

Timber Valuation Report

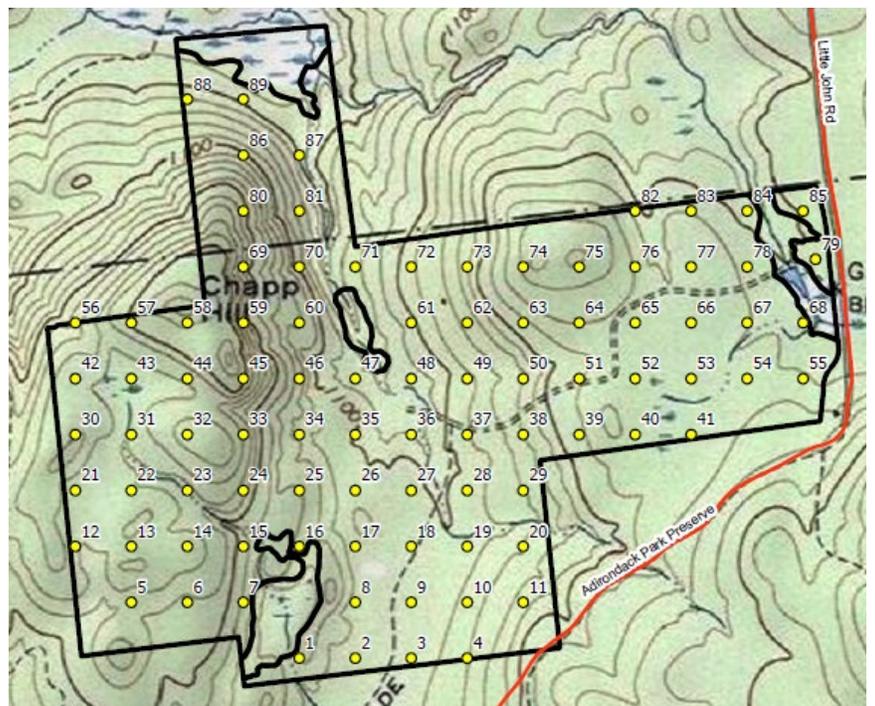
Owner: Gloria Story

Chapp Hill Tract

429 Tax Acres

Colton, St. Lawrence County, New York

September 2022



F&W Forestry Services, Inc.

80 Park Street, Suite 4
Tupper Lake, NY 12986

Tel: (518) 359 3089
Fax: (518) 359 3127

www.fwforestry.com

Purpose

This timber inventory and valuation project is to determine the capital value of the standing timber resource on the 410 GIS acres property in the Town of Colton, St. Lawrence County, New York, owned by Gloria Story, by request of the owner. Capital timber value is the full market value of all the timber as it stands, reflecting all the relevant access and operating considerations, but without regard to market saturation, or time required for harvest. This timber valuation report was prepared for the use of the owner. It is understood that it may be used by the landowner in support of decisions regarding ownership and the sale of the property.

Method of Estimate/Sampling

The Chapp Hill Tract is 410 GIS acres of forestland of which 379 acres are productive timberland. For this inventory, 79 inventory plots were defined on the area of productive forestland by a systematic grid oriented True North/South. Data was collected in September 2022.

- a. Inventory Personnel: Trevor Keough, forester for F&W was the cruiser on this project. Check cruising was completed utilizing foresters from F&W Forestry.
- b. Plot Monumentation: To facilitate check-cruising, all plots were monumented at plot center with a flag hung at eye level, and another on a stick stuck into the ground at plot center. The flag at eye level includes the following information: Cruiser Initials, Date, and Plot Number.
- c. Procedures: Procedures for the cruise were defined in a Timber Inventory Instruction Manual prepared in advance of the field work and reviewed by the cruiser. In general, the cruise procedure involved Variable Radius Plot Sampling with a 10-factor prism. All products in each "In" tree were called in 8-foot sections from the stump to the limit of merchantability (a 4" top unless otherwise defined for the tree by the cruiser). Diameters were recorded to the nearest inch, using a diameter tape. Regeneration was tallied on this cruise but is not a part of the Timber Valuation. The Timber Inventory Instruction Manual is attached in the Timber Reports and Inventory Documents section of this report.
- d. Product Specifications: Can be found in the Timber Inventory Instruction Manual.
- e. Processing: Overstory data was processed with Two Dog, using form-class based volume tables to calculate volumes. Form class, by species, was determined from regional standards.

Chapp Hill Tract

Prepared for Gloria Story

Timber Valuation

Prepared By

F&W FORESTRY SERVICES, INCORPORATED

Colton, St Lawrence County, New York
September 2022

410 GIS Acres
379 Commercial Acres

Species	Volume MBF/CD	Unit Price Range			Total Value Likely
		Low	High	Likely	
Sawtimber - MBF (International 1/4")					
Sugar Maple	196	350.00	400.00	475.00	93,100
Red Maple	268	150.00	225.00	210.00	56,400
Black Cherry	168	275.00	375.00	315.00	53,000
Spruce/Fir	120	90.00	130.00	120.00	14,500
Hardwood Pallet	233	40.00	60.00	60.00	14,000
Sugar Maple Pallet	213	50.00	60.00	65.00	13,800
White Ash	57	160.00	220.00	200.00	11,400
Yellow Birch	21	225.00	300.00	275.00	5,800
Black Cherry Pallet	24	40.00	60.00	60.00	1,400
Yellow Birch Pallet	24	40.00	60.00	60.00	1,400
Aspen	19	40.00	60.00	50.00	1,000
Pulpwood - Cords					
Hardwood	6,246	10.00	15.00	14.00	87,400
Hemlock	55	10.00	14.00	12.75	700
Softwood	93	3.00	5.00	4.00	400

