A holistic view of farm sustainability

The GFM framework is based on a holistic view of farm sustainability which puts agricultural production at the heart of what it means to be sustainable. This definition recognises three aspects of farm sustainability:

- 1 To provide sufficient, high-quality food, fuel, and fibre to meet society's current needs.
- 2 To safeguard the ability of future generations to meet their needs for food, fuel, and fibre by protecting and improving the environmental, social, and economic condition of every farm.
- **3** To move from minimising the negative impacts of farming, towards farming which actively enhances the state of people and planet beyond the farm gate.



Your 'state of the system' GFM assessment

This assessment focuses on the environmental state or condition of your farm in order to identify risks to its ability to produce food, fuel, and fibre products for future generations. We also record the products you are producing to meet the needs of today.

These are the first two key aspects of farm sustainability as defined above.

The third aspect of sustainability – to improve the impacts of farming on people and planet, is closely linked to the first – a farm in good condition in this assessment is also likely to have more positive and fewer negative impacts on people and planet beyond the farm-gate. However, formally assessing some farm outputs and the impacts of the farm requires the use of specialised tools (like carbon footprint calculators and impact assessments). The state of the system approach is a starting point for addressing your impacts and for ensuring that changes to reduce negative and increase positive impacts of the farm are not at the expense of its future viability.

Sustainability is not a one-off target. As external conditions change continually, sustainability means being able to continue to adapt your farm system over time, while also being resilient to continual changes in conditions.

So, this type of assessment should be something you do periodically to track changes in the state of your farm. That way you can see whether your system responds as expected to changes you make, and investigate unexpected issues. Repeated assessment also helps you to spot the effects of outside influences on the environmental, economic and social condition of your farm.

Why take this approach?

We want to move away from assessments which 'judge' farms and towards assessments which identify issues and priorities for change both on-farm and off-farm, so that farmers, industry and society in general can work on the same side to bring improvements. This includes highlighting issues for your farm which are outside your control – like pollution from off-site or low prices for farm products.

Through this approach we want to help farmers to highlight the challenges they are facing and to drive change on-farm and beyond the farm gate which can make sustainable farming more viable.

The aims of these trials are:

- 1 To put productive farming at the heart of the sustainability agenda, highlighting positive links between good conditions on-farm and improved impacts on people and planet beyond the farm gate
- 2 To test the usefulness and practicality of this type of assessment
- 3 To use anonymised findings to highlight external pressures affecting farms, in order to drive more supportive policy for sustainable farming
- 4 To explore how to maximise the usefulness of collected data, to support farm management, to inform other assessments, and to meet reporting requirements.
- 5 To encourage tool developers to incorporate the 'state of the system' approach into their own on-farm assessments

Using this spreadsheet

The spreadsheet is set up so you can see clearly where your results come from and how different answers to the questions would change them.

All assessments and models are imperfect, so it is important for you to be able to see how they work. This can help you interpret the results appropriately as a starting point for thinking more about your farm's sustainability.

Thanks very much for your support and time trialling this assessment - we

Farm Information

Welcome to the first section of your assessment. This section asks for general information that gets used in several parts of the assessment to calculate your results. Throughout this assessment you will find some grey answer boxes - these will autoffill based on data you provide in this section and elsewhere. The type of data asked for here are often asked for yother assessments too - so in the longer term we are looking at how you can share what you input here to other tools you use, to give you a head start with them (and vice verso).

Please select the start date for your farm assessment	Month Year	J			
Which systems are present on your farm? Select of the apply rapid weight of the apply rapid weight of the apply rapid weight of the apply rapid weight of the apply relevant farm located? Please provide the initial four digits of your postcode (e.s. 5723) to help us apply the relevant climate data Where is your farm located? Please spectide the initial four digits of your postcode (e.s. 5723) to help us apply the relevant climate data Use stock to regular farm is in: Natrients in the demosphere, including from things like car exhaust emissions, ore apposited all over the UK at different levels - howing this is important in deciding how much integroup you read to ado to the ling yourged, and in estimating how much	Yes / No	The map represent zones of the UK differing in the amount of nutrients deposited on the land surface: Zone 2: 55 kg N ha Zone 3: 55 kg N ha Zone 3: 55 kg N ha Source: Yolson C., Topp, C. Stockloke, E. (2015) A Guide to Wurlen Eudogetting on Organic Farms. Institute of Organic Training and Advice.			
Use the drop down list to select which of these best describes your average rainfall (see the definitions of each level below): Low - less that Stoma a year Moderate - 660 - 100 mm a year Hish - more that Stoma a war What is the total size of your farm? What is the total size of your farm?	hù D hà				
1 Cropping and Grassland Areas					
() Please list the crops you produced on your farm in the assessment year (if any):	If you usually work in acres, you can use the 'Unit convertor' tab to calculate your crop Area	Marketable yield Yield (tonnes/ha) (Tonnes)	Sales of by products should not be captured in this section By-product yield By-product yield By-straw (Tonnes) (Tonnes)	sent off farm, as as a value added raw material product e.g. bread (Tonnes) (Tonnes)	Quanity fed to own livestock (Tonnes)

Select crop	
Select crop	

ii)	Please list the Forage Crops and Temporary Pasture (Grassland less than 10 years old) you had on your farm in the assessment year (if any):
	Select forage or temporary pasture type
	Select forage or temporary pasture type
	Select forage or temporary pasture type
	Select forage or temporary pasture type
	Select forage or temporary pasture type
	Select forage or temporary pasture type
	Select forage or temporary pasture type
	Select forage or temporary pasture type

iii) P	lease list the type	s of Permanent Gra	assland (10 years or)	older) you had on your
--------	---------------------	--------------------	------------------------	------------------------

Select grassland type			
Select grassland type			
Select grassland type			
Select grassland type		 	
Select grassland type			
Select grassland type			
Select grassland type			
Select grassland type	-		

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Area	
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ha ha ha

ha ha ha ha ha

Clover content	Yield (total
Clover content	Yield (total

Please specify type Please specify type

Please specify type:

Clover content	field (total tonnes)

Clover coverage categories as % of field area: High is greater than 30% Medium is between 15 and 30% Low is more than 3 % but less than 15% Zero is less than 3%

Sold or sent off farm

Improved permanent pasture: Permanent grasslands on good or medium quality soils, used with more frequent defoliations, higher fertilization rates, higher stocking rates and producing higher yields than seminatural grasslands.

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nne

anent Pasture: Grasslands that are not agriculturally improved through cultivation, reseeding, fertilization, irrigation and drainage. Ti zed or used for making hay, and additional inputs of nutrients by fertilizers or manure are low (< 50 kg N per ha per year). This includes

nd out of production but maintained: Areas of permanent grasslands, regardless of the grassland type and the previous use, of which the produce s is no longer used for agricultural production purposes, but which are maintained in good agricultural and environmental condition by appropriate

Natural Grassland: Non-agricultural low productivity grasslands, including climax grasslands, with minimum human interference (not mowed, fertilized or stimulated by chemicals which might influence production of biomass), often situated in areas of rough, uneven ground.

iv) Use the columns to the right to indicate the quantity of plug plants and seeds brought on farm or taken off farm during the assessment year: Whent (Spring and W Barley Spring and W Oats Spring and W Oliseed Rape (Spring and W

(Spring and Winter)	
(Spring and Winter)	
(Spring and Winter)	
(Spring and Winter)	
Spelt	
Quinoa	
(Spring and Winter)	
Field Beans seeds	
Grass/Clover seeds	
Vegetable seeds	
Fruit seeds	
Onion sets/seeds	
Potato seeds	
n manure, leys seeds	
Other seeds 1	
Other seeds 2	
Plug Plants	

Tonnes
Tonnes
Tonnes
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Tonnes Tonnes

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	- 1
	- 1
	- Г
	- Г
	- Г
	- Г
	L

2 Types of Habitats and Features

i)	Boundary Features			
	What is the total length of hedgerows on your farm?		km	
	On average how wide are the hedgerows?		m	
	Hedgerow Area	0	ha	Average width
	What is the total length and average width of Dry Stone walls? (do not count stone		km	
	walls already counted among hedgerows)			
	What is the total length and average width of Ditches on your farm? (do not count		km	
	ditches already counted among hedgerows)			
	What is the total length and average width of banks on your farm? (do not count		km	
	banks already counted among hedgerows)			
	What is the total length and average width of other boundary features on your farm?		km	
	(do not count other boundary features already counted among hedgerows)			
			Т	ype of boundary fea
	If other boundary features present please specify what type and their length, but do		km	
	not include fences			

