

# CHEROKEE BOY SCOUT RESERVATION

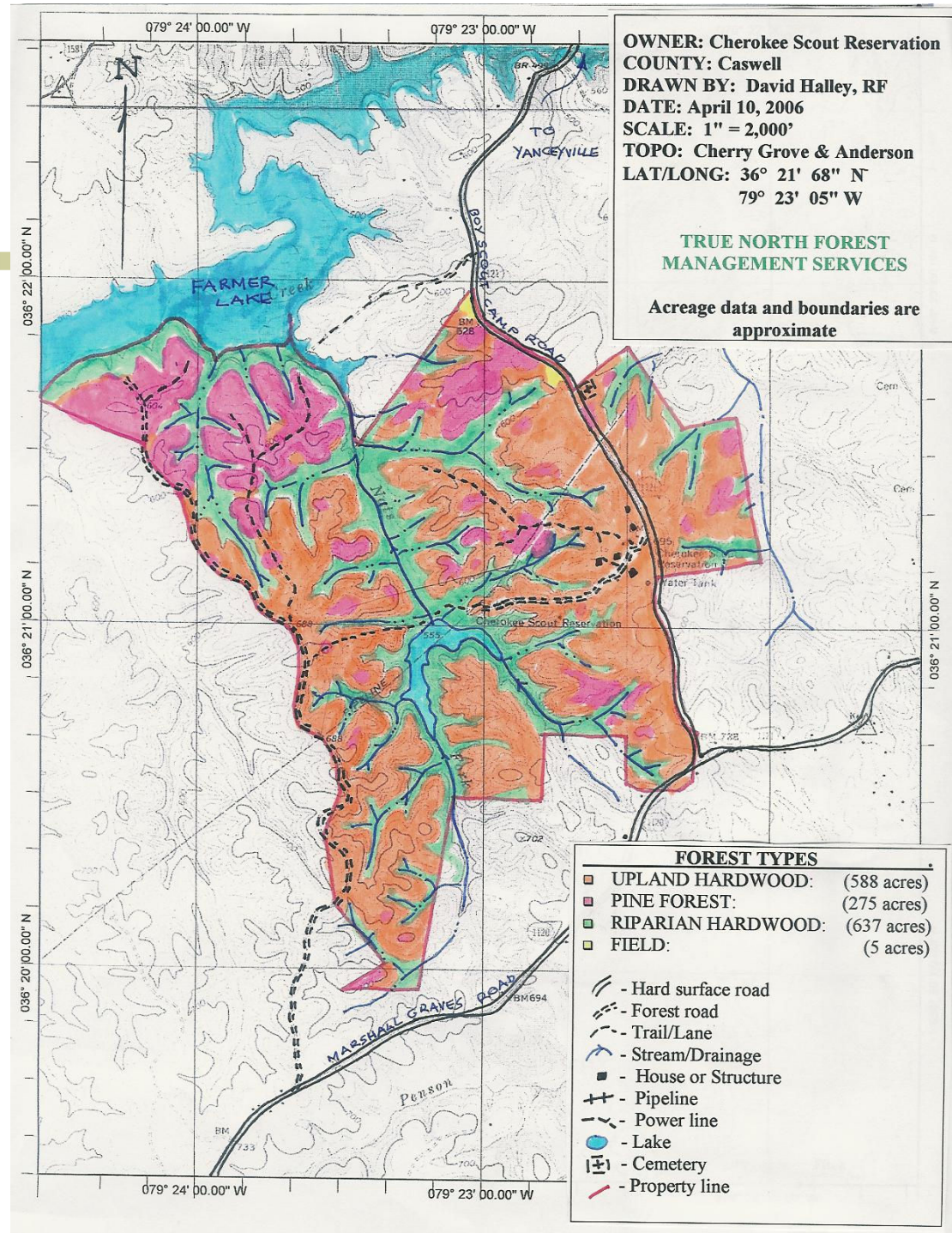
June 2016



# Present Forest Conditions

FOREST TYPE	ACREAGE	% OF LAND
UPLAND HARDWOOD	724	46%
PINE FOREST	160	10%
RIPARIAN HARDWOOD	680	43%
FIELD	31	2%
TOTAL	1595	100%