Totals					
Sawtimber Total	1,345 MBF				\$265,800
Sawtimber Per Acre	3.278 MBF				\$648
Sawtimber Per Comm Acre	3.546 MBF				\$701
Cordwood Total	6,394 Cords				\$88,500
Cordwood Per Acre	15.6 Cords				\$216
Cordwood Per Comm Acre	16.9 Cords				\$233
Total Per Acre					\$864

Total Value	<u>Low</u>	<u>High</u>	<u>Likely</u>
	\$310,000	\$358,000	\$354,300

BASED ON SELLERS FALL 2022 INVENTORY, 79 Plots, 10 factor Prism

The cruise resulted in a statistical error of ±14.1% for sawlog products and ±8.9% for all products combined at the 95% Confidence Level

The volumes and values reflect estimated total capital value of merchantable timber.

The volumes and values are not a liquidation value.

Prices are averages for the area and are adjusted to reflect, access, quality and operability of the site.

Timber Reports and Inventory Documents

TIMBER INVENTORY INSTRUCTION MANUAL

PROPERTY: CHAPP HILL

LOCATION: ST. LAWRENCE COUNTY, NEW YORK



F&W FORESTRY SERVICES, INC.

Inventory Instructions

Purpose

The purpose of this inventory is to sample merchantable stems in natural hardwood/softwood stands on approximately 431 forested acres of the subject property.

General Measurement Information

- Data will be entered into HDR's using TwoDog software
- All merchantable trees will be measured using a BAF 10 prism.
- Record all trees by species as indicated in Table 4.
- Tally all diameters in one-inch classes. Example : 6" DBH class = 5.51" – 6.50"
 - Details on measuring DBH are included in Appendix C.
- All trees can be multi merchandised when more than one product is present. **SEE ADDITIONAL SPECS**
- All merchantable heights will be recorded to the nearest ½ log in lengths as specified in the specs.
 - The intent of product calls is to enumerate real products contained within the tree. Products are called in 8-foot sections, starting at the lowest possible stump height and each 8' stick is graded individually. A tree that looks to be saw log quality from plot center may contain a very bad defect on the other side. Look at all sides of a tree before grading it. Cruisers should periodically check height calls with the aid of a hypsometer or clinometer to ensure that height estimates are consistently accurate.
- A single log product call (one 8-foot stick of pallet or saw log) indicates that the full length of the product is present in the tree. However, for product calls of two or more sticks the cruiser will round to the nearest full product - if the height/length of the last log in a called product stick clearly exceeds 4 feet then the cruiser should round up and if the last product is under 4 feet then the cruiser should round down.
- Cull sections can be recorded in one foot increments, as appropriate, to account for non-merchantable sections.
- Note noncommercial areas and adjust filed map as necessary and as observed.
- If you have **any questions** about the inventory or product specifications ask the on location field supervisor. It is much easier to deal with questions during the cruise than with errors when the inventory is being analyzed.

Map Specifications

- Cruise maps should be updated while in the field. Clearly note any important information on:
 - Harvest or thinning activity
 - Merchantability and operability
 - Additional significant features (roads, streams, right-of-ways, cemeteries, ESA concerns), please record & include GPS coordinates.
- If plot is moved indicate new location on map and provide GPS coordinates.
- A clean master map should include all significant features, and designation of all merchantable stands that are eligible for harvest within the next ten years on one map. All cruisers should sign map. See Appendix B as example.



Plot Specifications

Plots should be located based on provided GPS locations. If GPS locations are not available establish plot as close to mapped position as possible. If point does not fall in the correct stand see Appendix A for instructions.

Plot location shall be monumented as follows;

- Place a pin flag or stout stick with flagging at plot center.
- Tie a piece of flagging at or near eye level with plot number, cruiser number/initials and date written with permanent marker or grease pencil.
- Flag and/or paint with a vertical line above DBH on the first sampled tree from true north and continue clockwise with measurements.
- Mark the location of DBH measured with spray paint or paint stick.
- If DBH of tree is measured and found to be out, place an "X" below the DBH mark. It is helpful for auditors if borderline trees are flagged and "BL-in" or "BL-out" is written on flagging

F&W Code Descriptions

Table 1. Product Codes

Product Code	Descriptio
6	Pulpwood
2	Grade Sawtimber
4	Tie/Pallet
9	Veneer
8	Cull

Table 2. Quality Codes

Quality (AGS/UGS)	Description
1	Tree capable of producing one log now or in the future and live 15 years or longer
2	Tree not capable of producing one log now or in the future and live 15 years or longer

Table 3. Plot Attributes

Plot Code	To be identified on each plot by cruiser
Plot #	Plot Number
Type Code	H-Hardwood, S-Softwood, M-Mixedwood
Size Code	1-Sapling, 2-Poles, 3-Sawtimber
Stocking	A-Overstocked, B-Well Stocked, C-Understocked



- Type/Size/Stocking Code Descriptions
 - H – Hardwood – Greater than 65% of overstory stocking in hardwood species.
 - M – Mixedwood – Mix of hardwood and softwood species, neither making up more than 65%
 - S – Softwood – Greater than 65% of stocking in softwood species.

