











USER MANUAL FOR FIELD AND LAB
OBSERVATIONS AND MEASUREMENTS FOR
THE CHARACTERISATION OF PALESTINIAN
(Olea europaea L.) OLIVE CULTIVARS
AND OF PALESTINIAN OLIVE OIL

following the methodology for primary characterisation of olive varieties (100C - International Olive Oil Council)

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Some of the pictures used for this manual are drawn and modified from Barranco Naver, D., Touzani, A., Cimato A., Fiorino, P., Serafini, F., Rallo Romero, L., Trujillo Navas, I, (2000). World catalogue of olive varieties. *International Olive Oil Council*, Madrid, Spain (2000)

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## **TREE**

## 1/ Height and Volume

#### Non destructive measurement

#### On each tree/cultivar

Tree in good conditions and not pruned

#### H 1

**Height of the tree** from the ground to the top of the canopy

#### H 2

**Height of the trunk** from the ground up to the start of the canopy (start of the branches)

#### H 3

**Height of the lower part of the canopy** from the ground

#### D1/D2

## Diameter of the canopy

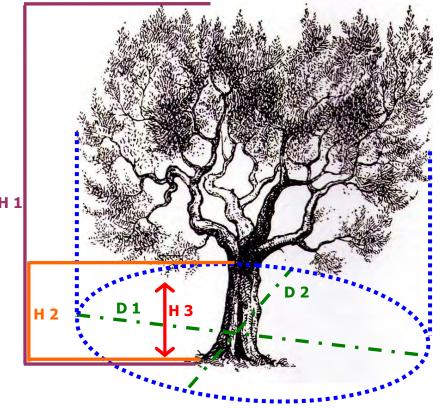
At 12:00 a.m., in summertime, measurement of the projection of the canopy on the ground, measured in 2 perpendicular directions

#### **C1**

**Circumference below branching** 

#### C2

**Trunk circumference** at **30-40 cm from the ground** (if more than 1 trunk, replicate the measurements on all of them)



3-5 meters stick, with marks every 50 cm

Measuring tape

Sprayer and/or Labels + Pins

Pictures (with and without the meter stick)

#### 2/ Vigour

It is the intrinsic capacity of the tree to grow, in all areas, under optimal cultivation conditions

#### Non destructive measurement

On 1 tree for each cultivar

Tree in good conditions and not pruned

#### Weak

Moderate growth; at maturity, trunk and canopy dimensions are less than those expected from a normal specimen of the same species

#### Medium

Average growth as expected from an olive tree

#### Strong

Strong growth, marked trunk and canopy development (height and volume), and vigorous and long branches

Direct observation

No pictures needed

## 3/ Growth habit

This, is the natural distribution of the scaffold branches before intervention for shaping the tree for a given training system and when vigour exerts little influence

#### Non destructive measurement

On 1 tree for each cultivar

Tree in good conditions and not pruned

#### **Erect**

Apical dominance of branches that grow vertically; the canopy can be assimilated to a conical shape, sometimes cylindrical at maturity

Even though cultivars with an erect growth habit are often vigorous, as a rule the erect growth doesn't mean strong vigour!!! Don't confound!!



Direct observation

No pictures needed

#### **Spreading**

Initial orthotropic branching, then the limb bend down and turn in the direction where there is more light and space. In this way, the canopy becomes hemispherical in shape.



### **Dropping**

Plagiotropic branching (shoots and limbs which are small in diameter and bend downwards from the outset).



## 4/ Canopy density

The canopy density de-

pends on the interaction

among the length of the

internodes, the number of the shoots and their vigour, the shape and the size of the leaves.

#### Non destructive measurement

On 1 tree for each cultivar

Tree in good conditions and not pruned

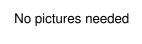
#### **Sparse**

Typical of fast growing cultivars. From any point of view, the canopy shows spaces allowing the light to penetrate easily inside the vegetation



#### Medium

Typical density of most of the. species. Abundant and thick vegetation, but still allowing some light to penetrate inside



Direct observation





#### Dense

Very thick and compact vegetation, preventing light to penetrate in the internal parts. Generally: shoots with short internodes, abundant branching, heavy foliage.

