

# Why Farming Matters

## Primary Schools



**FARMING  
WITH THE  
BIGGEST  
JOB ON  
EARTH**

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 FarmingAndCountrysideEducation





# FARMING IS THE BIGGEST JOB ON EARTH





# LEAF Education

LEAF Education, in partnership with our members, work to engage, inspire and motivate young people through experiential learning, to equip our future generations with balanced and informed insight into food production, farming and the natural environment. We work across the education and agricultural sectors to mobilise farmers and educators to bring food production, farming and the environment into a learning context and embed an appreciation of farming into everyday life.



With our network of trained farmers, and our highly skilled team of LEAF Education Specialists (LESSs), we can help you plan and run safe, curriculum-linked educational farm visits, activity sessions, and events for young people. Visit [www.countrysideclassroom.org.uk/farm-visits/case-studies/leaf-education](http://www.countrysideclassroom.org.uk/farm-visits/case-studies/leaf-education) to find out more about how our farm visits can benefit your pupils.

We also deliver practical training, resources and activities to both educators and farmers that help deliver curriculum-linked learning through food and farming experiences, both in and out of the classroom.



With a dedicated team of LEAF Education Specialists (LESSs) working directly with schools and farmers, we can offer tailored and independent advice to help build activities and programmes that best suit the school, enrich the curriculum, and promote wider pupil development.

To find out more about upcoming training opportunities and how we can work with you, visit our website or send us an email with your enquiry.

[www.leaf.eco/education](http://www.leaf.eco/education)  
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# BASF

With food, it all begins with farming. For every meal that ends up on our plate, a farmer has grown or raised the ingredients. Without farming, we can't hope to realise our true potential and that's why we at BASF believe farming is the Biggest Job on Earth.

In partnership with



We create chemistry

There are so many challenges that impact how we can farm from the climate to the land we have available, but nothing changes the fact that an ever-growing population need to be fed. Ensuring that people value the time, effort and knowledge that goes into producing food means farmers can focus on delivering the best yields and quality and continue to preserve our natural environment.

That's why we are honoured to partner with LEAF Education to update the 'Why Farming Matters' school's resource to help inform generations now and in the future about the impact of farming on food production and other less-known activities such as sustainable energy supplies.

As a planet, we are looking to be more sustainable in all aspects of our lives and farming is no exception. How we utilise the land we have now will impact how we can farm in the future. Throughout 'Why Farming Matters', we hope to demonstrate the measures farmers undertake to find the right balance between food production and preserving the natural environment such as soil health, crop rotations and ensuring we have land where wildlife can thrive.

The agricultural industry covers a broad spectrum of careers from farming right through to food and energy production. We hope the resource can inspire young people to want to find out more about farming and look at ways they can make a positive impact on sustainable food and energy production and quite possibly pique interest for a career in the industry in the future.







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# Why farming matters

Farming is fundamental to the world's prosperity and ensuring the global population has enough food to eat whilst maintaining the natural environment is the biggest job on earth.

## Why does farming matter?

As populations around the world continue to grow, ensuring people have enough food to eat is a huge responsibility we place in the hands of farmers.

However, the agriculture industry faces many challenges including the effects of changing weather patterns with more frequent and severe weather events. Farmers around the world are continuously adapting their farming practises and adopting new innovations in the face of these challenges.

Agriculture and the food it generates is central to all our lives. It has a powerful impact on us all individually, in our communities and on a global scale. As a society, and by working together, we must try to balance the efficient use of land to produce food whilst maintaining the natural environment to ensure that future generations can flourish.

**Farming plays a role in all our lives: without it, our ability to feed the world would be under threat.**



As increasingly sophisticated conscious consumers of food, pupils benefit from any exploration of where food comes from, what it does for them and what they should expect from it. It is entirely appropriate that their voices should be heard, and their questions taken seriously; their opinions are of genuine interest.

**Agriculture  
provides more  
than 467,000  
jobs in the UK  
(2021).**

Throughout this booklet, pupils will deepen their understanding of the role of farming in the UK, discover the powerful impact of farming, be encouraged to ask questions, and begin to find out and formulate their own understanding of 'why farming matters'.

Begin your learning by collecting pupil responses to the questions:

### **Why does farming matter? Is farming the biggest job on earth?**

Revisit their thoughts and opinions at different stages of their learning journey.

Do their thoughts and opinions change or stay the same?

Explore pupil responses and encourage pupils to reference the knowledge they acquire on their learning journey.







# Getting started

Food and farming are topics of great importance to all our lives but, even more significantly, they will involve challenges that children will have to face as they become the consumers, parents, politicians, leaders, and thinkers of the future. They will be confronted with the challenge of feeding more than nine billion people on the planet by 2050. It's no wonder we think that farming is '*the biggest job on earth*'.

This resource contains activities linked to the curriculum to encourage pupils to start investigating why farming matters.

## How is our food produced?

**Who produces it and what are the many jobs associated with farming and the countryside?**

**What impact does the weather have on farming?**

**What effect does farming have on the environment?**

**Why does farming matter?**

These are just some of the stimulating areas for classroom work that bring food production, farming, and the environment into a learning context to embed an appreciation of farming into everyday life.

