Permaculture questionnaire

If you have questions regarding this questionnaire, please contact Stefan Griesser gristeph@student.ethz.ch

Name of the Property, garden or farm:
Location:
Owner:
Project type: (community/business/farm/private):
Employees:
Certified organic: 🗌

As permaculture includes various methods from different fields the questionnaire is grouped into different sections. There is a section about the design approach, another about the methods and concepts used during planning. We are interested in how the implementation worked out for you in one section. There is a part about the plants used. One part investigates animal use. We are interested in your water strategy and energy strategy and how you manage your soil. At the end we have a short part about permaculture ethics too.

Design approaches:

Have you used group work methods to outline your permaculture project?	Yes/No	A1
Have you used Dragon Dreaming?	Yes/No	A2
Example used: Facilitators, Minute taker, Timekeeper, Heart watcher?	Yes/No	A3
Example: Consensus works?	Yes/No	A4
Example: Hopi Poem or songs or games?	Yes/No	A5
Example: Crossed arm exercise?	Yes/No	A6
Example: Cosmic circle?	Yes/No	A7
Example: Vision workshop?	Yes/No	A8
Example: Open Space Technology?	Yes/No	A9
Do you use "Transition to Resilience" (T2R) training?	Yes/No	A10
Have you used Design mandala pictures (Worldview, Social, Economic, Ecological)?	Yes/No	A11
Did you use Brainstorming or "Wild design"?	Yes/No	A12

How many people hold a Permaculture Design Course (PDC) certificate in your project?

None: 🗌

One: 🗌

A13

According to David Holmgren's 2002 book "Permaculture: Principles and Pathways beyond sustainability" there are 12 principles used in permaculture. Which of the principles influenced you in creating your permaculture project?

More than one:

1.	Observe and interact?	Yes/No	A14
2.	Catch and store energy?	Yes/No	A15
3.	Obtain yield?	Yes/No	A16
4.	Apply self-regulation and accept feedback?	Yes/No	A17
5.	Use and value renewable resources and services?	Yes/No	A18
6.	Produce no waste?	Yes/No	A19
7.	Design from pattern to details?	Yes/No	A20
8.	Integrate rather than segregate?	Yes/No	A21
9.	Use small and slow solutions?	Yes/No	A22
10.	Use and value diversity?	Yes/No	A23
11.	Use edges and value the marginal?	Yes/No	A24
12.	Creatively use and respond to change?	Yes/No	A25

Used methods and concepts:

Planning:

Have you used the permaculture zoning method when planning the garde	en? Yes/No	B1
Did you implement Zone 1 (Home (Zone 0/00) and food security	garden)? Yes/No	B2
Did you implement Zone 2 (Close spaces and orchards)?	Yes/No	B3
Did you implement Zone 3 (Large open spaces and garden)?	Yes/No	B4
Did you implement Zone 4 (Reserves, fuel forests, windbreaks, et	c)? Yes/No	B5
Did you implement Zone 5 (Wildlife corridors, native plant sanctu	aries)? Yes/No	B6
Did you use scaling to adapt the zones?	Yes/No	B7
Did you implement Sectors in the zones (Sun exposition, topogra	phy, etc)? Yes/No	B8
Did you implement Vectors in the Zones (roads, etc)?	Yes/No	B9
Do you use the closed looped system permaculture recommends?	Yes/No	B10
Did you choose plants and structures for special combinations you would	like:	
Have you planed guilds in your project?	Yes/No	B11
Other Methods:		B12