## FRUITING SHOOTS

## 1/ Length of the shoot and of internodes

#### Non destructive measurement

Take the length of the fruiting shoot from the insertion of the shoot (base) to the node with the fully expanded leaves (terminal portion). Don't consider the apex of the shoot

Count the **number of nodes** 

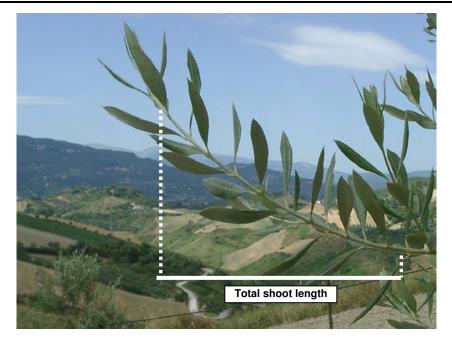
On 1-year-old shoots

On 20 fruiting shoots per each cultivar

Shoots **chosen randomly on the 4 directions** (North, South, West, East) at shoulder level

Length of internodes = (Length of the shoot / Number of nodes)

Short if < 1 cm Medium if 1 -3 cm Long if > 3 cm



Rulers

Millimetric paper

Labels

Pictures 1/ in the field and 2/ in the lab: cut 1 or 2 representative shoots and take pictures with the millimetric paper

Always use a label on each photo so that it will be always possible to recognise the variety

## **LEAVES**

## 1/ Shape of the leaf (=Length/Width ratio)

#### Shape

E if L/W < 4 E-L if L/W 4-6 L if L/W > 6

#### Length

Short if < 5 cm Medium if 5-7 cm Long if > 7 cm

#### Width

Narrow if < 1 cm Medium if 1-1,5 cm Broad if > 1,5 cm

#### **Destructive measurement**

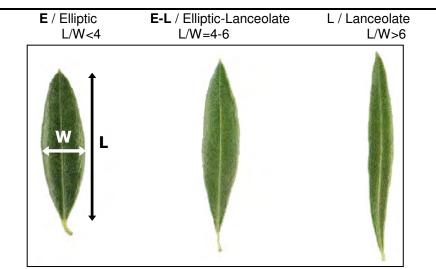
Sample adult and healthy leaves, from the middle part of the most representative 1-year-old shoots on the South-facing side of the tree, at shoulder level

Length: along the central nervature, from the base (excluding the petiole) to the apex of the leaf

Width: maximum transverse diameter

On **100 leaves** sampled in the field, enclosed in **plastic bags** (**labelled** for each cultivar) and kept in a cool place (not more than 1 day)

Measurements and observations in the lab

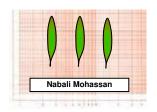


Plastic bags

Labels

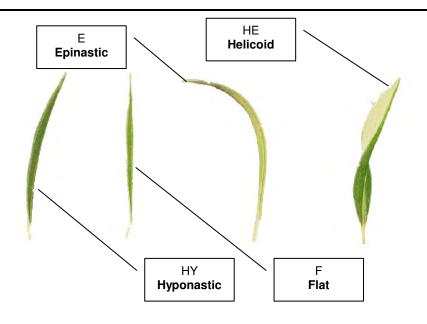
Rulers

Millimetric paper
Pictures of 3 healthy and representative leaves placed on millimetric paper, using a label with the cv name



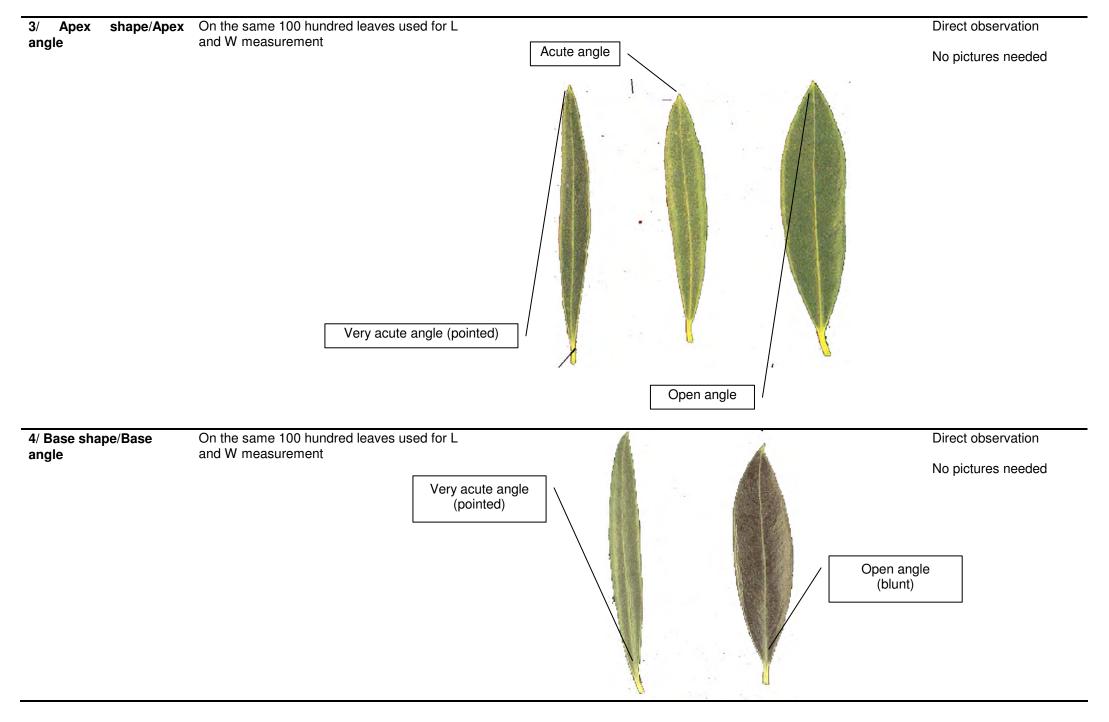
#### 2/ Longitudinal curvature of the blade

