reportedly 4 000 in the past two years. Consequently, the cultivation stock lost more than 60 million trees between 2010 and 2013, and is increasingly concentrated in the hands of the big producers (plantations of more than 200 000 trees reportedly represent more than 40 % of total surface areas). In this context, the ten-year production projection, just issued by the Brazilian Agriculture Ministry, is reckoning on only a slight production rise of less than 1% per year. According to this document, the country's total harvest should hold up at between the 400 million field crates from 2013-14 and the 430 million expected this season.

# Juice production to maintain a considerable shortfall in the medium term

If we accept the projections for Brazil and Florida, assuming demand maintaining its very steady rate of fall of recent years (- 26 000 t concentrate equivalent per year), juice production should remain well below world demand. Considering stable production by the rest of the world, it would fluctuate around a level of approximately 1.8 million tonnes throughout the period, with demand gradually waning by 2.1 million tonnes in 2015-16 to just under 1.9 million tonnes in ten years; which is reason to continue large-scale destocking over the coming years. True, these are rough projections, and the Chinese production trend in particular is still to be incorporated (see **FruiTrop** 216). However, they at least have the merit of showing that the balance is, currently and over the coming years, tilting towards a shortfall of fruits for processing than lack of demand, and that the pressure from stocks should automatically ease as time goes on. This hypothesis argues in favour of an upturn in rates! In any event, this is a necessity for Brazil's small and medium producers ■

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## Social LCAs

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## Citrus

## pests and diseases

There are numerous pests and diseases, which can have serious economic impacts, possibly requiring quarantine (material subject to regulations concerning movement) and the prohibition of exports to other production zones to avoid the spread of harmful organisms. The use of tolerant rootstocks is an effective measure in the control of several organisms, but the choice of variety is often dictated by the market. In addition to the production of healthy plant material, the control of these pests and diseases generally combines genetic, biological and chemical components in an integrated control framework.

	o E Laville	o F. Citheau	O CIMID 9		
Citrus	Tristeza Virus: Citrus Tristeza	Huanglongbing (greening) Phloem: Liberibacter africanum,	Citrus canker Bacterium: Xanthomonas		
diseases	Closterovirus	L. asiaticum	axonopodis pv. citri		
Distribution	All regions except some Mediterranean countries.	Asia, subtropical and tropical Africa, Middle East.	Asia, South America, Florida, certain regions of Africa.		
Symptoms	Dieback of varieties grafted on sour orange (except lemon trees), vein clearing and stem pitting.	Shoot yellowing, leaf mottling, small poorly coloured fruits.	Corky pustules on leaves and fruits.		
Susceptible species	Lime, orange and grapefruit trees.	Broad host spectrum. Affects orange and mandarin above all.	Broad host spectrum. Above all grapefruit, orange, lime and some mandarins.		
Transmission	Aphids (Aphis gossypii, Toxoptera citricida).	Psyllas ( <i>Diaphorina citri, Tryoza erytreae</i> ).	By air and water.		
<b>Economic impacts</b>	Loss of trees and decreased production.	Tree dieback, shorter orchard life.	Harvest loss.		
Quarantine organism	Present in the EU.	Not present in the EU.	Not present in the EU.		
	© D. Vincenot, SUAD Reuni	ement (VIS), tourning (C	o Vitardebouni		
	Fruit fly	Thrips	Diaspine		
Citrus pests	Diptera Tephritidae: various species of the genera Ceratitis, Anastrepha, Dacus, Bactrocera, etc.	Thysanoptera: thripidae. Scirtothrips spp. (S. aurantii, S. citri, S. dorsalis)	Hemiptera: Diaspididae. Genera Aonidiella, Unaspis, Chrysomphalus, Cornuaspis, etc.		
Distribution	American continent: Anastrepha. Africa: Ceratitis, Dacus. Asia-Pacific: Bactrocera.		Variable according to the species. Present in the Mediterranean area: Aonidiella aurantii, Cornuaspis beckii, etc.		
Symptoms	Holing caused by females laying eggs in the fruits.	Greyish patches in a ring around the fruit stalk (thrips feeding on young fruits).	Scale on leaves, shoots and/or fruits, trees weakened in case of large populations.		
Susceptible species	Mandarin, orange, grapefruit. Mandarins and thin-skinned oranges susceptible.	Orange, mandarin, tangor, tangelo, lemon, etc.	Broad host spectrum.		
<b>Economic impacts</b>	Harvest loss.	Deterioration of the external appearance of fruits.	Deterioration of the external appearance of fruits.		





