

Pontificia Universidad Católica de Chile Facultad de Agronomía e Ingeniería Forestal Doctorado en Ciencias de la Agricultura

CLEMENTINE

Dra. Johanna Mártiz M.

Ing. Agr. Master en Citricultura

Julio Cornejo M.

Ingeniero Agrónomo Agroconsultores Ltda

Clemenluz was originated in 1998 from a spontaneous mutation of Clemenules

Early-season maturing variety

In the central valley of Chile this variety matures early in may (middle of autumn), three weeks before Clemenules.



It can hold fruit quality characteristics through june

PERIOD OF HARVEST FOR MANDARINS IN THE CENTRAL VALLEY IN CHILE

MARCH	APRIL	МАУ	JUNE	JU	LY	AUGL	JST	SEP	TEMBER	OCTOBER
	(CLEMENLU	z							
			CLEMEN	IULES						
					V	W. MURCOTT				
						TANG	0			
							FORT	UNA		
						FDE 3 ?				
							TDE 2	- TD	E4?	
					TA	CLE ?				
						Γ	/IAND	ARED	?	
									MAND	ALATE ?



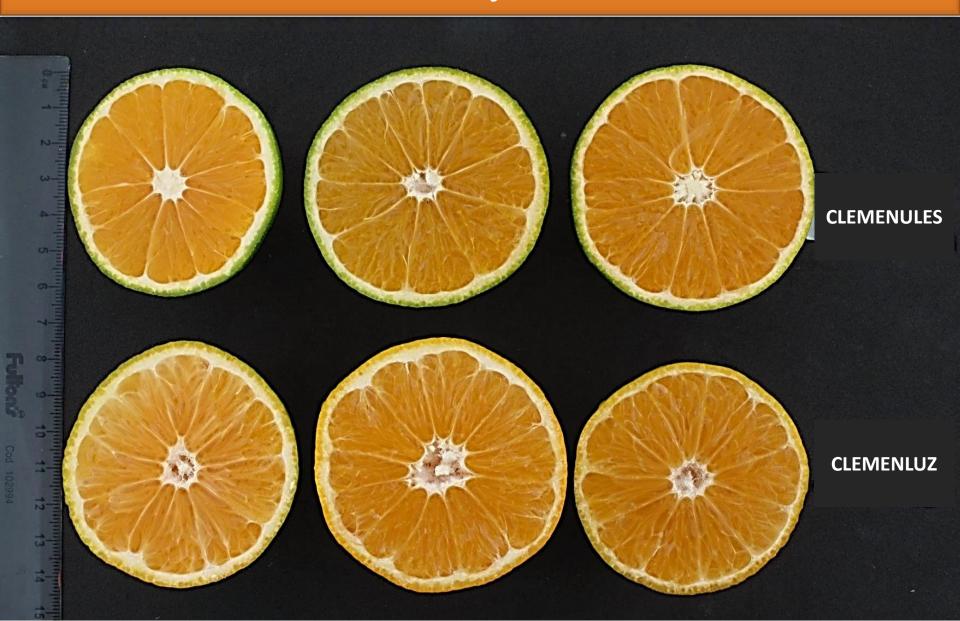
Starting harvest, sugar content is lightly higher in Clemenules, but Clemenluz reaches better rind color, larger fruit size, less acidity and higher soluble solid/acidity ratio, allowing an earlier harvest.

Fruit peelability is similar to Clemenules, with a smooth skin but the juice vesicles are more prominent and crunchy.

CLEMENLUZ compared with CLEMENULES. Harvest: may 18th, 2013



CLEMENLUZ compared with CLEMENULES. Harvest: may 18th, 2013





FRUIT QUALITY CHARACTERISTICS FOR CLEMENLUZ AND CLEMENULES

	Mariatu		Color	Color		Soluble	%	SS/Ac ratio
	Variety	Weight (gr)	(1-8)	(ICC)	% Juice	solid	Acidity	
May 2013	Clemenluz	115,6	6,0	2,9	45,9	11,5	1,4	8,2
	Clemenules	100,6	3,2	-7,2	44,0	12,8	1,6	8,2
May 2012	Clemenluz	105,0	3,9	0,3	50 <i>,</i> 3	11,7	1,2	9,9
	Clemenules	<mark>82,</mark> 0	2,5	-9,3	54,2	11,9	1,6	7,9

Fruit has a very deep orange rind color when it is degreened



This variety has thorns (1 to 2 cm length) in water sprouts and they are reduced in sprouts. It is not a problem for the fruit.

