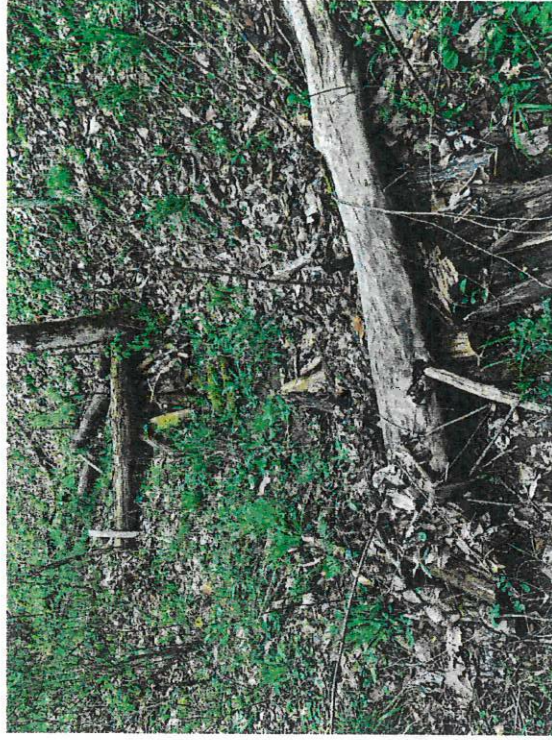


Hand-placed Wood in 1st Order Ravines





Hand-Placed Log Structures



Photos from > 500 ft of perennial rehabilitation via hand-placed log structures with Clermont Co. Soil & Water Conservation District

FALL 2018



SPRING 2019



Channel-spanning Jams

Improve Habitat, Retain Wood, Attenuate Hydraulic Energy, Prolong Baseflows



Photo from > 500 ft of perennial rehabilitation via hand-placed log structures with Clermont Co. Soil & Water Conservation District

Lessons Learned & Recommendations

- **Go Big Or Go Home**
 - Abundant key logs
 - Frequent jams dissipate energy catch floaters, new wood, & organic debris
- **Key Logs Proportional to Channel**
 - Length $> 0.5 \times \text{BF Width}$
 - $\geq 1.5 \times \text{BF Width}$ even better
 - Diameter $> 0.5 \times \text{BF Depth}$
 - Not as important as length
- **Ramping/Anchoring**
 - Up banks, behind live trees, etc.
 - Stakes & twine to prevent floating
 - Deflect current off banks
- **Couple with Revegetation**
 - Honeysuckle removal / forest restoration
 - Live stakes