# Original Forest Types



# [ History ]

---

- Donated by Bassett Furniture in 1966
- No forest management for 40 years
- Leased to NC Game Commission for Archery Only Hunting
- Started discussions in 2003
- Resistance
- Hired True North in 2006

# Past Timber Management Practices

---

- Diameter Limit Harvests
- High-grading
- Selective Harvest
- Abandoned fields
- No Planned Reforestation

# [ Objectives ]

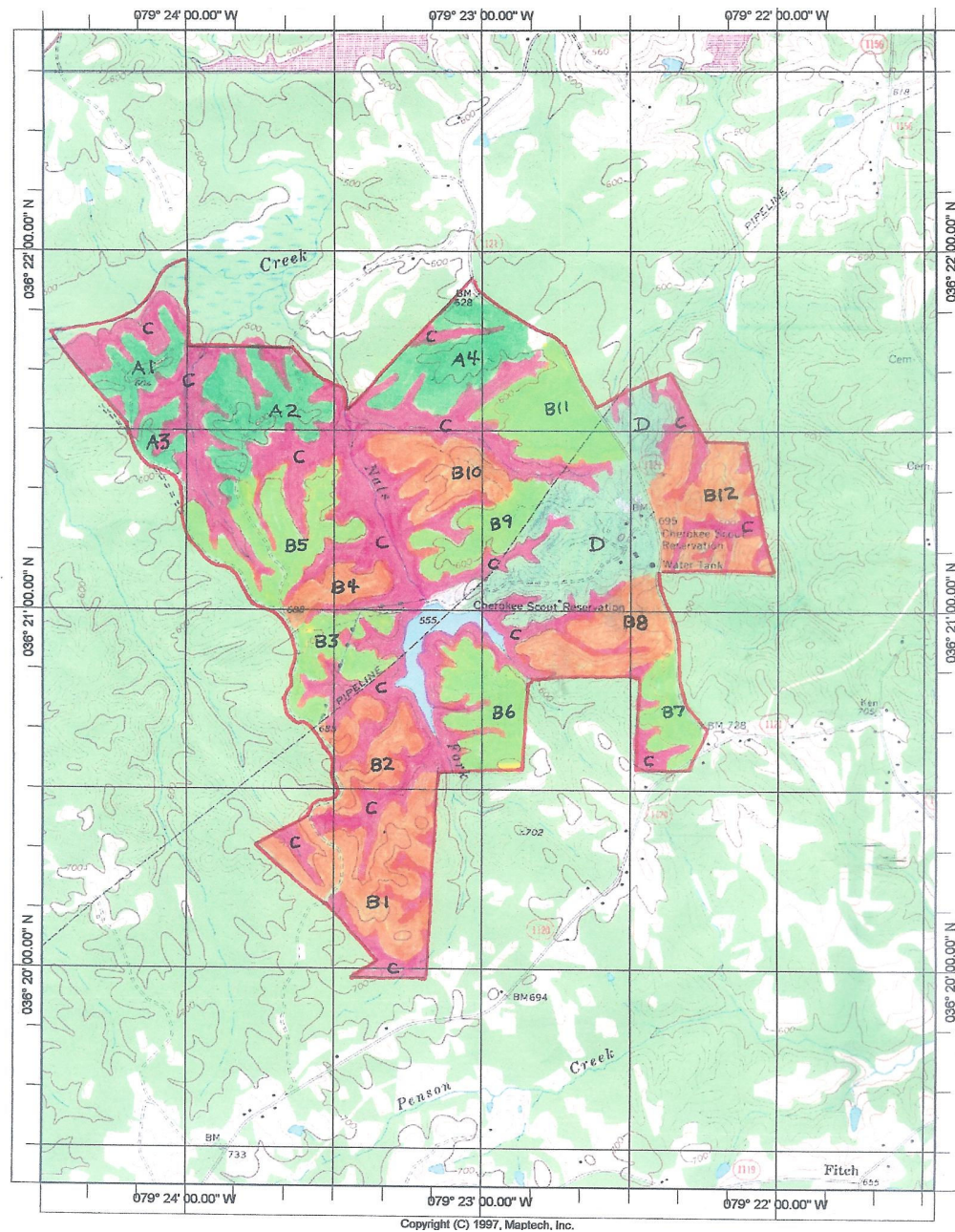
---

1. Improve, restore, and enhance the overall forest productivity
2. Enhance wildlife and songbird habitat
3. Protect and preserve water quality
4. Increase opportunities for recreation and Environmental Education
5. Become a model forest for ecologically responsible forest management