All the activities will help the teacher weave the themes of food and farming through the curriculum areas of English, maths, geography, science, art and design. They can be approached separately or as part of a larger topic on food, farming, climate change, history, the environment, wildlife and the countryside.

**Projected world population growth by 26% in 2050.**

**To more than 9.5 billion people!**





The range of activities will also help pupils to acquire personal learning and thinking skills:

<b>Benefits to your pupils</b>	
<b>Acquisition of personal learning and thinking skills:</b>	<b>They will be encouraged to:</b>
<ul style="list-style-type: none"> <li>○ creative thinkers</li> <li>○ effective participators</li> <li>○ independent enquirers</li> <li>○ reflective learners</li> <li>○ self-managers</li> </ul>	<ul style="list-style-type: none"> <li>○ listen to the opinions of others</li> <li>○ engage in discussions that challenge their prior knowledge</li> <li>○ work together in pairs and groups</li> <li>○ change their views considering further information</li> <li>○ suggest possible solutions</li> <li>○ develop individual work</li> <li>○ create new designs</li> <li>○ evaluate their work</li> </ul>

In addition to the booklet, which is available in hard copy and digital formats, the website [www.countrysideclassroom.org.uk/whyfarmingmatters](http://www.countrysideclassroom.org.uk/whyfarmingmatters) contains further teacher information and resources.



# Farming and the curriculum

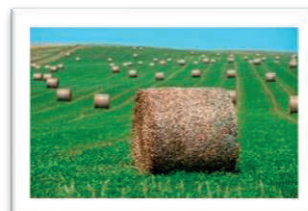
Activity	English	Maths	Science	Art & Design	Geography
Getting started	✓				
Using the picture cards	✓		✓		✓
Drought and deluge	✓	✓	✓		✓
Super soils	✓		✓		✓
Energy for the future	✓	✓	✓		
Habitats and food chains	✓	✓	✓	✓	
Hedge/pond for sale	✓	✓			✓
Where does our food come from?	✓		✓		✓
Have we always eaten the same food?	✓				
Who provides our food?	✓				
What would you grow?	✓				
Seasonality	✓	✓			
Postcards from vegetables	✓				✓
Fruity diaries	✓			✓	✓
Radiant rainbow			✓	✓	
Using the videos	✓	✓	✓		✓
Farming diary	✓	✓			
Maths on the farm	✓	✓	✓		✓
Country collage				✓	





# Using the picture cards

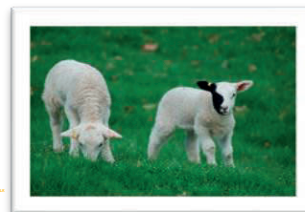
## Farming landscapes



1. Stonewall feature in uplands
2. Outdoor reared pigs and arks
3. Straw bales ready to be collected after harvest
4. Solar panels in a field
5. Farmland pond
6. Wildflower margin around edge of crop field

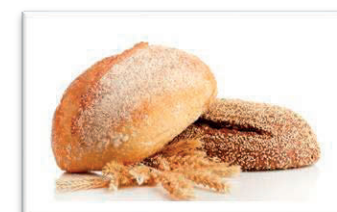
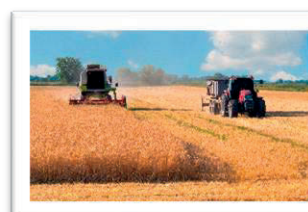
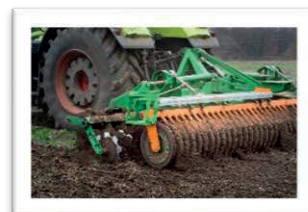
## Sheep farming

1. Newly born lamb
2. Grazing lambs
3. Shearing
4. Weighing
5. Lamb chops



## Arable Farming

1. Preparing land (cultivating)
2. Sowing seed
3. Applying crop protection products
4. Harvesting crop
5. Loaf of bread



## Using picture set one,

### Farming landscapes

- Show the pupils photographs of a variety of farmed landscapes, explaining that farm landscapes are created by generations of farmers: they bring us food and provide habitats but also maintain the countryside for us to walk in and enjoy.
  - Think of words to describe the landscape. If you have laminated the pictures, pupils could use sticky notes to attach to each with their ideas.
  - Can they identify man-made/influenced features in the photos?
  - Can they see any boundaries? What are these for? (Farmers use these boundaries to keep their animals from escaping and to mark the limits of their land, and to provide habitat for wildlife).
  - Which landscapes do the pupils think are least influenced by man?
  - Which farm landscapes do the pupils like best? Why?
- Ask each pupil to choose to be one of the following people who were seen walking through their chosen landscape on one day:
    - Birdwatcher
    - Shepherd
    - Hiker
    - Artist
    - Dog walker
    - Wildlife enthusiast
  - Ask them to imagine what they might have seen during their walk.
  - Show them how to use pastels or chalk to produce pictures of scenes from their walk. Encourage them to smudge the colours with pieces of cotton wool or tissue paper to give realistic hills and sky (when completed, adults can 'fix' the pictures by spraying with hairspray in a well-ventilated area).
  - Ask each pupil to talk about where they were going, what they saw and what they did on their walk through their landscape.





