

Quarterly Problem

Science Edition

Securing the Food Supply

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Our food supply is largely dependent on imports of agricultural products. The war in Ukraine, which is a major producer of wheat and oilseeds, and the resulting disruption of supply chains make us painfully aware of this. Now, some European countries are seeking greater autonomy in agricultural production and are taking effective action. For example, controversial pesticides are being approved for use again. These pesticides can contribute to yield security in the short term by reducing crop losses due to pests. However, if used improperly, they can accumulate in soils and groundwater and cause lasting damage to local life, with far-reaching consequences for the ecosystem.

Brainstorm-Box
What are the
environmental effects of
pesticides? How do they
affect health, biodiversity
and agricultural yield?
What could be social and
economic aspects to this
problem?



How would you decide?

Is the short-term and targeted use of pesticides justified to secure our food supply? Or is extensive agriculture, which pollutes the soil and water less but requires a lot of land, preferable? Should areas that have been left fallow for biodiversity conservation reasons be recultivated? Who are the winners or losers in the case of using pesticides?

How did you come to your decision?

Describe your decision-making process.
What sources were the basis for your considerations?
How did you weigh the arguments for and against the use of pesticides?

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International Centre for STEM Education (ICSE)

University of Education Freiburg · Kunzenweg 21 · 79117 Freiburg icse@ph-freiburg.de · icse.ph-freiburg.de/impressum/