Forage, green manu



0 0

) Woodland & Trees What is the total area of woodland on your farm (excluding orchards/silvopasture)?	ha		
Broadleaved and Mixed Woodland Coniferous Woodland	% % 0 % check		
What is the total area of orchards/silvopasture on your farm? Number of standing trees outside of woodlands?	ha number		
1 <u>Other Inheliatas</u> What is the total area of heathland and shrubland on your fam? What proportion of heathland and shrubland would be described as Dearf Shrub Heath Dense Scrub	ha % % 0 % check	Heathland and shrubland: Vegetation with over 25% cover of all woody species that are not trees. Dwarf shrub heath occurs where shrubs do not exceed 1.5m (UKHAB, 2018) http://econtability.co.al/wp.content/spinal/2018/05/UKHABIAT Casafection-Field Key_May2018.pdf	
What is the total area of sparsely vegetated land on your farm? What proportion of sparsley vegetated area would be described as: Inland rock Supraittoral Rock Supraittoral Sediment	ha % % % 0 % check	Sparsley vegetated land: Unwegetated, disturbed (regularly or drastically periodically) or sparsely vegetated habitats (permanently or periodically naturally unwegetated areas) inhabited by stress tolerant vegetated. Vertical to gently sloping bedrock and stable boulders in the supralittoral (or splash zone) of the majority of rocks shores. Supralittoral Sediment: Mud, sand and shingles above high tide but within the splash zone) of the splast zone) of the splase zone.	
What is the total area of wetland on your farm? What proportion of wetland would be described as: Bog Fen, marsh or swamp	ha % % 0 % check	Wetland: Any habitat that is waterlogged (water table at surface water standing for between 50% and 70% of the year). Bog: Bain fed inundated or waterlogged areas where peak has formed in the past. Fer marsh, or swamp: inundated or waterlogged obland habitat different from bogs in that water is supplied by groundwater or slow-moving rainwater and this flows through them and peat does not form. http://countability.co.uk/up.content/upload/2018/5/UC.Habitat Clauffcation-Habitat Offerent/wite.V10-May-2018- 1.pdf	
What is the total length and average width of rivers and streams on your farm? What is the total ares of lakes and ponds on your farm? Total area of rivers, partices, and ponds on your farm? Includes ponds and watercoarses What proportion of rivers and takes would be described as: Rivers and Lakes - Standing open water and canals Rivers and Lakes - Rivers and streams	m ha 0 ha % % % 0 % check	Average width m	
What is the total area of artificial water holding areas on your farm? e.g. reservoirs	ha		
What is the total area of marine inlets and transitional waters on your farm? What proportion of marine inlets and transitional waters would be described as: Littoral Rock Littoral Sediment	ha % % 0 % check	Littonal Rock: vertical rock; shore platforms, boulder shores, or rocky reefs Littonal Sediment: Beaches, Sandbanks and Intertidal mudifats	
What are the areas of the following on your farm? Moorland Designated fon cropped areas (e.g. field margins, wild bird mixtures) Other non agricultural land	ha ha ha	Moorland: open upland landscapes dominated by heather and maintained through human management. It is found above the limit of enclosed agricultural land and below the theoretical climatic tree line at about 600m	
Built up land including roads	ha	(Be careful not to double count areas included in the categories above)	
Total Farm Size Total Filipide Agricultural Area Total Utilised Agricultural Area Total Grassiand / Forage Area (includes moorland) Total Arooping Area Total Area of natural Water holding habitats Total Wildlife Areas	0 ha 0 ha 0 ha 0 ha 0 ha 0 ha		

When adding the average number of animals please use the 'Livestock calculator' tab to help you calculate

i) Please list the livestock types you had on your farm during the assessment year:

3 Livestock

Select livestock type	
Select livestock type	

ii) How many of each livestock type were <u>brought on farm or sent off farm</u> during the assessment year? (sold animals are picked up in the table below)

Average no. of animals on farm (owned)	Average no. of visiting animals flying flock/tack grazing	Livestock Unit	Average live weight of animal		Brought on farm during the year (no. animals purchased, gifted or returned from grazing)	Sold or sent off farm (no. animals, includes deaths)
		N/A		kg	0	0
		N/A		kg	0	0
		N/A		kg	0	0
		N/A		kg	0	0
		N/A		kg	0	0
		N/A		kg	0	0
		N/A		kg	0	0
		N/A		kg	0	0
		N/A		kg	0	0
		N/A		kg	0	0
		N/A		kg	0	0
		N/A		kg	0	0
		N/A		kg	0	0
		N/A		kg	0	0
		N/A		kg	0	0
		N/A		kg	0	0
		N/A		kg	0	0
		N/A		kg	0	0
		N/A		kg	0	0
		N/A		kg	0	0

Total Number of Livestock on Farm

If animals are slaughtered on farm for health reasons consider them as deceased on farm i.e. disease, age, or accident

Number of Animals Brought on Farm as:			Number of Animals Sent off Farm:			
New Livestock (owned)	Livestock Returned from Grazing Elsewhere (owned)	Visiting Livestock (not owned)	Own Livestock sent to Graze Elsewhere	Visiting Livestock returned to Owner	Own Livestock deceased on Farm	Visiting Livestock deceased on Farm
	1	1			1	

If animals are slaughtered on farm for health reasons consider them as deceased on farm i.e. disease, age, or accident

	Number of Animals Sold as:						
Meat animals		Butchered/ slaughtered on farm		Channel (de Marcolano	Prooding Animals	Other (e.g. riding	
No. Animals	animal live weight (kg)	No. Animals	animal dead weight (kg)	stores / lattening	breeding vinitials	horses)	

iii) How many of each livestock type were sold during the assessment year?

ii) Please list <u>which primary livestock products</u> you produced on your farm during the assessment year (if any) and fill in the amount produced for each: Brought on farm (not Sold or sent off farm produced on farm) (raw material) Sold or sent off farm as a <u>value added product</u> e.g. cheese, yogurt Select product type Select product type Select product type iii) If you purchased, sourced or sold animal feed during the assessment year, please specifiy the type and amount: Brought on farm Sold or sent off farm Select feed type Select feed type Select feed type Select feed type nnes nnes nnes nnes onnes onnes onnes onnes onnes onnes onnes onnes Select feed type Select feed type Select feed type nnes nnes nnes nnes nnes nnes lect feed type protein % protein % protein % nnes lect feed type iv) If you purchased, sourced or sold animal bedding during the assessment year, please specify the type and amount: ught on farm Sold or sent off far Select bedding type Tonnes Tonnes Tonnes Tonnes Tonnes Tonnes Tonnes Tonnes lect bedding type lect bedding type 4 Fertilisers and Manures i) How much of the following organic manures did you bring on farm or sell / send off farm during the assessment year (if any)? Brought on Farm Sold or sent off farm es did you bring on farm or sell / send off Arable Straw Wood Chip bedding Other animal hedding Organic fertilisers Dairv Cattle Siurry Be fertilisers Dairv Cattle Siurry Dirty, Water Cattle Thw Bring Bri onnes nnes nnes nnes nnes nnes nnes nnes nes nes nes nes onnes ii) How much of the following inorganic fertilisers did you bring on farm and sell / send off farm during the assessment year (if any)? Brought on Farm Sold or sent off farm dd you bring on farm and sell / send Anmonium Nitrate (14%) Anmonium Nitrate (14%) Liquid N (12%) Calcium announn Nitrate Dia annonium Nitrate Dia annonium hoshahte (10%) Mono-ammonium hoshahte (10%) Mono-ammonium hoshahte (10%) Mono-ammonium hoshahte (10%) Mono-ammonium hoshahte (10%) Sulphate of potah (10%) Sulphate of potah (10%) Sulphate of potah (10%) Sulphate of potah (10%) Rock potah Maria of potah (10%) Sulphate of potah (10%) Rock potah Kali Vanese Paten Kali Stelemaking aga Ange potah yamunu Lime / other inorganic fertiliter 3 Other inorganic fertiliter 3 nes onnes onnes onnes onnes onnes onnes onnes onnes nnes nnes nnes nnes nnes nnes nnes onnes nnes nnes nnes nnes nnes nnes nnes onnes onnes onnes onnes onnes onnes 5 Farm Workers

i) How many workers are there on your farm? (autofills when you add answers to the next table) 0 Workers Total Hours Worked by all workers of this type during the assessment year Number of owners Number of family members involved in the farm business does not include owners Note: to estimate start with how many hours each person in the category typically works per day or per week, and then multiply up by weeks worked per year. Repeat for each person and enter the total Number of other farm workers includes seasonal workers and part time workers Volunteers A FTE is equal to the number of hours a full-time employee works for an organization. Total Hours Worked by all employees 1 FTE = 1,900 hours per year How many Full Time Equivalents (FTE) did your workers contribute during the assessment year? (excluding volunteers) (*autofills from the hours entered in the previous table*) 0 FTE Sources: AHDB Farm Classifications 2014, Eur 6 Green House Gas Emissions i) Have you completed a carbon footprint assessment in the last 12 months? If yes, which one? (e.g., AgreCalc, Cool Farm Tool etc) What are your most recent CO₂ eq figures? 0 kg CO2 eq 0 kg CO2 eq 0 kg CO2 eq Emissions Sequestration Balance

add units

Carbon dioxide (CO2) Methane (CH4) Nitrous oxide (N2O) kg CO2 e

ii) Do you produce any renewable energy on farm, if so how much did you generate in the assessment year?	kWh

Climate

Overview You will know the importance of helping to tackle climate change by reducing emissions and increasing carbon storage on your farm, but of course you also need to be aware of climate risks to your farm, so you can take action to reduce your vulnerability (you may spot opportunities too - such as being able to grow crops you couldn't before). This section seeks to highlight those climate risks. Many of the answers here are autofilled (grey boxes) based on information from the previous section. However, please fill in the white answer boxes you see. Please select your nearest weather data source from the locations in the drop down list: **1** Extreme Events A) Climate risks to crop yields & quality & livestock health i) Please indicate if you have experienced any extreme weather events in the last 5 years Y/N Number of occurrences Droughts Heatwaves Extreme precipitation event Annual counts of 25mm rainfall days **Extreme Precipitation Events** Extreme Heat Events Average highest day of total precipitation 1990 - 2010 Average highest day of total precipitation 2017 - 2022 Average extreme max temp of the year 1990 - 2010 Average extreme max temp of the year 2017 - 2022 #N/A #N/A Degrees Celcius #N/A mm #N/A Degrees Celcius Highest day of total precipitation 2022 extreme max temp of the year 2022 #N/A Degrees Celcius #N/A Average number of days with >= 1 inch/25.4 millimeters in the year #N/A #N/A Days Average No. of days >=32 degrees, 1990 - 2010 between 1990 and 2010 Days Average number of days with >= 1 inch/25.4 millimeters in the year between 2017 and 2022 #N/A Days #N/A Average No. of days >=32 degrees, 2017 - 2022 ays Average number of days with >= 1 inch/25.4 millimeters in 2022 #N/A Days No. of days >= 32 degrees in 2022 #N/A Davs Extreme Dry Events Extreme Cold Events Average Number of days with >= 0.01 inch/0.254 millimeter in the year #N/A #N/A Days Average extreme min temp of the year 1990 - 2010 Degrees Celcius between 1990 and 2010 Average Number of days with >= 0.01 inch/0.254 millimeter in the year between 2017 and 2022 #N/A Days #N/A Average extreme min temp of the year 2017 - 2022 Degrees Celcius Average Number of days with >= 0.01 inch/0.254 millimeter in 2022 #N/A #N/A Days Extreme min temp of the year 2022 Degrees Celcius Average No. of days min temp <=0, 1990 - 2010 #N/A avs Average No. of days min temp <=0, 2017 - 2022 No. of days min temp <=0 in 2022 #N/A Days

