

Agriculture and evaluating biotechnology

Give a benefit of selective breeding in agriculture.

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Give a risk of genetic engineering in agriculture.

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Give an ethical implication of genetic engineering.

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Give a practical implication of genetic engineering or selective breeding.

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A yield rises from 4.0 to 5.0 tonnes per hectare. What is the percentage increase?

Unknown effects on the environment or health, or genes spreading to wild species.

Higher yields and better quality food, with no special technology needed.

Cost, time (selective breeding takes many generations), skill, and the method may not work.

Some people think it is wrong to alter the genes of organisms, especially animals.

$$(5.0 - 4.0) \div 4.0 \times 100 = 25\%.$$