



















Questionnaire for Field Sampling- Prunings

Contact Data		
Name: _____	e-mail: _____	Phone no: _____
Profession: _____	Country: _____	




Field Data (Each questionnaire refers to one crop species cultivated per field)	
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Location of field*1 <i>Location of the farm or X/Y coordinates with decimal-degrees</i>	Municipality: _____ X/Y: _____
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 type="checkbox"/> Other (provide photograph if available) _____
Variety of crop	_____
Age of crop	_____
Density (trees/ha)	_____
Width between cultivated rows (m)	_____
Distance between trees (m)	_____
Crop form	<div style="display: flex; justify-content: space-around;">    </div> <input type="checkbox"/> Vase <input type="checkbox"/> Espalier <input type="checkbox"/> Marquee <input type="checkbox"/> Other (provide photograph if available) _____
Crop forms for Olive	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%; text-align: center;">  <input type="checkbox"/> Ancient olives </div> <div style="width: 33%; text-align: center;">  <input type="checkbox"/> Vase (1 stem) </div> <div style="width: 33%; text-align: center;">  <input type="checkbox"/> Vase (2-3 stems from soil) </div> <div style="width: 33%; text-align: center;">  <input type="checkbox"/> Bush (intensive 250-600 trees/ ha) </div> <div style="width: 33%; text-align: center;">  <input type="checkbox"/> Superintensive (>1500 trees/ ha) </div> </div> <input type="checkbox"/> Other (provide photograph if available) _____



<p>Crop forms for fruit trees</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><input type="checkbox"/> Natural</p> </div> <div style="text-align: center;">  <p><input type="checkbox"/> Vase</p> </div> <div style="text-align: center;">  <p><input type="checkbox"/> Bush/ Globe (very small trees)</p> </div> <div style="text-align: center;">  <p><input type="checkbox"/> Spindle/ Pyramid</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">  <p><input type="checkbox"/> Palm/ Fan</p> </div> <div style="text-align: center;">  <p><input type="checkbox"/> Epsilon transversal</p> </div> </div> <p><input type="checkbox"/> Other (provide photograph if available) _____</p>
<p>Slope (%)</p>	<p>_____</p>
<p>Soil Cover</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><input type="checkbox"/> Bare. No grass cover. Tillage several times per year</p> </div> <div style="text-align: center;">  <p><input type="checkbox"/> Seasonal occurrence. Herbicides + mowing <50% soil cover</p> </div> <div style="text-align: center;">  <p><input type="checkbox"/> >50% grass cover. Mowed several times per year</p> </div> </div> <div style="margin-top: 20px;">  <p><input type="checkbox"/> 100% Grass cover. Mowed several times per year</p> </div> <p><input type="checkbox"/> Other (provide photograph if available) _____</p>
Crop Yield	
<p>Average Crop yield (t/ha)</p>	<p>_____</p>
<p>Crop yield before measurement (t/ha)</p> <p><i>Amount of product obtained for the year that the pruning measurement is performed in tonnes per hectare</i></p>	<p>_____</p>
<p>Irrigation</p>	<p><input type="checkbox"/> rain fed <input type="checkbox"/> partial irrigation <input type="checkbox"/> fully irrigated</p>
<p>Intensification degree</p> <p><i>Specify the amount of fertilizer and pesticides</i></p>	<p><input type="checkbox"/> organic <input type="checkbox"/> low <input type="checkbox"/> intermediate <input type="checkbox"/> high</p>



<p>Mode of measurement</p> <p>Specify the method used for pruning measurement</p>	<p><u>Per tree</u></p>  <p><input type="checkbox"/> One or several single trees selected. Biomass per tree collected manually and weighted</p> <p>Number of trees: _____</p>
	<p><u>Per parcel (e.g. 100 m2) in bags</u></p>  <p><input type="checkbox"/> One or several parcels selected. Each parcel several trees. Biomass per parcel collected manually and weighted</p> <p>Total Area measured (m2): _____</p>
	<p><u>Per several rows (or in whole field)</u></p>  <p><input type="checkbox"/> 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</p> <p>Total Area measured (m2): _____</p> <p><input type="checkbox"/> Other (provide photograph if available) _____</p>
<p>Amount of prunings obtained (t/ha)</p> <p>Specify the tonnes per hectare of prunings collected from the crop</p>	<p>_____</p> <p>Losses of prunings that weren't harvested (t/ha): _____</p>
<p>How many days the prunings were on soil before measuring (days)</p>	<p>_____</p>
<p>Moisture content (%)</p> <p>Specify the moisture content (%) of the biomass collected if available</p>	<p>_____</p>

The purpose of the research is related to the objectives of the project "uP_running - Take-off for sustainable supply of woody biomass from agrarian pruning and plantation removal. Please check if you agree

Personal data will be treated in accordance to the EU Directive 95/46/EC. Data exchange between the project partners via project intranet or encrypted document.

