

# SEMIS SHORT COURSE

## SEED QUALITY ASSURANCE

### Hypochlorite Soak Test

The soak test is a quick test to reveal soybean seed coat damage. The test is primarily used during harvest to help reduce mechanical damage due to combining and seed handling. Samples are tested in the field. The test is also useful in determining processes which cause damage within the conditioning plant.

#### Requirements

- Soybean seeds
- 1% sodium hypochlorite solution
- Absorbent paper towels
- 100 ml beakers
- Forceps
- Petri dishes

#### Procedures

- Prepare a 1% sodium hypochlorite solution.
- Obtain petri dishes which each hold 100 seeds.
- Take a representative sample and four replicates of 100 seeds each.
- Submerge into 1% solution for 10 minutes.
- Remove swollen seeds
- Average the number of swollen seeds per replicate.