## Using picture set two or three,

### Sheep farming or Arable farming

- Ask pupils to put the cards in sequence and devise a series of captions explaining the main events during the year.
- Alternatively, pupils could sequence the cards in a farming year calendar e.g., a circular display adding comments for the weather, main events, and the kind of work a farmer might be doing at each stage.

## Using picture set three,

### Arable farming

- Ask the pupils to think about how weather is important to farming.
- When during the growing cycle would the farmer like rain? (Water is needed for the seeds to germinate but too much rain before sowing means the ground is too wet to get machinery on the field which would damage the soil. Heavy rain near harvest can spoil a crop and add to costs e.g., grain may need drying).
- What might happen if the summer was very dry? (Low yields, poor quality, need for irrigation and thus extra cost).
- How might it be different for different farms? (E.g., a sheep or beef farmer whose main crop is grass may welcome more rain in summer as this keeps the grass growing, but a cereal farmer may hope for less).
- What might prolonged or torrential rain do to a newly emerged crop? (Damage it, wash it away, cause flooding).
- What might a drought do to crops? (Poor growth and development).
- What might heavy rain near harvest do to a fruit crop, e.g., strawberries or raspberries? (Knock them off onto the ground, or cause mould to grow on them, spoiling the crop).
- How might climate change affect what is grown and where? Explain that global climate change might make weather unpredictable (very wet stormy winters and really dry summers). This makes it more challenging for farmers to produce food.







## Drought and deluge

Assign pupils different roles in a farm environment e.g., trees, wheat, hedges, butterflies, birds, cattle or stream. Use a sand timer to give each pupil one minute to explain in role how they would react in one of the extreme forms of weather:

- a summer drought
- a winter gale
- torrential rain.

## Water use

Explain that all rivers begin and flow through farmland or moorland. Find out about the ways that farmers use water and the ways that pupils use it. Ask pupils to think about why it is important for farmers to reduce pollution and how they do that.

## Drought experiment

Help the pupils to set up a 'drought' experiment. Sow seeds – cress, beans, or wheat, possibly obtained from a local farm. Plant and water the seeds, keeping the compost just moist until after germination. After germination set up plant groups as follows:

- Group A: No water (to represent drought)
- Group B: Excess water (to represent deluge/torrential rain)
- Group C: Optimum water (control – perfect climate and weather).

Record the results at regular intervals using notes, drawings, or photographs.





# Super soils

Soil and farming are inextricably linked. Healthy well cared for soil allows food to grow, mitigates the risk of floods and droughts, and even locks away carbon. These activities will help students learn about our super soils!








## Soil separation

Take a sample of soil and put it into a clean, clear jar or measuring cylinder. Add water to cover the soil and put a lid on the container. Mix and then leave the sample to settle.

- The heaviest, biggest particles sink first (stones and sand).
- The smallest, lightest sink last (silt/clay).
- Floating on top will be any organic matter.

## Soil types

Famers need a good understanding of the type of soil they are working with. This activity is a simple hands-on soil texture test, and it is a great way to begin exploring the properties of different soil types. A large version of the soil type table is available at the end of this document.

				
Cone	Ball	Straight worm	Curved worm with cracks	Curved smooth worm

Shapes you can make	Soil type
Cone only	Sandy
Cone and ball	Sandy loam
Cone, ball and straight worm	Loam
Cone, ball and curved cracked worm	Clayey loam
Cone, ball and curved smooth worm	Clay

- Take a handful of slightly moistened soil and squeeze out the water
- Make the shapes shown in order
- When you can't make your shape, you have your soil type.





# Energy for the future

Talk to the pupils about how we use energy (electricity, gas and for transport) and how this energy is produced. Use a mind map to aid discussion around possible sources of energy. For example, fossil fuels (coal, oil and gas), nuclear (uranium), and renewables (biomass, wind, solar, hydro and biogas.)

Do the pupils know which of these are renewable energy sources? What does renewable mean? Have they seen wind turbines or solar panels in the countryside, or on farm buildings?

Explain that electricity can be produced from these renewable sources, or it can be made (generated) by burning fuels in power stations, and that a lot of our dependency has been on fossil fuels. Ask the pupils, what is the problem with burning fuels? (CO<sub>2</sub> production). Go on to ask them if they know what biofuels are.

Copy a strip of the instructions for 'Producing bioenergy' for each pupil. Encourage the pupils to read the statements and place them in a possible order. Ask them to explain why they think their order is correct.





## Producing bioenergy

WILLOW	BIOGAS	WHEAT
Burn wood in an incinerator	Put maize silage into a biogas digester	Harvest wheat
Use heat to keep buildings warm over winter	Burn methane gas for transport and heat	Put ethanol in petrol to fuel cars
Cut down some willow	Collect methane gas from the digester	Mill the wheat
Transport wood to farm buildings	Spread remaining material (digestate) on fields as fertiliser	Cultivate land
As trees grow, they store carbon	Collect and store harvested maize as silage	Plant wheat
Plant willow trees	Cultivate land and plant maize	Ferment and distil the wheat, producing alcohol

# Habitats and food chains

Farmers are responsible for looking after fields, grassland, ponds, ditches, hedges, and woods.

