Tappan Lake

Distribution Line Full Scale Destructive Testing.
Tappan Lake, OH: Test Site

- Site 3: 115’ white pine ~5.1 ton
- Site 4: 90’ cherry ~6.2 ton
- Site 5: 90’ red oak ~6.34 ton
- Site 6: 78’ dead white pine ~4.5 ton
Pre-testing data collection
https://www.youtube.com/watch?v=tjWpkdcykPU
Or just search Tappan AEP on YouTube
Lessons Learned

• Old pole tops fail more often than old pole bottoms.
• Conductor ties (hand or preformed) are stronger than we think
• Lag screws are a release point
• New arms on old pole tops – bad idea
• Conductor damage sites (arching or corroded) are likely failure points
• Automatic splices fail more than compression splices.
• Damaged happened after the initial strike when conductor tension released
• Expect the unexpected