 - 1 – Seedling/sapling – Stand diameter up to 5” dbh
 - 2 – Pole – Stand diameter 6” to 10” DBH (high end may be as low as 8” DBH for softwood stands)
 - 3 – Sawtimber – Stand diameter 11” DBH and greater (may be as low as 9” DBH for softwood stands)

 - A – Over Stocked – Stocking approaching A line on appropriate stocking charts – roughly 80% overstory stocking or greater.
 - B – Adequately Stocked – B line stocking on appropriate stocking charts – approximately 50% to 80% overstory stocking.
 - C – Under Stocked – C Line or less on appropriate stocking charts – less than about 50% full stocking.

Table 4. Species Codes

SPECIES

Code	Species	Code	Species	Code	SPECIES
1	White Pine	11	Beech	21	Other Pine
2	Red Pine	12	Red Oak	22	Butternut
3	Spruce	13	NC Hdwds.	23	Norway Spruce
4	Fir	14	White Ash	24	Hickory spp.
5	Hemlock	15	Aspen	25	Black Ash
6	Cedar	16	Black Cherry	26	White Oak
7	Sugar Maple	17	Black Birch	27	Chestnut Oak
8	Red Maple	18	Basswood	28	Scarlet Oak
9	White Birch	19	Other Hdwd.	29	Black Oak
10	Yellow Birch	20	Tamarack	30	Elm



Product Specifications

Products will be determined based on the specifications below.

CHAPP HILL FOREST PRODUCT SPECIFICATIONS

PINE/HEMLOCK/OTHER SOFTWOOD		DBH		CRUISE TO:		MINIMUM	MINIMUM	
PRODUCT	GRADE CODE	MINIMUM	MAXIMUM	MERCH HT	TOTAL HT	TOP DOB	LENGTH	COMMENTS
PULPWOOD	6	4.51	26.59	4.00	N/A	4.00	16	MUST CONTAIN GREATER THAN 50% SOLID MATTERIAL.
TIE/PALLET (WHITE PINE ONLY)	4	9.51	+	8.00	N/A	8.00	8	EXCESSIVE LARGE KNOTS OR OTHERWISE NOT MEETING CODE 2 SPEC
SAWTIMBER	2	9.51	+	8.00	N/A	8.00	12	FREE OF EXCESSIVE KNOTS; DEAD KNOTS $\leq 2"$ LIVE KNOTS $\leq 3,"$ STRAIGHT, SOUND MIN LENGTH 12' (TALLY AS 16')

SPRUCE/FIR		DBH		CRUISE TO:		MINIMUM	MINIMUM	
PRODUCT	GRADE CODE	MINIMUM	MAXIMUM	MERCH HT	TOTAL HT	TOP DOB	LENGTH	COMMENTS
PULPWOOD	6	4.51	26.59	4.00	N/A	4.00	16	MUST CONTAIN GREATER THAN 50% SOLID MATTERIAL.
SAWTIMBER	2	6.51	+	5.00	N/A	5.00	12	FREE OF EXCESSIVE KNOTS; DEAD KNOTS $\leq 2"$ LIVE KNOTS $\leq 3,"$ STRAIGHT, SOUND MIN LENGTH 12' (TALLY AS 16')

HARDWOOD		DBH		CRUISE TO:		MINIMUM	MINIMUM	MINIMUM	
PRODUCT	GRADE CODE	MINIMUM	MAXIMUM	MERCH HT	TOTAL HT	TOP DOB	LENGTH	CLEAR SIDES	COMMENTS
PULPWOOD	6	4.51	26.59	4.00	N/A	4.00	16		MUST CONTAIN GREATER THAN 50% SOLID MATTERIAL.
VENEER	9	14.00	+	12.00	N/A	12.00	8	4	MUST BE FREE OF ROTTEN BRANCHES, HOLES AT STUMP, BAD SWEEP OR CROOK.
SAWTIMBER	2	10.51	+	10.00	N/A	10.00	8	2	MUST BE FREE OF ROTTEN BRANCHES, HOLES AT STUMP, BAD SWEEP OR CROOK.
TIE/PALLET LOGS (no aspen)	4	10.51	+	10.00	N/A	10.00	8		STRAIGHT, SOUND, NOT MEETING CODE 2 SPEC
TIE/PALLET LOGS (SM/BC/YB)	4	10.51	+	9.00	N/A	9.00	8		STRAIGHT, SOUND, NOT MEETING CODE 2 SPEC
CULL	8	4.51	+		N/A		1		CALL IN ONE FOOT SECTIONS ACCOUNTING FOR BAD SWEEP, ROT, FIRE SCARS,

