



Profitable Extra Virgin Olive Oil (EVOO) production utilising cultivar Signore'(FS-17)

Lewis Horticulture offers a complete growing system and support for growers.

Signore' (FS-17) High Density Olive groves are

- Quick to establish and generate cash
- Self fertile all trees produce fruit and oil on first and second year wood
 - Low cost, simple and mechanised growing and harvesting
 - Produce your 1st commercial harvest after 2 winters in the ground
 - Consistently produce EVOO oil every season
 - Consistently produce 3000L+ of EVOO per Ha from year 6
 - Xylella fastidiosa resistant variety* refer reports Le Scienze April 2017 & L'Informatore agrio website



Genetics, Grove Density and management practices = Success



Genetics + grove configuration + management practices are the key to sustainable and profitable extra virgin olive oil (EVOO) production in Australia.

- Grove configuration (1250 self fertile trees / Ha) efficient whole of life grove.
- Trained to monocone shape during establishment before mechanically formed into a hedge row (3m High x 1.5m wide, maximise surface area for fruit)
- Irrigation via twin dripper line with inline pressure compensating drippers at 0.5m centres 2.0 2.9L/Hr (soil profile dependent) with fertigation capabilities.
- Mechanically harvestable every year with fruit forming in clusters on first and second year wood.



Every 1% increase in olive oil percentage of fruit weight will produce an <u>extra</u> 10 Litres of EVOO per 1000kg of fruit Signore' consistently delivers up to 5% more EVOO per kg of fruit (when compared to other varieties) with similar kg /Ha of fruit

This 5% additional percentage of oil = an <u>extra 75,000L per year of EVOO</u> (based on 100Ha producing 15,000 kg fruit / Ha)

<u>High yielding variety</u>, due to superior flesh to pit ratio = lower cost per Litre of oil produced.

Less tonnage to harvest, transport and process. More oil per tonne of harvested fruit

Actual results from Lewis Horticulture's Signore' (FS-17) Grove Buckland Park South Australia

	Establishment period					Maturity and full production						
	Plant Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
Oil Percentage % per Kg of fruit	0	22%	32%	27%	25%	24%	19%	23%	24%	22%	19%	26%
Litres of EVOO per hectare	0	467	1315	2880	3323	3673	3840	3489	2327	2893	3617	2785
Kg fruit per Ha	0	2,122	4,109	10,666	13,292	15,304	20,210	15,169	9,696	13,150	19,036	10,711

26.5% average oil percentage over 4 Establishment harvest years 1996 L per Ha average production over 4 Establishment harvest years 7,547 kg / Ha average production over 4 Establishment harvest years 22.4% average oil percentage over 7 mature harvest years

3232 L per Ha average production over 7 mature harvest years

14,754 kg/Ha average production over 7 mature harvest years

Actual results – Average 23.9% olive oil percentage as weight of fruit over the first 11 harvest years



Important points of difference



- High Density groves planted with Signore' (FS-17) provide a sustainable and dependable **yearly production** of high quality extra virgin olive oil produced for a low cost per Litre of oil produced
- High oil content of Signore' (FS-17) allows for efficient use of your labour, machinery, land, water, harvesting contractor / equipment and press
- More oil per Kg of harvested fruit (compared to other varieties) deliver a low cost production giving the grower increased profit margin 5% additional percentage of oil = an extra 75,000L per year of EVOO (based on 100Ha producing 15,000 kg fruit / Ha)
- High yielding variety, due to superior flesh to pit ratio = lower cost per Litre of oil produced less tonnage to harvest, transport and process. More oil per tonne of harvested fruit
- Lewis Horticulture's 2019 harvest and processing costs equated to \$1.86 / Lutilising contractors
- Excellent storability of oil Long shelf life (16+ months)





Signore (FS-17) 2 year Old grove in Waikerie, South Australia





Signore (FS-17) fruit Waikerie, South Australia

Note fruit clusters and size.

Variety is early to commence production and cash flow

1.95kg / tree average achieved @ 24% oil in 2017 on 2 year old trees





Photo of mature Signore' tree

Note fruit forming in clusters on outer margins of pendulous branches

This allows for easy and efficient harvesting

Note how thin branches are. Easy to harvest and prune.

Minimal wood being produced, just fruit

How can I extend my harvest window?



In addition to Signore' (FS-17) Lewis Horticulture offer

- Don Carlo 'Early Harvest' Harvest up to 4 weeks earlier than Signore' (FS-17)
- I-77bp14 Harvest 2 weeks earlier than Signore' (FS-17)
- FS-22 'Late Harvest' Harvest up to 2 weeks later than Signore' (FS-17)

We recommend Signore's (FS-17) to be the major variety planted in your grove due to its superior consistent and proven performance.





Key points of difference between Signore' and other varieties suitable for High Density

- Signore' is low vigour less pruning, grow fruit and oil, not wood
- Signore' is self fertile and Xylella fastidiosa resistant
- Signore' fruits on first and second year wood consistent yearly production
- Signore' is quick to come into production 1st mechanised harvest after 2 winters in the ground
- Signore' has higher oil content, quality and stability enabling better yields and longer term storage.
- Signore' fruit formation on first and second year wood is on clusters at the outer margins of growth allowing high percentage and easy mechanical fruit removal





Lewis Horticulture Signore' (FS-17) grove in Buckland Park

For further information please contact Malcolm Lewis (Adv. Dip Hort)

Phone 0402 792 925 or email malcolm@lewishorticulture.com.au

Disclaimer — All of the content published in this flyer is for information purposes only and is provided in good faith. At the time of writing every effort has been made to ensure information is free from omission and error, it may however be subject to change and as such we do not accept any liability. We make no guarantee's as to the performance or suitability of the cultivars discussed in this information flyer as a wide range of factors beyond our control affect growth and performance and therefore we disclaim all liability. All information is believed to be correct and is the result of private inquiries and experiences and is given in good faith. We disclaim all liabilities for loss suffered as a result of reliance on the matters set out in this flyer. Actual performance data shared in this information flyer has been achieved from trees propagated, planted, grown and managed by Lewis Horticulture at Buckland Park, South Australia. Signore (FS-17) is protected by patent in Australia. Unauthorised propagation is prohibited.

C Copyright 2020 Lewis Horticulture