SPA	ADETE	ST S	oilDo	c – Fo	rm																											
Not all parameters are present/visible at all times – leave these boxes blank.						-	Field: Da							Date	e:				Cro	p, ter	npora	orary or permanent grassland, growth stage, prior crop:										
Use the explanations and sample images for more detailed information on filling out each block.  The spade test is not reliable in dry conditions								Date,	type	and de	pth c	f last	tilla	ge:																		
								Coordinates:														☐ Ph	oto	Terra	rain: ☐ Flat ☐ Slope ☐ Hollow ☐ Hill Crest% Slope Angle							
(In-hand compaction check or tensiometer values									Comparability: ☐ Representative area ☐ Problem zone,% area affected									%			Soil	type <sup>:</sup>	: Sand** loamy sand** sandy loam									
between 15 and 40 cbar)!  Problem description (only if Problem zone is ticked):								(ad):																			☐ Loam ☐ loamy clay ☐ clay** ☐ very silty (> 50 %)					
Problem description (only if   <b>X</b>   Problem Zone is ticked):																											peaty/organic (humus > 10 %) pH*					
** for very c													y clayey/very sandy soils, there are adapted tools on the back and more																			
so	SOIL SURFACE: Assessment of condition														Field:   Date:   Crop, temporary or permanent grassland, growth stage, prior crop:			OBSERVATIONS DURING THE EXCAVATION														
A GROUND COVER (radius 1 m)									В								(If necessary, specify with your own notes)															
☐ Uncovered/bare soil									Aggregates intact, easily recognisable, permeable surface								Stones															
Control man plants (canada plants) meadon, mea																		☐ C Plough pan, depth, thickness														
Covered with mainter Composity crop residues to/0												Undergampered grap residues, depth																				
General																																
Rei	marks	:																											Rust stains or grey-greenish colour tones, depth			
SPADE TEST SOIL SAMPLE TYPE: Assessment of properties (each layer separately; adapted scale for very clayey/very sa										andy	soils	on re	evers	e)			☐ <b>(F)</b> Earthworms (individuals / ducts / faeces)															
			G					<b>(1)</b>			0			0			K				0			M					☐ Difficult to dig, soil penetration impeded			
Layer:	No. Depth	SIZE OF AGGREGATES									E WHITHIN			OF THE		ROOT DENSITY		LEVEL (		(Vis	(Visual Evaluation				☐ Bad smell/odour							
												ible				nard													Imprint			
1 Layer no.	Depth of cm	Depth up tocm	Mostly smaller than 1 cm	Mostly 1–2 cm	Mostly 2-5 cm	Mostly larger than 5 cm	10	Rounded	Angular to rounded	/ sharp	many p	pores, macropores and cracks	Dense, no pores or only individual macropores / cracks	Flaky, crumbly, unstable	crushed	only be crushed with a lot of force,	<u> </u>		buted/root-free root felt	No roots	hard,		moist to w	very good	good (inta	mediocre	Sq4: bad (dense)	very poor	Haute école spécialisée bernoise  FiBL  Funded by the Federal Office for Agriculture, FOAG.  The method was developed in co-operation with numerous partners			
2																													l ·			
3																								_					Version July 2023, <u>www.spatenprobe.ch</u>			

SPADE TEST SOIL SAMPLE: Assessment of the condition of clayey soils															
Lay Dep	er No. oth	./	G SIZE THE	OF AGGF	REGAT	ES			M OF AGGF	REGAT	rES	STRENGTH OF THE AGGREGATES			
Layer no.	Depth of cm	Depth up to cm	Mostly smaller than 2 cm	Mostly 2-5 cm	Mostly larger than 5 cm	Larger than 10 cm	A single contiguous block	Rounded	Angular to rounded	Angular / sharp-edged	Very sharp-edged with conchoidal fracture	Can be crushed with little force	Can be crushed with more force, but only with the fingers	Can only be crushed with a lot of force of the whole hand	
1															
2															
3															
4															

SPADE TEST SOIL SAMPLE: Assessment of the condition of sandy soils															
Lay Dep	er No. oth	./	G SIZE THE	OF AGGI	REGAT	ES			M OF AGGI	REGAT	ES	STRENGTH OF THE AGGREGATES			
Layer no.	Depth of cm	Depth up to cm	Mostly less than 6 mm	Mostly less than 1 cm	Mostly 1-2 cm	Mostly 2-5 cm	Mostly larger than 5 cm	No aggregates, only individual grains	Rounded	Angular to rounded	Angular / sharp-edged	Disintegrates by itself	Some cohesion, can be crushed with very little force	Can be crushed with little force, stable	
2															
3															
4															