1. LOGS MUST BE STRAIGHT ENOUGH TO SQUARE INTO A CANT IN 8, 10, 12, 14, OR 16' SECTIONS.



Appendix A – Plot Location Information

For locating plots, the following guidelines will be followed:

1. If the plot falls on a property boundary line:
 - a. If the plot center is inside the property and the plot overlaps the boundary, back the plot into the property along the cruise line to a point that is three times the largest DBH on the plot (i.e., if the largest DBH is 10" then move the plot center 30 feet from the line).
 - b. If the plot center is outside the property, omit the plot.
2. If the plot center falls on an internal road, stream, or other non-timbered area, and
 - a. If the acreage for this non-forest area is to be included in the cruise acreage, then conduct measurements on the plot.
 - b. If the acreage for this non-forest area is to be subtracted from the cruise acreage, and
 - i. If the plot center falls in the non-forest area, then omit the plot.
 - ii. If the plot center is in the mapped forest area, but the non-forest falls within the plot radius, back the plot into the property along the cruise line to a point that is three times the largest DBH on the plot (i.e., if the largest DBH is 10" then move the plot center 30 feet from the line).
3. The location of the plot should be as close as possible to the location on the map, regardless of timber type, ground condition, stocking, etc. A plot moved elsewhere in a similar type or to "better represent a stratum" is not acceptable.



Appendix B – Sample Cruiser Map

Example MASTER MAP

Plot 713 Adjusted 60' South; Fell on Boundary Line
 Plot 684 Adjusted 60' South; Fell on Boundary Line

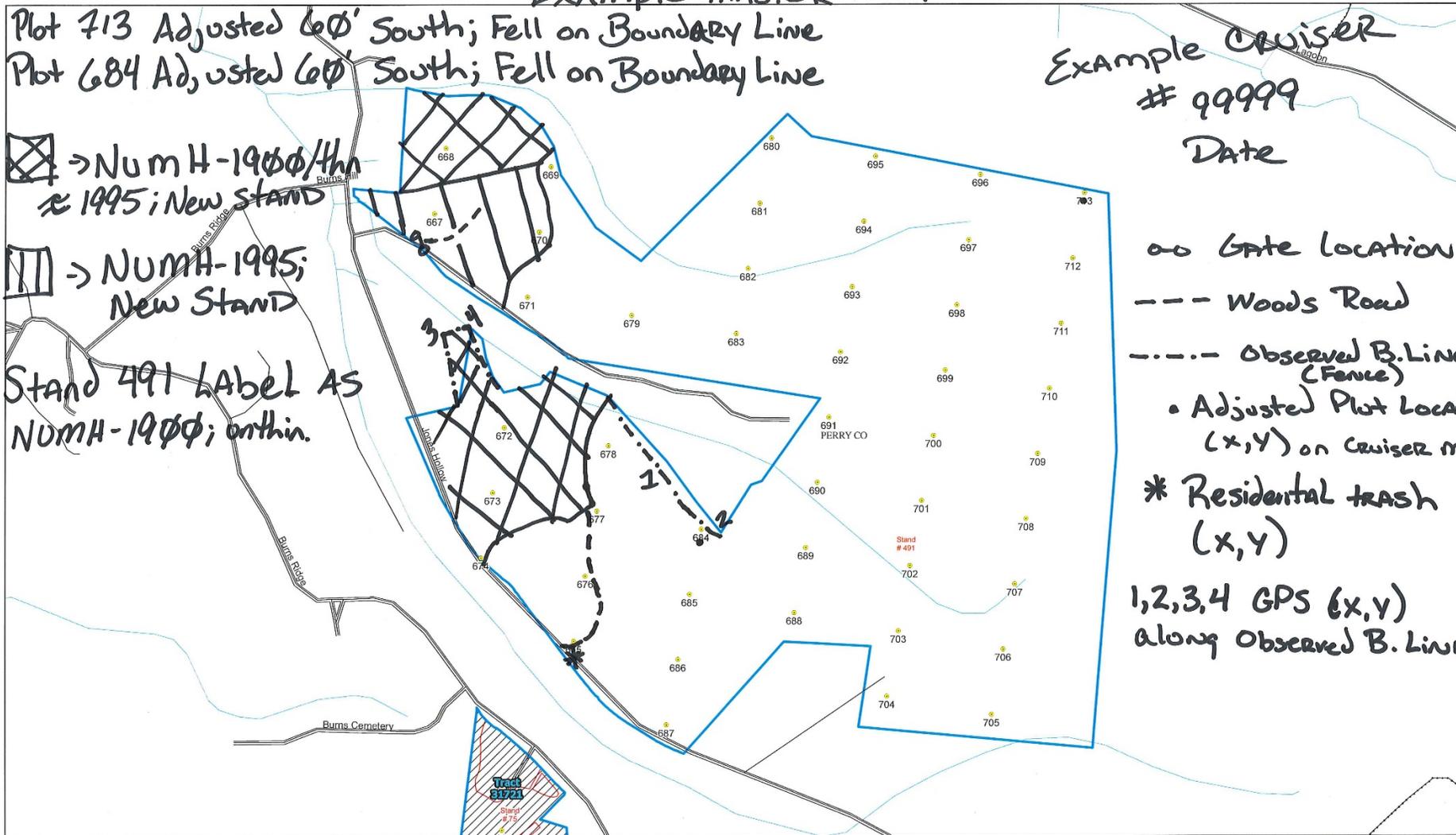
☒ → Num H-1900/Thin
 ≈ 1995; New Stand

☐ → NUMH-1995;
 New Stand

Stand 491 Label AS
 NUMH-1900; on thin.

