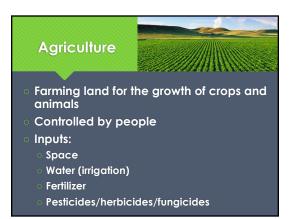
Agriculture & Aquaculture



Focuses on the long-term usability of the

land as well as meeting present needs

Multi-crop fields—reduces pests/disease

Avoid overgrazing—continuous grass and

Organic pest controls—minimizes chemicals

Crop rotation—protects soil nutrients

Benefits

- Reliable/predictable food supply
- Use of machinery increases efficiency
- Permits diversification of work force

Drawbacks



- Rapid depletion of soil nutrients
- Increase in erosion
- Machinery burn fossil fuels
- Decrease in biodiversity
- Chemical inputs lose effectiveness over time

Sustainable Agriculture

Techniques include

prevents erosion



Aquaculture

Water-based farming of fish and other seafood

Controlled by people

Inputs:

Space/tanks/netting—can be in existent aquatic ecosystem or 100% manufactured

Food

Water (manufactured)

Benefits



Prevents overfishing of natural populations

- Reliable food supply
- Reduced heavy metal contamination of fish
- Less labor intensive than fishing

Drawbacks

Higher chance of disease among fish Very high level of organic wastes in water (i.e. phosphate and nitrate!)

Sustainable Aquaculture



Focuses on the long-term usability of the water as well as meeting present needs

Techniques

Concentrate/remove organic wastes for use as fertilizer

Tanks directly linked to plants (hydroponics)