# Management Prescriptions (Restoration Plan)

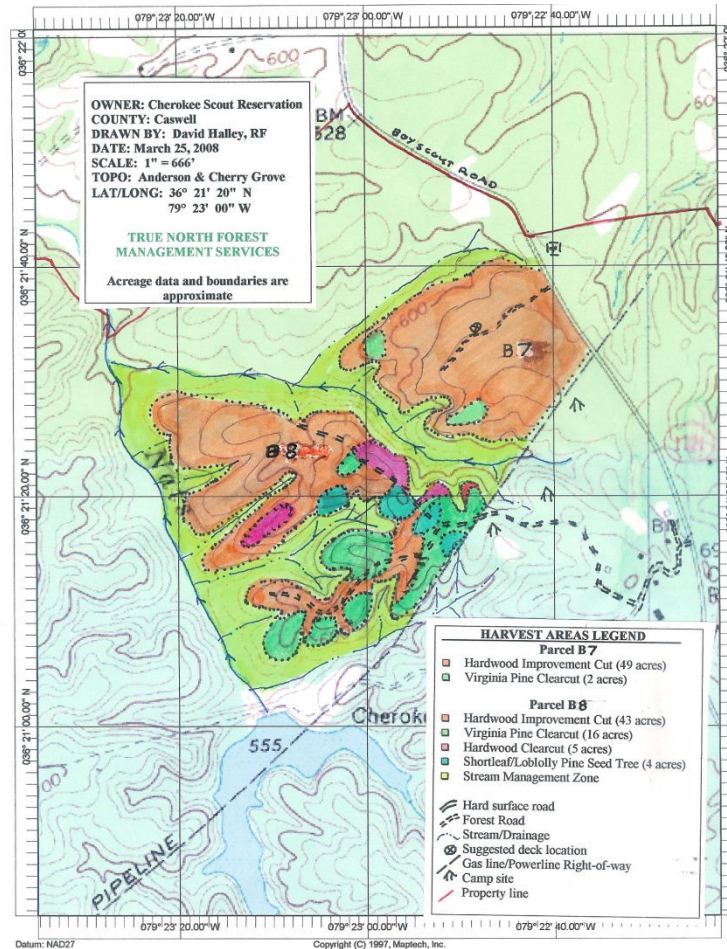
1. Protect Riparian Forest Buffers (43%)
2. Restoration: Modified Oak Shelterwood System
3. Timber Harvests -Small Group Openings
4. Convert low quality Virginia Pine to Loblolly and Shortleaf Pine
5. Maintain and enhance existing Shortleaf Pine

# Forest Management Unit Map





# Each Management Unit is Unique



# HARDWOOD IMPROVEMENT CUT – Modified Oak Shelterwood



# HARDWOOD IMPROVEMENT CUT



# [ Hardwood Improvement Cut – Stage 1 ]

- Do before age 80 years
- Focus on removing:
  - Crooked, limby or poorly formed trees
  - Damaged or diseased trees
  - Low timber value trees (maple, sweetgum, beech)
  - Small diameter trees/Midstory trees
  - Trees growing too closely together
  - Retain your best crop trees – Mother Trees