On the same 100 hundred leaves used for L and W measurement



#### Direct observation

Pictures (millimetric paper)



## JANUARY / FEBRUARY (BEFORE THE RE-START OF THE VEGETATIVE GROWTH) -- MORPHOLOGICAL CHARACTERS / 1

5/ Maximum width local-On the same 100 hundred leaves used for L Direct observation - Centre - Centre-Apex - Centre-Basal and W measurement isation No pictures needed Centre-Apex Centre Mid of the leaf

6	/ I	_eaf	SU	rfa	ce
v		_Cui	Ju	ıи	··

Lay 25 healthy and representative leaves on the glass of the photocopy machine (superior surface of the leaves facing the glass)

Insert a label with the name of the cultivar

- Small (<3 cm<sup>2</sup>)
- Medium (3-6 cm<sup>2</sup>) Large (>6 cm<sup>2</sup>)



Label

Photocopy machine / Scanner

Autocad software

Pale green

Dark green

9/ Leaf INFERIOR face colour

On the same 100 hundred leaves used for L and W measurement



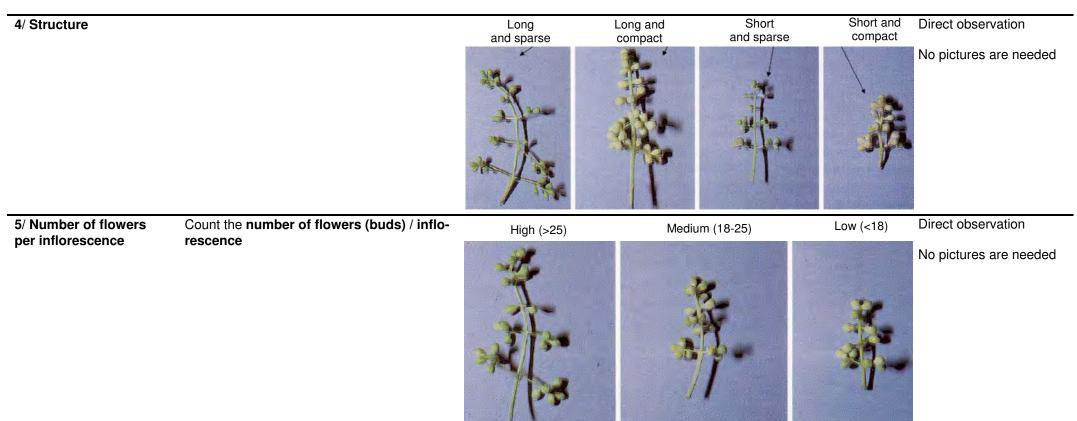


Green-grey

Grey-green

## **INFLORESCENCE**

1/ Length Rulers **Destructive measurement** Plastic bags On healthy inflorescences during the white 2/ Peduncle length bud stage Millimetric paper 3/ Maximum width On 100 inflorescences/cultivar sampled from Pictures of 3 homogenethe middle portion of 1-year-old representaous inflorescences tive shoots on the South-facing part of the canopy, at shoulder height Length Cut in the field, store in plastic bags and in a cool place, measurements in lab (as soon as possible!!) **Peduncle length Maximum width** 



## **INFLORESCENCE**

## 1/ Time of flowering

## 2/ Last (duration) of flowering

#### Non destructive measurement

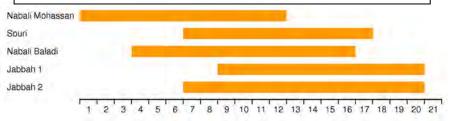
On **20 inflorescences**/cultivar, randomly chosen from the **middle part** of **1-year old** and representative shoots, from the 4 directions (**North, South, West, East**) at shoulder height.

