

Food production: crop plants

Name two ways a glasshouse increases crop yield.

Food production: crop plants

Why does extra carbon dioxide in a glasshouse increase yield?

Food production: crop plants

Why does too high a temperature in a glasshouse reduce yield?

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How do fertilisers increase crop yield?

Food production: crop plants

Why do farmers control pests?

Food production: crop plants

Give two disadvantages of pesticides.

Food production: crop plants

What is biological control?

Food production: crop plants

Give one disadvantage of biological control.

If carbon dioxide is limiting, photosynthesis is faster, so more glucose is made for growth.

It traps heat, so plants are warmer, and protects crops from pests and bad weather. It can also have extra light and carbon dioxide.

They supply mineral ions such as nitrates, so plants can make proteins and grow faster.

Above the optimum, the enzymes of photosynthesis are denatured, so the rate falls.

They can kill non-target organisms, build up in food chains, and pests can become resistant.

Pests eat or damage crops and spread disease, so they reduce yield and quality.

It is slow and may not remove the pest, or the control organism may become a pest itself.

Using a living organism, such as ladybirds eating aphids, to reduce a pest population.