Have you looked into how the garden will evolve over time:		
Have you planed successions of plants at your site?	Yes/No	B13
Did you use Backcasting? (E.g. What will it look like in 20 years)	Yes/No	B14
Other Methods:	_	B15
Have you used patterns when planting shrubs and trees?	Yes/No	B16
Have you checked the site requirements of the used plants beforehand?	Yes/No	B17
Did you optimise access:		
Do you use keyhole design?	Yes/No	B18
Do you use steppingstones?	Yes/No	B19
Have you planned measures to change or adapt the microclimate at your site?	Yes/No	B20
How did you plan beneficial micro-climates?		
	_	B21
Can frost be a problem at the location?	Yes/No	B22
Did you implement measure to reduce frost problems?	Yes/No	B23
Methods:	_	B24
Did you use the classical selection, grouping, adaptation, pattern creation, control, in your design the way Bill Mollision recommends?	Yes/No	B25
Did you plan how much food and produce you are aiming for?	Yes/No	B26
Did you estimate how much time and energy is needed day to day?	Yes/No	B27
Do you know if there are variations of soil in the area you use?	Yes/No	B28
Ho did you take the soil variations into account in your planning:		
		B29
Did you plan for low garden maintenance?	Yes/No	B30
Is there a view to enhance or block out?	Yes/No	B31
Please choose the statements that apply to you (circle or underline):		
 → I'm dedicated to quality (organic or biodynamic not necessarily permaculture) → Diversity is a high priority, with many crops and sometimes livestock → The project is labour intensive with output → The project is multi-dimensional; producing, processing and delivering → We focus on educational and cultural dimensions → We are dedicated to environmental improvement 		B32 B33 B34 B35 B36 B37

Have you implemented the zones according to:

social values Yes/No B39 economic values Yes/No B40 ecological values Yes/No B41 Is the enterprise a city farming project? Yes/No B42 Is the farm a Community Supported Agriculture (CSA)-Project? Yes/No B43 Is your project/garden/farm part of a bigger permaculture project? Yes/No B44 Are you part of a bioregional organisation as Mollision proposed? Yes/No B45 Did you start or are you part of a permaculture foundation the way Mollision introduced them? Yes/No B46 Are you part of a modern sustainability trust or fund? Yes/No B47 Do you use an alternative financial system in your project? Yes/No B48 Implementation: How well did the implementation of zones in your project work out? C1	spiritual values	Yes/No	B38
economic values ecological valuesYes/NoB40 Yes/NoIs the enterprise a city farming project?Yes/NoB42Is the farm a Community Supported Agriculture (CSA)-Project?Yes/NoB43Is your project/garden/farm part of a bigger permaculture project?Yes/NoB44Are you part of a bioregional organisation as Mollision proposed?Yes/NoB45Did you start or are you part of a permaculture foundation the way Mollision introduced them?Yes/NoB46Are you part of a modern sustainability trust or fund?Yes/NoB47Do you use an alternative financial system in your project?Yes/NoB48Implementation: 	social values	Yes/No	B39
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Implementation: How well did the implementation of zones in your project work out? No problems C1	Do you use an alternative financial system in your project?	Yes/No	B48
Implementation: How well did the implementation of zones in your project work out? No problems C1			
How well did the implementation of zones in your project work out?	Implementation:		
□ No problems C1	How well did the implementation of zones in your project work out?		
	□ No problems		C1

How well did the implementation of the closed loop system in your project work	oject work?
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□ No problems	С3
Problems:	C4
How well did the implementation of guilds in your project work out?	
□ No problems	C5
Problems:	C6
How well did the implementation of plant succession in your project work out?	
□ No problems	C7
Problems:	C8

How well did the implementation of patterns work in your project?

□ No problems	C9
Problems:	C10
How well did the implementation of keyhole design or steppingstones for your access paths work?	
□ No problems	C11
Problems:	C12
How well did the implementation of measures to change or adapt the microclimate at your site work?	
□ No problems	C13
Problems:	C14

Please specify what fraction of the area you apply the following practices. Use either estimates in percent, square meters, Are's or hectares (please specify).

mulching	 C15
broad composting area (Flächenkompostierung)	 C16
terraced garden	 C17
box patch (Kastenbeet)	 C18
raised bed (Hochbeet)	 C19
Hay bed (Heubeet, E.x. for potatoes)	 C20
pole tent (for climbers like beans)	 C21
pit or herb spiral	 C22
swales	 C23
aquatic systems (lakes, streams,etc)	 C24
deadwood heap (beneficial organism retreats)	 C25
stone heap (heat savers or beneficial organism retreats)	 C26
hedge, hedgerow or live fence (wind breaks)	 C27
trees as shading and climbing help	 C28
nitrogen fixers (clover, sea buckthorn, Robinia, etc)	 C29
animal manure	 C30
compost	 C31
no till / no pronging	 C32