Observation need to start before the first flower opens and need to be repeated every 2-3 days

Take note of the date the first flower opens

Check 20 inflorescences (randomly chosen at each time) until the last flower of the inflorescence will loose the petals

[Hypotetical] Flowering phenogram of different varieties (the real one, will be drawn at the end of the observations)



Time and no. of days the flower remains opened



Direct observation

Direct observation

**Pictures** 

## 3/ Ovary abortion

## **Destructive measurement**

On **50 inflorescences**/cultivar at **full bloom** stage

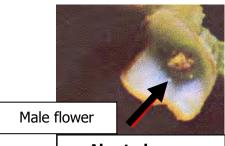
Attention!! You can find the followings, according to the cultivar:

- 100% flowers are open
- 50% flowers are open, 25% already loose petals, 25% still have to open

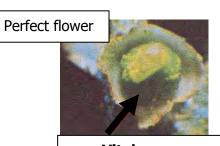
**OA** Percentage of **O**vary **A**bortion of each inflorescence:

(number of flowers with aborted ovaries on each inflorescence / total number of flowers on each inflorescence) \*100

!! Keep separated data for each inflorescence



**Aborted ovary** 



**Vital ovary** 

## **EVALUATION OF FERTILITY**

#### 4/ Fertility

#### - self-pollination

## - free pollination

#### Non destructive measurement

## **Self-pollination**

A/ Before the start of flowering: select 4 small branches/tree, in order to have 200-300 inflorescences/branch, from the 4 directions (North, South, West, East) of the canopy in MAX 3 different trees/cultivar

Count the **number of inflorescences** 

Wrap each branch in **paper bags** (passage of pollen need to be avoided)

B/ When flowering is terminated (see observation on 1/ time and 2/ last of flowering), take away the bags, label the small branches with tape of different colours, count the number of fruits (fruit set) on all branches

#### Free pollination

A/ Before the start of flowering, select and label 4 small branches/tree, in order to have 200-300 inflorescences/branch, from the 4 directions (N, S, W, E) of the canopy in MAX 3 different trees/cultivar

Count the **number of inflorescences** 

B/ When flowering is terminated, count the number of fruits on all branches

C/ (common for self and free pollination)
At fruit ripening, count again the number of fruits