# **Citrus cultivation**

Photos © Eric Imbert

The world's leading fruit crop grown between the latitudes 40° N and 40° S, citrus fruits were domesticated in Asia. Ancient texts refer to sour citrus fruits in India from 800 BC onwards, and mandarins, oranges and grapefruit in China at the time of Confucius. Trade and military conquests contributed strongly to the spread of citrus. This was first overland via Asia Minor and the Middle East as Roman and Greek influence spread (citron fruit, bitter orange) and then through Islam and the Crusades (sour citrus). The citron fruit was the first species grown in the Mediterranean several centuries before the Common Era. New citrus fruits

such as sweet oranges were introduced around the Mediterranean basin in the sixteenth Century thanks to Portuguese navigators and the possibility of direct maritime trade with the Far East and China. These species were then disseminated in Africa and America. The first mandarins were introduced in the Mediterranean region much later. The fruit is mentioned at the beginning of the Nineteenth Century in Italy and not until 1850 in North Africa. However, the Mediterranean has been an important diversification zone for the three most important economic species—orange, mandarin and lemon. The grapefruit, C. paradisi, a natural hybrid of shaddock, is one of the few commercial citrus fruits to have originated in the Caribbean.

#### **Agronomy**

The most suitable soils for growing citrus are slightly acidic and well-filtering. The choice of rootstock is one of the essential factors for success, giving tolerance or resistance to biotic (soil pests and diseases, degenerescence diseases) and abiotic constraints (acidic or alkaline soils, salinity, reaction to cold or drought, etc.). It strongly influences factors such as vigour, the start of production and fruit yield and quality. The risk of contamination by tristeza has led to favouring *Poncirus* hybrids (Citrange, Citrumelo) as a replacement for sour orange. Disease-free plant material must be used. Today, new rootstocks are bred by hybridisation or the use of biotechnologies.

Certification plans have been set up in many countries. They combine the use of healthy plant material and prevention of possible recontamination by inoculum or a disease spread by an insect vector by siting outdoor nurseries in clean zones or by sheltered production in risk zones. The rootstocks are sown, replanted and then shield budded or chip budded, using a bud from a shoot of the desired variety.

It is recommended that the base of the trunk should be set in a slightly raised position at planting to limit attacks by *Phytophthora*. Tillage is reduced after planting so as not to damage the surface roots. The base of the trunk must be weeded. The maintenance technique used (permanent plant cover, chemical or mechanical weed control) depends on soil/climate and economic constraints.

Preliminary pruning is performed in the early years. Annual maintenance pruning then balances and aerates the foliage and ensures the renewal of fruit-bearing shoots. Irrigation is essential in dry areas and can be in the form of subfoliar sprinkling or trickle irrigation (soakers, drip, etc.). Fertilisation can be combined with irrigation in this case (fertigation) to save inputs and ensure steady mineral nutrition.

Mineral fertilisation must make up for losses via fruits and pruning and ensure the growth of the vegetative organs. Fertilisation includes nitrogen, phosphorus and potassium. Trace elements are sprayed on the foliage. Fertilisation is based on the results of mineral analyses of leaves and soil.

Among growth regulators, gibberellic acid improves the setting of clementines and synthetic auxins increase fruit grade.



