

Soil Management:

- Design the crop sequence and then add more!
- As part of your integrated crop rotation, look at practices you can add in:
 - Nurse crops
 - Fall-seeded cover
 - Companion or interrow crop
 - Zone tillage
 - Reduced tillage
 - Mixtures to introduce greater diversity
 - Organic amendments



Soil Management:

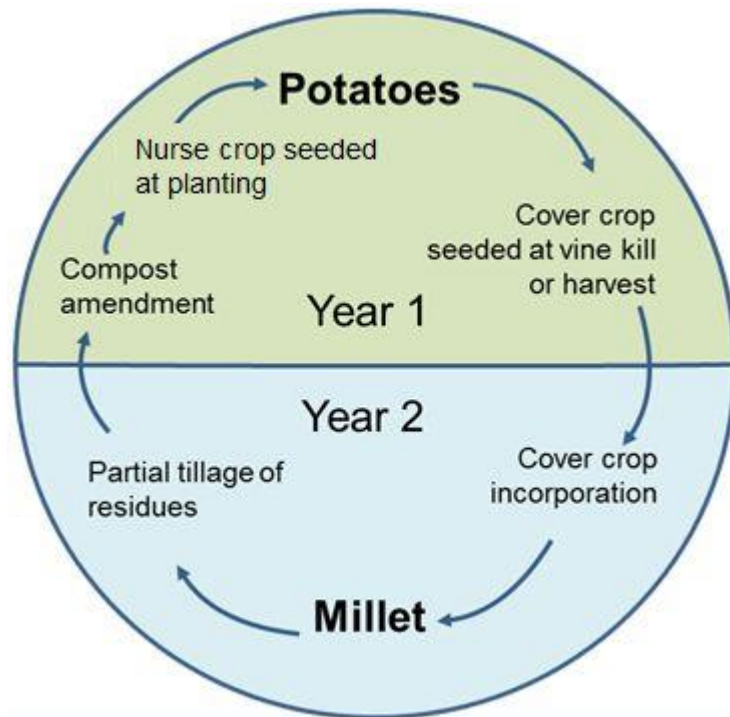
- What are the challenges for a potato grower?



- When is the soil at greatest risk of erosion?
- How can you cover it at those times?

Soil Management:

- Once we have established what we want for our crop sequence...let's add some extras!
 - ❖ Compost ?
 - ❖ Reduced tillage ?
 - ❖ Fall-seeded cover ?



Questions?

- How to seed?
- How do nutrients become available to the crops?
- How much compost?
- Compost in the millet year?
- Soil moisture?
- Yields and revenue?
- Costs of inputs?

Soil Management:

Compost Amendments:

- Benefits:
 - Increases soil organic matter
 - Increases soil pH
 - Holds and releases nutrients
 - Holds water
 - Reduces soil compaction and density
 - Increases soil pore size and distribution
 - Improves soil aggregation, tilth
 - Hastens soil warming
 - Improves soil microbial communities
- Negatives
 - Cost
 - Availability
 - Another operation to spread it when other operations require attention
 - Possibly holds too much water in heavy soils
 - Possibly causes nutrients like N to be hard to manage with possible effect on specific gravity

Soil Management: Compost Amendments:



Soil Management: Compost Amendments:



Soil Management: Tillage Treatments



Soil Management: Tillage Treatments



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