



C/W

Ecosystems, biodiversity & management 3.7A



24/04/2020



Deciduous woodland use and management

L.O To explain the good and services provided by deciduous woodlands

Starter: what is a deciduous tree?
How is a deciduous woodland different from the tropical rainforest?





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Deciduous woodland use and management

L.O To explain the good and services provided by deciduous woodlands

Goods and services
provided by the
deciduous woodland
eco system





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Deciduous woodland use and management

1. Organise the uses into the four categories.
2. How are the goods and services similar and different in tropical and deciduous forests? Write two paragraphs to compare them.





Deciduous woodland deforestation

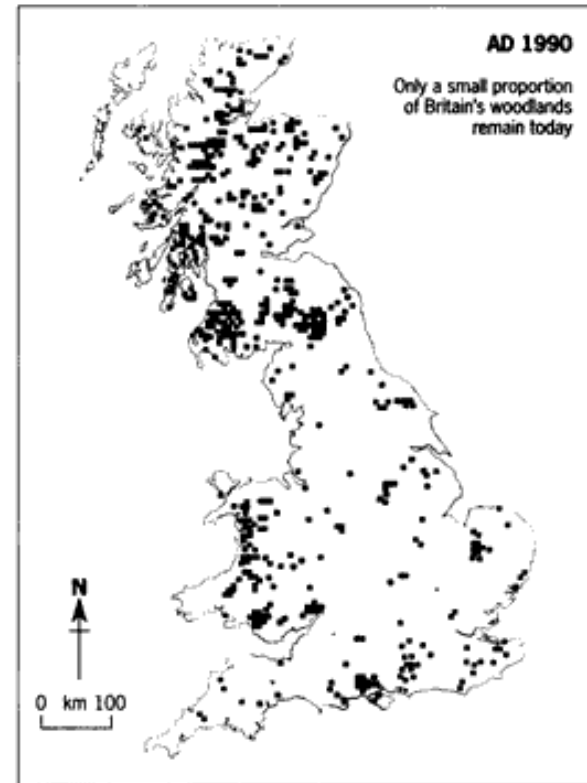


Figure 4.13 Britain's disappearing woodland (Source: Swan, *The Telegraph Magazine*, 10 March 1990)

Describe what the image is showing you.

(Areas which are black are where there are forests)

Challenge: Suggest reasons for the changes shown

Use the next three slides to make a poster on the causes of deforestation in deciduous woodlands.



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Deciduous woodland use and management

Economic Cause Agriculture

As farming has changed through the centuries, the amount of forested area in the UK has declined.

This stemmed from a growing population.

It dropped as low as 5% in 1919 as a result of greater demand for food.

The majority of population growth occurred in urban areas that do not produce their own food.

Challenge: what are the impacts of growing urban areas on forests?



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Deciduous woodland use and management

Economic Cause

Resource Extraction

Timber has been extracted from UK forests for centuries.

The UK's ship building industries depended on a reliable supply of wood.

More recently, the growth of wood burning stoves has increased the demand for wood as a fuel

Challenge: what impact would WW1 have had on the UK's forests?



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Social Cause Population Pressure

The main reason for deforestation of deciduous woodland is as a result of population growth.

Population growth between 1945-75 resulted in rapid deforestation to create room for growing suburbs.

Bracknell is an example of a town build in a area that was once forest (Windsor Forest)

London has retained 2500 hectares of woodland for recreational purposes.

Challenge: is deforestation in the UK a global problem?



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How does climate change present a threat to the structure, function and biodiversity of forest ecosystems?

Warmer temperatures has resulted in faster tree growth



bouncebackability

Deciduous forests are more resilient to small changes as the temperature range is greater. Deciduous forests can survive from -5°C to 25°C

Deciduous forests

Droughts increase the risk of disease and forest fires. In 2011, Swinley forest fire destroyed 200 hectares of forest.



Milder winters mean that pests and diseases are not killed off in the winter frost.



Milder winters mean that fruiting and flowering may be disrupted.



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Deciduous woodland management

L.O: To explain the ways an area of deciduous woodland is protected.
To assess the suitability of the protection methods.

Starter – What does sustainable management mean? Why is it important?





