By Margie Carter



PARAFIELD OLIVES YARRAGUNDRY WAGGA WAGGA

Power Point By Clayton Baumer

1. Natural Non-Caustic Fermentation Method of Debittering Olives by Margie Carter



2. VARIETIES? COLOUR? SIZE?



ALL OLIVES CAN BE TABLE OLIVES BUT!!!!????

Decide the Variety, Colour & size for You Market Green Olives are consumed more than Coloured Olives Kalamata are the most popular Coloured Variety Size does matter when selling Table Olives

There is a small market for smaller olives such as Bouquet Bars & Medleys

3. HARVEST-Picking—HANDLE CAREFULLY



GREEN OLIVES are ready when the Olives change from Grassy

green to a lighter green.



Don't leave too long as they lose their structural integrity

MATURE DARK OLIVES-Brown, Pink, Magenta, Purple,

Dark Purple



The colour changes on the Skin first then the flesh changes to a creamy green-Cream-Pink-Magenta to Dark Purple colours. When picked the colours all blend into each resulting in an average colour due to the reduction of the anthocyanins. The higher the Temp & the more water the faster they ripen

4. GETTING READY FOR PICKLING



- -Remove Leaves the best you can
- -Good HYGENE practices must be adhered to
- -Mix well your brine solution of 8-10% depending on the colour
- -Lower % for Green Olives & higher for Darker Olives.
- -Measure the Salt % with a Refractometer
- -ph must be around 4-4.5

-Can carefully mix in Acetic Acid, measure with Litmus

paper is fine.



5. INTO CONTAINERS



- -Pour your Brine into your Drums first for a softer landing of your Olives.
- -Pour Olives into Brine, then more Brine & so on until the Drum is nearly full then put in a slotted disk to keep the Olives under the Brine-Very important!!



- -Continue to FILL to the BRIM- DO NOT ALLOW ANY AIR SPACE to keep the Microbiology stable for fermentation & stop the Olives going soft from gram negative bacteria.
 -Lid on tight THEN top up with brine weekly-fortnightly & so on for the whole time you have them in your drums-Months to Years.
- -Monitor the Salt % & ph. 60% Olives 40% Brine

6. FERMENTATION-TAKES 3 MONTHS



- -Debittering is the removing of the phenol, oleuropein (water soluble) through the semi-permeable skin membrane and the microorganism, Lactic Acid Bacteria (Lactobacillus plantarurum) dominates and performs the fermentation.
- -Lactic Acid Bacteria is a natural preservative & with the Salt your Olives are preserved for a very long time, years in fact.

- -Leave with repetitive monitoring for 8-9 months
- -Left another 3 months & the Olives taste even better
- -Watch for any odours that are unpleasant -this is Irreversible & most be thrown out. Zapateria smells like Faeces
- -Can be kept like this for years-especially in case of drought!!
- -Optimum Temp 19-27 C

7. DECANTERING for MARKET



- -Olives may be then decanted into saleable vessels as soon as they are edible or at your leisure
- -Olives now can be sorted into sizes if required
- -Olives are then sorted by hand or machine (my machine is called Clayton!!:) sorting holes (from birds), splits or any other spoilage.

- Olives are then de-cantered into a lower concentration of brine usually 4-6-8% depending on the saltiness of your olives or the requirement of your customers. Olives need to be over a 4-6% brine when finished.

-Unpasteurized in Buckets or Pasteurized in Bottles

8. PROBLEMS



- -Wilted, Bird pecked or diseased fruit
- -Brine not fully mixed
- -Brine too salty -Green Olives the skin shrivels
- -Brine too less Salt- Gram negative bacteria
 -Dark Olives form air pockets in Fruit
- -ph wrong = disaster- Gram negative bacteria
- -Unhygienic implements, Drums, hands or fruit (off ground)

9. WHAT YOU NEED



- -Patience
- -Join AOA
- -Good healthy Olive
- -Markets
- -Salt
- -Refractometer
- -Good Safe Water

- -Containers You can buy second hand
- drums readily
- -A good mixer to mix the brine fully
- -Containers to mix in- Drums
- -Acetic Acid
- -Litmus Paper
- -Labels
- -Logos

10. OPPORTUNITY for IMPORT REPLACEMENT MARKET in AUSTRALIA



-Australia - Consumes 22,000 Tons p.a.

- Producers 2,000 Ton p.a. (Tree Tops 1,000 p.a.)

-IMPORTS -18,000 Ton p.a.

From GREECE 10,000 Tons

SPAIN 4,000 Tons

ITALY 1,000 Tons

TURKEY 1,000 Tons