

Farm Survey (Documentation) ClimateFarming

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Farm Survey

Documentation form

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Contact

Name	
Address	
E-Mail	
Telephone	

1. General farm information







(mean, min, max, per season, peaks)		
Temperature (mean, min, max, per season)	[°C]	
Average amount of days < 0°C per year		
Experienced/ historic extreme weather events		☐ yes ☐ no if yes, please specify:
Personal estimation of future climatic tendencies		
Vulnerable sites within farm		

1.1. Farm overview







1.2. Ownership structure & decision making





Climate adaptation measures	
·	

Formulation of goals and priorities

How important are	Very Important	Important	Positive side effect	Not important
Economic performance				
Providing a livelihood for yourself/ family/ employees				
Diverse product range				
Self-sufficiency				
Higher yields				
Local/ heritage varieties				
Processing				
Biodiversity				
Biotope connectivity				
Promoting beneficial insects/ animals				
Wind protection				
Improving soil health/ soil quality				
Preventing soil compaction				
Improving water balance (on landscape level)				
Preventing nutrient leaching				
Reducing greenhouse gas emissions / climate mitigation				
Carbon storage				
Climate adaptation				
Shade for animals				
Fodder quality				
Scenery/ landscape design				







Independence from external inputs		
Other:		

2. Site Assessment

2.1. General information







Tillage regime	
Machinery use	
Other practices	

2.3. Protection status







🜟 Phenological indicators	
👷 Species composition	
👷 Plant communities	
👷 Growth rate, yield	

2.7. Existing cultures







3. Soil Assessment

Date & Time:		
Authors:		
Weather:		
Air temperature:	_ °C	

3.1. Visual Soil Assessment and Extended Spade Test







3.1.5. Aggregate stability test / Slaking test

Horizon	# stable aggregates	# completely slaked aggregates	% stable aggregates	Notes
Topsoil (0-15 cm)				0
Subsoil (15-30 cm)				6

3.1.6. Assessment Score

Zone ID	Horizon	Root score	Soil structure score	% stable aggregates	Overall soil structure index
	Surface (0-1 cm)				
	Topsoil (0-15 cm)				
	Subsoil (15-30 cm)				
	Total (=Topsoil + Subsoil)				

3.2. Root indicators

- White root tips: none few moderate many all	0
- Soil attached to roots: _ none _ little _ moderate _ a lot	
- Smell: pleasant/earthy foul/putrid/rotten eggs fungal/ fresh forest soil like plantation (e.g. carrots) no smell (also not earthy) other, descr	
- Root nodules on legumes (per plant): none few moderate many on ever poot	/ery
$ ightarrow$ nodule colour on the inside: \square reddish/pink \square greyish green or brown \square otl	her,







describe:
- Root orientation/ root barriers (mechanical/ chemical):
- Root depth: most roots: cm, deepest root: cm
- Visible Mycorrhizae: _ none _ few _ moderate _ many
Space for additional notes:
Remember to:
 draw a map of zones within every field
 take pictures of the soil pits with a measuring tape
take soil samples and note sample IDs
Time needed to assess this zone:
【 If you are doing the base case scenario, you are done with the Soil Assessment. Well done!
♠ For best-case scenario, continue:

3.3. Soil texture (Soil Ribbon Test)







- Moisture: dry slightly moist moist very moist wet
- Smell: pleasant/earthy foul/putrid/rotten eggs fungal/ fresh forest soil like the plantation (e.g. carrots) no smell (also not earthy) other, describe:
- Colour: dark brown light brown grey/blue/greenish white reddish/orange other, describe:
- Mottles: none gray/blue/greenish orange/red; if present, how many?
- Soil pit: describe and sketch:
depth of A-horizon: cm - Compaction: ☐ yes ☐ no; if yes, at which depth: cm/ cm/ cm/
- Soil depth: cm, Bedrock depth: cm, Groundwater depth: cm
- Volumetric stone content: %
Space for additional notes:

3.5. Earthworms







3.6. Infiltration test