Direct observation

Paper bags or tissuemom-tissue bags

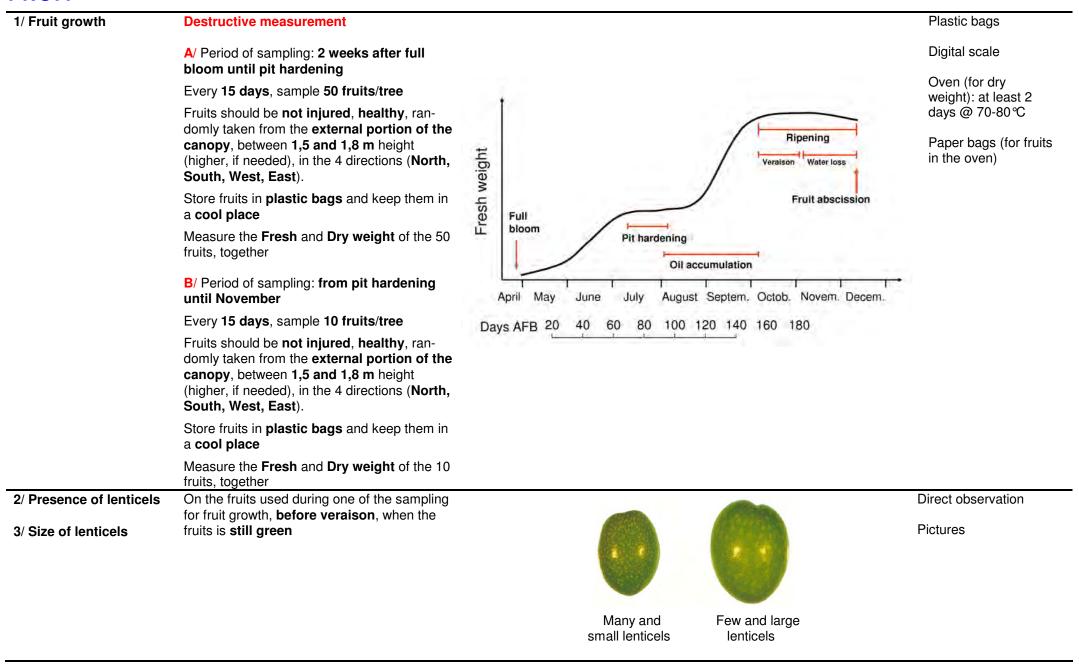
Rope

Markers

Labels

Take different pictures during the work, especially of the plants with the bags

### **FRUIT**



## MAY AND UNTIL NOVEMBER (STARTING FROM 2 WEEKS AFTER FULL BLOOM) -- MORPHOLOGICAL CHARACTERS / 4

4/ Location of start of colour change	On the fruits used during one sampling for fruit growth, <b>when veraison is starting</b>	From the base	Uniformly across the whole epidermis	From the apex	Direct observation Pictures
5/ Weight	Measurement executed when the fruit has completely changed its colour (after complete veraison)  On 100 fruits/cultivar taken from the middle part of the most representative fruiting shoots from South-facing part of the canopy.  N.B. very small or very large fruits should be discarded from the sampling  After the weight and the following measurements and observations have been taken, keep the fruits (they will be used later for thee morphological characters of the stone)	Low < 2g	Medium 2-4g High 4-6g	Very high > 6g	Digital scale  Millimetric paper  Label for each cv  Pictures of 6 representative fruits
6/ Shape of the fruit (=Length/Width ratio)	On 100 fruits (same fruits sampled for the fresh weight)  L = longitudinal diameter  W = equatorial transverse width	Spherical-globo L/W < 1,25	Se Ovoid L/W 1,25-1,45	Elongated L/W > 1,45	Rulers  No pictures are needed

## MAY AND UNTIL NOVEMBER (STARTING FROM 2 WEEKS AFTER FULL BLOOM) -- MORPHOLOGICAL CHARACTERS / 4

7/ Simmetry	On 100 fruits (same fruits sampled for the	Symmetric	Slightly asymmetric	Asymmetric	Direct observation
	Position A – Longitudinal simmetry Position in which the fruit shows the greatest asymmetry: hold the fruit between the index finger and the thumb and choose the face showing more asymmetry if compared to the others	A			No pictures are needed
	A	Towards the bas	e Central	Towards the apex	
	Position B – Position of max transverse diameter  Turn 90° from position A, in such a way as to present the most developed part to the observer	В			
B/ Apex	On 100 fruits (same fruits sampled for the fresh weight)	Po	Apex (position A) pinted	Rounded	Direct observation  No pictures are needed
					No pictures are needed
9/ Base	On 100 fruits (same fruits sampled for the fresh weight)	Base (position A) Truncate Rounded			Direct observation
					No pictures are needed

## MAY AND UNTIL NOVEMBER (STARTING FROM 2 WEEKS AFTER FULL BLOOM) -- MORPHOLOGICAL CHARACTERS / 4

10/ Nipple	On 100 fruits (same fruits sampled for the				Direct observation
	fresh weight)			Ni	No pictures are needed pple
		Absent	Tenuous	Obvious	
11/ Stalk cavity	On 100 fruits (same fruits sampled for the fresh weight)	Circular shape		Elliptic shape	Direct observation Pictures
		(0)		· (C)	
12/ Colour at full matur-	On 100 fruits (same fruits sampled for the fresh weight)	Black	Violet	Red	Direct observation
ity					Pictures
		If other colours: specify			

## STONE / ENDOCARP

## 1/ Weight

Low (<0,30g) Medium (0,30-0,45g) High (0,45-0,7g) Very high (>0,7g) On **100 stones**, from the fruits sampled for the weight (see **Morphological characters** / **3 measure no.5** / **Weight**)

Note that pulp from the stone can be removed by hand (mechanically) or chemically (e.g., dipping in a solution of NaOH and heating them during few minutes –*Said's method*)



Medium



Low Scale

Millimetric paper

Pictures of 6 representative stones

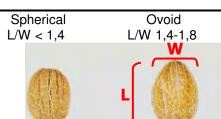


## 2/ Shape of the stone (=Length/Width ratio)

On the same 100 stones used for Weight

L = longitudinal diameter

W = equatorial transverse width



Elliptic L/W 1,8-2,2



Rulers

No pictures are needed

## 3/ Simmetry

On the same 100 stones used for L/W

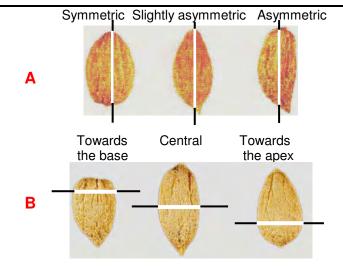
## Position A – Longitudinal simmetry

Position in which the stone shows the greatest asymmetry: hold the stone between the index finger and the thumb and choose the face showing more asymmetry if compared to the others and with the carpe suture facing the observer