# Low Quality



# Low Value – Beech, Maple, Sweetgum



# Growing too Closely Together



# [ Overstory Before ]





# Overstory After



# [ Understory Before ]



# [ Understory After ]



# [ Understory After ]



# HARDWOOD IMPROVEMENT CUT – Marked (Before cut)



# HARDWOOD IMPROVEMENT CUT – Following cut



# HARDWOOD IMPROVEMENT CUT – Right After Cut



# HARDWOOD IMPROVEMENT CUT – Regrowth in 1 year





# Control What Grows in Your Next Forest



# Control What Grows in Your Next Forest



# Controlled Burning: “Mother Nature’s Herbicide”



# PROMOTE ADVANCED RENEGERATION OF OAK

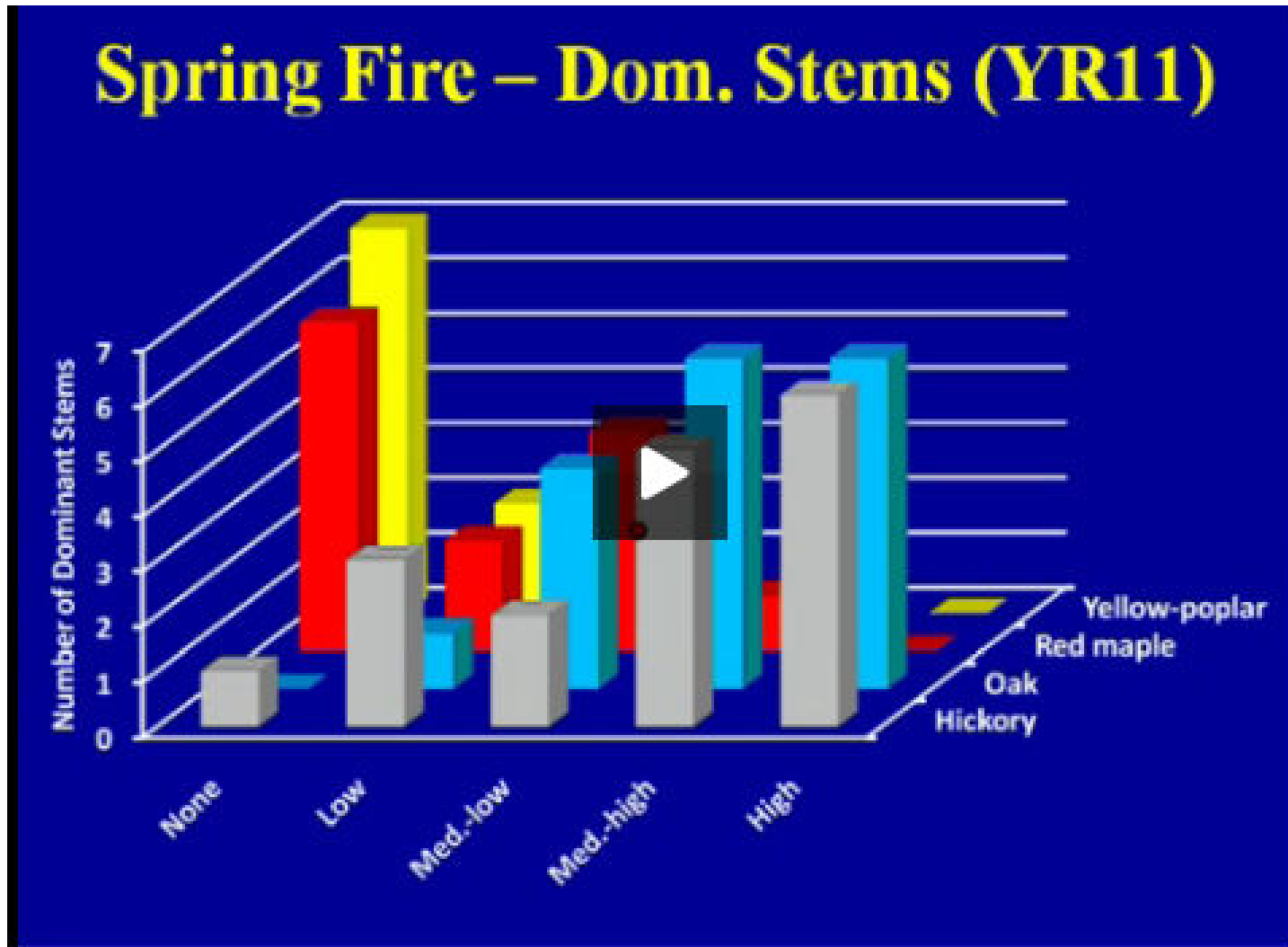


# Oak Root Development



Oaks differ from other hardwoods by location of their root collars and accompanying dormant buds. On oaks, these are belowground while in other hardwoods these are at or above ground.