These are important as habitats for many different types of wildlife. Other than farm animals, what animals do the pupils think may live in these different habitats that the farmer creates and looks after?

a. Ask pupils to imagine a stretch of hedge or a pond that a farmer has created. Mind map a list of any animal, including insects and birds that might visit the hedge/ pond. Provide pictures and non-fiction books for the pupils to research ideas.

b. Help the pupils to consider which creatures are there all the time and which visit in a particular season. Talk about why the creature visits/inhabits the place.

c. Record the information by making models of hedges/ponds for a season. Use card and scrap materials. Shredded green paper makes an excellent hedge whilst ponds can be created from silver foil.

Alternatively, use white paint to make animal footprints on black paper or make the prints on rolled-out clay to show which animals would be in the hedge/pond.

d. For the following farmland habitats, ask the pupils to create appropriate food chains:

- hedgerow
- wheat field
- farm pond
- wildflower margins (edges of a field)
- oak tree (in the middle of a field).





Ask the pupils to think about what makes a house a good place to live. Ask them to think about the local area as well as the house (possible responses include: warm and dry, comfortable, nicely decorated, a garden to play in, functional and clean kitchen, nearby amenities like shops, recreation facilities, cinemas etc.). Look at several 'for sale' leaflets from estate agents and/or newspapers to see how persuasive vocabulary and phrases are used to help sell homes. Now ask them to imagine being a hedge or pond-dwelling animal. What makes the hedge or pond a good place to live? Ask the children to write persuasive adverts for a pond or hedge to indicate why it is an excellent habitat for a particular creature. Encourage the pupils to be persuasive and to mention the special features that their hedge/pond offers.

## A photograph of a rural landscape. In the foreground, a wooden gate with a cross-hatch design is partially open, leading into a green field. A low stone wall runs across the middle ground. The background features rolling green hills under a clear blue sky, with large trees on either side of the gate.

[www.countrysideclassroom.org.uk/resources/1463](http://www.countrysideclassroom.org.uk/resources/1463)

Hand-drawn map of a wetland area. The map is a large, irregular shape with a black outline. It is divided into several colored regions: a large blue area in the center, a yellow area at the bottom, a green area on the right, and a red area on the left. A small white area is at the top. The map is surrounded by a grid of small squares. A legend is located to the left of the map, listing various features with corresponding symbols and colors. A sketch of a pond is located to the right of the map.

Legend:

- grey = water
- yellow = pond
- red = wetland
- green = wetland
- orange = wetland
- blue = water
- grey = water
- yellow = water
- red = water
- green = water
- orange = water

Sketch of a pond:

A small, irregular shape with a black outline, located to the right of the main map. It is filled with a grid of small squares.





# Where does our food come from?

Ask the pupils to choose three food products from the list. They should find out as much as they can about where each comes from and how it is produced. Where does it grow? Or how is it reared? Is it British, or is it imported? Is it seasonal? Can you buy it all year? They should use dictionaries and search engines to look up the words they do not know. Follow the journey of the food product from farm to fork.

## Extension activities

Arrange to visit a farm or invite a farmer into school to talk about what they grow and rear. Where do the products go after leaving the farm? How does the farmer decide what to grow or which animals to rear? What would make the farmer decide to change what is produced?

For help and advice finding a farmer, visit:

<https://www.countrysideclassroom.org.uk/places>

Or contact your local LEAF Education Specialist:

<https://leaf.eco/education/contact-us#LEAF-RECS>

Lamb  
Onions  
Beef  
Strawberries  
Cheese  
Broccoli  
Runner beans  
Pork  
Raspberries  
Chicken  
Carrots  
Apples  
Potatoes  
Peas  
Tomatoes  
Salad leaves  
Eggs  
Sugar





# Have we always eaten the same food?

Pupils can survey their parents/grandparents/teachers/neighbours. What did they eat as a child? Did they have snacks? What were school dinners like? Did they ever eat out at restaurants or cafés? Did they have takeaways? What other questions can you think of? Research rationing during WW2. Do we eat more healthily today, and what is a healthy diet?

## Extension activities

How has farming changed over the past century and why? Invite a retired farmer into school to tell you about their life. What do you think we'll be eating in the future? Might it be insects? Why not invite a young farmer to talk about their farming plans?



For help and advice finding a farmer, visit:

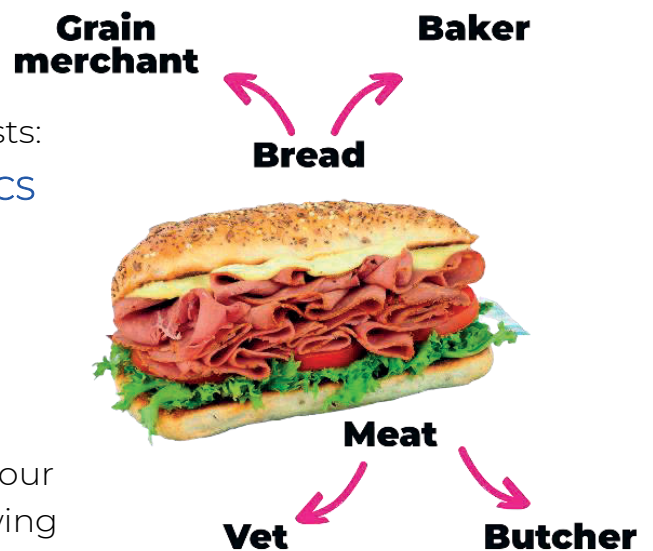
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## Who provides our food?