2 Average Conditions

Whilst weather patterns influence the quantity of rain that fails each day, annual precipitation rates are a useful indicator of climate change. They also provide an explanation behind external factors influencing the farming system

A) Stability in climatic conditions

i) Precipitation

Average Annual Rainfall between 1990 and 2010

Average Annual Rainfall between 2017 and 2022

Average Annual Precipitation 2022

ii) Temperature

Average Annual Temperature between 1990 and 2010

#N/A Degrees Celcius #N/A Degrees Celcius #N/A Degrees Celcius

#N/A

#N/A

#N/A mm

Provides an indication of past climate conditions, highlighting any risks climate change is having in relation to annual precipitation rates

Provides a recent average in precipitation rates to evaluate precipitation rates in comparison to the historic average of 1990 - 2010

Provides an indication of past climate conditions, highlighting any risks climate change is having in relation to annual precipitation rates

Provides a recent average in precipitation rates to evaluate precipitation rates in comparison to the historic average of 1990 - 2010

Average Annual Temperature between 2017 and 2022

Average Annual Temperature for 2022

3 Limitations of Growing Season

A) Growing Season

UK average Growing Degree Days (GDD) 1990 - 2010 UK average Growing Degree Days (GDD) 2017 - 2021 UK average Growing Degree Days (GDD) 2021



Growing degree days (GDD) is a weather-based indicator for assessing crop development. It is a measure of heat accumulation used to predict plant and pest development rates such as the date that a crop reaches maturity.

Community

Overview

This section looks at the state of your local community and the extent to which it is able to support your farm. It focuses on amenities that farmers, farming families and farm workers are likely to need, the availability of services for the farm business (including how easy it is to find farm workers locally) and on your professional network. In the long term all these things obviously affect the viability of your business, so it is important to keep them in mind in order to adapt to changes or to support / campaign for improvements in services likely to benefit you and future generations of local people. We hope the results from everyone who fills in this part of the assessment (shared with consent and made anonymous) can also be used to help highlight to policymakers and other stakeholders the challenges facing rural businesses and their communities.

1 Local Services

A) Access to Key Amenities

External services & infrastructure (access to healthcare, education, culture, food, childcare)

i) How far do you have to travel to reach your nearest... (distance traveled refers to a one way journey)

journey)	Miles
Nursery	
Primary School	
Secondary School	
Pub, Café, or Restaurant	
Primary care centre or GP	
Hospital with A+E	
inema, theatre, gallery or museum	
Food shop	
Clothes shop	
Leisure centre or sports club	

2 Farming Services

A) Access to key farming services Farming services & infrastructure i) How far do you have to travel to

(distance traveled refers to a on

Farr

Farming services & infrastructure (access to supplies; market access; financial services; knowledge services; DSS tools)

reach your nearest e way journey)	Miles	To what extent does this distance cause you problems in accessing this service:	Service not available
Vets			
n Supplies (e.g. mole valley, torne vallley)			
Machinery services			
Bank			
Solicitors or legal firm			
Advisory services			
Contractor services			
Substrate Producer			

Miles

ii) How far do you need to travel to sell your products? Or if your buyer comes to the farm, how far do they travel to reach you?

Buyer If a buyer comes to the farm and you're not comes to If a buyer comes to the farm and you're not comes to Image: strain of the distance they travel, you can put farm? N/A here Image: strain of the distance they travel, you can put farm? Miles Image: strain of the distance they travel, you can put farm? Miles Image: strain of the distance they travel, you can put farm? Miles Image: strain of the distance they travel, you can put farm? Miles Image: strain of the distance they travel, you can put farm? Miles Image: strain of the distance they travel, you can put farm? Miles Image: strain of the distance they travel, you can put farm? Miles Image: strain of the distance they travel, you can put farm? Miles Image: strain of the distance they travel, you can put farm? Miles Image: strain of the distance they travel, you can put farm? Miles Image: strain of the distance they travel, you can put farm? Miles Image: strain of the distance they travel, you can put farm? Miles Image: strain of the distance they travel, you can put farm? Miles Image: strain of the distance they travel, you can put farm? Miles Image: strain of the distance they travel, you can put farm? Miles Image: strain of the distance they travel, you can put farm? Miles Image: strain of the dis

Distance travelled refers to a one way journey. If you have supplied more than fifteen companies, you can just enter the most important. Treat direct sales to private consumers as a single customer rather than listing each person and estimate an average distance for these customers overall

B) Availability of Workers

 Currently, do you feel you would have problems recruiting new or replacement workers from your local community (living within 20 miles of the farm)?

For each type of worker choose the option that fits best from the drop down list. We'd like to know what you think even if you're not planning to recruit

Permanent Full Time	
Seasonal Full Time	
Seasonal Part Time Occasional Staff	



Number

3 Farmer Network

A) Support from Community of practice Size of professional network

i) How many farming groups or associations are you an active member of,

if any? (e.g. professional or sector organisations, farmer discussion groups, marketing organisations or co-operatives)

	please provide details if you would like to				
	A Landscape Access and Engagement				
T b fu	his final set of questions relate to how your farm provides access to and engagement with r eauty of the landscape. These aspects of the state of your system are not scored in terms o lel and fibre to meet the needs of future generations, but highlight the extent to which you	nature and farming, and contributes to the f risk to your farm's ability to produce food, are delivering these 'public goods'.			
	A) Access				
	 i) If the public can access your land either by legal right or with your permission, please record the length/amount of land affected and the condition of these areas 				
	Public footpath / bridleway / byway	Amount	Unit Length, Meters	Condition	
	Permissive path Open access (legal right)		Length, Meters Area (ha)		
	Open access (permissive)		Area (ha)		
	B) Heritage and designations				
	i) Are there any designated areas or archaeological sites on your farm?	Present/Absent	If yes, what area is covered (ha)	Condition (when last formally assessed	Access Status
	Site of Special Scientific Interest (SSSI)				
	Archaeological Site				
	 C) Lanscape Quality i) Rural landscapes can provide enjoyment and have positive pyschological effects for local people and visitors. Please choose the option below which best describes the area of your farm D) Delivery of education services The provision of education services is a diversified enterprise as it goes beyond the co represents an important way in which farms can help children and adults engage with one of Defra's 6 public goods from farming. 	re activities of farming. However, education the world of food and farming and is part of]		
	i) Does this farm deliver farm education services?	Yes]		
	ii) How many person-hours have you delivered through educational courses during the assessment period (e.g., a 5 hour session attended by 10 people would be 50 person-hours)]		
	iii) Have these services been validated by an external body?				
	iv) Has the feedback from these services been mainly positive, mixed, poor?]		
	v) How would you describe the business intent of your educational courses?	select the best description]		
	vi) Did this venture break even?]		
	 vii) Indicate which of these best describes the importance of the enterprise to your overall business]		
	Please provide any feedback on this category here:				

Nature

Overview The state of nature on your farm is vital to its ability to produce food, fuel and fibre products in the long term. Farms are integral to the environment around them, and that environment supports and protects production in many ways. Nature on your farm will be affected by external influences (positive and negative) as well as by your actions - so the results from this section should be a starting point for improvement, rather than being judgemental. The section requires some survey work 'in the field', so you'll need to plan that before you can complete it all (there's nothing to stop you completing the rest of the assessment and coming back to the survey parts). In other trials people reported that the surveys take time - but also said they got the most out of these results, because they showed things they hadn't thought about before.