# The influence of climatic conditions

Citruses originated in south-east Asia. The climate there is equatorial, tropical or subtropical according to the latitude and always strongly marked by a monsoon regime. The year features a hot, humid season (the monsoon season) and a fairly rain-free, often cooler season. The developmental cycle of citrus is keyed into these seasons. The hot, humid period is one of intense physiological activity, with shoot and fruit growth. Vegetative growth halts in the cool, dry period, a feature all the more marked when drought is severe or temperatures low. A marked halting of vegetative growth is essential before any flowering of certain citruses such as mandarin, orange, grapefruit and shaddock. Others with repeat-flowering such as citron, lemon and lime have less strict requirements but react to the same phenomena.

Temperatures between 21 and 30°C are optimum for physiological activity. This is strongly reduced when the temperature is lastingly and significantly higher than 35°C or lower than 13°C. Citrus growing is in fact limited by threshold and ceiling temperatures. Citrus trees are partially or totally destroyed at temperatures lower then 0°C. The extent of the damage depends firstly on frost duration and intensity and secondly on the susceptibility of plant parts and the type of citrus. Thus flowers, young leaves and fruits are more sensitive than branches and trunks. Citron, lime and lemon are more sensitive than mandarin, orange and grapefruit. Temperatures lower than -7°C are generally lethal for citrus trees. Temperatures higher than 50°C also cause damage.





Strong insolation is also better tolerated when the water supply is satisfactory. Irrigation must be used in citrus growing in arid or very dry regions. Plant water requirements are directly correlated with the climatic parameter total radiation (the main feature) related to insolation, temperature, wind, relative humidity, etc. These parameters are used in water requirement models and irrigation management tools.

Temperature plays an important role in the changes of fruit pigmentation as maturity approaches. Temperatures lower than 15°C cause the disappearance of chlorophyll pigments from the epidermis. This reveals carotenoid pigments. The synthesis of carotenoids (yellow and orange) and lycopene (red, specific to shaddock and grapefruit) is enhanced by a temperature of between 15 and 35°C. Red anthocyanin pigments (blood oranges) require lower temperatures but still higher than 12°C.

The synthesis and senescence of the various pigments are thus strongly affected by ambient temperature. In the tropics, the absence of low temperatures means that chlorophyll pigments do not disappear and the fruits remain green. Anthocyanin synthesis does not take place for the same reason and blood oranges remain blonde. In contrast, the red pigmentation of grapefruit is more intense. The alternate high daytime temperatures and cool nights in Mediterranean zones create an optimum environment for the breakdown of green chlorophyll pigments and the synthesis of the yellow, orange and red pigments of the various types of orange, mandarin and lemon. The external colour of the fruits is thus very well expressed.





# Main citrus varieties

photos © Régis Domerque

#### **Easy peelers**

#### Clementine

This group of varieties is probably the result of hybridisation of *Citrus deliciosa* and an orange. Its success — considerable around the Mediterranean — is related to the useful fruit characteristics (seedless in pure plantations, good colour and flavour) combined with a long sales period. Indeed, clementines are present on markets in the Northern Hemisphere from the end of September to the end of February thanks to the different cultivars (Marisol, Oroval, Oronules, Nules, Common or Fine, Hernandine, Nour, etc.).





#### Nova

Present on markets from mid-November to January, this medium-sized fruit is the result of a cross between common clementine and Tangelo. It has useful qualities: marked skin colour, a deep orange tender juicy seedless pulp, and sweet flavour with low acidity. The fruits must nevertheless be picked rapidly to prevent swelling of the peel. It is widely grown in Spain (Clemenvilla), Israel (Suntina) and Morocco.







#### Minneola

A hybrid between tangerine and grapefruit, this large round fruit is characterised by a pronounced stem-end neck. The peel is a particularly strong reddish orange colour. The pulp, with few seeds, has a very special flavour. The variety is grown mainly in Israel and Turkey.







#### **Orange**

#### Valencia late

Originating in the Azores, Valencia is the most commonly planted variety in the world. This medium-sized variety is round and slightly oblong. The peel is thin, well-coloured and slightly grainy. The flesh is very juicy, with 2 to 4 seeds. It is also known as Maroc Late (from Morocco) and Jaffa Late (from Israel).