Example CRUISER
 # 99999
 DATE

- oo Gate Location
- Woods Road
- Observed B. Line (Fence)
- Adjusted Plot Location (x,y) on Cruiser map
- * Residential trash (x,y)
- 1,2,3,4 GPS (x,y) along Observed B. Line



N

- Plots
- ▭ Tract Boundary
- ▭ Stands

1 inch = 702 feet

Job # 46-390
 Tract # 31724

Maps Produced by F&W Forestry Services, Inc.



Appendix C – Locating DBH on Trees

Treat DBH as a point 4.5 feet from where the pith originates. If DBH can be measured at that point it should be taken as normal.

- Special DBH situations:
 - **Forked trees:** In order to qualify as a fork, the stem in question must be at least 1/3 the diameter of the main stem and must branch out from the main stem at an angle of 45 degrees or less. Forks originate at the point on the bole where the piths intersect. Forked trees are handled differently depending on whether the fork originates below 1.0 foot, between 1.0 and 4.5 feet, or above 4.5 feet.
 - **Trees forked below 1.0 foot.** Trees forked below 1.0 foot are treated as “distinctly separate trees” (Figure 1). Limiting distances are measured individually to the center of each stem where it splits from the stump (figure 2 A-C). DBH is measured for each stem at 4.5 feet above the ground. When stems originate from pith intersections below 1 foot, it is possible for some stems to be within the limiting distance of the plot and others to be beyond the limiting distance. If stems originating from forks that occur below 1.0 foot fork again between 1.0 and 4.5 feet (Figure 4-E), the rules in the next paragraph apply.

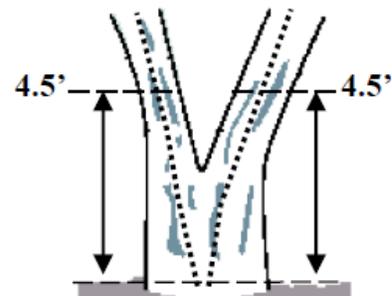


Figure 1

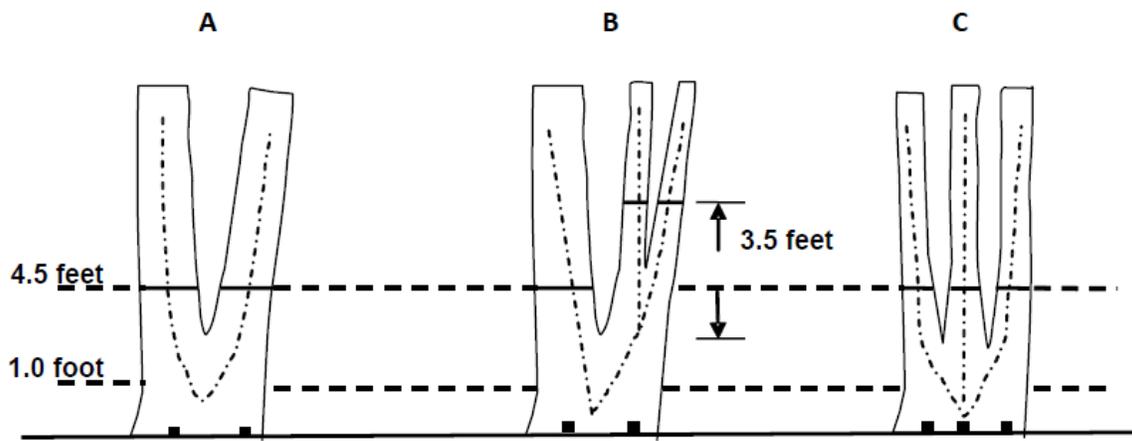


Figure 2 A-C



- **Trees forked between 1.0 foot and 4.5 feet.** Trees forked between 1.0 foot and 4.5 feet are also counted as separate trees (Figure 3), but only one limiting distance for each stem (Figure 4; D-F). Although a single azimuth and distance applies to all, multiple stems should be recorded as they occur in clockwise order (from front to back when one stem is directly in front of another). The DBH of each fork is measured at a point 3.5 feet above the pith intersection. When forks originate from pith intersections between 1.0 and 4.5 feet, the limiting distance is the same for all forks--they are either all on, or all off the plot.

