










Questionnaire for Field Sampling- Plantation Removal

Contact Data	
Name: _____	e-mail: _____
Profession: _____	Phone no: _____
	Country: _____
Field Data (Each questionnaire refers to one crop species cultivated per field)	
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; justify-content: space-around;"> <div style="text-align: center;">  <input type="checkbox"/> Ancient olives </div> <div style="text-align: center;">  <input type="checkbox"/> Vase (1 stem) </div> <div style="text-align: center;">  <input type="checkbox"/> Vase (2-3 stems from soil) </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">  <input type="checkbox"/> Bush (intensive 250-600 trees/ha) </div> <div style="text-align: center;">  <input type="checkbox"/> Superintensive (>1500 trees/ ha) </div> </div> <input type="checkbox"/> Other (provide photograph if available) _____



Reason for plantation removal	<input type="checkbox"/> Old age (renovation) <input type="checkbox"/> Change of crop <input type="checkbox"/> Change of variety <input type="checkbox"/> Change of planting pattern <input type="checkbox"/> Plant disease <input type="checkbox"/> other _____				
Equipment for uprooting	<input type="checkbox"/> Felling with chainsaws <input type="checkbox"/> Uprooting with excavators <input type="checkbox"/> other _____				
Intended use of the plantation <i>Check how do you manage/use the plantation removal wood for each part of the plantation.</i> <i>Check as many as apply</i>		Roots	Stems	Thick branches	Fine branches
	Abandoned at field side	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Burnt in fires at open air	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Mulched as soil cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Shredding and integration to soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Firewood	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Energy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Specify the minimum diameter you consider for "thick" branches used as firewood (mm):	_____				
Cost for removing 1 hectare when contracted to a company (€/ha)	_____				
Plantation Removal Measurement					
Date of Measurement (DD/MM/YY)	_____				
Mode of measurement <i>Specify the method used for pruning measurement</i>	<u>Per tree</u>  <input type="checkbox"/> One or several single trees selected. Biomass per tree collected manually and weighted Number of trees: _____				



Per parcel (e.g. 100 m2) in bags



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

Total Area measured (m2): _____

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

Total Area measured (m2): _____

- Other (provide photograph if available) _____

Amount of plantation removed

Specify the tonnes per hectare of plantation removed and measured. Specify the moisture content if available. Check which part of plantation is measured and the form of the material-"A":whole piece, "B":chips

Check as many as apply

	Part of plantation measured	Amount (t/ha)	Moisture content (%)	Form of material:	
				A	B
Full tree (high content of soil)	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>
Full tree (low content of soil; roots have been cleaned/shaked)	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>
Only tree base and root (high content of soil)	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>
Only tree base and root (low content of soil-parts have been	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>
Only aerial part (stem+branches)	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>
Only stem	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>
Only branches	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>
Only stem + thick branches	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>
_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>



Losses of biomass after harvesting	(%): _____	or (tonnes/ ha): _____
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<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.</p> <p>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.</p> <p>Data will be stored in the project intranet during the project lifetime. The information will be used only for the project purposes</p> <p>Therefore, with the signature "I confirm that my participation is voluntary and I allow the publication of this data via the uP_running observatory".</p>	<p><input type="checkbox"/> Please check if you agree</p> <div style="border: 1px solid black; height: 100px; width: 100%; margin-top: 10px; display: flex; align-items: center; justify-content: center;"> <p>_____ (Signature)</p> </div>
<p>Do you want to be publicly acknowledged? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Do you have photographic material that can be provided? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><i>If yes, send them to karampinis@certh.gr</i></p>	

**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)						
Previous Plantation Removal on the same field						
Have you performed before uprooting operations on the same field?	<input type="checkbox"/> Yes	<input type="checkbox"/> No				
If yes, was the previous crop the same as the one you are currently removing?	<input type="checkbox"/> Yes	<input type="checkbox"/> No				
If yes, how do you compare the volume of wood generated from this uprooting compared to the previous?	<input type="checkbox"/> Much less than the previous <input type="checkbox"/> Less than the previous <input type="checkbox"/> Same as the previous	<input type="checkbox"/> Much more than the previous <input type="checkbox"/> More than the previous				
If you got more/less wood in the previous uprooting, why do you think this is the case?	<input type="checkbox"/> Different variety <input type="checkbox"/> Different level of fertilization <input type="checkbox"/> Different level of irrigation	<input type="checkbox"/> Different age of trees <input type="checkbox"/> other _____				
Pruning Operations						
Pruning Operations and Machinery	<u>Use of Prunings</u>	<u>Operations</u>				
Specify the use of prunings and the operations performed typically in your field	A) Shredded to the soil	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">A.1) Tractor with mulcher to shreder wood into small pieces on the ground</td> <td style="width: 30px; text-align: center; padding: 5px;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 5px;">A.2) Manual windrowing + A.1</td> <td style="text-align: center; padding: 5px;"><input type="checkbox"/></td> </tr> </table>	A.1) Tractor with mulcher to shreder wood into small pieces on the ground	<input type="checkbox"/>	A.2) Manual windrowing + A.1	<input type="checkbox"/>
A.1) Tractor with mulcher to shreder 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 style="text-align:center;">Pruning Agronomic Practices and Management of the residues</p> <p style="font-size: small;"><i>Specify the pruning type, frequency, season and the time and cost spent on pruning operations performed typically in your field</i></p> <p style="font-size: x-small;">*2: Only information about the management of the pruning residues, not the operation itself</p> <p style="font-size: x-small;">*3: Include here personnel and machinery costs as a whole cost in €/ha</p>	<u>Agronomic Practices</u>				<u>Management of the Pruning Residues</u>			
		Pruning Type	Frequency			Season	Work spent on pruning management*2		Typical cost for management of pruning*3
			#of times	Per	#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"/>	_____	_____	_____	_____	_____	
Do you think your crop is too vigorous? <i>Specify how vigorous is the crop (trees producing much wood)</i>	<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								