	1 Environmental hazards					
_						
	A) Level of Soil Pollution					
	 Measured soil elements that have the potential to have toxic effects <u>This table will be automatically filled in when you complete the 'Soil & Water'</u> <u>category, so you don't need to add anything here</u> 					
	Lead		not monitored			
	Copper		not monitored			
	Zinc		not monitored			
	B) Level of Water Pollution					
	i) Are there lakes, large ponds, stream, or river on your farm?		Present/Absent			
	Pond(s) and/or Lake(s)		Absent			
	Stream/River		Absent			
	ii) Please use the method found via the link below to fill in this table		CALITION: Avoid disturbing stro	or a second s	or for Salmon and Trout	
	recording the number of the listed water quality species observed in your		(October to February, dependir	ng on local conditions)	les for Salmon and Trout	
	ponds, lakes, rivers or streams?					
	https://www.imperial.ac.uk/media/imperial-college/research-centres-and https://www.imperial.ac.uk/media/imperial-college/research-centres-and	-groups/opa -groups/opa	I/WATER-16pp-booklet_legacy I/WATER-4pp-chart.pdf	.pdf		
		<u>0 p - / - p</u>				
			Water Quality Species Obser	rved in sampled water body		
			(enter	Y/N)		
	Caddisfly larvae		N/A	N/A	1	
	Dragonfly larvae		N/A	N/A		
	Damselfly larvae		N/A	N/A		
	Alderity larvae Mayfly larvae		N/A N/A	N/A N/A		
	Water beetles (adults and larvae)		N/A	N/A		
	Water bugs (water boatman, water scorpions, water stick insect)		N/A	N/A		
	Water shrimp		N/A N/A	N/A N/A		
	Water slaters (water hoglice)		N/A	N/A		
	Worm like animals Water spails		N/A	N/A N/A		
	water shars		17/5	17/5	1	
			·			
	iii) At what time, of year was the water quality survey undertaken?					
	iii) At what time of year was the water quality survey undertaken?					
-	iii) At what time of year was the water quality survey undertaken?					
]	iii) At what time of year was the water quality survey undertaken? C) Level of Air Pollution					
	 (iii) At what time of year was the water quality survey undertaken? (c) Level of Air Pollution (i) Please use the OPAL protocol found via the link below to fill in the table 					
]	 (iii) At what time of year was the water quality survey undertaken? (c) Level of Air Pollution (i) Please use the OPAL protocol found via the link below to fill in the table about the lichens on your farm - lichen are indicators of air quality 					
]	 (iii) At what time of year was the water quality survey undertaken? (c) Level of Air Pollution (i) Please use the OPAL protocol found via the link below to fill in the table about the lichens on your farm - lichen are indicators of air quality https://www.imperial.ac.uk/media/imperial-college/research-centres-and 	-groups/opa	/AIR-16pp-booklet legacy.pdf			
	 (iii) At what time of year was the water quality survey undertaken? (c) Level of Air Pollution (i) Please use the OPAL protocol found via the link below to fill in the table about the lichens on your farm - lichen are indicators of air quality https://www.imperial.ac.uk/media/imperial-college/research-centres-and 	-groups/opa	/AIR-16pp-booklet_legacy.pdf	-		
]	 (iii) At what time of year was the water quality survey undertaken? (c) Level of Air Pollution (i) Please use the OPAL protocol found via the link below to fill in the table about the lichens on your farm - lichen are indicators of air quality https://www.imperial.ac.uk/media/imperial-college/research-centres-and 	-groups/opa	I/AIR-16pp-booklet legacy.pdf	- each indicator lichen on the t	runk of each tree (0. 1. 2 or 3)	
	 (iii) At what time of year was the water quality survey undertaken? (c) Level of Air Pollution (i) Please use the OPAL protocol found via the link below to fill in the table about the lichens on your farm - lichen are indicators of air quality https://www.imperial.ac.uk/media/imperial-college/research-centres-and 	-groups/opa	/AIR-16pp-booklet legacy.pdf Amount of e Tree 1	- tach indicator lichen on the tr Tree 2	runk of each tree (0, 1, 2 or 3)	Tree 4
I	iii) At what time of year was the water quality survey undertaken? C) Level of Air Pollution i) Please use the OPAL protocol found via the link below to fill in the table about the lichens on your farm - lichen are indicators of air quality https://www.imperial.ac.uk/media/imperial-college/research-centres-and Nitrogen-sensitive	-groups/opa Example	/AIR-16pp-booklet legacy.pdf Amount of e Tree 1	- each indicator lichen on the tr Tree 2	runk of each tree (0, 1, 2 or 3) Tree 3	Tree 4
	iii) At what time of year was the water quality survey undertaken? C) Level of Air Pollution i) Please use the OPAL protocol found via the link below to fill in the table about the lichens on your farm - lichen are indicators of air quality https://www.imperial.ac.uk/media/imperial-college/research-centres-and Nitrogen-sensitive 1. Usnea	Rroups/opa	//AIR-16pp-booklet legacy.pdf Amount of e Tree 1	each indicator lichen on the tr Tree 2	runk of each tree (0, 1, 2 or 3) Tree 3	Tree 4
i	iii) At what time of year was the water quality survey undertaken? C) Level of Air Pollution ii) Please use the OPAL protocol found via the link below to fill in the table about the lichens on your farm - lichen are indicators of air quality https://www.imperial.ac.uk/media/imperial-college/research-centres-and Nitrogen-sensitive 1. Usnea 2. Evernia 2. Evernia	Rroups/opa	/AIR-16pp-booklet legacy.pdf Amount of e Tree 1	ach indicator lichen on the tr Tree 2	runk of each tree (0, 1, 2 or 3) Tree 3	Tree 4
	iii) At what time of year was the water quality survey undertaken? C) Level of Air Pollution i) Please use the OPAL protocol found via the link below to fill in the table about the lichens on your farm - lichen are indicators of air quality https://www.imperial.ac.uk/media/imperial-college/research-centres-and Nitrogen-sensitive 1. Usnea 2. Evernia 3. Hypogymnia Intermediate	Rroups/opa	I/AIR-16pp-booklet legacy.pdf Amount of e Tree 1	ach indicator lichen on the tr Tree 2	runk of each tree (0, 1, 2 or 3) Tree 3	Tree 4
]	iii) At what time of year was the water quality survey undertaken? () Level of Air Pollution i) Please use the OPAL protocol found via the link below to fill in the table about the lichens on your farm - lichen are indicators of air quality https://www.imperial.ac.uk/media/imperial-college/research-centres-and Nitrogen-sensitive 1. Usnea 2. Evernia Argonamic Intermediate 4. Melanelixia	Rroups/opa Example 0 0 1 1	I/AIR-16pp-booklet legacy.pdf Amount of e Tree 1	- each indicator lichen on the t Tree 2	runk of each tree (0, 1, 2 or 3) Tree 3	Tree 4
I		-groups/opa Example 0 0 1 1 2 7	/AIR-16pp-booklet legacy.pdf Amount of e Tree 1	each indicator lichen on the tr Tree 2	runk of each tree (0, 1, 2 or 3) Tree 3	Tree 4
]	iii) At what time of year was the water quality survey undertaken? C) Level of Air Pollution i) Please use the OPAL protocol found via the link below to fill in the table about the lichens on your farm - lichen are indicators of air quality https://www.imperial.ac.uk/media/imperial-college/research-centres-and Nitrogen-sensitive 1. Usnea 2. Evernia 3. Hypogymnia Intermediate 4. Melanelixia 5. Flavoparmelia 6. Parmelia 1. Witrogen-loving	-proups/opa	/AIR-16pp-booklet legacy.pdf Amount of e Tree 1	each indicator lichen on the tr Tree 2	runk of each tree (0, 1, 2 or 3) Tree 3	Tree 4
		Example 0 0 1 1 2 1 2 2	/AIR-16pp-booklet legacy.pdf Amount of e Tree 1	each indicator lichen on the tr Tree 2	runk of each tree (0, 1, 2 or 3) Tree 3	Tree 4
		Rroups/opa Example 0 0 1 1 2 1 2 1 2 1 2 2 1 2 2	/AIR-16pp-booklet legacy.pdf Amount of e Tree 1	- each indicator lichen on the tr Tree 2	runk of each tree (0, 1, 2 or 3) Tree 3	Tree 4

ii) At what time of year was the air quality survey undertaken?

I

2 Farm biodiversity A) Health of farm biodiversity In order to understand more about the health of your farming system please complete bird surveys across at least one of the habitats present

Upland

on your farm.

i) On your farm, which of these habitat types are present and cover >5% of your land? Agricultural

Time of Survey Present/Absent (Winter/Spring)

Woodland	
Wetland/Aquatic	

 Please record which species you observed in the respective winter or spring bird survey tables. You can find the method for counting birds in the purple box below.

For each habitat type, enter the time the survey was undertaken and the weather conditions. Mark with an 'x' each species you saw in the habitat during your survey.

Winter Bird Survey Results (December - Februa	ıry)	Species Observed/Identified	Observed in Agricultural Habitats	Observed in Upland Habitats	Observed in Woodland Habitats	Observed in Wetland/Aquatic Habitats
	Time of Survey					
e.g dawn 7a	m, mid day 1pm					
We	ather Conditions					
e.g. clear skies, cloudy ar	d windy, raining					
Method used to com	plete the survey					
(sound app, visu	al observations)					
	хх	Example: black bird	Х		X	
	1	select species				
	2	select species				
	3	select species				
How to count your birds?	4	select species				
	5	select species				
1. Choose a day between December and February (inclusive) for Winter Surveys	6	select species				
and between April and June (inclusive) for Spring Surveys, ideally the weather	7	select species				
nould be cann and clean.	8	select species				
2. On the day of your survey spend about 30 minutes recording the species of	9	select species				
pirds seen in your chosen habitat (Agriicultural, Upland, Woodland,	10	select species				
Aquatic/Wetland). Your choosen survey location should be somewhere with a	11	select species				
good view of the habitat - a view across 2 ha of the habitat type would be ideal.	12	select species				
B. Ideally, counting should take place at first light as this is when the birds are	14	select species				
most active. However, it is more important that you take part, so timings should	15	select species				
suit you.	16	select species				
	17	select species				
4. The more of your habitats you survey, and the more you survey in both spring and winter, the more chance you have of accurately recording the range of	18	select species				
species present on your farm - but even if you can only do one or two surveys	19	select species				
that is still really valuable information.	20	select species				
	21	select species				
Methodology adapted from GWCT Big Farmland Bird Count	22	select species				
https://www.bfbc.org.uk/take-part/how-to-take-part/	23	select species				
Resources which can help you identify birds are the BirdNET app and Merlin app.	24	select species				
ust record the bird sounds at your survey locations over the 30 minutes to	25	select species				
generate an estimated list of species present	26	select species				
	27	select species				
	28	select species				
	29	select species				
	21	select species				
	22	select species				
	32	select species				
	34	select species				
	35	select species				
	36	select species				
	37	select species				
	38	select species				
	40	select species				
	41	select species				