Bio-char use:		C33
Crop-rotation (Potatoes, Legumes, Brassicas, Roots):		C34
Special horticultural practices:		
Do you use Hydroponics (Growing in liquids)?	Yes/No	C35
Do you use Aeroponics (Growing in mist)?	Yes/No	C36
Do you use Aquaponics (Fish & Farming)?	Yes/No	C37
supporting measures:		
Do you use precision farming in your project?	Yes/No	C38
Do you use Integrated Pest Management (IPM with chemicals)?	Yes/No	C39
Do you use Biological Pest Management (BPM)?	Yes/No	C40
Used Plants:		
 Do you grow mushrooms? How many bales or logs? What varieties? 	Yes/No 	C41 C42 C43
 2. Do you grow vegetable bamboos? How many square meters?	Yes/No 	C44 C45 C46
 3. Do you use annual vegies (Example: Salad, Carrots)? How many square meters? What varieties? 	Yes/No 	C47 C48 C49
 4. Do you use perennial vegies (Example: Hops, Jerusalem artichoke, Daylily)? How many square meters? What varieties? 	Yes/No 	C50 C51 C52
 5. Do you grow medicinal plants (Example: Mint, Roses, Marigolds)? How many square meters?	Yes/No 	C53 C54 C55
 6. Do you grow spices (Example Saffron or Sezuan pepper, Juniper)? How many square meters? What varieties? 	Yes/No	C56 C57 C58

7.	Do you grow herbs (Example Lovage)?	Yes/No	C59
	How many square meters?	_	C60
	What varieties?	_	C61
8.	Do you grow plants for oil production?	Yes/No	C62
	How many square meters?		C63
	What varieties?	_	C64
9.	Do you use vines, creeping plants (Example: Grapes or Kiwis)?	Yes/No	C65
	How many?		C66
	What varieties?	_	C67
10.	Do you grow groundcover-berries (Example: strawberries or cranberries)?	Yes/No	C68
	How many?		C69
	What varieties?	_	C70
11.	Do you grow shrub-berries (Example: currants or raspberry)?	Yes/No	C71
	How many?	_	C72
	What varieties?	_	C73
12.	Do you have orchard or "Food forest" components integrated?	Yes/No	C74
	Did you implement Agro-forestry systems components?	Yes/No	C75
Wo	uld you classify the whole project as:	_	
	Orchard	Yes/No	C76
	"Food forest"	Yes/No	C77
	Agro-Forest	Yes/NO	C78
	Other:	_	079
	 Do you use native trees (Example: Apples, Pears, Walnuts or Hazelnuts)? How many? 	Yes/No 	C80 C81
	• Do you use exotic trees (Example: Blue Bean Plant, PawPaw, Pecans, Figs)?	Yes/No	C82
	How many?	_	C83
	Nutt trees:		
	Tree species?	_	C84
	Fruit trees:		
	Iree species?	_	C85
	Other trees (Example Sezuan pepper)		
	• Tree species?		C86

Kept Animals:

Do you have:

Bees	Yes/No	D1
Rabbits/Connie's	Yes/No	D2
Chickens	Yes/No	D3
Do you use a Chicken-Tractor?	Yes/No	D4
Ducks	Yes/No	D5
Pigs	Yes/No	D6
Goats	Yes/No	D7
Sheep	Yes/No	D8
Cows	Yes/No	D9
nu have a special "worm-farm" for compost?	Ves/No	D10

Do you have a special worm-farm for compost?	Yes/No	D10
Do you grow insects as animal feed?	Yes/No	D11
Did you add nesting boxes for wild animals?	Yes/No	D12

Water strategy:

Do you use an irrigation system?	Yes/No	E1
Have you looked into how you can optimise water use?	Yes/No	E2
Have you implemented a water strategy?	Yes/No	E3
 → Do you use it to transport heat (into houses/greenhouses)? → Do you use it to create special microclimates? → Do you use it to reflect light? (Wood understories, buildings)? → Do you use it to increase diversity by multiplying the edge effect? 	Yes/No Yes/No Yes/No Yes/No	E4 E5 E6 E7
 → What kind of water management have you implemented in your project? Using water as many times as possible till it leaves the system? Slowing down the water flow across your property? Using gravity to move water around as much as you can? Solving the problem of contaminated water at the source? Ensuring the water leaving your property is clean? Using "Keyline analysis" by Yeomans (as did Mollision) 	Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No	E8 E9 E10 E11 E12 E13
Did you implement measure to adapt to climate factors like stone mulch, dew catchers, sun collectors or wind breaks?	Yes/No	E14
Have you planted trees to increase moisture and water collection in your project?	Yes/No	E15