There are lots of people involved in bringing us our food. Here's the start of a spider diagram showing some of the people who work to bring us the components of a sandwich! Pupils could try making spider diagrams based on one of the foods they chose in the activity 'Where does our food come from?'



# What would you grow?

Tell pairs or small groups of pupils that they have been put in charge of a field on a local farm (or future school plot/ allotment). Ask them what they would grow in the field to help feed children in their school/neighbourhood. Encourage the pupils to find out what their friends like to eat and relate the food products to the original crops. This could be extended to dairy, cattle, pigs, goats and sheep to help pupils see that some foods are best reared on a farm rather than on a small plot. Produce brochures of their ideas for a successful field/farm etc.

## Seasonality

Many different types of produce are farmed or grown in Britain. Introduce the idea of 'in season' by asking pupils if they associate any fruit or vegetable with a particular time of the year e.g., autumn and pumpkins.

Food is in season if it is harvested and is available at that time of year. In the UK, we are typically talking about fruits and vegetables that can be grown/harvested and supplied from within the UK at that specific time. The UK climate limits the range of fresh produce that can be grown here. However, global farmers provide us with a wide range of fresh produce throughout the year. Imported produce will also be at its best when it is in season in the country of origin.

Using the 'What's in Season?' poster (available at the end of this document), ask the pupils to make lists of any items they have eaten and not eaten in the last year.

Classify the produce on the poster:

- available in the shops all year round
- seasonal (e.g., summer only)
- usually grown in the UK or
- can be grown in the UK but often usually imported from abroad.





## Postcards from vegetables

Invite each pupil to choose one of several vegetables found in shops. Challenge the pupils to write, in the role of the vegetable, a postcard telling the reader when and where they were planted, how they were harvested and transported, and how they will benefit the consumer.

## Fruity diaries

Provide each pupil with paper cut in the shape of a fruit such as a strawberry, apple or plum. Ask them to write a diary of their life as a fruit from growing to being sold. You could also add drawings of each stage of their life too.



## Radiant rainbow

Discuss the importance of eating 5 portions of fruit and vegetables a day. It's a good idea to vary the fruits and vegetables that we eat as they contain different vitamins and minerals.

Have a go at creating a rainbow to find as many fruits of different colours as possible. This could be images cut out and laid on the table or drawings the students have created. You could use real fruits and vegetables but be mindful of food waste. See if the pupils can name all the different fruits and vegetables. You could get them to taste test a selection of the less familiar fruits.

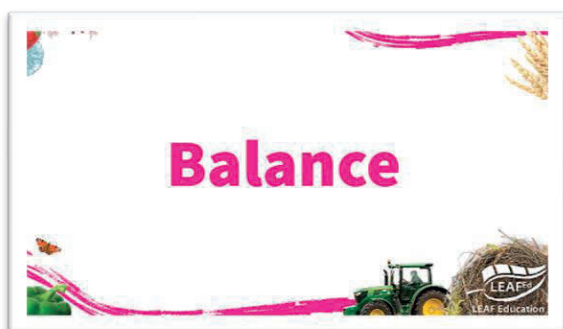


# Using the videos

Accompanying this booklet are a variety of videos. To view, or find links to the videos, visit the why farming matters landing page:  
[www.countrysideclassroom.org.uk/whyfarmingmatters](http://www.countrysideclassroom.org.uk/whyfarmingmatters)



## Starting a discussion



Use this simple video to begin a discussion on 'balance'. Why is balance important when considering farming, food, and the environment?

Is farming 'the biggest job on earth?' What do farmers do? Why is this important? What challenges do farmers face?



## On the dairy farm...

This series of videos provides a great opportunity to introduce pupils to life on a dairy farm. **'What can you see?'** poses questions and encourages them to generate questions of their own. This is a great way to review pupils' current level of understanding. **'What do cows eat?'** will introduce children to words like silage, grazing and straw, and the final video **'Milking'** will give an insight into the jobs that happen on dairy farms around the country 365 days of the year.

***Pupils may ask additional questions about the farm. The following notes will help you to answer these.***

**Q: What type of cows are these?**

A: The cows in the videos are Holstein Friesians.

**Q: Why are the cows inside?**

A: The dairy farm featured in the resource video is an example of a farm where the cows spend the winter indoors. In the spring and summer, the animals spend their time outdoors on grass pastures.





**Q: How often are the cows milked?**

A: The cows are milked twice a day at 6 am and again at 4 pm. The milk is collected by a tanker every 2 days.

**Q: How much milk does a cow make?**

A: The cows in these videos produce between 40 and 50 litres of milk a day.

**Q: Why do the cows wear collars and have ear tags?**

A: The collars and ear tags help the farmer keep track of all the cows. Every cow has to have ear tags and each animal has a unique number. The collar contains a computer chip. This helps the farmer know how much milk each cow is producing and track how long she spends standing or sitting. This is useful information to help the farmer spot any problems.

