

**"The wealth of  
Illinois is in her  
soil and her  
strength lies in its  
intelligent  
development"**

**- Draper**

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# How Does Heartland Teach These?

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## Water Management

- Tiling fields, having designated water ways
- Cover crops

## Nutrient Loss Reduction

- 4R strategy (right place, right time, right rate, right source)
- Cover crops and Precision Agriculture

## Soil Health

- Crop rotation, cover crops, soil testing
- Reducing unnecessary tillage

# How Does Heartland Teach These?



## Permaculture

- Food forest & edible windbreaks
- Urban gardening

## Waste Management

- Composting & Vermiculture
- Animal waste as fertilizer

## Energy Efficiency

- Geothermal, solar and wind energy
- Reducing field passes

# How Does Heartland Teach These?

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## Integrated Pest Management

- Pest prevention, cultural and sanitation controls
- Physical and biological controls followed lastly by chemical

## Precision Agriculture

- Using sensors and data for precise application
- Utilizing technology for advancements

## Post Harvest Loss

- Efficient harvesting
- Proper and safe storage

# Heartland Agriculture Timeline