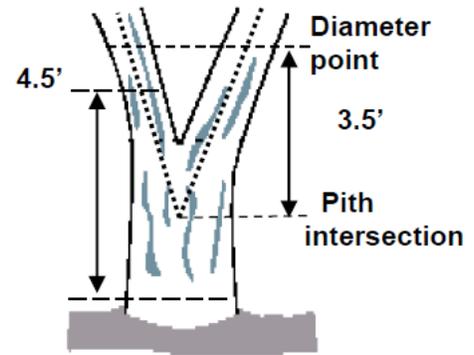


Figure 3

- Multiple forks are possible if they all originate from approximately the same point on the main stem. In such cases, measure DBH on all stems at 3.5 feet above the common pith intersection (Figure 4-G).
- Once a stem is tallied as a fork that originated from a pith intersection between 1.0 and 4.5 feet, do not recognize any additional forks that may occur on that stem. Measure the diameter of such stems just below the base of stem separation as shown in figures 4-E and 4-F (i.e., do not move the point of diameter the entire 3.5 feet above the first fork). Once a stem is tallied as a fork that originated from a pith intersection between 1.0 and 4.5 feet, do not recognize any additional forks that may occur on that stem. Measure the diameter of such stems just below the base of stem separation as shown in figures 4-E and 4-F (i.e., do not move the point of diameter the entire 3.5 feet above the first fork).

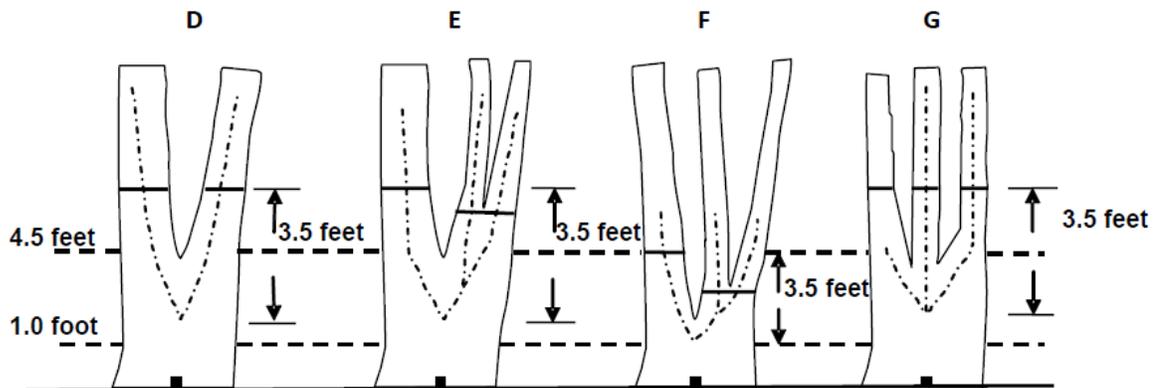


Figure 4 D-G



- Trees forked at or above 4.5 feet. Trees forked at or above 4.5 feet count as one single tree (Figure 5). If a fork occurs at or immediately above 4.5 feet, measure diameter below the fork just beneath any swelling that would inflate DBH.

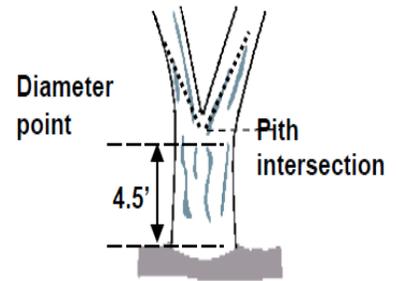
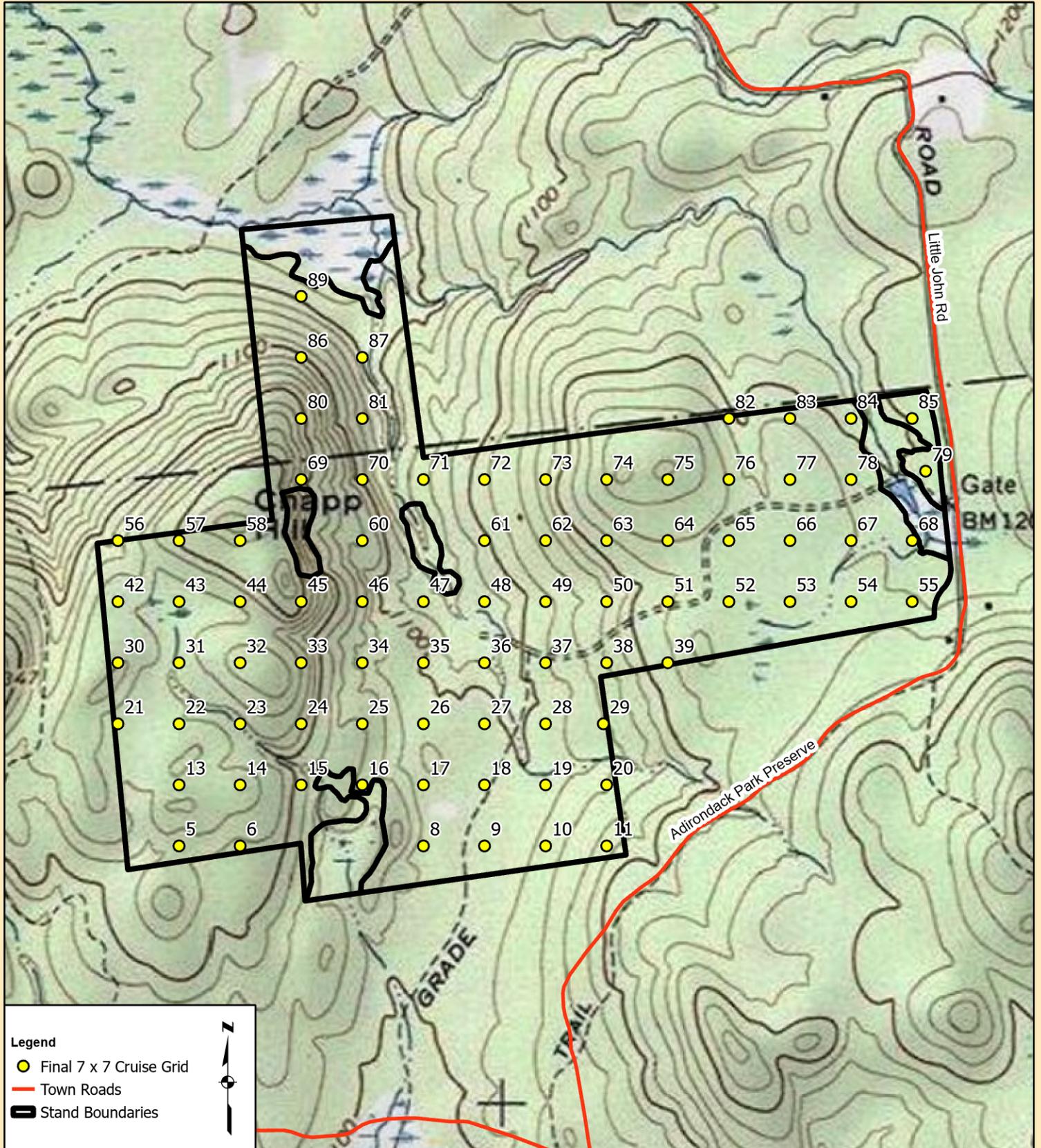


