Questionnaire for Field Measurements Plantation Removal

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

Municipality : Zhytnyky

Latitude : 48.760

Longitude : 27.440

Field Size (ha) 18

Crop Species

- [ ] olives
- [ ] vineyards
- [x] apples
- [ ] pears
- [ ] peaches
- [ ] apricot
- [ ] nectarine
- [ ] plum
- [ ] cherries
- [ ] oranges
- [ ] tangerines
- [ ] lemons
- [ ] grapefruit
- [ ] hazelnuts
- [ ] chestnuts
- [ ] almonds

Variety of crop Apple

Age of crop 45

Density of crop (trees/ha) 330

Width between cultivated rows (m) 6.0

Distance between trees (m) 5.0

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 ☐ Epsylon transversal

Slope (%)   5

Soil Cover

☐ Bare.No grass cover. Tillage several times per year

☐ Seasonal occurence. Herbicides+mowing <50% soil cover

☐ >50% grass cover. Mowed several times per year

☐ 100% Grass cover. Mowed several times per year

☑ old orchards

Crop Yield

Average Crop yield (t/ha)   0

Irrigation   ☑ rain fed   ☐ partial irrigation   ☐ fully irrigated

Intensification degree
Specify the amount of fertilizer and pesticides
☑ organic   ☐ low   ☐ intermediate
☐ high

Plantation Removal Information

Were the plants removed at a typical age for such crops ?
☐ Yes   ☐ Older than typical
☐ Younger than typical   ☑ Don't know

Reason for plantation removal
☑ Old age (renovation)   ☐ Change of crop
☐ Change of variety   ☐ Change of planting pattern
☐ Plant disease

Equipment for uprooting   ☐ Felling with chainsaws   ☑ Uprooting with excavators

Intended use of the plantation
Check how do you manage/use the plantation removal wood for each part of the plantation. Check as many as apply

	Roots	Stems	Thick branches	Fine branches
Abandoned at field side	☐	☐	☐	☑
Burnt in fires at open air	☑	☐	☐	☐
Mulched as soil cover	☐	☐	☐	☑
Shredding and integration to soil	☐	☐	☐	☐
Firewood	☐	☑	☑	☑
Energy	☐	☐	☐	☐

Specify the minimum diameter you consider for 'thick' branches used as firewood (mm)   50

Cost for removing 1 hectare when contracted to a company (€/ha)   896

Date of Measurement
(DD/MM/YY)

02/02/17

Mode of measurement
Specify the method used for
plantation removal measurement

Per tree

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

Number of trees :   10

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 ia a scale for trucks

Amount of plantation removed

Specify the tonnes per hectare of plantation removed and measured. Specify the moisture content if available. Check which part of the 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)	☐	_____	_____	☐	☐
Full tree (low content of soil; roots have been cleaned/shaked)	☐	_____	_____	☐	☐
Only tree base and root (with much soil)	☐	_____	_____	☐	☐
Only the tree base and root (high content of soil)	☐	_____	_____	☐	☐
Only aereal part (stem+branches)	☑	38.05	_____	☐	☐
Only stem	☐	_____	_____	☐	☐
Only branches	☐	_____	_____	☐	☐
Only stem + thick branches	☐	_____	_____	☐	☐

Losses of biomass after harvesting   (%) _____   or (tonnes/ha) _____

Contact Data

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uP_running project field measurement performed by SECB, UCAB