# Fire Intensity is Important



## [ Release Burning Strategies for Oak ]

- Thinning paves the way for fire do its job
- Wait 4-5 years following thinning (roots)
- Make sure you have oak regeneration
- Wait for oak to develop (>0.75" RCD)
- Burn in late spring (during leaf expansion)
- Strive for moderate to high intensity burn.
- Reevaluate in 3 to 5 years before removing overstory. Maybe second burn

# SMALL GROUP OPENING





## [ Small Group Openings ]

- > 0.5 acres
- Small 1 to 5 acres
- Clean cut – harvest or fell all trees > 1”
- Seed trees in middle (<10 ft BA)
- Pick your worst hardwood stands first
- Scattered them around – Pieces of a puzzle
- Crop Tree Release – Age 15 to 20 yrs old

# SMALL GROUP OPENING



# SMALL GROUP OPENING



# [ Group Selection Opening ]



# True North Hardwood Management Strategy

- Harvest < 5% of stand in form of small group selection openings (puzzle pieces)
- Marked hardwood improvement cut to improve existing forest and advance regeneration of oak
- Treat large maple, poplar and sweetgum stump sprouts
- Spring burn: Medium to high intensity burn to improve oak regeneration 4 to 6 years after improvement cut
- Come back in another 8-10 years to harvest additional 20% of stand in small openings.

# Shortleaf Pine Management –



# [ Before (2009)/After (2015) ]



# [ Precommercial Thinning ]





# [ Heavy Shortleaf Pine Seed Tree ]



# Marked Seed Trees



# [ Planted small opening in SLP ]



# Accomplishments

- Harvests (2006, 2007, 2008, 2010, & 2013) on all 12 Management Units
- 411 acres of Hardwood Improvement Cuts
- 176 acres of Virginia Pine converted to Shortleaf pine (47 ac) and loblolly (129 ac)
- Small Group Openings (25 acres)
- Precommercial thinning in Shortleaf (47 ac)
- Understory Oak Burns (76 ac)
- Extensive road building and improvements

# GROSS INCOME BY PARCEL

Parcel	Species	Acreage	Tons/Acre	\$/acre
A1	Pine	33	54	\$332
A2	Pine	56	71	\$478
A3	Pine	15	38	\$267
<b>Total</b>		<b>104</b>		<b>\$401</b>
B1	Hardwood	67	35	\$122
B2	Hardwood	33	33	\$103
B3 & B4	Hardwood	53	16	\$98
B5	Hardwood	65	32	\$253
B6 & B7	Hardwood	89	41	\$334
B8	Hardwood	67	43	\$324
B9	Hardwood	32	84	\$640
B10	Hardwood	48	64	\$690
<b>Total</b>		<b>454</b>		<b>\$304</b>