Snring	SURVOV	Roculte	(Anril - lung	
SDUILE	Survey	Results	(Abrii - June	:,

g Survey Results (April - June)	Species Observed/Identified	Observed in Agricultural Habitats	Observed in Upland Habitats	Observed in Woodland Habitats	Observed in Wetland/Aquatic Habitats
Time of Survey					
e.g dawn 7am, mid day 1pm					
Weather Conditions					
e.g. clear skies, cloudy and windy, raining					
Method used to complete the survey					
(sound app. visual observations)					
xx [Example: black bird	x		X	
1	select species				
2	select species				
3	select species				
4	select species				
5	select species				
6	select species				
7	select species				
8	select species				
9	select species				
10	select species				
11	select species				
12	select species				
13	select species				
14	select species				
15	select species				
16	select species				
17	select species				
18	select species				
19	select species				
20	select species				
21	select species				
22	select species				
23	select species				
24	select species				
25	select species				
26	select species				
27	select species				
28	select species				
29	select species				
30	select species				
31	select species				
32	select species				
33	select species				
34	select species				
35	select species				

36	select species		
37	select species		
38	select species		
39	select species		
40	select species		

3 Farm Habitats A) Farm habitat health i) Agricultural vs Natural Habitats AgNiatultaral 0% Arable and Horticulture Temporary Pasture and Forage Crops Permanent Pasture Natural Grassland Boundary Features Woodlands Heathland and Shrub Wetlands Sparsley Vegetated Areas Rivers and Lakes Marine Inlets and Transitional Waters ii) Recorded Indicator Species Agricultural Upland Woodland Wetland/Aquatic This table autofills from your survey responses The indicator species you spot might be specialist or generalist. The colour coding in the table to the left highlights in yellow the number of specialist species you have observed during the bird surveys on your farm and in blue the number of generalists.

This will help you to identify which indicator species you are supporting and if those are specialists within their habitat. Specialist are adapted to specific types of habitat and are likely to be more vulnerable to climate change and other disturbances. By having them present you are likely to be providing valuable habitats that support these species.

You might see species from a neighbouring area.

B) Connectedness of farm habitats

i) Thinking about the land immediately surrounding the land you own or rent, which single description fits best?

C) Quality of land for farming

i) What percentage of your productive land is at each agricultural grade using the Agricultural Land Classification (ALC) system? (see the purple box below for descriptions of grades if needed)

	 %	
Grade 1 & 2		
Grade 3a & 3b		
Grade 4 & 5		
	 0	% of Land Accounted for

Definiton of grades (source: http://www.lra.co.uk/services/agricultural-land-classification)

Grade 1: excellent quality agricultural land with no or very minor limitations.

Grade 2: very good quality agricultural land with minor limitations which affect crop yield, cultivations or harvesting.

Subgrade 3a: good quality agricultural land with moderate limitations that affect the choice of crop, timing and type of cultivation/harvesting or level of yield. This land can produce moderate to high yields of a narrow range of crops or moderate yields of a wide range of crops.

Subgrade 3b: moderate quality agricultural land with strong limitations that affect the choice of crop, timing and type of cultivation/harvesting or level of yield. This land produces moderate yields of a narrow range of crops, low yields of a wide range of crops and high yields of grass.

Grade 4: poor quality agricultural land with severe limitations which significantly restrict the range and level of yield of crops.

Grade 5 - very poor quality agricultural land with very severe limitations which restrict use to permanent pasture or rough grazing with the exception of occasional pioneer forage crops.

Soil & Water

Overview

For any farm system the state of the soil* and water are vital to their long term survival. This section focuses on the state of these vital components. Just like for the Nature section, you will need to go out into the field to take samples and carry out some survey work to complete every part of this section, so have a read through and plan that in advance (you can come back and complete the survey parts after the rest of the assessment if you like - but they are a vital to you receiving meaningful results).

*just water in the case of some indoor systems using hydroponics or substrates

1 Soil Health

A) Structural health of soil for growing Soil depth

i) What depth is the majority of soil on your farm (use the link and instructions below to find the answer)?

https://mapapps2.bgs.ac.uk/ukso/home.html

ist of options choose 'Soil Properties'. Press the green 'plus' symbol next to the option 'Soil layer depth (1:50k)'. The symbol will turn red when the layer has been added to the map and you will see that the map is now coloured. The colour represents the soil layer depth you need to answer the question, using the colour codes listed here in the key on the left. You can also make

SOIL_DEP TH

- DEEP: The soil and subsoil can be easily dug to a depth of more than 1 metre. CHECK IN the set of susceine and existing outplots
 CHECK IN THE set of susceine and existing outplots
 CHECK INTER SET OF SUSCEINED AND THE SUSC

Use the link above to identify the depth of your soil. To find this information on the website enter your farm's location (postcode) in the blue box on the left of the screen. Then go to map layers box (top right) and click the 'plus' symbol. From the this key appear on the website screen by pressing the 'legend' icon (a table symbol) in the map layers box.

Image:	Estornal Layers	Soll properties CS Topsol – Buik density (Soll sayer depth (1.50k) (Soll depth (1.50k) (points) (Soll features Soll features	
Visual Erosion Sians ii) Do you have any signs of erosion on the farm? Choose one option from the drop down list that best represents your farm			
Soil Assessments iii) Choose three fields that are representative of your farm (e.g. representing different soil types, enterprises or management approaches)			
Field Name	Field 1	Field 2	Field 3
What is the land use of the selected fields / polytunnels?			
Soil Structure iv) What is the VESS score for your chosen fields VESS = Visual Evaluation of Soil Structure Sample 1 Sample 2 Sample 4 foptionall Sample 4 foptionall Sample 5	idacycle.com/wp-content/uploads/2019/08/ Field 1	VESS score chart.pdf Field 2	Field 3
Soil chemistry v) For the same 3 fields you chose above, please enter the Soil Organic Matter (SOM) % from Loss on Ignition (LOI) at 0 - 15cm			
SOM (%) from I OL at 0 - 15cm	Field 1	Field 2	Field 3
vi) For the same 3 fields you chose above, please enter the SOM (%) from LOI at 0 - 30cm for each sample: Note that this question is optional - it is important data for us to collect but we can provide you with a score without it	Organic matter is crucial for supportin properties of soil. In each of your thre across the field. Combine all samples	g soil fertility and soil health by enhancing t e fields, take at least 10 soil samples (to a d from a single field together, mix well and s process called loss on ignition (LOI)	the physical, chemical and biological epth of 15cm) in a W shape running end away for analyses of SOM by a
SOM (%) from I OI at 0 - 30cm	Field 1	Field 2	Field 3

 Following the method described, for each of the 3 fields you chose above please enter how many earthworms on average there were in each sample; 	Map a W across the field yo	ou intend to sample. Walk this 'W' stopping to collect a	sample 3 - 5 times
sample.	Field 1	Field 2	Field 3
Sample 1			T Iold 0
Sample 2			
Sample 3			
[optional] Sample 4			
[optional] Sample 5			
Average (automatically calculated)	n/a	n/a	n/a
2 Soil Fertility			
() Level and availability of acit autointy to plants			
A) Level and availability of soil nutrients to plants			
Son chemistry (moto & micro nuclents)		Collect your soil samples using, one	
i) Which of these soil elements do you measure (if any)?		composite sample (W) per field,	
	Yes / No	take at least 10 soil samples	
Nitrogen	No	All nutrients are automatically set	
(ammonium nitrate extract) Potassium	No	to no	
(olsen test) Phosphate	No		
Sulphate	No		
Active Carbon	No	-	
Calcium	<u>No</u>	-	
Soaium	<u>No</u>	-	
(ammonium nitrate outrast) Magnesium	No	-	
(animonium mulate extract) Magnesium Boron	No		
Irop	No		
Lead	No		
Copper	No		
Cadmium	No		
Zinc	No		
Other	No		
 ii) Please enter the nutrient and micronutrient levels for each field assessed (using the same 3 fields chosen above): 	Field 1	Field 2	Field 3
Nitrogen			
Potassium			
Phosphate			
Sulphate*			
Active Carbon*			
Calcium*			
Sodium* Molubdonum*			
Magnerium			
widghesium			
Boron*			
Boron* Iron*			
Boron* Iron* Lead			
Boron* Iron* Lead Copper			
Boron* Iron* Lead Copper Cadmium			

0

ha

Τ

iii) If you measure pH, what were the levels in the fields assessed?

3 Water

A) Level of water reserves on farm
 Amount of water held in farm habitats (including in man-made storage)
 i) Quantity of water helding habitats (automatically calculated from your

 Quantity of water holding habitats (automatically calculated from your previous answers) Includes ponds, reservoirs and other wet features like boas

Governance

<u>Overview</u>

This section is all about how you make choices, what supports or constrains those choices, and the extent to which your farm is in a stable, certain place in terms of its long term future. Because they are at the centre of how your farm is managed, issues like uncertainty about the future, lack of support for decision-making, or being constrained from taking beneficial action, can affect every part of the system negatively. In contrast, having a sound basis in terms of governance can support you in enhancing the resilience and sustainability of the whole farm. Being aware of issues relating to governance, even ones which you might not be able to change, can help focus your thinking on how to adapt to these issues.