Have you implemented measures to increase ground water accumulation?	Yes/No	E16
Do you collect and use rainwater?	Yes/No	E17
Do you use and clean grey water locally?	Yes/No	E18
Do you process excrement locally?	Yes/No	E19
Did you create a lake?	Yes/No	E20
Did you create some swamp land or river?	Yes/No	E21
Do you grow aquatic plants?	Yes/No	E22
Did you have to create a drainage in your project?	Yes/No	E23
Do you use infiltration drains?	Yes/No	E24
Have you incorporated any of Mollisions proposed irrigation systems like fleece or drip irrigation?	Yes/No	E25

Energy strategy:

Do you use motor-powered tools and machines? Examples: ploughs, walk-behind tractors or a tractor and other farming implements, et	с	F1
What natural energy sources are used in your project? Examples: Solar, Water, Wind, geological heat, wood, biogas, etc		
Have you implemented carbon compensation strategies?		F2 F3
Did you create sun traps?	Yes/No	F4
Do you use a greenhouse or poly tunnel / loop house to extend the growing period?	Yes/No	F5
Is it heated?	Yes/No	F6

Questions regarding soil:

Have you use the preserving jar method or any other method to analyse your soil?

What method was it?		G1
How recently have you repeated it?		G2
Do you use the USDA soil classification like Mollision described it in his first book?	Yes/No	G3
Do you use another soil classification system?		G4

What soil types do you have in your project?

		G5
Did you have to reconstruct your soil?	Yes/No	G6
Have you measured soil C content in your project?	Yes/No	G7
If yes, what is the soil C content?		G8
Have you measured phosphorus and nitrogen?	Yes/No	G9
If yes, what is the content?		G10
Do you have problems with soil erosion in your project?	Yes/No	G11
Did you take measure to minimize soil erosion?	Yes/No	G12
Please specify the measures:		G13
Have you adapted your sowing, planting and crop rotation plan to increase soil formation?	Yes/No	G14
What measures did you take?		G15
Do you add additional compost to increase fertility of your soil?	Yes/No	G16
Have you used biochar or terra preta in your project?	Yes/No	G17
Did you have to take measures against soil compaction?	Yes/No	G18
If you have soil compaction problems do you use plants or machinery to resolve the problem?		
Did you have to do earthworks to create your project?	Yes/No	G19 G20
Did you create terraces for your project?	Yes/No	G21
Do you use the chicken or pig plough?	Yes/No	G22
Any soil cultivation methods that aren't mentioned above?		
		G23
For how long have you manged your soil with permaculture practices?		G24
Has the whole area been managed for the same time or did you expand the area?		
Area constant: Area expanded:		G25
If you expanded the area, in how many steps:		G26
Why did you expand?		G27
List the sizes of the areas:		G28

Permaculture ethics:

Bill Mollision only uses "earth care", "people care" and "fair sharing of resources" as ethical baselines. Today there are many extended approaches in permaculture. What approach do you use?

Did the six principles of natural systems by Birch inspire you in your design? (Permaculter -A Designers Manual; Mollison 1998: 34-35)	Yes/No
Did you take Mollisons demand for an energy balance into account?	Yes/No
Have you implemented measure to compensate negative bio-social consequences in your project?	Yes/No
How did you implement Mollisions principle that you have to give back as muc as you take out of a system (law of giving back)?	ch
How did you implement Mollisions principle to work with and not against natu	ıre?
Give an example:	
How did you implement Mollisions principle that the problem is the solution?	
Give an example:	
in time are opportunities and niches in space-time programs or time-tables. Have you implemented space, time or space-time niches in your project?	
Mollison uses the 1. law of thermodynamics to demonstrate that in nature on entropy counts and that's why ordered systems need a lot of upkeeping. That use cycles and accept a certain amount of disorder in a permaculture setting. How did you implement that in your project?	ly the end goal of 's why you should
Mollision states that it's not the number of elements in a system but the conn that stabilize a system. Did this view impact your project too?	ections
Have you implemented the concept of information as a resource and its sharing in your project?	Yes/No
Have you implemented pattern- and current-analysis like it is used in flow poo summer air currents or an herb spiral?	ls or winter and Yes/No
Have you been inspired by Mollisons approach to alternative nations?	Yes/No