# [ Portable Sawmill/Adirondacks ]



# Forest Stewards Guild Model Forest

## Cherokee Boy Scout Reservation

**Forest Statement**  
By David Halley, RF

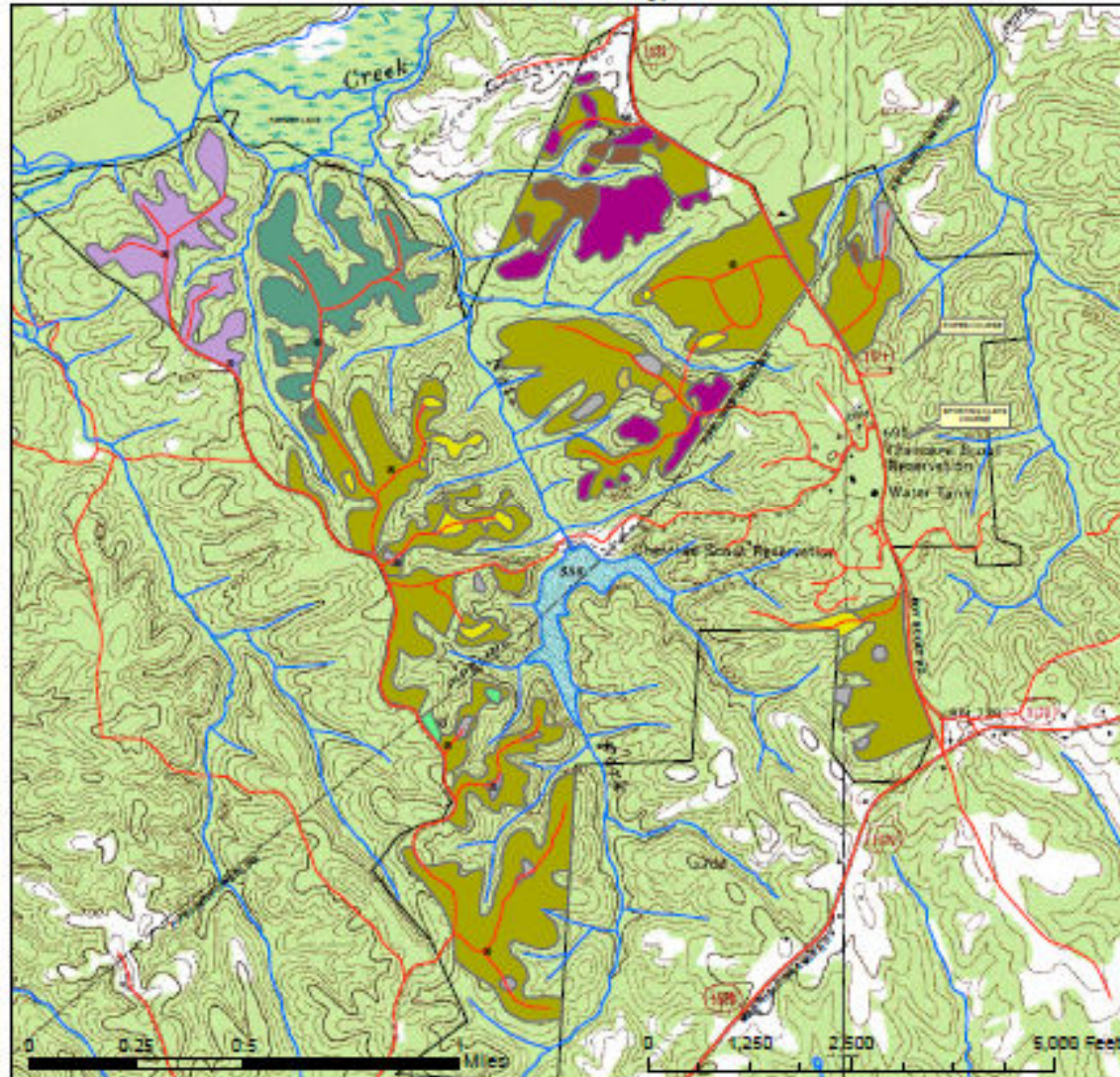
Cherokee Boy Scout Reservation is a 1,700-acre Boy Scout camp in Caswell County, North Carolina. A majority of the property was donated by Bassett Furniture Company to the Old North State Boy Scout Council in 1966. See a map [here](#). For the most part, the council spent the first 20 years of its ownership developing an overnight summer camp and a 26-acre swimming lake on about 200 acres of the property. Most of the other portions of the property were left alone.

Around 2003 the council started discussing the use of the remainder of the camp and exploring the possibility of managing the forests. Some of the council and staff initially resisted the idea, but after several years of discussion, promotion by the board of director's president and presentations by potential consulting foresters, the council decided to proceed with developing a forest management plan that would guide the sustainable and ecologically responsible management of the forests on the property. In 2006 the council hired my forestry consulting firm True





# Cherokee Boy Scout Reservation Forest Management Map Caswell County, NC



## Stand Key



## Aerial Imagery 2008



**TRUE NORTH**  
Forest Management Services  
4713 Salem Ridge Rd.  
Holly Springs, NC 27560  
(919) 882-4108



# [ Contact Info ]

---

## **True North Forest Management Services**

David Halley: 919-815-3468

[halleydave@aol.com](mailto:halleydave@aol.com)

[www.truenorthforestry.biz](http://www.truenorthforestry.biz)