#### Navel

A round to oval dessert orange with a strongly developed navel. The peel is grainy, thin and fairly well coloured. The flesh is crisp, fine and not very juicy. Early cultivars (Naveline) and late cultivars (Navelate, Lane Late) in the Navel group are available on Northern Hemisphere markets from October to May.

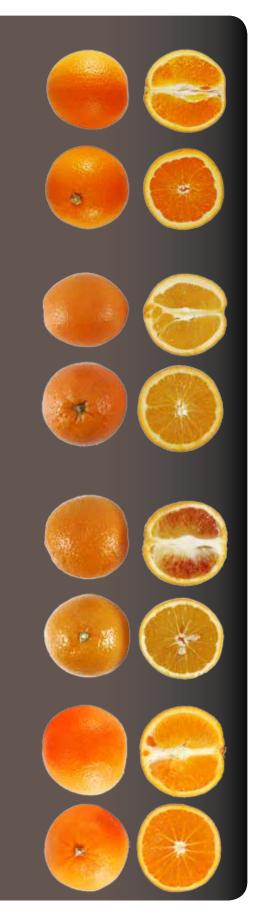
#### Maltese

This high-quality well-coloured orange is grown almost only in the Cape Bon region of Tunisia, where conditions bring out its full potential. It is medium-sized and slightly oval. The soft peel is slightly grainy and easy to remove. The tender, juicy flesh is little coloured for a blood orange. The flavour is particularly pleasant with sweetness balanced by a good level of acidity.

#### Salustiana

Very popular in Spain, this blonde juice orange is medium-sized to large. The peel is of medium thickness with fine granulation. The flesh is delicate and sweet with a very pleasant taste. It is also seedless.





#### Lemon

#### Eureka

This variety, little planted in the Mediterranean, forms the greater part of world production. It is widespread in the Southern Hemisphere. The fruit is of average size, elliptic to oblong in shape with a medium-sized apical nipple that is slender at the base. The peel is fine to medium thick. The pulp is generally seedless and rich in juice with high acidity.



#### **Fino**

This cultivar dominates Spanish production and is much grown in the Murcia region. The fruit is a regular spherical or oval shape. The nipple is shorter than that of Verna. The peel is thin and smooth. The pulp contains 5 to 8 pips and is juicier than that of Verna.





#### Verna

The fruit is medium to large with a pronounced, broad-based nipple. The rough epidermis is fairly thick. The juice has high acidity but only a medium extraction yield. One of the main Spanish varieties.





#### Limes

The Tahiti lime (*Citrus latifolia*) is a triploid variety and is the most widespread of the sour limes. The peel is green/yellow to pale yellow and contains an essential oil with a very characteristic odour. The pulp is generally seedless, yellowish green and rich in very sour juice. Another variety, Mexican lime (*Citrus aurantifolia*), is little exported as it contains a large number of seeds.













# Citrus harvesting and storage

Citrus fruits are not climacteric, so their quality does not improve after harvesting. Suitable storage can slow their development: an appropriate positive temperature, 85 to 90% relative humidity and ventilation. Fruits must be harvested at a stage of maturation close to optimum ripeness—and hence optimum quality. Quality is characterised mainly by the juice content, the dry extract/acidity ratio and flavour. Fruits must be handled with care during the harvest and not be wetted, so as to limit subsequent risks of physiological deterioration or the entry of pathogens. Transport to the packing stations must be carried out as soon as possible.

# Degreening and storage

As fruits approach the ripe stage, green chlorophyll pigments disappear gradually, revealing the other yellow, orange and red epidermis pigments. This change requires cool temperatures lower than 13°C. These temperature conditions are not found in the tropics or in a Mediterranean climate in early autumn when the early varieties are picked. The fruits therefore remain green or are poorly coloured. Degreening is possible if significant breakdown of chlorophyll pigments has started naturally. Degreening is performed by placing the fruits in a chamber with a controlled atmosphere containing 1.0 to 5.0 ppm ethylene. The temperature is set at 22 to 25°C for oranges, and at a lower temperature for lemons, with relative humidity of 85 to 90%. The technique reduces storage time since ethylene stimulates senescence in citrus fruits. The duration of chilled storage can be lengthened by the application of wax or a stretch film reducing respiratory exchange and water loss. In contrast, controlled atmospheres have little or no effect.

