Restoring Nesting Areas on the E.S. George Reserve, Michigan, to Reverse Declines in Turtle Nest Survivorship That Threaten Population Stability

ROY D. NAGLE¹, JUSTIN D. CONGDON², OWEN M. KINNEY³, AND TODD L. QUINTER¹

- ¹Environmental Science and Studies, Juniata College, Huntingdon, Pennsylvania
- ²University of Georgia, Savannah River Ecology Laboratory, Aiken, South Carolina
- ³Darlington School, Rome, Georgia





















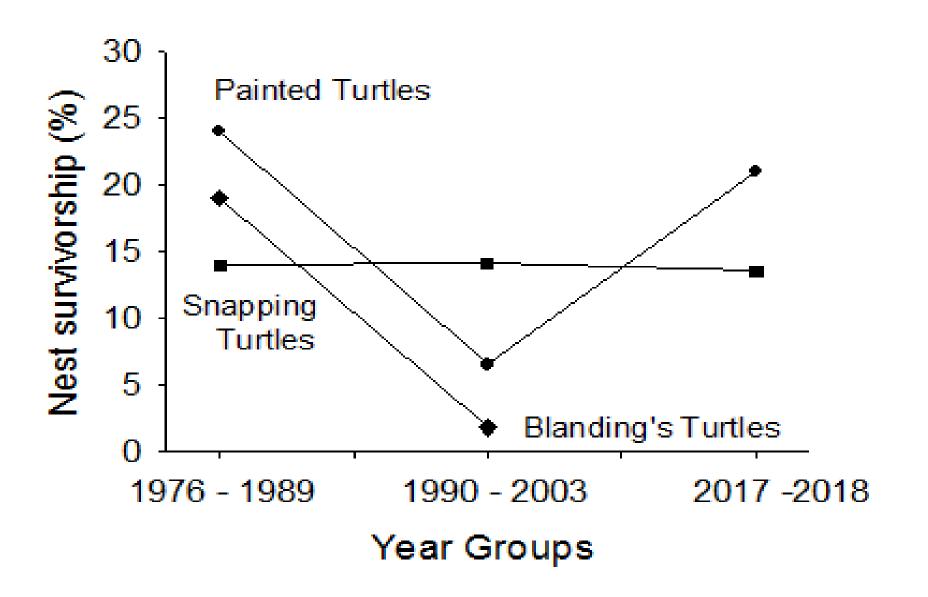




Loss of Nesting Habitat

- From 1975 to 2005:
 - Number of nesting areas reduced from > 50 to 8.
 - Acres of nesting habitat from > 70 to < 9.
- In 2016:
 - The only remaining nesting areas were roads, lawns, and firelanes.
 - Nesting habitat restoration initiated.





Restoration Equipment

















Restoration Equipment







Habitat Restoration Lessons

- Distribution, number and size of nesting areas are important ways to reduce predation rates.
- Knowledge of historic nest survivorship and nesting area locations was helpful.
- Restored nesting areas require annual tilling for several years to reduce seed bank & viable roots.
- Chain saw, tiller, and dedicated researchers and volunteers can do a lot to maintain nesting habitat.