

## Iowa Pleistocene Ambersnail *Succinea* species 4

**Habitat Preference:** Maderate Cliffs. Maderate cliffs are essentially Algific slopes without a substantial talus. Generally, the dissected (eroded) fissure and sink system is small. Fissures do not extend more than 500 feet into the rock and surface feeder sinks are usually cryptic.

### Threats:

- Human disturbance of slope habitat
  - Overgrazing
    - Causes compaction of the vents which prevents the cold air flow the snails are dependent upon.
    - Directly crushes individuals.
  - Logging
    - Causes compaction of the vents which prevents the cold air flow the snails are dependent upon.
    - Causes erosion
    - Causes fragmentation that further isolates the populations
    - Creates a loss of shade which creates warmer and drier conditions.
    - Contributes to direct harm from falling or removing logs.
  - Road Construction
  - Quarrying
  - Foot traffic
  - Pesticides
- Human disturbance of sink holes that feed the slopes
  - Filling in of sink holes
- Invasion of non-native species; especially garlic mustard.

### Appropriate Practices:

- Fencing to exclude grazing.
- Do not spray pesticides aerially within 100 yards of known habitat or ground spray within 20 yards of known habitat.
- Buffer sink holes to prevent them from filling with sediment.
- Limit human access to areas known to harbor Iowa Pleistocene Ambersnail.