# Physiological deterioration

This is caused mainly by impacts in the orchard that are revealed later or during storage.

**Frost:** in the orchard or after the harvest. The skin looks wet and translucent and the segments dry out.

**Chilling injury:** exposure to temperatures that are above freezing point but lower than the optimum storage temperature. They cause the bursting of the essential oil glands, resulting in the burning of tissue and the appearance of small sunken brown spots on the peel; these may become coalescent. Fungal damage may subsequently occur.

**Oleocellosis:** caused by temperature variations in the field or bruising during harvesting or storage. Symptoms are very similar to those of chilling injury.

**Abrasion by brushing:** caused by skin fragility, the use of brushes that are too hard or by too high a brushing speed. The upper layers of the skin are eroded, resulting in dry patches of varying width and flow of essential oil that burns the tissue.

#### Fungal damage

More than 75% of postharvest citrus rots are caused by two *Penicillium* moulds (*P. italicum* and *P. digitatum*). Some rots should not appear during storage if harvesting is performed carefully:

- bitter rot caused by Geotrichum candidum affects fallen fruits or fruits soiled with earth:
- Cladosporium herbarum causes symptoms similar to those of Alternaria citri. Contamination by rotting, infested plant wastes occurs during harvesting;
- black mould rot of peel caused by Aspergillus niger affects wounded or damaged fruits stored at a temperature of over 15°C;
- infection in the orchard by Botryosphaeria ribis, Physalospora rhodina or Diaporthe citri causes a brown and then blackish rot of the skin and the underlying tissues in the stalk zone during storage. It is controlled by orchard or postharvest treatments.

Post-harvest diseases	Blue mould Penicillium italicum	Green mould Penicillium digitatum	Black rot Anthracnose Alternaria citri	Brown patch Glomerella cingulata (= C. gloeosporioides)	Brown rot Phytophthora sp.
Symptoms and part of fruit affected	Paling and softening of the skin; white down (mycelium) then appears; covered with blue spores; pulp affect- ed simultaneously.	Slight paling and softening of the epidermis; then bright white down grows in circular layers, covers with green spores from the centre. The entire fruit (peel, pulp) is finally affected, fruit cannot be eaten from the beginning.	Black rot on columella and segments, and/or peel.	Spotting of unripe fruits developing into brown patches that become soft with ripening and then affect the pulp. Marked odour. Degreened fruits very susceptible.	Start: spotted discoloration of peel and then spread of the patches; variable colour with brown patches and finally fruit disintegration. In storage: fine white mycelium with brown areas; characteristic odour.
Infection pathway	Spores on intact epidermis, fruit to fruit contamination.	Spores on wounded epidermis.	Wounds, penetration by the navel and the style scar.	Fruits wounded in the field.	Spores on intact epidermis.
Site of infection	From packing to consumption.  In the orchard, but above all from picking to consumption.  Orchard and warehouse.  Orchard.		Orchard.	Orchard: splashing with water. Packing: contaminated washing water. Storage: fruit to fruit contamination.	
Species and varieties susceptible	All varieties.	All varieties.	Navel orange, madarin, lemon.	All varieties, but above all mandarins.	All varieties (orange more susceptible).



