

20. Human influences on ecosystems

20.1 Food supply

Paper 1 and 2

Question Paper

Paper 1

Questions are applicable for both core and extended candidates

- 1 What is an effect of an increase in the use of insecticides?
 - A decreased competition between crop plants and weeds
 - B decreased numbers of extinctions
 - C decreased numbers of pollinators
 - D decreased use of fertilisers

- 2 What can be used to reduce competition between crop plants and weeds?
 - A fertilisers
 - B herbicides
 - C insecticides
 - D pollinators

- 3 Wheat is often grown in large areas as a monoculture.
What is a negative environmental impact of this method of farming?
 - A The variety of species in the area is reduced.
 - B Fewer types of pesticide are needed.
 - C Larger harvests can be produced.
 - D Specialist machinery can be used.

Paper 2

Questions are applicable for both core and extended candidates

- 4 *Fusarium* wilt is a fungal disease of bananas that can spread quickly through a banana population.

The table shows the area affected by *Fusarium* wilt over time in one country.

year	area affected with <i>Fusarium</i> wilt / hectares
1967	0
1970	100
1976	1200
1983	1500
1999	3000

What was the percentage increase in the area affected with *Fusarium* wilt from 1976 to 1999?

- A** 40% **B** 60% **C** 150% **D** 250%
- 5 What is an advantage of growing crops as a large-scale monoculture?
- A** Biodiversity is increased.
B Genetic variation is increased.
C Water use is increased.
D Yield of the crop is increased.

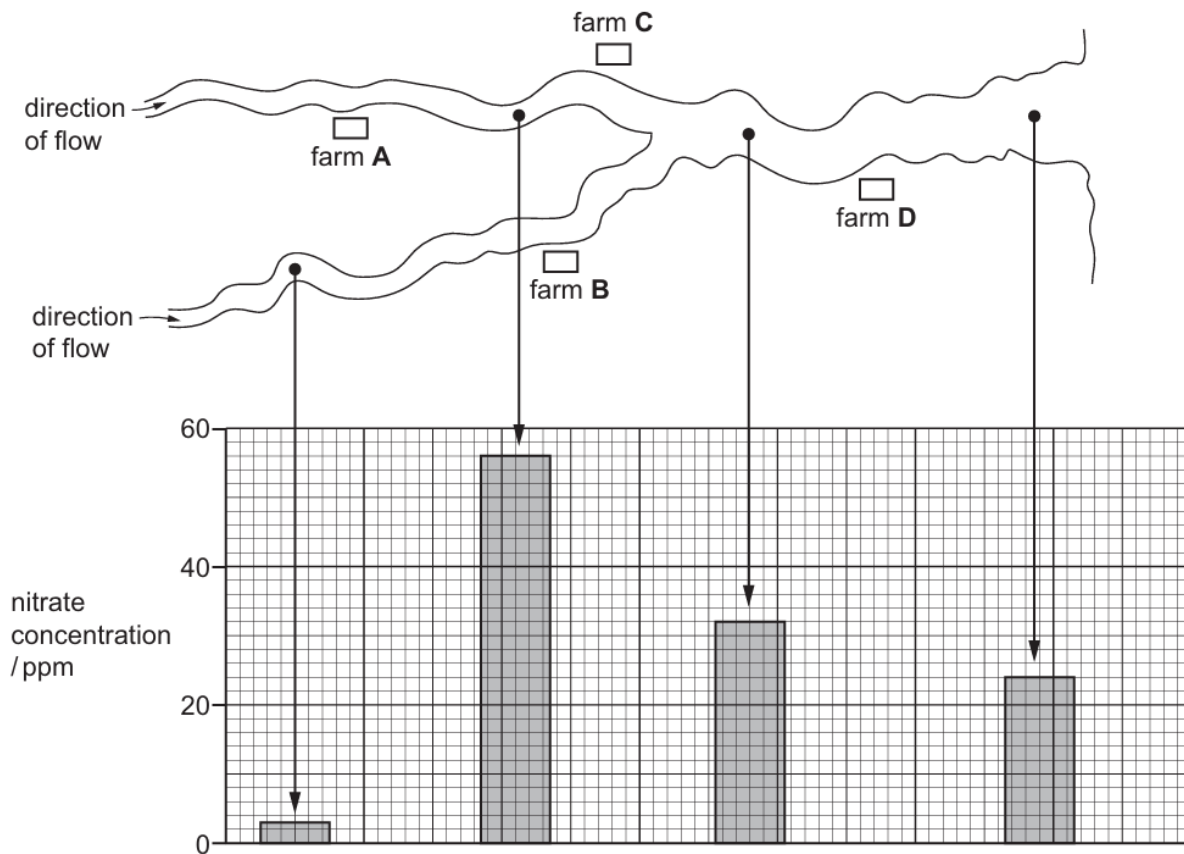
- 6 Wheat plants are often grown in large areas as a monoculture.

What is a negative environmental impact of this method of farming?

- A** The variety of species in the area is reduced.
B Fewer types of pesticide are needed.
C Larger harvests can be produced.
D Specialist machinery can be used.

- 7 The diagram shows the positions of four farms and the concentrations of nitrate at different points in a river.

Which farm is likely to have been using too much fertiliser on its land?



- 8 What is an effect of an increase in the use of insecticides?
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