**Q: Where do the cows sleep?**

While indoors, they sleep on sand beds. They each have their own cubicle. The sand is soft and easy for the farmer to keep clean.

**Q: Does the farm have any calves?**

A: Cows only produce milk after giving birth. Most of the calves are hand-fed by the farmer until they are old enough to eat grass. Most of the calves on this farm are female (sexed semen) and many will join the herd. Any male calves are raised and sold.



# Farming diary

Either individually, in groups or as a class arrange the timeline for a dairy farmer's day. When the timeline has been completed, encourage the pupils to consider the farmer's feelings throughout the day.











## Extension

If possible, invite a local farmer in to be interviewed by the children about their day. For help and advice finding a farmer visit your school or connect with you virtually, contact your LEAF Education Specialist:

[www.leaf.eco/education/contact-us#LEAF-RECS](http://www.leaf.eco/education/contact-us#LEAF-RECS)

Help pupils prepare questions and then produce a booklet titled 'A Day in the Life of a Farmer'.



Called to help with lambing at a neighbour's farm before dawn. Six more lambs during the night.	 5:00	A school group arrives before lunch – full of enthusiasm and keen to meet the cows and learn more about farming.	 10:00
Well-earned breakfast this morning. Looking forward to tasting the sausages from the supermarket.	 9:00	Milking by 6 am – need to measure the volume of milk collected and compare with previous days.	 6:00
Time to relax after a very busy day. I love being a farmer.	 20:00	Late afternoon milking before teatime - need to make sure the animals have their tea too.	 17:30
General farm tidying and providing clean bedding for the animals. Good time to check all the animals are happy and healthy.	 15:00	After lunch, sit down at the computer and complete my paperwork and go through my plans to purchase some new high-tech farm machinery.	 13:30
The milk tanker arrives after lunch to collect our milk – it's good quality and the yield has been fine today.	 14:00	Feed the cows after morning milking – I think they need a bit more silage. Need to keep the milk yield up during the winter.	 7:30



# Maths on the farm – facts and figures

Why not use these amazing farming facts and figures to bring a maths lesson to life?

In 2021, farmers and land managers managed 71% of the UK's land.

1/3 of the UK's utilized agricultural area can be used to grow crops.

There are 216,000 farm holdings in the UK (2021).

The UK produces 7.8 million tonnes of wheat for breadmaking annually, and the average person buys 43 loaves per year.

5.5 million tonnes of potatoes are produced in the UK each year. That's enough to make around 27.5 billion packets of crisps.

60% of the food eaten in the UK is grown in Britain.

The British countryside, which farmers manage, generates over £21 billion in tourism income each year.

A large tractor can do in a day what used to take 100 people a week.

If you put all the UK hedges together, they'd circle the Earth 20 times.

37.1 million eggs are eaten a day in the UK.

*Sources: DEFRA - Agriculture in the United Kingdom 2021, UN SDGs, Office of National Statistics and industry bodies.*

It takes around 350 ears of wheat to make enough flour for one 800g loaf of bread.

The world population is projected to grow by 26% to 9.7 billion in 2050.

*Source - United Nations.*

Global warming could cause up to a 30% reduction in food production in many regions.

Agriculture provides more than 467,000 jobs in the UK (2021).

The UK produces 1.2 million tonnes of sugar every year. This is made from 8 million tonnes of sugar beet.

Around 350,000 hectares of oilseed rape are grown in the UK each year. This goes into oil for cooking (vegetable oil), but some goes into fueling cars and even into products like paint.

Almost 35,000 hectares of peas are grown in the UK each year, equivalent to about 70,000 football pitches.







## Country collage

On a large display board create a collage of textures to represent elements of farming, countryside, and food products. Possible elements include:

- ploughed land – corrugated cardboard painted brown
- soil – dried and stuck on with glue
- grass – artificial grass as used in a greengrocery
- trees or hedgerows – dried leaves and twigs or leaves made by printing or wax crayon rubbings
- wool – sheep made from cotton wool balls with black sugar paper for legs and heads, knitted clothing
- meat – representations made of card
- milk – clean milk cartons.

Invite ideas for other elements from the pupils.