1 Status	
A) Level of legal protection	
 i) Use the drop down list to select the ownership type that best applies to the majority of land you farm: 	
If other, please sp	ecify
B) Management stability	
 i) Please select the option that best desccribes your plans for who will take over the farm from you when you retire: 	
2 Decision making	
A <u>Approach to managing decisions</u> i) Select the option that best describes how often you think about the consequences your management decisions might have for: Nature Community Farm Business	
 B) Level of Inclusivity i) If you have a difficult decision to make, please indicate how likely you would be to ask for advice from:	w
Other farmers People in local community Farm advisor Other friends not included above Other farming professionals not included above	
3 Priorities & Support	
 A) Prevalence of sustainability in farm priorities Please indicate whether or not you are part of a certification or standards scheme that includes the following:	
 Please let us know which certification or standards schemes you are part of (you can just write in the names): 	
B) External support for farm sustainability	
 i) Briefly list any external factors (e.g. laws, regulations, traditions), if any, that you feel constrain the management choices you want to make: 	
ii) Overall, how serious are these constraints?	

iii) Advice from professional advisors, charities, other farmers, local communities, and others as well as supportive regulations, laws, and traditions can help when making management choices.

Do you feel you have this type of external support to help you make your farm more resilient and sustainable?

Resources

Overview

This section assesses the condition of your farm equipment, infrastructure and buildings - if any of these are in a poor condition that clearly represents an issue for your farm, for you and other workers, for visitors and for livestock. We realise most farmers will be well aware of the state of their resources but, we include this because 1) even if you know what needs doing, having that information in one place can help clarify things and prioritise action, 2) we want to emphasise that improving the state of farm resources is integral to sustainability - the farm's ability to produce food, fuel and fibre products now and in the future, and the impacts the farm has on people and planet, 3) across many farms, this information (with your consent and made anonymous) can be shared to help focus investment and support on types of resources needing most attention.

1 State of equipment

- A) State of equipment owned or rented by farm & used for farming in the assessment year
- i) Considering only the <u>equipment you need to use regularly</u>, what percentage of...

manually operated equipment is in good working condition?

animal powered equipment is in good working condition?

machines for general farm use is in good working condition?

tractors bulldozers and other equipment is in good working condition?

crop machinery and equipment is in good working condition?

crop maintenance machinery is in good working condition?

post harvest machinery is in good working condition?

livestock machinery and equipment is in good working condition?



2 State of infrastructure

A) State of infrastructure owned or rented to the farm business & used for farming in the assessment year

 i) Considering only the infrastructure you need to use regularly, what percentage of....

roads & tracks are in good working condition?

gates, fences and walls are in good working condition?

water storage (wells, reservoirs) are in good working condition?

irrigation system are in good working condition?

water troughs are in good working condition?





slurry and manure	storage and lagoon	<u>s</u> are in good	d working condition?
-------------------	--------------------	----------------------	----------------------

utilities are in good working condition?

%
%

3 State of buildings

A) State of buildings owned or rented to the farm business & used for farming in the assessment year

If not present on farm, input N/A

%

i) Considering only the buildings you need to use regularly, what percentage	
are in good repair?	

Inputs

Overview

This section focuses on the supplies of consumables, services and shared equipment that your farm uses as well as the use of land you don't own or rent. In particular, we are looking at how much your business relies on each of these inputs and how easy it would be to find alternatives. The aim is not to imply that these inputs should not be used, but to help you recognise potential vulnerabilities so you can put plans in place in case things go wrong. Often you might be reliant on something for which there is no alternative but be confident of your access to it (like common land for example) so the fact a risk shows up doesn't necessarily mean you always need to act, but just that you should be aware of it. In this assessment we don't look at impacts on people and planet arising from the production of inputs before they reach you. Instead, we are focusing on the long term ability of the farm to maintain production in the long-term - but these environmental and social costs are clearly something you should take into account. You might search for or even ask your suppliers for information about these impacts, so you can choose inputs associated with fewer negative effects.

1	Inn	ute	of	cons	uma	hlas
_	III P	uts	01	COILS	uma	DIES

A) Flexibility sourcing external inputs

Type & amount of farming inputs - like feed, seeds, fuel, electricity, buy-in animals]

 Please fill in this table about different farm inputs, using the most relevant options from the drop down lists. <u>This is about inputs that come into the</u> <u>farm, not those you source from the farm itself</u>: Crop/pasture seeds

New livestock

Livestock feed

Livestock bedding

Fertilisers (organic or inorganic)

Pesticides (including approved Organic)

Livestock treatments/medicines

Fuel

Electricity

B) Flexibility in land access

- Type & amounts of farm inputs from use of common land or of other land by agreement (not rented or owned) e.g., nutrients from grazing, materials extracted
- i) Which of the following best describes your use of common land or other land not rented or owned by the farm (*e.g for grazing*)
- ii) If you lost access to common or other land not rented or owned by the farm, how easy do you feel it would it be to access alternative land?
- iii) Which of the following best describes your use of rented land
- iv) If you lost access to your rented land, how easy do you feel it would it be to access alternative land?

2 Inputs of non-consumables shared / used by agreement

- A) Flexibility in use of external infrastructure & equipment Type & amounts of infrastructure or equipment shared or used by aareement (not owned or rented)
- i) Which of the following best describes your use of external infrastructure, e.g., off-farm buildings not owned or rented?
- ii) If you lost access to external infrastructure shared or used by agreement, how easy do you feel it would it be to access alternatives?



If the current source of this input was no

longer available, how easy would it be to

identify an alternative supply?



Choose the option from the dropdown list

which best reflects your use of each input

- iii) Which of the following best describes your use of machinery or equipment shared or used by agreement?
- iv) If you lost access to machinery or equipment shared or used by agreement, how easy do you feel it would it be to access alternatives?
- v) Which of the following best describes your use of rented machinery or equipment?
- vi) If you lost access to currently rented machinery or equipment, how easy do you feel it would it be to access alternatives?

3 Inputs of services

A) Reliance on contractors & service providers Type & amount (hours of work) of contractors, advisors, vets etc

- i) Which of the following best describes your use of contractors involved in farm work?
- ii) If you lost the services of your current contractor(s) how easy do you feel it would it be to replace them?

Please	provide any	r feedback on this category here	
i cuse	provide un	recubacit on this category nere	

FARMERS & WORKERS

Overview

This section looks at the health and safety of you as the farmer and of your workers - including family members - at the level of experience they have and at the extent to which they are able to survive and thrive through farm profits or their wages. The section also covers the availability of workers. Health problems, injuries, low income and limits to experience and skills among the workforce all represent risks to the ability of the farm to produce food, fuel and fibre products today and for future generations. Issues here are obviously important to resolve for the people involved as well as for the farm. Some might arise from external pressures that can be highlighted to bring change off-farm, in other cases there will be changes you can make on-farm to improve things directly.

1 Health			
A) <u>Health & safety of farmer & workers</u>		FTEs on farm (automatically completed Days of sickness/FT from Farm Information) (automatically calculated)	re
 i) How many working days have been lost to sickness on the farm in the last 12 months? (adding up the days lost to sickness for each worker) 	Days	0 #DIV/0!	
2 Skills			
 A) Level of skills, knowledge & experience in workforce i) How experienced are your workers? Number of workers with 0-2 years of experience? Number of workers with more than 2 years and less than 5 years of experience? Number of workers with more than 5 years of experience? 	workers workers workers	% N/A N/A	
3 Work & Life			
 A) Adequacy of farm work to meet needs (farmer, employed family, & workers) 			
i) If you live from the profits of the farm business (rather than a salary) to what extent is your income from farming activities enough to meet your needs?			
ii) To <u>your knowledge</u> how many salaried farm employees have second jobs?			
 B) <u>Availability of workers</u> i) Currently, how easy do you feel it would be to recruit new workers for the farm? Permanent Full Time Permanent Part Time Seasonal Full Time Seasonal Part Time Occasional Staff 		This question is about recruiting workers from anywhere - in the community section we focused just on the availability of local workers - that's why we're asking a separate question on this here	
Please provide any feedback on this category here:			

Crops & Pasture

Overview

This section focuses on the health of any crops and grasslands you have on-farm, from their establishment to the incidence of disease and pest problems, pre-harvest losses and the longevity of perennial crops. Maintaining crop and grassland health is obviously key to short term and long term production on farms which grow crops and grass. Highlighting issues facing farms in these respects - particularly around changes over time as the planet warms - is important to galvanising support for farmers and in helping you to focus on adapting to particular problems. This might mean changes in management or in the varieties, species and mix of species you grow.

1 Crop Establishment

A) Germination Success Level % of seeds Germinating

According to your answers, your dominant arable / horticultural crop (covering the biggest area) this year was: [answer box populated from Farm Information section. If none, reads 'no arable / horticultural crops reported'].

If you do not have arable / horticultural crops, please move to section 2 on crop health

i) For your dominant sown crop (e.g., arable or horticultural species covering the biggest area) are you able to use the method below to assess germination rates?'



	Calculating Germination Success	Seed rate		seeds sown/m2
	1. Using a 50cm ruler, place it at random between two rows of the crop.		Total plant number per meter row of crop	
	 Count and record the number of crop plants along each row on both sides of the ruler. This figure is referred to as the total plant number per metre row of crop. Repeat measurements for a total of ten sites within the crop. Source: https://www.agric.wa.gov.au/mycrop/monitoring-seedling-number 	Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 Sample 6 Sample 7 Sample 8 Sample 9		
		Sample 10 Average Sample	#DIV/0!	=
		Row Spacing		Cm
	Germination ra Germination succe	te (automatically calculated) ess (automatically calculated)	#DIV/0! #DIV/0!	plants/m2 %
2	Health			
A)	Crop and pasture health levels			
			· · · · · · · · · · · · · · · · · · ·	_

- i) What percentage of your dominant crop was affected by health problems (e.g. pests, diseases, nutrient imbalances, water or heat stress) this year? (Enter 'N/A if there are no arable / horticultural crops on your farm)
- ii) How serious would you describe the problem?
- iii) If you have grasslands used for production on your farm, what percentage of your grassland was affected by health problems (e.g. pests, diseases, nutrient imbalances, water or heat stress) this year? (Enter 'N/A if there are no arable / horticultural crops on your farm)

iv) How serious would you describe the problem?