It can develop seeds in all cross-pollinated situations

Fruit is located at the end of the sprout with only one fruit per sprout











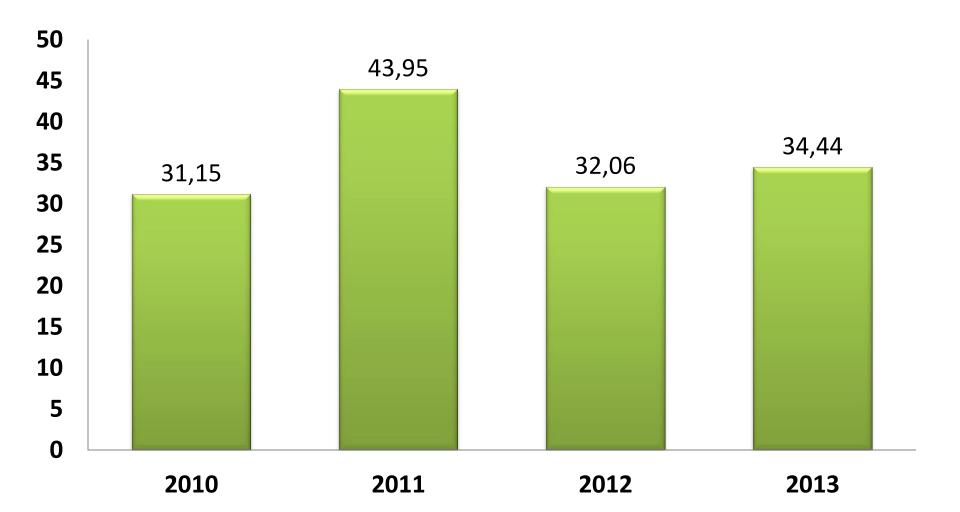
Clemenluz has a very good behavior when sintetic auxins is applied to increase size.



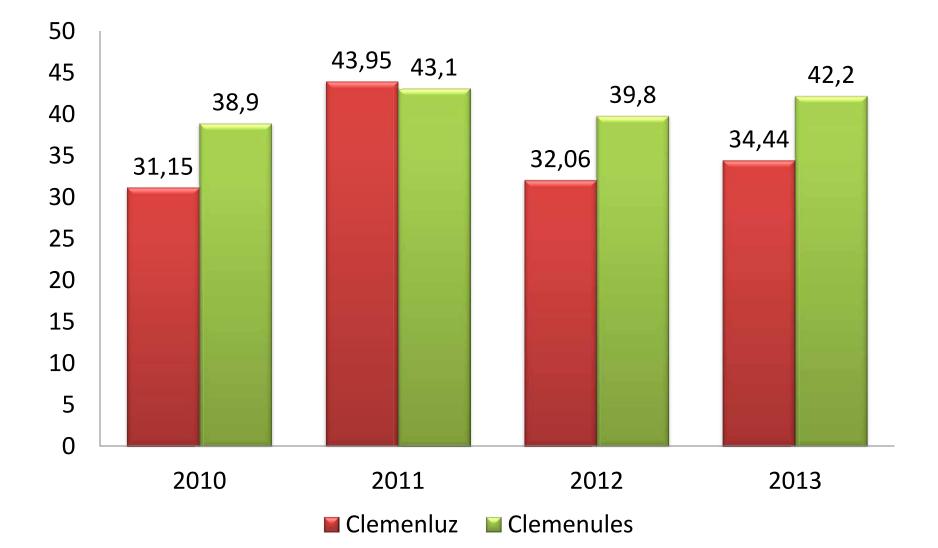
Fruit size is medium to large (over 55 mm) averaging 90 grams per fruit with a very good production (Average: 35 Ton/ha from the sixth year)

Pack out is over 85%.

Clemenluz production Seasons 2010, 2011, 2012 and 2013



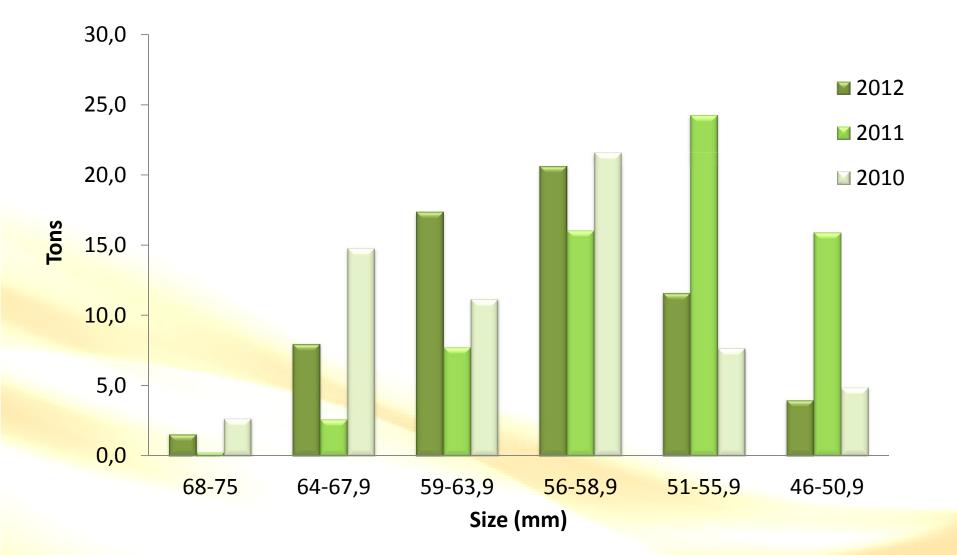
Clemenluz and Clemenules production Seasons 2010, 2011, 2012 and 2013



Pack out (%) Average seasons 2010, 2011, 2012 and 2013

Size	Diameter (mm)	Weight (gr)	Pack out (%)
1 X	68-75		2,1
1	64-67,9	108-100	11,3
2	59-63,9	99-90	17,2
3	56-58,9	89-75	31,1
4	51-55,9	74-60	24,7
5	46-50,9	59-50	13,4

SIZE DISTRIBUTION



IN SUMMARY...

Clemenluz is a early-season maturing clementine

With a medium-large sized fruit of good quality and production, without seed when it is planted in isolated field (under no cross pollination).

Alternate bearing and increasing size can be easily culturally managed

It has been successful in the early-season marketing window, with very good prices

Pruning and training

















TRADITIONAL SYSTEM



DOOR



Imagen: Citrus UC