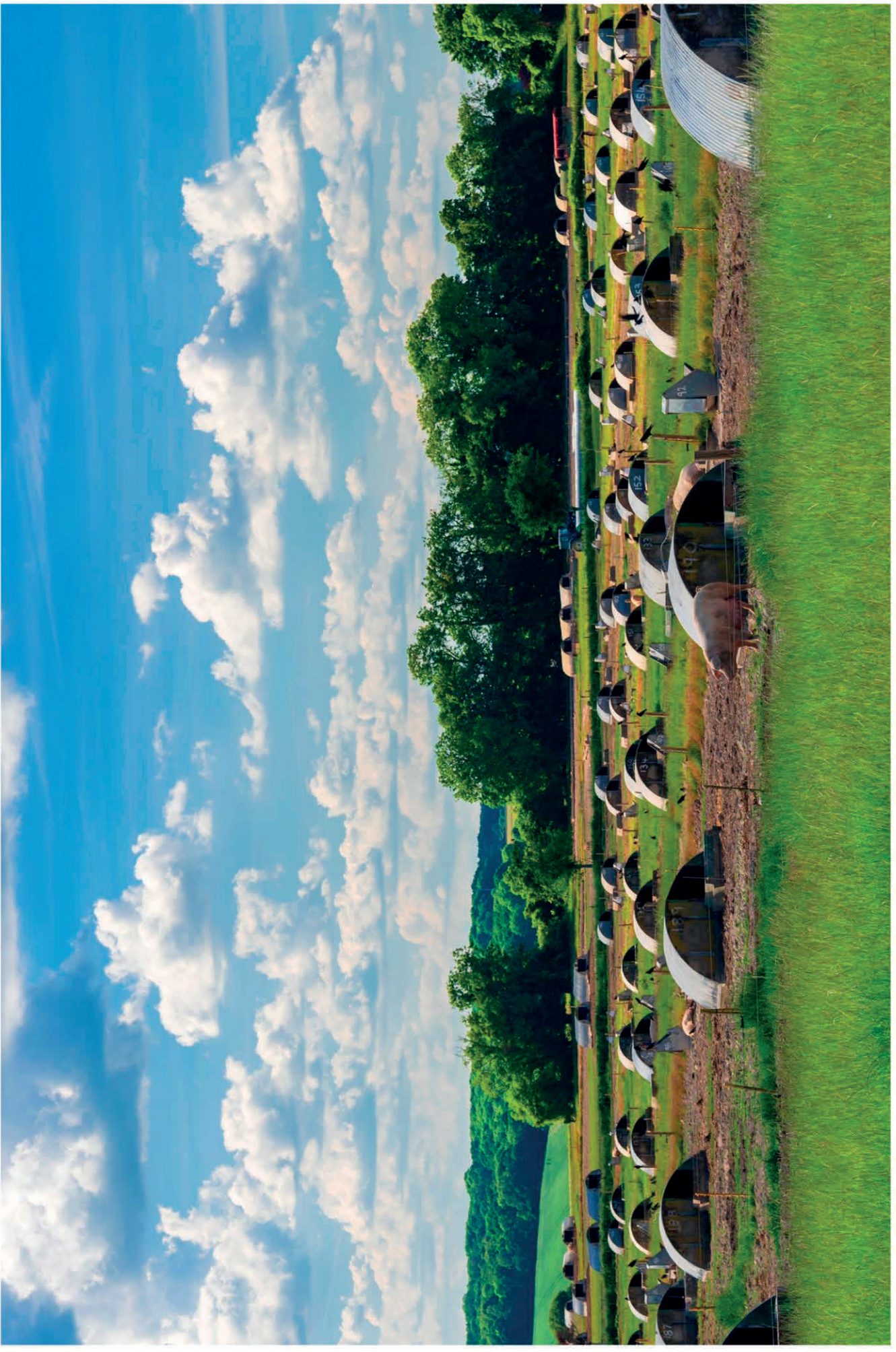




## **Farming landscapes**

Stonewall feature in uplands





## **Farming landscapes**

Outdoor reared pigs and arks





## **Farming landscapes**

Straw bales ready to be collected after harvest





## **Farming landscapes**

Solar panels in a field







## **Farming landscapes**

Farmland pond





## **Farming landscapes**

Wildflower margin around edge of crop field





## **Sheep farming**

Newly born lamb





## Sheep farming

Grazing lambs

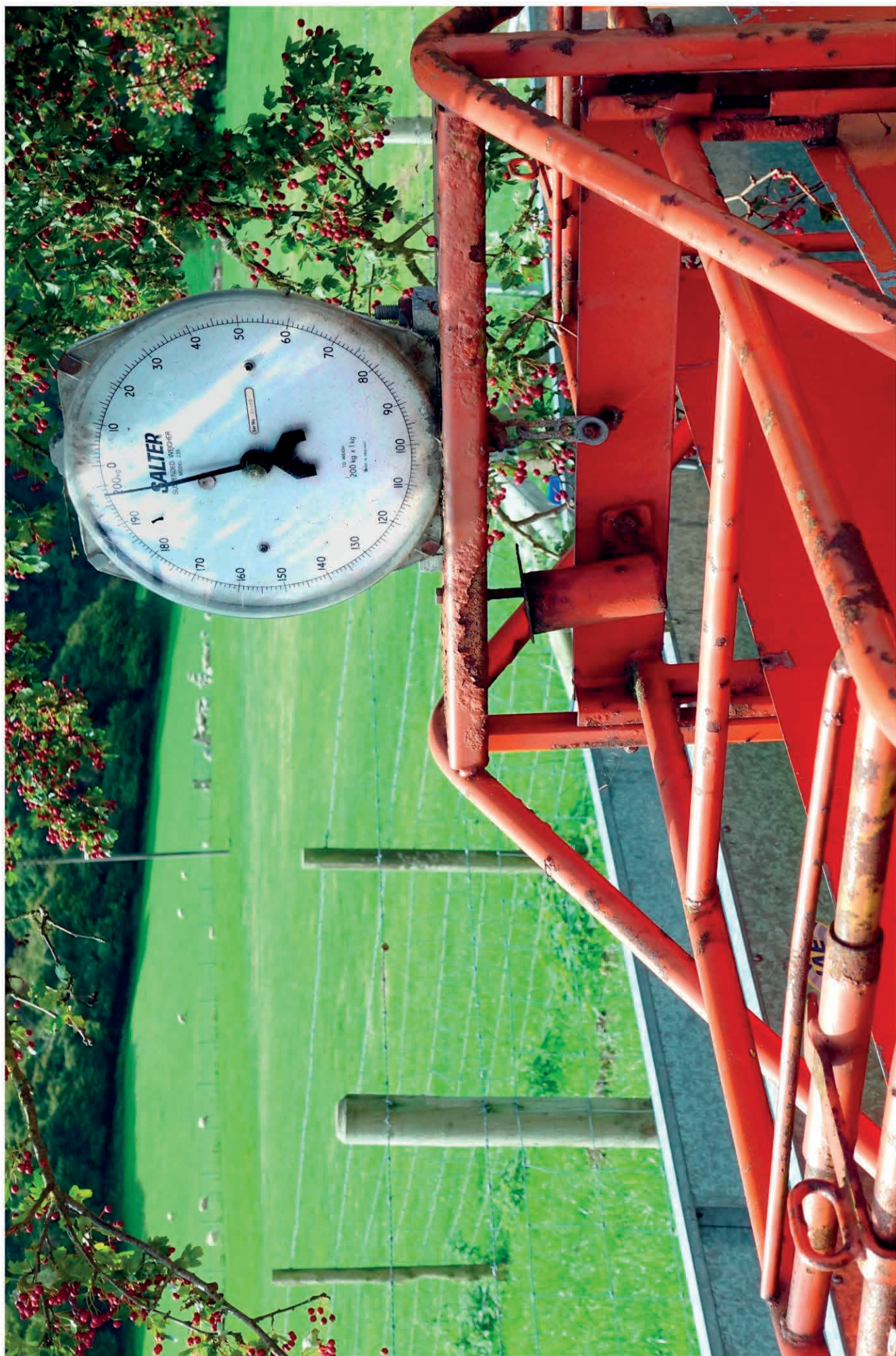




**Sheep farming**

Shearing sheep





## **Sheep farming**

Weighing lambs





## Sheep farming

Lamb chops





## Arable Farming

Preparing land (cultivating)





## Arable Farming

Sowing seed





## **Arable Farming**

Applying crop protection products





## Arable Farming

Harvesting crop





# Arable Farming

Loaf of bread


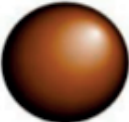





# What's in Season?

Winter			Spring			Summer			Autumn		
December	January	February	March	April	May	June	July	August	September	October	November
Apples				Asparagus					Apples		
			Aubergine								
Beetroot						Beetroot					
						Blackberries					
						Blackcurrants					
						Blueberries					
					Broad beans						
					Broccoli						
Brussel sprouts								Brussel sprouts			
								Butternut squash			
Celeriac										Celeriac	
						Celery					
						Cherries					
						Courgettes					
Cucumbers											
						Fennel					
						Gooseberries					
Leeks					Lettuce			Leeks			
Paranips						Marrows					
						Parsnips					
Pears									Pears		
						Peas					
			Peppers								
					Plums						
								Pumpkins			
				Radishes							
					Raspberries						
					Redcurrants						
Rhubarb											
				Rocket				Rocket			
					Spinach						
				Spring onions							
				Strawberries							
		Tomatoes									
Turnips						Turnips					
				Watercress							