3 Lifecycle

- A) Level of pre-harvest loss
- i) What percentage of your dominant (arable or horticulture) crop was lost before reaching harvestable state (e.g. to pests and diseases, wind lodging)?

(after germination i.e. not accounting for germination success)

Please enter 'N/A' if you do not have arable/horticultural crops

B) Perennial crop productive lifespan

ſ

i) For the perennial crops listed here (from your earlier answers), please enter the average lifespan in years for each of them (the lifespan is the interval between planting and re-planting/re-seeding (including over-

Years
Years

Livestock

Overview

For farms with livestock, their health and welfare is of course of vital importance for the farm business, as well as for the quality of life of the animals themselves. Issues revealed here in terms of health problems, mortality, fertility and longevity will obviously be affecting your farm's efficiency, pose potential risks to you, your workers, neighbouring farms and the local community, and often affect product quality and impacts beyond the farm-gate (for example, via increased greenhouse gas emissions per unit of produce). Our assessment only considers the state of your livestock - we don't look at practices. As a result, this assessment may not identify some welfare issues, and there may be problems which are under the surface (such as low level disease or welfare problems). You need to keep this in mind and consider using specific welfare assessments even if your score here is positive.

1 Health

A <u>Health level of livestock</u> Extent and seriousness of health problems in livestock	
 i) Thinking about your own livestock on the farm, what percentage of each livestock species was affected by health problems (e.g. parasites, disease, nutrient imbalances, heat stress) this year? 	Own Livestock
ii) Thinking about visiting livestock on the farm, what percentage of each livestock species was affected by health problems (e.g. parasites, disease, nutrient imbalances, heat stress) this year?	Visiting Livestock
If you are unsure about health issues affecting livestock which are not yours on the farm, please leave this 'visiting livestock' question blank.	% % %

% % % % %

How serious would you describe this problem

as being?

However, we do recommend you talk to whoeve manages these livestock so you can better understand potential risks for your farm.

How serious would you describe this problem?

2 Lifecycle

A Livestock losses Mortality

ii) Mortalities within your own livestock (autofilled from previous answers)

i)

Total number of animals which have died on farm, been euthanised or required emergency slaughter in the assessment period (autofilled from previous answers)



Own Livestock Deaths

Mortality Rate

 (no. animals)	,

of Own Livestock

iii) Mortalities within visiting livestock (autofilled from previous answers)

Visiting Livestock Deaths (no. animals)	# of Visiting Livestock	Mortality Rate

B <u>Productive Longevity</u> Productive longevity (includes fibre and draught animals)

i) On average how long is the productive or working life of each livestock group below on your farm? Do not include Visiting Livestock when considering your answer



C <u>Fertility Level</u> Conception Rate

i) What was the conception rate for each of your own breeding livestock species over the last 12 months? Conception rate = % of breeding animals that became pregnant. <u>Grazing</u>

and fattening livestock are not included

Used for Breeding

(Yes/No)	
	%
	%
	%
	%
	%
	%
	%
-	%
	%
	%

Products

Overview
This section takes an overview of your farming system to highlight vulnerabilities of production to changes in conditions. There are different pathways farms can take to address these
vulnerabilities, depending on context. For example, if you rely on a single livestock breed or crop variety, that's clearly a risk - diversifying or changing breed/variety/species would be
one option to reduce that risk, but if that would be difficult you could instead breed or purchase a crop variety or livestock breed better adapted to changing conditions. It's also
important to think about how protected your crops and livestock are from extreme or changing conditions, as well as about how well adapted they are - you might choose to use
varieties/fixed/coreies well-adapted to local or user farm

varieties/breeds/species well-adapted to local conditions or to	protect crops and lives	tock more, or you might do both, dependi	ing on the circumst	ances of your farm.				
1 Diversity							N/A SUB-CATEGORY RISK	RATIN
A) Spread of production risk							N/A INDICATOR RISK RATING	
Livestock species diversity i) For each of your livestock groups, please enter the percentage of each different breed/crossbreed you have (in the last column you can note what they are)							<u>N/A</u> Indicator Score	
	% Breed / Crossbreed 1	% Breed / Crossbreed 2	% Breed / Crossbreed 3	% Breed / Crossbreed 4	% Breed / Crossbreed 5	Please note which breeds/crossbreeds are present		
]	
							-	
							-	
					1]	
ii) Livestock Diversity (autofilled from your previous answers)	Shannon's Diversity Index	0.00]				N/A	
iii) Diversity of Crops (autofilled from your previous answers)		Proposition of account accor (Di)	Diversity Calculation					
		Proportion of cropped area (PI)	(Pi * log(Pi))	1				
	3		0.00 0.00 0.00					
	4 5 6		0.00 0.00 0.00					
	7		0.00 0.00 0.00					
1	1		0.00					
1 1 1	3		0.00 0.00 0.00					
		Shannon's Diversity Index	0.00	1			N/A	
			_					
iv) If you have grassland on your farm, please use the drop down list to selec the option which best describes the level of diversity in the sward:	±						N/A	
Farming system diversity (e.g. mixed or specialist) v) Farming system Diversity (automatically calculated from your previous a	nswers)	N/A]				N/A	
High: when farm has both crops and livestock diversity and either one has hig when its either only crops or livestock on farm and has high diversity	gh + one low diversity, or one l	has high + one medium or both are medium, or						
Medium: when farm has both crops and livestock but both are low diversity, diversity	or one medium+ one low, or f	arm has crops only or livestock only with medium						
Low: when there are only crops or livestock with low diversity present on far	m							
2 Adaptability - ability for the farmer to change the cro	ops or livestock prod	uced in response to challenges					N/A SUB-CATEGORY RISK	RATIN
A) Capacity to alter production		-	1				N/A INDICATOR RISK RATING	
 How easy would you find it to change the main crops or investock you produce in response to serious problems affecting them? (Choose the option from the drop down list that fits best) 							N/A Question Kisk Kating	
3 Vulnerability - extent to which crops and livestock ar	e protected from ch	anging conditions via their genetics	or via their on-f	arm environmen	ıt		N/A SUB-CATEGORY RISK	RATIN
A) Level of vulnerability to conditions <u>Livestock</u>							N/A INDICATOR RISK RATING N/A INDICATOR SCORE	
Livestock preser	nt	Yes/No]				#N/A Question Risk Rating	
i) If you have livestock, what percentage of the time are your main type of livestock housed?			%					
ii) If your livestock are housed for some of the year, are conditions in the housing controlled (e.g., temperature, mechanical ventilation)?]					
iii) If your animals are outside for all or part of the year, what best describes the environment they are in?]					
iv) If you have livestock on your farm, are they adapted to local conditions b	y]					
oreed or by selection within breed (e.g., via breeding index of male, or by on-farm selection)?]					
Crops		Yes/No						
Cropland preserv) Is your main crop grown indoors (greenhouse etc.)	nt]				#N/A Question Risk Rating	
 v) If you have crops on your farm, please select the description of the growing environment which applies best from the drop-down list, considering your main type of grassland 								
iv) If you have crops on your farm, are they adapted to local conditions by variety, by use of land races, or by on-farm/local selection within variety	?							

Grassland Ves/No Grassland present	
v) If you have grassland on your farm, please select the description of the growing environment which applies best from the drop-down list, considering vour main type of grassland	#N/A Question Risk Rating
vi) If you have grassland on your farm, are the grasses adapted to local conditions by variety, adapted by on-farm selection or unsown natural grasslands?	
Please provide any feedback on this category here:	

Economics

Overview

For any farm, at least breaking even and having the financial capacity to invest and to meet new challenges is clearly vital. This section focuses on these aspects of your farm. Remember that this state of the system assessment is not about judging your farm - it is about the highlighting challenges that impact the ability for your farm to survive and provide the food, fuel and fibre we and future generations require. Some issues may be beyond your control but collecting this information provides an opportunity to shine a light on problems beyond the farm-gate that threaten the sustainability of farming - and that policymakers and the supply chain need to address. Bringing these aspects of farm finance together in one assessment might also help you get a better overview of the challenges, and provide a starting point for looking at options to improve and to explore available support.

1 Profits & Costs

A) <u>Economic sustainability of rewards for farming</u> Profit with & without non farming enterprise/external funding

 For the assessment year and the preceeding four years, please select the statement which best describes your economic situation

Year 1	0	
Year 2	-1	
Year 3	-2	
Year 4	-3	
Year 5	-4	

Economic Situation

B) Vulnerability to cost price changes

 If your costs (including debt repayments etc) increased by 10% what would that mean for your business in the next 12 months (select the most relevant option from the drop down list)?

2 Financial Resources

A) Financial Flexibility Ability to invest

 i) Have you been able to carry out the investments in the farm that you wanted to over the last 12 months? (e.g., improving infrastructure or environment or buying equipment)

Financial ability to deal with shocks

ii) Do you feel like you have the financial flexibility to take advantage of new opportunities or to deal with unexpected shocks?



3 Diversity

A) Spread of economic risk

Diversity of sales channels (number & relative importance)

i) Please enter the % of sales income for each customer you have supplied over the last 12 months. If you have supplied more than fifteen companies, you can just enter the most important.