# Wholesale market prices in Europe

#### October 2014

					EUROPEAN UNION - EURO				
					Germany	Belgium	France	Holland	UK
AVOCADO	Air	TROPICAL	BRAZIL	Box			14.80	15.50	
			DOMINICAN REP.	Box			13.40		
	Sea	ETTINGER	ISRAEL	Box	5.75		7.25	7.95	
		HASS	BRAZIL	Box	12.00				
			CHILE	Box	12.00		11.13		
			COLOMBIA	Box	12.00		11113	12.15	
			KENYA	Box			10.42	12.13	
			MEXICO					12.50	
				Box			10.50	13.50	
			PERU	Box	10.00			13.00	
			SOUTH AFRICA	Box	12.00				
		NOT DETERMINED	BRAZIL	Box					11.38
			SOUTH AFRICA	Box					10.12
		RYAN	SOUTH AFRICA	Box	6.25			6.25	
	Truck	BACON	SPAIN	Box				6.00	
		NOT DETERMINED	SPAIN	Box					10.75
			T =	1.					
BANANA	Air	RED	ECUADOR	kg				4.88	
		SMALL	COLOMBIA	kg			6.90		
			ECUADOR	kg				5.33	
	Sea	RED	ECUADOR	kg				1.76	
		SMALL	ECUADOR	kg			1.70	2.65	
							1.70	2.03	
CARAMBOLA	Air		BRAZIL	kg					4.21
			MALAYSIA	kg			4.43	5.22	
	Sea		MALAYSIA	kg			5	3.22	3.62
	Jea			ı ng	1				3.02
CHAYOTE	Sea		COSTA RICA	kg				1.40	
						,			
COCONUT	Sea		COSTA RICA	Bag				15.50	
			COTE D'IVOIRE	Bag			16.25	11.92	13.91
			DOMINIQUE	Bag					13.91
			SRI LANKA	Bag				20.00	11.06
DATE	Sea	MEDJOOL	ISRAEL	kg	7.00		8.00	7.20	7.59
			PERU	kg				6.00	
		NOT DETERMINED	EGYPT	kg					4.74
			IRAN	kg		3.00			
			TUNISIA	kg					2.11
						'			
EDDOE	Sea		COSTA RICA	kg			2.50	1.99	
			T						
GINGER	Sea		BRAZIL	kg			3.80		3.54
			CHINA	kg	3.46		3.50	3.59	3.28
			PERU	kg				3.50	
CHANA			DD 4.711	1.		T	7.50		
GUAVA	Air		BRAZIL	kg			7.50	6.77	
	Sea		BRAZIL	kg					2.31
KIIMOHAT	Δ:,,		DDAZII	l. a.					2 21
KUMQUAT	Air		BRAZIL	kg	+			6.00	2.31
			ISRAEL	kg				6.02	
			SOUTH AFRICA	kg			5.50		
		,							
LIME	Air		BRAZIL	kg			4.50		
	Sea		BRAZIL	kg	0.94	1.06	1.43	1.07	1.62
			COLOMBIA	kg				0.67	
			KENYA	kg	1				2.25
			MEXICO	kg	0.94	1.22	1.69	0.96	1.26
	_		,		, 0.5-f	1.22		0.50	1.20
LONGAN	Air		THAILAND	kg				8.35	
	Sea		THAILAND	kg				3.92	
MANGO	Air	KENT	BRAZIL	kg			6.00	5.13	
		NAM DOK MAI	THAILAND	kg				8.60	
		PALMER	BRAZIL	kg				3.71	
	Sea	ATKINS	BRAZIL	kg	2.38			2.88	1.54
		KEITT	ISRAEL	kg					2.04
	Truck	KENT	SPAIN	kg			4.60		2.07
	HUCK	OSTEEN	SPAIN	kg	2.75		2.75		2.29
		OJILLIN	D. VIII	NY	2./3		2./3		2.29
MANGOSTEEN	Air		INDONESIA	kg				7.65	
			MALAYSIA	kg				7.93	
			THAILAND	kg			9.00	7.25	
				y			2.00		



