

Food, Soil, Conservation and Pest Management

Food security?

Why is it important?

This chapter analyzes the world's food production systems and how they can be made more sustainable.

Malnutrition?

Malnutrition vs. overnutrition

1 billion have health problems because they do not have enough to eat and 1.2 face health problems because they eat too much

Green revolution

Croplands

biodiversity

Industrialized agriculture

Soil erosion and desertification

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GMO's

Desertification

- Overgrazing
- Erosion
- Deforestation
- Famine
- Drought
- Economic losses

Irrigation

- Dissolved salts
- Evaporation
- Water table
- Evaporation
- Water conservation

Pests

Green Revolution 3 steps

1. Selectively breed or GMO
2. Lots of fertilizer

3. Increase crops by multiple cropping

Are GMO's good or bad? What do you think



What are GMO's?

More sustainable?

- ★ How do we catch and raise more meat and fish?
- ★ What are the trade-off's?
- ★ Are pesticides truly beneficial?
- ★ Sustainability and food security