Figure 5

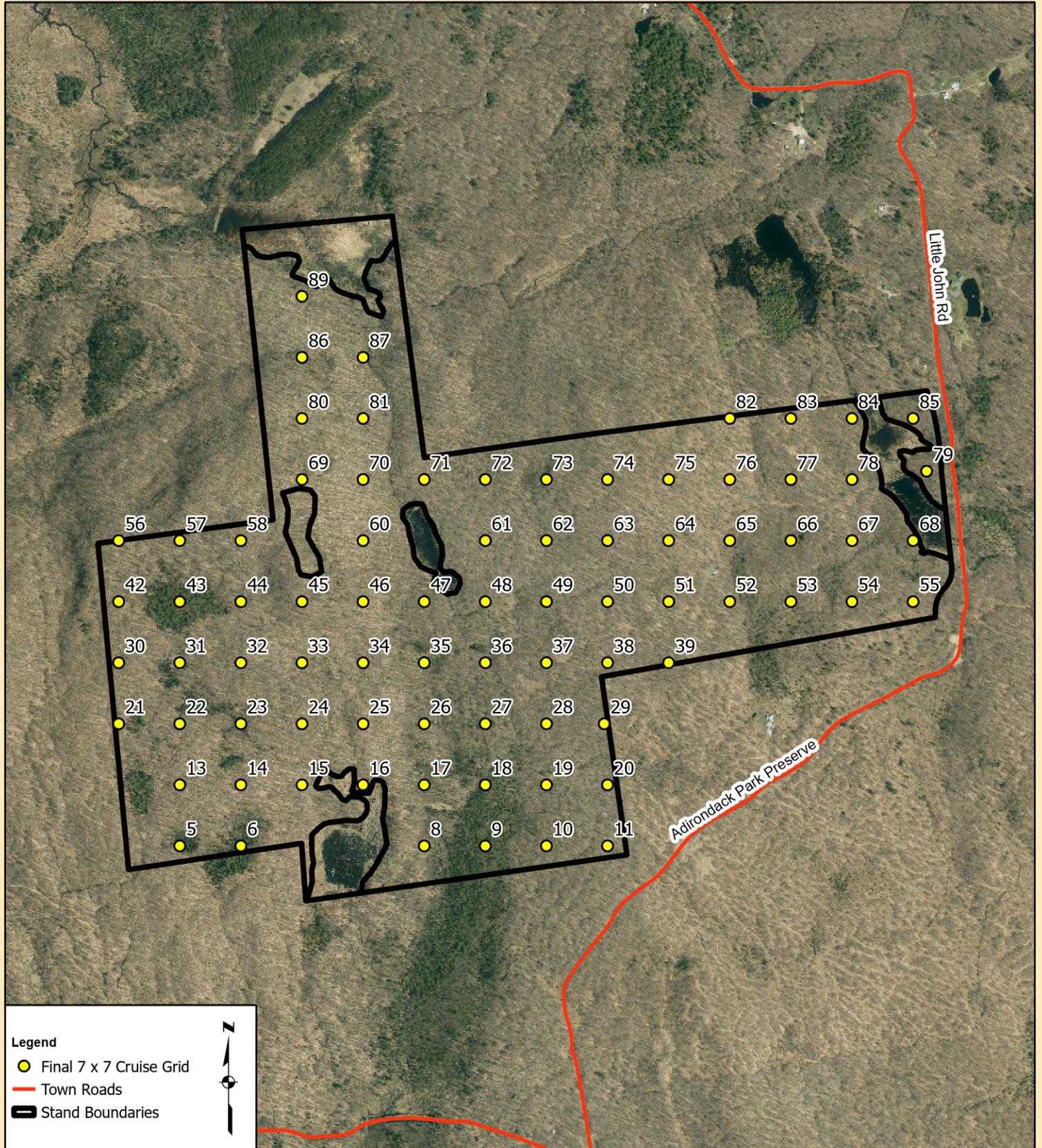


2022 Final Cruise Map Chapp Hill Forest Colton, St. Lawrence County, NY Owned by: Gloria Story 379.2 Forested GIS Acres





2022 Final Cruise Map Chapp Hill Forest Colton, St. Lawrence County, NY Owned by: Gloria Story 379.2 Forested GIS Acres



- Legend**
- Final 7 x 7 Cruise Grid
 - Town Roads
 - Stand Boundaries



Tract Level Summary (Total Values)

TKCHAPPHILL

Area: 379 acres

Plots: 79

All Trees

Species	All TPA		All BA		AGS TPA	AGS BA	Pre-Commercial BA	Sawlogs BF Inter	Pallet BF Inter	Pulpwood CO MC_CO	Cull CO MC_CO	Total (BF)	Total (CO)
Red Maple	42.1	22%	30.3	31%	18.6	12.7		268,490	169,311	2,280	96	437,801	2,375
Sugar Maple	42.0	22%	23.4	24%	10.7	8.7	0	195,987	212,952	1,522	74	408,939	1,596
Beech	48.1	25%	15.8	16%	0.0	0.0	0		53,543	831	38	53,543	869
Yellow Birch	25.0	13%	10.9	11%	13.3	4.7	0	20,935	24,053	690	6	44,988	696
Black Cherry	13.6	7%	9.0	9%	8.7	6.7	0	168,346	24,037	644	23	192,383	668
Spruce	8.7	5%	3.3	3%	8.7	3.3		114,612		65		114,612	65
White Ash	6.5	3%	3.3	3%	3.7	1.9	0	56,928	10,572	220	5	67,501	225
Hemlock	2.6	1%	0.9	1%	0.0	0.0	0			55		0	55
NC Hdws	3.5	2%	0.8	1%	0.0	0.0	0			6	13	0	19
Aspen	0.4	0%	0.5	1%	0.3	0.4		19,152		36		19,152	36
Cedar	0.2	0%	0.4	0%	0.0	0.0				27		0	27
Black ash	1.0	1%	0.3	0%	0.0	0.0	0			7		0	7
Basswood	0.1	0%	0.1	0%	0.0	0.0				16		0	16
Balsam Fir	0.2	0%	0.1	0%	0.2	0.1		5,816		1		5,816	1