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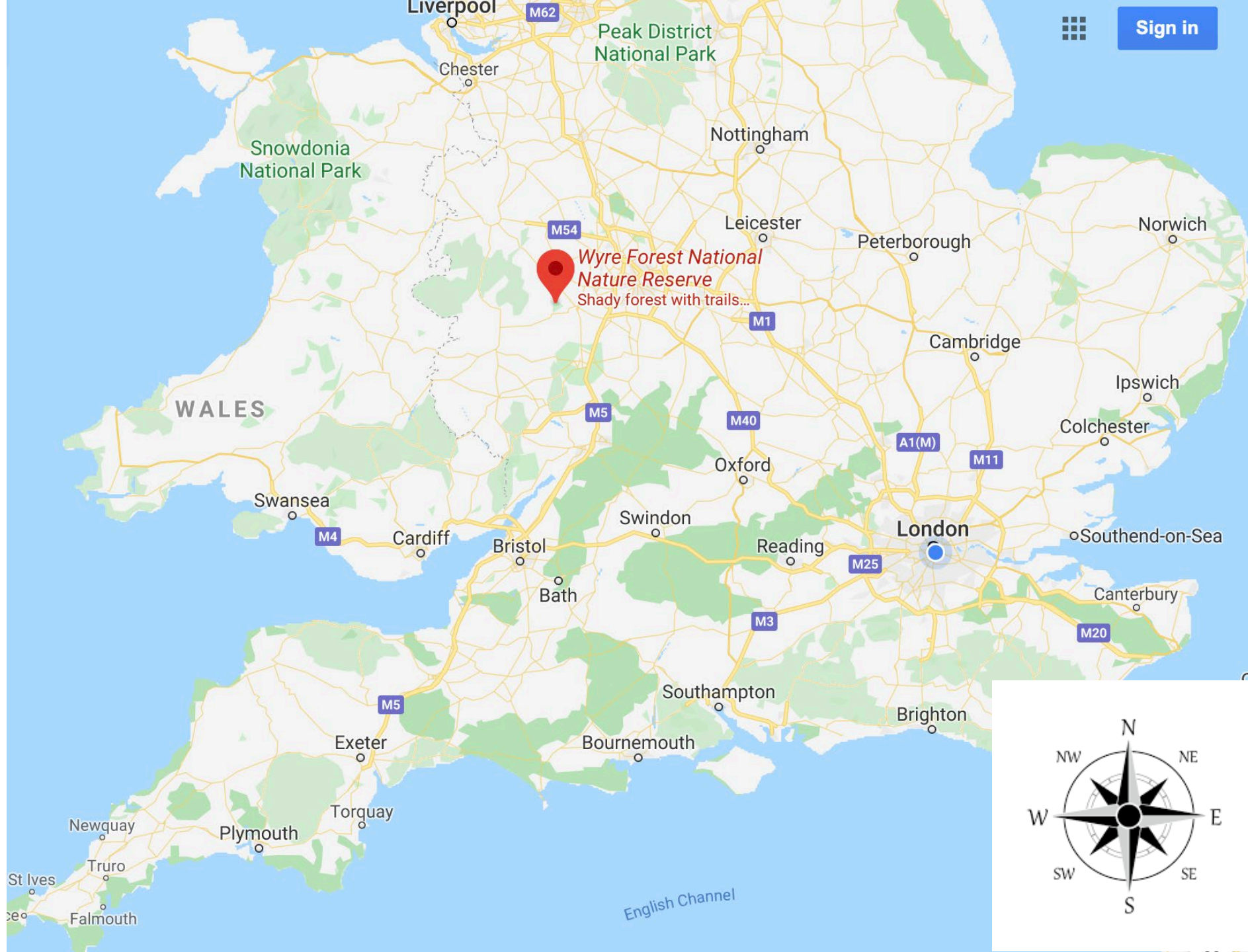
Deciduous woodland management

The Brundtland Definition (1987)

“Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs.”

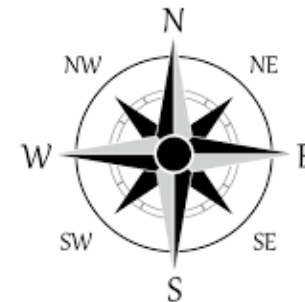
L.O: To explain the ways an area of deciduous woodland is protected.
To assess the suitability of the protection methods.

Why is this definition important if we want to protect something?



Give a geographical description of the location of the Wyre Forest.

Where is it in the UK?
Using compass directions.





Watch the video clip to see the wonderful natural beauty of the Wyre Forest

https://www.youtube.com/watch?v=03Gs_ZA3ZHU





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Deciduous woodland use and management

People who live in the area will be encouraged to take part in conservation work.

There will be community woods where people can cut their own firewood.

There will be a visitor centre in the woods to help educate people about what the forest can offer them.

Native tree species will be encouraged and non-indigenous conifers will be removed and replaced with deciduous trees.

The deer population will be carefully controlled.

There will be opportunities for skills development and training including forest industries apprenticeships.

These schemes have been put in place to manage the Wyre Forest and help to protect it.