

# INFO8000 Project

➤ **Testing the efficacy of different treatments (nematicides and control) on nematode control and subsequent impact on fruit yield:**

- Untreated check
- Dominus
- Telone
- Resistant variety
- Pic 60
- Paladin

❖ 2 - year data and 2 locations

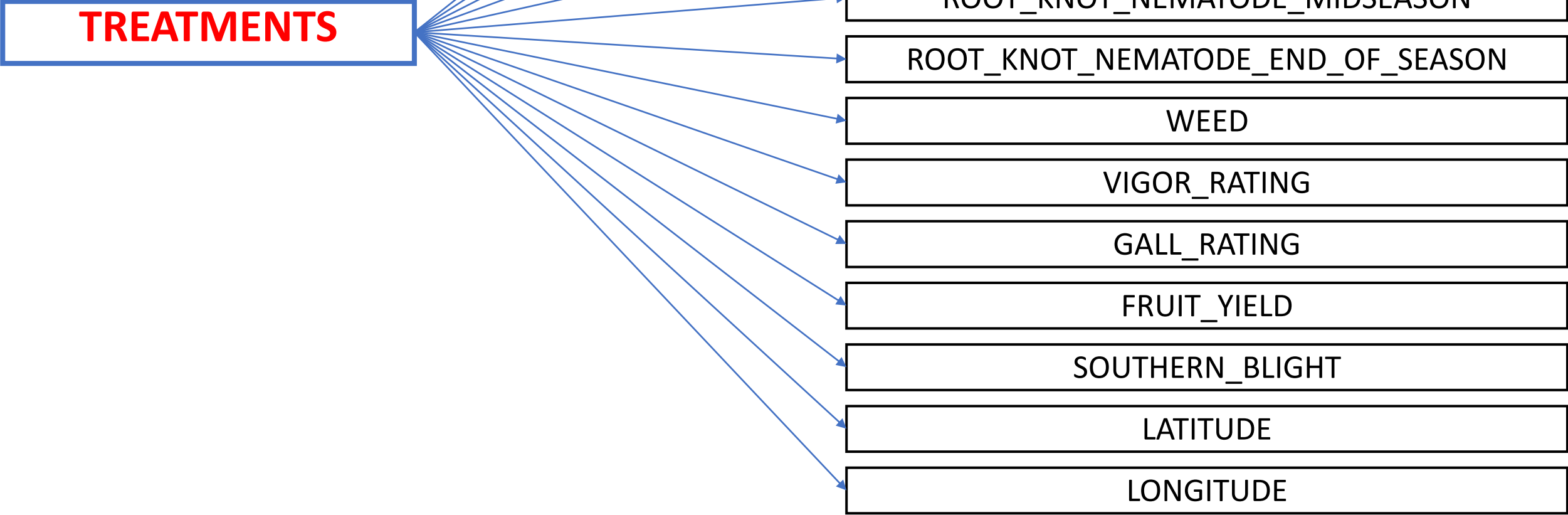


**Root-knot nematodes**



**Root galling caused by the root-knot nematode**

Diagram of Database



# Machine learning component

## ➤ Independent variables/predictors:

- Soil population density of root knot nematode at
  - 1) planting
  - 2) midseason
  - 3) at the end of season
- Weed density
- Vigor rating
- Gall rating
- Southern blight

## ➤ Dependent/target variable

- Fruit yield