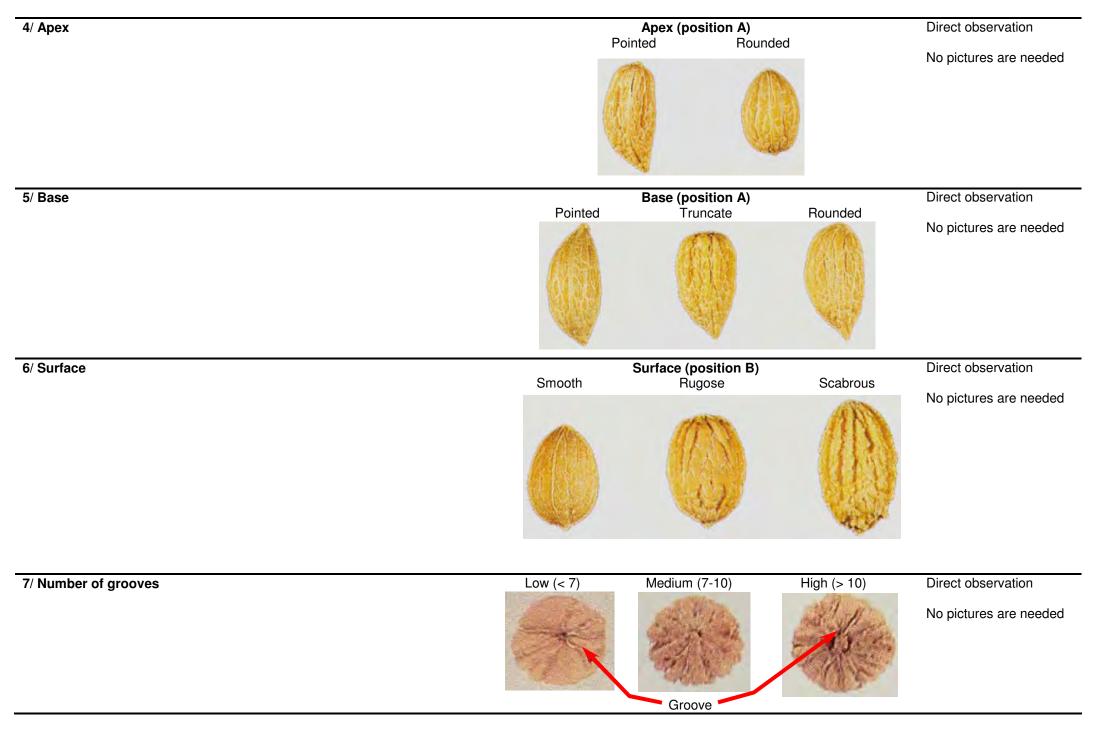
## Position B – Position of max transverse diameter

Turn 90° from position A, in such a way as to present the most developed part to the observer

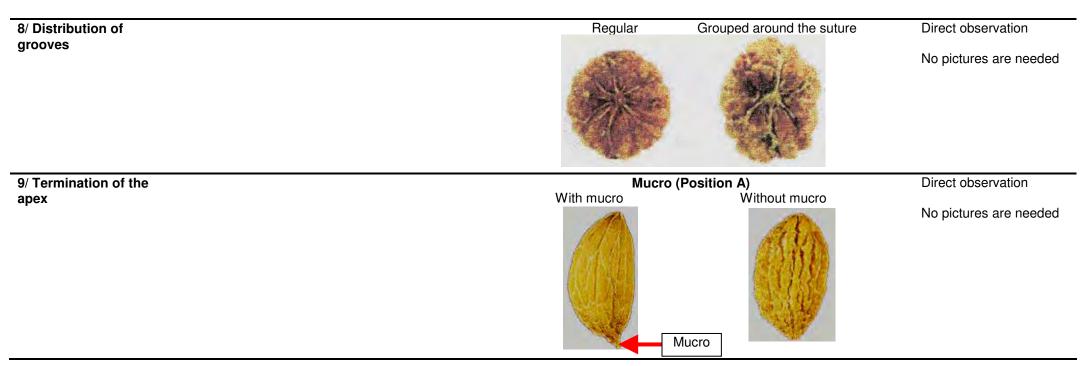


Direct observation

No pictures are needed



## OCTOBER / NOVEMBER --- MORPHOLOGICAL CHARACTERS / 5



Scale

Net or Net bag

No pictures are needed

#### FRUIT RIPENING

## 1/ Fruit drop

Non destructive measurement

#### Method 1/

Position a net under 2 trees of each cultivar Starting from mid September, collect and weight (fresh weight) the dropped fruits every 2 weeks

#### Method 2/

Select 2 trees/cultivar and 4 small branches per tree, in the four directions: North, West, South, East (=total 8 branches per cultivar) Wrap the branches in a net bag Starting from mid September, collect and count the dropped fruits every 2 weeks During the last observation, before removing the net, count the number of olives still on the branch.

### 2/ F R F - Fruit Retention Force or Fruit Detachment Resistance

#### **Destructive measurement**

Starting from mid September and every 2 weeks, on 50 fruits/cultivar randomly chosen

Low < 4NMedium 4-6 N High > 6N (1 N = 1g / 100)

Hand dynamometer

3/ Fruit pigmentation – M.I.