Data will be stored in the project intranet during the project lifetime. The information will be used only for the project purposes.

Therefore, with the signature "I confirm that my participation is voluntary and I allow the publication of this data via the uP_running observatory".

 (Signature)

Do you want to be publicly acknowledged? Yes No

Do you have photographic material that can be provided? Yes No

If yes, send them to karampinis@certh.gr

**1: uP_running observatory won't display the exact position of your field, but will choose a point in a 5 km radius around. The aim is to mark the area, not the exact point of your field*

The majority of images provided on this questionnaire is derived from EuroPruning deliverable report D3.1 (available at www.europruning.eu)

Additional Questions (Optional)			
Pruning Operations and Machinery	<u>Use of Prunings</u>	<u>Operations</u>	
<i>Specify the use of prunings and the operations performed typically in your field</i>	A) Shredded to the soil	A.1) Tractor with mulcher to shredder wood into small pieces on the ground	<input type="checkbox"/>
		A.2) Manual windrowing + A.1	<input type="checkbox"/>
		A.3) Haulage with tractor (wth forklift/clamp) and shredding at field side	<input type="checkbox"/>
		A.4) Manual windrowing + A.3	<input type="checkbox"/>
	B) Disposed (burnt/abandoned)	B.1) Haulage with tractor (with forklift/clamp and burning in piles	<input type="checkbox"/>
		B.2) Manual windrowing + B.1	<input type="checkbox"/>
		B.3) Haulage with tractor (with forklift/clamp) and dump nearby the field	<input type="checkbox"/>
		B.4) Manual windrowing + B.3	<input type="checkbox"/>
	C) Collected	C.1) Thick branches crosscut and collected	<input type="checkbox"/>
		C.2) Mechanised collector (pruning harvester)	<input type="checkbox"/>
		C.3) Manual windrowing + C.2	<input type="checkbox"/>
		C.4) Haulage with tractor (with forklift/clamp) and treatment/load at field side	<input type="checkbox"/>



			C.5) Manual windrowing + C.4		<input type="checkbox"/>		
	Other (please describe): _____ <input type="checkbox"/>						
<p>Pruning Agronomic Practices and Management of the residues</p> <p>Specify the pruning type, frequency, season and the time and cost spent on pruning operations performed typically in your field</p> <p>*2: Only information about the management of the pruning residues, not the operation itself</p> <p>*3: Include here personnel and machinery costs as a whole cost in €/ha</p>	Agronomic Practices			Management of the Pruning Residues			
	Pruning Type	Frequency		Season	Work spent on pruning management*2		Typical cost for management of pruning*3
		#of times	# of year(s)		#of persons working	Time Required (h/ha)	(€/ha)
	Maintenance	_____	<input type="checkbox"/>	_____	_____	_____	_____
	Structuring	_____	<input type="checkbox"/>	_____	_____	_____	_____
	Grafting	_____	<input type="checkbox"/>	_____	_____	_____	_____
	Removal of old branches	_____	<input type="checkbox"/>	_____	_____	_____	_____
	Topping	_____	<input type="checkbox"/>	_____	_____	_____	_____
	Blooming	_____	<input type="checkbox"/>	_____	_____	_____	_____
	_____	<input type="checkbox"/>	_____	_____	_____	_____	
<p>Do you think your crop is too vigorous?</p> <p>Specify how vigorous is the crop (trees producing much wood)</p>	<input type="checkbox"/> Not at all <input type="checkbox"/> Low <input type="checkbox"/> Typical for this crop <input type="checkbox"/> Large <input type="checkbox"/> Vigorous variety						
<p>Do you think that your field produces more or less prunings than other local fields?</p> <p>Specify how much wood is produced from your crops in comparison with other fields</p>	<input type="checkbox"/> Much less than others <input type="checkbox"/> More than others <input type="checkbox"/> Less than others <input type="checkbox"/> Much more than others <input type="checkbox"/> Same with others						
<p>Why does your field produce less/more pruning?</p>	<input type="checkbox"/> Different Variety <input type="checkbox"/> I can't dedicate sufficient resources/I do dedicate much resources <input type="checkbox"/> I prefer doing soft/severe pruning <input type="checkbox"/> Soil <input type="checkbox"/> I can't dedicate sufficient time/I dedicate much time <input type="checkbox"/> Irrigation <input type="checkbox"/> other _____						
<p>Specify the minimum diameter you consider for "thick" branches used as firewood (mm):</p>	_____						

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