Note: Treat direct sales to private consumers as a single customer and add the total for all rather than listing each person

Customer (automatically filled from Community sheet)	% sales income	Type of customer

Gini-Simpson's Diversity Index (automatically calculated) ii) If your biggest customer stopped buying from you, how big an issue would this be for the business?	N/A	
Please provide any feedback on this category here:		

Farm Outputs					
1 Waste					
A Level of waste of materials & substances Types & amount of unutilised waste (including materials as well as excess nutrients, GHG emissions, & chemicals entering the environment) i) What percentage of non-organic farm waste (e.g: plastics, metals, etc.) was recycled?			%		
2 Quality					
A Useability of Products Livestock products and crops meeting standards of intended buyer i) At what quality levels do you sell your farm produce? Becontrate of livestock modulet (mart milk one stal yold at 1	High Quality Product	Average Quality Product	Low Quality Product	Quality doesn't matter	Calculation Check
Percentage of investock products (meat, mink, eggs etc) sold at Percentage of crops sold at					0%
B Service standards (specific to service type, including meeting external standards for managing heritage sites, education etc) i) Do you offer any Education or Training Courses? iii) Have your education or training courses been formally accredited? iii) What feedback have you received on your educational/training courses?		Yes/No			
C Non-food & fuel product standards (including fibres, genetic materials etc)					
i) Have your fuel products reached industry standards?					
ii) Have your fibre products reached industry standards?					

After an assessment all of us are most interested in seeing the overall results, so we know you'll scroll down and look at them first - but after you do, please take the time to come back and have a read of the following info to help you understand better what those results mean

Your influence over identified issues

How much are you in control of the state of your farm system? Some issues affecting the long term capacity of your farm to produce food, fuel and fibre may be at least partly outside your control -- others are things you can do a lot to improve. You can act to alter the indicators which are at least partially in your control - but you may also need to adapt to those that are fully or partially outside your control. The table to the right of the results table gives general information about how much control you are likely to have over each of the indicators. There might be reasons that on your farm, you have more or less control than we suggest - so the information is just to start you thinking about what is affecting your farm and how. If you see lots of issues that are likely to be outside your control, these are areas where people affecting your farm and how. If you see lots of issues that are likely to be outside your control, these are areas where people affecting your farm and how. If you see lots of issues that are likely to be outside your control, these are areas where people affecting your farm and how. If you see lots of issues that are likely to be outside your control, these are areas where people affecting your farm and how. If you see lots of issues that are likely to be outside your control, these are areas where people affecting your farm and how. If you see lots of issues that are likely to be outside your control, these are areas where people affecting your farm and how. If you see lots of issues farm and how are to take some responsibility and make changes. You (or your union) might want to explore these issues further and advocate for change.

Nobody's perfect

Sustainability is an ongoing process, not a target you can reach and then forget about because, as you know, the context of your farm is changing all the time. So regular assessments of your farm are really important. At the same time, no assessment is perfect, and ours is no exception. This is our first attempt to create an assessment which focuses on the long term future of farms and farming, and what issues might affect that. We have also prioritised giving an holistic view of farms, which is challenging when farm systems are so complex. As with every assessment, you should use the findings as a starting point for thinking about the success stories and issues on your farm, not as an end point or something to accept uncritically. This assessment is a trial to show the value of this type of approach - a starting point for others to build on so your feedback (critical as well as positive!) is really important to us, especially if you feel important things for your farm have been overlooked or misrepresented.

What's the logic behind this assessment?

We believe that working to get the indicators of the economic, environmental and social state of a farm moving in the right direction will also deliver farming which has fewer negative and more positive impacts beyond the farm-gate. However, in some contexts and for some parts of the farm system these things might not always be aligned, and - most challenging - actions taken to ensure a farm survives in the short term might cause impacts beyond the farm and undermine its own long term capacity to sustain production. We want to support the development of practical assessments that can identify opportunities for improving all aspects of farm sustainability and highlight the trade-offs, so that society can work together to improve things. This can help everyone to recognise the challenges farmers face, emphasise the need to reward the work of farmers making positive changes, and highlight areas in which the responsibility for change lies beyond the farm-gate.

The future of farm sustainability assessment - our work

This assessment looks at the environmental, economic and social state of farms and what it means for the long term ability of farming to meet the needs of future generations for food, fuel, and fibre. It also pulls together the yield data you provide to show how your farm is contributing to today's needs for food, fuel and fibre. These are two of the three aspects of farm sustainability as we define it. However, much of the data we are collecting can also tell us about the wider outputs of the farm system (like nutrient run-off or employing people) and through this, indicate potential impacts of the farm on people and planet. Our work going forward will look at how assessments can cover all three of these aspects of sustainability in a practical way to drive the transition to more sustainable farming.

The meaning of your scores

Meaning of traffice light scores	Colour	What next?
Your responses indicate that in this area there are problems for the long term capacity of your farm to sustain production		Think about the reasons for the red score. How much of the problem relates to issues off farm that you need to adapt to or which others need to change, and how much can you improve yourself? If needed seek advice, talk to other farmers and others with expertise on this specific topic, check out information available from sources you trust, and look at the types of support available to help you adapt or change. Repeat the assessment over time to track improvement and to maintain awareness of how external risks are changing.
Your responses indicate that in relation to this area there is room to improve the long term capacity of your farm to sustain production	,	Think about the reasons for the amber score. It shows that there are some issues to think about for the long term future of the farm - if the amber score is at category or sub-category level look down at the indicators to see what is going well and what is not so good. How much of the problems relate to issues off farm that you need to adapt to or which others need to change, and how much can you improve yourself? If needed seek advice, talk to other farmers and others with expertise on this specific topic, check out information available from sources you trust, and look at the types of support available to help you adapt or change. Repeat the assessment over time to track improvement and to maintain awareness of how external risks are changing.
Your responses do not reveal any current problems affecting the capacity of your farm to sustain production in the long term		Think about the reasons for the green score. At the moment it means that there are no obvious issues in this area - either within the farm or beyond. But remember that even holistic assessments can't cover every aspect of the different areas of your farm or its context. The green score is something to build on and to think about critically - taking a holistic view of your farm, are there things under the surface you know about which could become problems going forward? Are there areas that look good but could be improved further? Keep talking to others, taking in advice and information and working to improve - sustainability is an ongoing process. Repeat the assessment over time to track change and identify changing external risks

The environmental, economic and social state of your farm - maintaining food, fuel and fibre supply for future generations

The graph below shows your category level scores, with the top of the bar indicating your risk level and performance



The graph below shows your performance within each category, displaying where you are performing well (Green = low risk), not so well (Red = high risk), and where question were not applicable or not complete (Grey)





Category	Sub Category		Indicator		The state of each indicator is most likely due to:		
cutegory	Sub category		Stability in Average Conditions		Mainly on-farm factors (work to alter)	Some on-farm and some external factors (work to alter & adapt to)	Mainly external factors (adapt to)
	Average Conditions		Stabililty in Average Conditions				X
Climate	Extreme Events		Climate risks to crop yields and quality and livestock health				x
	Growing Season		Limitations of the Growing Season				X
	Local Services		Access to Key Amenities				Х
	Formaine Commission		Access to key farming services				X
Community	Farming services		Availability of Workers				X
	Farmer Network		Support from Community of Practice				x
			Level of Soil Pollution			х	
	Environmental Hazards		Level of Water Pollution			X	
			Level of Air Pollution				X
Nature			Farm Habitat Health			x	
	Farm habitats		Connectedness of Farm Habitats			x	
			Quality of Land for farming				X
	Farm Biodiversity		Health of Farm Biodiversity			x	
	Soil Health		Structural Health of Soil for Growing		x		
			Health of Soil Biology		X		
Soil and Water			Level and Availability of Soil Nutrients				
	Soil Fertility		for Plants			x	
	Water		Level of Water Reserves On Farm			x	
			Level of Legal Protection			x	
	Status		Management Stability		X		
	- · · · · · · · ·		Approach to managing decisions		X		
	Decision Making		Level of inclusivity		X		
Governance			Prevalence of Sustainability in Farm				
			Priorities		x		
	Priorities and Support		External Support for Farm Sustainability				x
			State of equipment owned or rented by				
	State of Equipment		farm & used for farming in the		x		
			assessment year				
			State of infrastructure owned or rented				
Resources	State of Infrastructure		to the farm business & used for farming		x		
			in the assessment year				
			State of buildings owned or rented to				
	State of Buildings		the farm business & used for farming in		x		
			the assessment year				
			Elexibility Sourcing External Inputs			x	
	Inputs of Consumables		Elexibility in Land Access			~	x
Innuts	Inputs of non-consumables shared / used by		Elexibility in use of external				^
inputs	agreement		infrastructure & equinment				x
			Reliance on contractors & service provide			×	
	וויףענג טו אבו אוניבא		Activities of contractors & service provid			^	
	Health		Health & safety of farmer & workers		X		
	Skill		Level of skills, knowledge & experience			x	
Farmers and Workers			in worktorce				

	Worklife	Adequacy of farm work to meet needs (farmer, employed family, & workers)		x	
		Availability of workers			X
	Crop Establishment	Germination Success Level		X	
Crops and Pasturo	Crop Health	Crop and pasture health levels		x	
crops and Pasture	Lifecucle	Level of pre-harvest loss		x	
	Ellecycle	Perennial crop productive lifespan		x	
	Health	Health level of livestock	Х		
Livesteck		Livestock losses		x	
LIVESLOCK	Lifecycle	Productive Longevity		X	
		Fertility Level		x	
	Diversity	Spread of production risk	Х		
Products	Adaptability	Capacity to alter production		X	
Troducts	Vulnerability	Level of vulnerability to conditions		x	
	Profits and Costs	Economic sustainability of rewards for farming		x	
Economics		Vulnerability to cost price changes		x	
	Financial Resources	Financial Flexibility		x	
	Diversity	Spread of economic risk		X	