

Food production **Triple only**

What is food security?

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Give three biological factors threatening food security.

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How can the efficiency of animal food production be improved?

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Why are some farm animals fed high protein foods?

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What objection do some people have to intensive farming?

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Why is the decline in fish stocks a problem?

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How do net size and quotas help conserve fish?

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What is mycoprotein?

Any three of: increasing birth rate, new pests and pathogens, environmental changes such as failing rains, cost of agricultural inputs, conflicts, changing diets in developed countries.

Having enough food to feed a population.

To increase growth.

Restrict energy transfer to the environment by limiting movement and controlling temperature.

Stocks must be kept at a level where breeding continues, or certain species may disappear altogether in some areas.

Ethical objections to the methods and the conditions in which the animals are kept.

A protein-rich food suitable for vegetarians, made from the fungus *Fusarium*.

A larger mesh lets young fish escape to grow and breed. Quotas limit the catch, so enough fish are left to breed and stocks stay sustainable.

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How is mycoprotein produced?

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What does a genetically modified bacterium produce for diabetics?

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What is golden rice?

Human insulin, which is harvested and purified.

Fusarium is grown on glucose syrup in aerobic conditions, and the biomass is harvested and purified.

A GM crop with improved nutritional value.