# Super soils – soil types

				
<b>Cone</b>	<b>Ball</b>	<b>Straight worm</b>	<b>Curved worm with cracks</b>	<b>Curved smooth worm</b>

<b>Shapes you can make</b>		<b>Soil type</b>
Cone only		Sandy
Cone and ball		Sandy loam
Cone, ball and straight worm		Loam
Cone, ball and curved cracked worm		Clayey loam
Cone, ball and curved smooth worm		Clay







**LEAF Education** in partnership with our members, works to engage, inspire, and motivate young people through experiential learning, in order to equip our future generations with balanced and informed insight into food production, farming, and the environment. We work across the education and agricultural sectors to mobilise farmers and educators to bring food production, farming and the environment into a learning context and embed an appreciation of farming into everyday life.

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We create chemistry

**BASF Agricultural Solutions** are a leading manufacturer of crop protection innovation and digital solutions to support sustainable agriculture by balancing profitable farming with environmentally sustainable land management. Founded by BASF, Farming the Biggest Job on Earth is a platform for farmers and the public to advocate for the agricultural industry to help ensure that they can produce enough food both now and in the future while preserving our natural environment.

**COUNTRYSIDE  
CLASSROOM**

Connecting schools with **food**,  
**farming** and the **natural environment**

**Countryside Classroom** is a free-to-access online portal that pulls together high-quality resources to use in the classroom, places to visit with a class and people to ask for expert advice and support from across the UK, covering the topics of food, farming, and the natural environment. For additional resources and to find out more about Why Farming Matters, visit: [www.countrysideclassroom.org.uk/WhyFarmingMatters](http://www.countrysideclassroom.org.uk/WhyFarmingMatters)







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