

## Emu for the final FORESITE product

NASIS

## Management Practices

Primary tillage (x2)  
Secondary tillage (x2)  
Fertilizer (x3)  
Cultivar (x1)  
Sowing (x4)  
Harvest date (x1)

## SSURGO

Component %  
Slope  
Top Depth  
Bottom Depth  
kF  
Db 0.33 bar H2O  
pH H2O  
.33 bar H2O  
15 bar H2O  
AWC  
Clay  
Sand  
Silt  
Ksat  
Organic Matter  
LL water content

## Daymet

Radiation  
Air temperature  
Precipitation  
Snow  
Water vapor pressure  
Day length

## Spatial Boundaries

Common Land Units

## Financial data

+25 market prices

## Emu for computational scalability

Wrapsim

APSIM

Emu for better understanding &amp; prediction

Biomass

SCC

Leach NO3

FORESITE

Within-field profitability

Within-field NO3 loss

Farm owners

Farm managers

Coops &amp; advisers

Industry (RaaS)

Policy makers

Scientific community