

Possible Threats requiring Mitigation:

- Tornado Events
- Storm Events
- Theft Protection
- Herbivory Protection
- Extreme Drought Protection
- Insects, Disease, and Invasive Species Protection

General Collection Mitigations:

- Redundant and Distributed Collection Plantings
- Collection Nursery Backup Propagation
- Collection Plant and Seed Sharing
- Collection Plant Donations
- Collection Distribution via Plant Sales
- Offsite Backup Plantings

Threats Mitigations:

- **Tornado Events:**
 - Collection is redundant in three separate areas within 112 acres with additional back up locations within north Alabama.
 - Collection is dormant for 8-9 months-including most of tornado season.
- **Storm Events:**
 - Flooding—Not a Threat. Collection not in flood zone. Surrounding areas have surface and subsurface drainage in place.
 - Tree Destruction—Minimum and temporary damage possible: mitigated by nursery backup and redundant collection plantings. Proactive tree-work conducted to minimize effect.
- **Theft Protection:**
 - Daily observations—No event detected in 10 years. Collection situated far from entrances.
- **Herbivory Protection:** (primarily deer and armadillo)
 - Deer—daily observations. Planting of more attractive crops adjacent to collection areas. Three non-destructive deer related events detected in 5 years.
 - Armadillos— Daily observations, use of cultural controls to make collection areas less attractive, milky spore, and when necessary— traps.
- **Extreme Drought Protection:**
 - Daily observations —Irrigation system installed for 90%— Remainder protected by manual watering as required.
- **Insects, Disease, and Invasive Species Protection:**
 - Destructive insects and pathogens—daily observations. Trillium mostly resistant; may use appropriate biological or chemical control if disease detected—2 events detected in last 10 years.
 - Invasive species—daily observations. Mechanical and chemical controls as needed.