## Maturation Index or Jaen pigmentation in-

dex

#### **Destructive measurement**

Starting from **mid September** and every **2** weeks

On same **50 fruits/cultivar** used for FRF determination (see measure number 2)

M. I. = 
$$[(Ax0) + (Bx1) + (Cx2) + (Dx3) + (Ex4) + (Fx5) + (Gx6) + (Hx7)] / 50$$

A - number of fruits within the class 0

B - number of fruits within the class 1

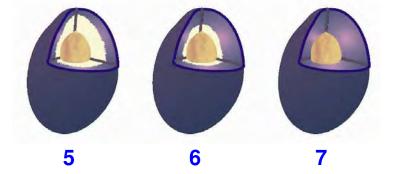
H – number of fruits within the class 7

- 0 green epicarp
- 1 yellowish epicarp
- **2** –pigmentation on less than 50% of the epicarp
- 3 pigmentation more 50% epicarp
- 4 pigmentation 100% epicarp
- **5** pigmentation 100% epicarp + less than 50% of the pulp thickness
- **6** pigmentation 100% epicarp + more 50% pulp thickness
- 7 pigmentation 100% epicarp + 100% pulp thickness



Direct observation

Pictures



## 4/ Fresh Weight of the fruits

#### **Destructive measurement**

Starting from **mid September** and every **2** weeks

Sample **100 fruits/cultivar** (50 fruits out of 100 are the same fruits used for the measure number 3, so you only need to collect 50 more fruits)

Weight all the 100 fruits one by one (Fresh Weight)

Scale

No pictures are needed

## 5/ Pulp/skin firmness

Starting from **mid September** and every **2** weeks

On **50 fruits** selected from the 100 used for the fresh weight (see measure number 4) by using a hand penetrometer with a **1.5 mm plunger** placed in **two positions opposite each other** around the equator of each fruit

Low <500 g Medium 500-550 g High > 550 g



Penetrometer with plunger 1,5 mm diameter

Cutter

Scale

Paper bags

Oven (for dry weight)

No pictures are needed

# 6/ Flesh / pit ratio (on Fresh and Dry Weight basis)

Starting from **mid September** and every **2** weeks

On **25 fruits** chosen out of the 50 not used for the Pulp firmness (see measure number 5)

#### Fresh Weight

- 1- **Weight** the 25 fruits **one by one** (flesh + stone)
- 2- Remove the flesh with a cutter and weight the 25 stones one by one (\*do not throw the fleshes and the stones away but store them in separated paper bags for dry weights)

Flesh / pit = (whole fruit weight – stone weight) / (stone weight)

## **Dry Weight**

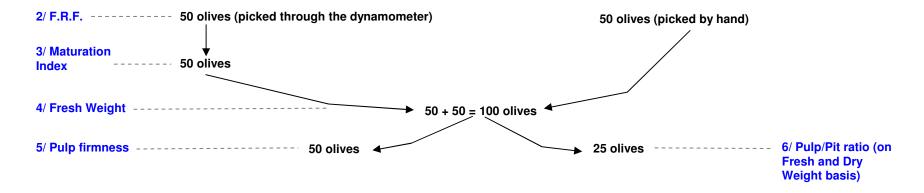
Weight the stones and the flesh, after drying (drying until constant weight or at least 2 days at 70-80 °C)

Important!! after measurement, do not throw away the fleshes but store them in the same paper bags used for the drying. They will be used for measure number 7

Low < 4 // Medium 4-6 // High > 6

7/ Olive oil content	Low (16-18% Fresh Weight; <40% Dry
	Weight)
	Medium (16/18-20/22% FW; 40-45% DW)
	High (>20-22% FW; >45% DW)

<sup>\*</sup> Important note on the procedure to follow - when you have the 100 fruits, take fruit number 1 and weight it, remove the flesh and weight the pit, take fruit number 2 and so on until fruit number 25 (store all 25 fleshes and stones into 2 separated paper bags for dry weights), take the fresh weight of the last 75 fruits one by one, than select 50 fruits for the pulp firmness.



## OIL CHARACTERISTICS

1/ Oil

#### **Destructive measurement**

Lab mill

At each harvest time collect around **20-25 kg of not-Injured fruits**. Crush them with a lab mill, then malax the paste for about 20-30 minutes and centrifuge in order to separate the oil.

After the filtration, the following characteristics can be determined:

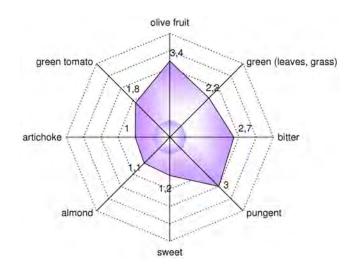
- Acidity, expressed as % of free oleic acid (EEC Reg. n. 2568/91)
- Peroxide number, expressed as meq of O<sub>2</sub> / kg of oil (EEC Reg. n. 2568/91)
- Spectrophotometric absorbency in ultraviolet (K232, K270 and  $\Delta$ K) (EEC Reg. n. 2568/91)
- Total polyphenols content, expressed as mg of gallic acid / kg of oil (Montedoro G., and Cantarelli C. modified by Solinas et al. methodology)
- Fatty acid composition, expressed as % (CEE Reg. n. 796/2002)