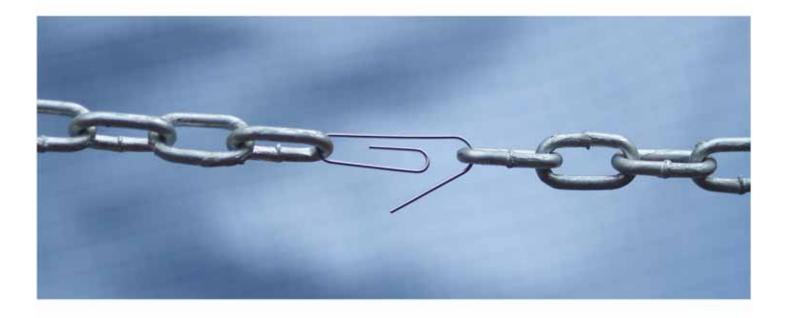
					EUROPEAN UNION - EUROS				
					Germany	Belgium	France	Holland	UK
MELON	Sea	CANTALOUP	BRAZIL	kg				1.90	2.31
			TURKEY	kg				1.51	
		GALIA	BRAZIL	kg				1.90	2.44
			EGYPT	kg		1.70			1.95
		HONEY DEW	BRAZIL	kg				1.00	1.16
		PIEL DE SAPO	BRAZIL	kg				0.98	
		SEEDLESS WATER	BRAZIL	kg				1.06	1.04
		WATER MELON	BRAZIL	kg	1.05			1.00	1.11
PAPAYA	Air	FORMOSA	BRAZIL	kg		3.00	3.50	3.20	
	7	NOT DETERMINED	BRAZIL	kg		3.57	3.40	3.43	3.52
			COLOMBIA	kg		0.07	51.10	51.15	2.90
			THAILAND	kg				4.81	
	Sea	FORMOSA	BRAZIL	kg				2.59	
			ECUADOR	kg				2.38	
			1		1				
PASSION FRUIT	Air	NOT DETERMINED	COLOMBIA	kg	4.75	5.75	5.50	5.75	
		PURPLE	KENYA	kg		5.75		5.00	4.43
			VIETNAM	kg			7.50		
		\/F!   Q\\\	ZIMBABWE	kg		5.75		5.25	
		YELLOW	COLOMBIA	kg				7.86	
PHYSALIS	Air	PREPACKED	COLOMBIA	kg			8.50	8.92	7.12
	Sea		COLOMBIA	kg	5.00			5.77	
PINEAPPLE	Air	VICTORIA	MAURITIUS	Box				13.88	
			MAURITIUS	kg			3.55		
			REUNION	kg			4.20		
		140.0	SOUTH AFRICA	Box	7.50	7.75		12.15	
	Sea	MD-2	COSTA RICA	Box	7.50	7.75	0.00	6.38	
			COSTA RICA	kg			0.90		
			COTE D'IVOIRE	kg			1.00	6.75	
			PANAMA	Box				6.75	
PITAHAYA	Air	RED	ISRAEL	kg				6.09	
			THAILAND	kg			7.75	6.52	
			VIETNAM	kg			7.75	6.87	
		YELLOW	COLOMBIA	kg				9.33	
			ECUADOR	kg				8.40	
		-	ISRAEL	kg				7.17	
PLANTAIN	Sea		COLOMBIA	kg			1.14		
	Jeu		ECUADOR	kg			1.05	0.99	
					1				
RAMBUTAN	Air		THAILAND	kg			9.00	7.93	
			VIETNAM	kg			9.00	7.50	
SAPODILLA	Air		THAILAND						
SWEET POTATO	Sea	NOT DETERMINED	EGYPT	kg			1.10	0.86	
			HONDURAS	kg					1.63
			ISRAEL	kg			1.80	0.97	1.05
			SOUTH AFRICA	kg					0.76
		WHITE	HONDURAS	kg				1.55	
TAMARILLO	Air	<u> </u>	COLOMBIA	kg				7.20	
				13					
TAMARIND	Air		THAILAND				3.08	3.07	
YAM	Sea		GHANA	kg			1.40	1.08	
TAIVI	)ea		UNAINA	ку	1		1.40	1.00	

Note: according to grade

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These prices are based on monthly information from the Market News Service, International Trade Centre UNCTAD/WTO (ITC), Geneva. MNS - International Trade Centre, UNCTAD/WTO (ITC), Palais des Nations, 1211 Geneva 10, Switzerland — T. 41 (22) 730 01 11 / F. 41 (22) 730 09 06

# Information... your weak link?



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