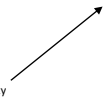


## Calculations in Agritopia

$$\text{Demand} = \text{Population} \times \text{Demand per Person}$$

(GDP) Sensitivity



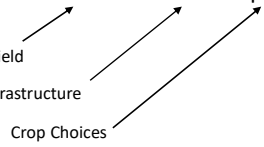
## Calculations in Agritopia

$$\text{Food Available} = \text{Production} - \text{Loss} - \text{Exports}$$

Land, Livestock, Yield

Infrastructure

Crop Choices



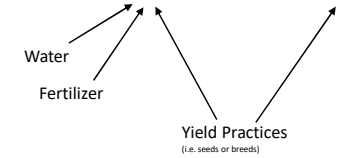
## Calculations in Agritopia

$$\text{Production} = \text{Land} \times \text{Yield} + \text{Livestock} \times \text{LS Yield}$$

Water

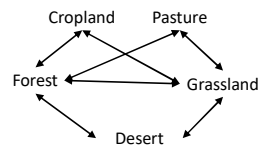
Fertilizer

Yield Practices  
(i.e. seeds or breeds)



## Calculations in Agritopia

## Five Land Uses

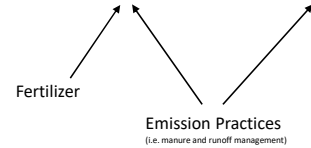


## Calculations in Agritopia

$$\text{Emissions} = \text{Land} \times \text{Factor} + \text{Livestock} \times \text{Factor}$$

Fertilizer

Emission Practices  
(i.e. manure and runoff management)



## Calculations in Agritopia

$$\text{Change in Water Level} = \text{Rain} - \text{Irrigation}$$

Climate

Need

Area Covered

Efficiency