Fatty acid composition (%)	محتوى وتركيب الاحماض الدهنية
Palmitic	بالميتيك
Palmitoleic	البالميتولييك
Heptadecanoic	هيبتاديكانو يك
Heptadecenoic	هيبتاديسينويك
Stearic	الستياريك
Oleic	الاولييك
Linoleic	اللينوليك
Linolenic	اللينولينيك
Eicosanoic	ايكو سانو يك
Eicosenoic	ایکو سینو یك

- Sterol content and composition, expressed as mg / kg of oil and as % respectively (EEC Reg. n. 2568/91)

Sterol composition (%)	محتوى وتركيب الستيرولات(%)
Cholesterol	كوليسترول
Brassicasterol	بر اسیکاستیرول
Campesterol	كامبستيرول
Stigmasterol	ستيغماستيرول
β-sitosterol	بيتا - سيتوسترول
Δ-7-Stigmastenol	۵-7-ستغماستانول
Total β-sitosterol	بتا – سيتوسترول الكلي
Erythrodiol + Uvaol	الارثديول + اليوفول
Total Sterol (mg/kg oil)	الستيرولات الكلية(mg/kg oil)

 Organoleptic profile expressed with a radar graph showing the intensity of the main positive attributes (EEC Reg. n. 2568/91 – EC Reg. n. 640/2008)



The field manual here proposed comes out from the experience gained during two years of experimentation, carried out as a component of the project *Increasing income of impoverished small olive oil producers in the North West Bank*, co-funded by European Union (Food Security Thematic Program 2007) and jointly implemented by GVC-Gruppo di Volontariato Civile and UAWC-Union of Agricultural Work Committees, an Italian and a Palestinian NGOs, respectively.

The booklet Characterisation of the main Palestinian olive cultivars (Olea europaea L.) and of Palestinian olive oil, combined with this manual, presents the results of the experimentation, that involved other national and international institutions and organisations, namely AFD-Agence Française pour le Développement, Paltrade-Palestine Trade Center and NARC-National Agricultural Research Center of the Ministry of Agriculture.

Both publications are intended to serve as a basis for further investigations, aiming at advancing and deepening technical knowledge on Palestinian olive cultivars. Further steps involve the application of these information, in order to disseminate proper know-how for a better choice of cultivars for new plantations and improve an efficient and sustainable management of olive orchards at the farm level.

Sector strategies can also benefit from an enhanced knowledge on cultivars by, among others, promoting a Palestinian olive oil identity, by identifying the best harvesting dates for each cultivar according to olive oil quality and yield and by setting up standards and regulations for certified nurseries (offering certified seedlings combined to bio-agronomical indications). هذا الدليل الميداني يقدم مقترحات جاءت نتيجة لخبرة سنتين من التجارب الفنية والتي كانت جزء من المشروع " تحسين دخل صغار مزارعين زيت الزيتون في شمال الضفة الغربية" والممول من الاتحاد الأوروبي ضمن برنامج الأمن الغذائي 2007 والمنفذ بالشراكة بين المجموعة الطوعية الايطالية (GVC)و اتحاد لجان العمل الزراعي (UAWC).

محتوى هذا الكتيب والذي هو مواصفات أصناف الزيتون وزيت الزيتون الفلسطيني والمشتمل عليهم هذا الدليل إنما هما عرض تقديمي الفلسطيني والمشتمل عليهم هذا الدليل إنما هما عرض تقديمي لنتائج التجارب التي اشترك فيها على حد سواء مؤسسات محليه ودوليه مثل الوكالة الفرنسية للتنمية (AFD)، وبال تريد – مركز التجارة الفلسطيني ، والمركز الوطني للأبحاث الزراعية التابع لوزارة الزراعة (NARC).

الهدف من كلتا النشرتين هو أن يكونا أساسا لأبحاث وتحقيقات مستقبليه إلى تقدم وتعميق المعرفة الفنية لأصناف زيت الزيتون الفلسطيني. واتخاذ خطوات تطبيقيه لهذه المعلومات من اجل نشر المعرفة اللازمة لخيارات أفضل للأصناف في المزارع الجديدة وتحسن الكفاءة والاداره المستدامة على مستوى البساتين ومزارع الزيتون.

وأيضا لرفد استراتيجيات قطاع الزيتون وتعزيز المعرفة بالأ<mark>صن</mark>اف والترويج لأصول وهوية زيت الزيتون الفلسطيني، من خلال تحديد تاريخ بدا الحصاد لكل صنف بناءا على الجودة والإنتاجية وأيضا وضع محددات وأحكام لتراخيص المشاتل ( ترخيص الاشتال ضمن المعايير الهندسية).

