

Field data (Each questionnaire refers to one crop species cultivated per field)

Municipality : Paraje Guarda Ganado / Ejido de

Latitude : Zirahuato
19.499558

Longitude : -100.418107



Field Size (ha) _____

- Crop Species
- | | | | |
|---|------------------------------------|-------------------------------------|----------------------------------|
| <input type="checkbox"/> olives | <input type="checkbox"/> vineyards | <input type="checkbox"/> apples | <input type="checkbox"/> pears |
| <input type="checkbox"/> peaches | <input type="checkbox"/> apricot | <input type="checkbox"/> nectarine | <input type="checkbox"/> plum |
| <input type="checkbox"/> cherries | <input type="checkbox"/> oranges | <input type="checkbox"/> tangerines | <input type="checkbox"/> lemons |
| <input type="checkbox"/> grapefruit | <input type="checkbox"/> hazelnuts | <input type="checkbox"/> chestnuts | <input type="checkbox"/> almonds |
| <input checked="" type="checkbox"/> guava | | | |

Variety of crop _____

Age of crop _____

Density of crop (trees/ha) 700

Width between cultivated rows (m) _____

Distance between trees (m) _____

Crop form

Crop forms for vineyard



Vase



Espalier



Marquee

Crop forms for Olive



Ancient olives



Vase (1 stem)



Vase (2-3 stems from soil)



Bush (intensive 250-600 trees/ha)



Superintensive (>1500 trees/ha)

Crop forms for fruit trees



Natural



Vase



Bush/Globe (very small trees)



Spindle/Pyramid



Palm/Fan



Epsilon transversal

Slope (%)

Soil Cover



Bare.No grass cover.
Tillage several times per
year



Seasonal occurrence.
Herbicides+mowing <50%
soil cover



>50% grass cover.
Mowed several times per
year



100% Grass cover.
Mowed several times per
year

Crop Yield

Average Crop yield (t/ha) _____

Crop yield before measurement (t/ha) _____

Amount of product obtained for the year that the pruning measurement is performed in tonnes per hectare

Irrigation rain fed partial irrigation fully irrigated

Intensification degree organic low intermediate
 high

Specify the amount of fertilizer and pesticides

Pruning Operations Performed (prior to measurement)

Type of pruning Maintenance Grafting
 Structuring Topping
 Removal of old branches Blooming

Pruning Method Only manually Mechanised pre-pruning + manual Fully mechanised

Pruning Operations
 Specify the pruning operations that are carried out. Check as many as apply.



Manually shears



Assisted shears



Chainsaw/armchainsaw



pre-pruner:hedge trimmer



pre-pruner:discs



pre-pruning topping

Season of pruning
Check as many as apply

- | | | | |
|------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> January | <input type="checkbox"/> February | <input type="checkbox"/> March | <input type="checkbox"/> April |
| <input type="checkbox"/> May | <input type="checkbox"/> June | <input type="checkbox"/> July | <input type="checkbox"/> August |
| <input type="checkbox"/> September | <input type="checkbox"/> October | <input type="checkbox"/> November | <input type="checkbox"/> December |

Frequency of pruning

- | | | | |
|---------------------------------|-----------------------------------|-----------------------------------|---|
| <input type="checkbox"/> annual | <input type="checkbox"/> biannual | <input type="checkbox"/> biennial | <input type="checkbox"/> Once per years |
|---------------------------------|-----------------------------------|-----------------------------------|---|

Was this type of pruning performed as usual ?

- | | | |
|---|--|--|
| <input type="checkbox"/> Yes, it was performed as usual | <input type="checkbox"/> No, less intense than usual | <input type="checkbox"/> No, more intense than usual |
|---|--|--|

Describe the ammount of prunings produced compared to other years

- | | | |
|------------------------------------|------------------------------------|-------------------------------|
| <input type="checkbox"/> Much Less | <input type="checkbox"/> Less | <input type="checkbox"/> Same |
| <input type="checkbox"/> More | <input type="checkbox"/> Much more | |

Reason for different ammount of prunings produced ?

- | | |
|--|---|
| <input type="checkbox"/> Pruning Intensity | <input type="checkbox"/> Accumulation of previous years |
| <input type="checkbox"/> Weather | |

Pruning Measurement

Date of Measurement
(DD/MM/YY)

08/2013

Mode of measurement

Specify the method used for pruning measurement

Per tree



One or several single trees selected. Biomass per tree collected manually and weighted

Number of trees : 30

Per parcel (e.g. 100m²) in bags



One or several parcels selected. Each parcel several trees. Biomass per parcel collected manually and weighted

Per several rows (or in whole field)



On large parcel, or a whole field is selected. Biomass collected and loaded to a truck. Weight of the load taken in a scale for trucks

Amount of prunings obtained (t/ha)

Specify the tonnes per hectare of prunings collected from the crop

8.4

Losses of prunings that weren't harvested (t/ha)

How many days the prunings were on soil before measuring (days)

Moisture content (%)

Specify the moisture content (%) of the biomass collected if available

68

Contact Data

Name : José Guadalupe Rutiaga-
Quiñones
Email : José Guadalupe Rutiaga-
Quiñones
Phone : +52 (443) 3260379
Profession : Professor
Country : Mexico

References-External links: Provide references on which the information is based on or highlight any comments

1. Julio César Camarena-Tello, Nuria Elizabeth Rocha-Guzmán, José Alberto Gallegos-Infante, Rubén Francisco González-Laredo, Fabiola Eugenia Pedraza-Bucio, Pablo López-Albarrán, Rafael Herrera-Bucio, and José Guadalupe Rutiaga- Quiñones* Chemical composition of biomass generated in the guava tree pruning EXCLI J. 2015; 14: 204–212. Published online 2015 Feb 4. doi: 10.17179/excli2014-467
2. Communication with author (February 2017)

* corresponding author

Field located at 2,030 meters above sea level.

Pruning yield based on average value of 12 kg of prunings per tree for all four measurement sites of the publication.