Total	193.9	100%	99.0	100%	64	38.5	0	850,267	494,468	6,400	255	1,344,734	6,655

Method Name: Area 50 10 BAF

Tract Summary (per Acre Values)

TKCHAPPHILL

Area: 379 acres

Plots: 79

All Trees

Species	All TPA	All BA	AGS TPA	AGS BA	Pre-Commer- cial BA	Sawlogs BF Inter	Pallet BF Inter	Pulpwoo d CO MC_CO	Cull CO MC_CO	Total (BF)	Total (CO)		
Red Maple	42.1	22%	30.3	31%	18.6	12.7		708.4	446.7	6.0	0.3	1155.1	6.3
Sugar Maple	42.0	22%	23.4	24%	10.7	8.7	0.0	517.1	561.9	4.0	0.2	1079.0	4.2
Beech	48.1	25%	15.8	16%	0.0	0.0	0.0		141.3	2.2	0.1	141.3	2.3
Yellow Birch	25.0	13%	10.9	11%	13.3	4.7	0.0	55.2	63.5	1.8	0.0	118.7	1.8
Black Cherry	13.6	7%	9.0	9%	8.7	6.7	0.0	444.2	63.4	1.7	0.1	507.6	1.8
Spruce	8.7	5%	3.3	3%	8.7	3.3		302.4		0.2		302.4	0.2
White Ash	6.5	3%	3.3	3%	3.7	1.9	0.0	150.2	27.9	0.6	0.0	178.1	0.6
Hemlock	2.6	1%	0.9	1%	0.0	0.0	0.0			0.1		0.0	0.1
NC Hdwds	3.5	2%	0.8	1%	0.0	0.0	0.0			0.0	0.0	0.0	0.0
Aspen	0.4	0%	0.5	1%	0.3	0.4		50.5		0.1		50.5	0.1
Cedar	0.2	0%	0.4	0%	0.0	0.0				0.1		0.0	0.1
Black ash	1.0	1%	0.3	0%	0.0	0.0	0.0			0.0		0.0	0.0
Basswood	0.1	0%	0.1	0%	0.0	0.0				0.0		0.0	0.0
Balsam Fir	0.2	0%	0.1	0%	0.2	0.1		15.3		0.0		15.3	0.0
Total	193.9	100%	99.0	100%	64	38.5	0.0	2243.4	1304.7	16.9	0.7	3548.1	17.6

Stand Sawlog and Pulp Volume by Units and Diameter (per Acre Values)

TKCHAPPHILL

Stand ID: 1

Stand#: 1

Area: 379 acres Quadratic Mean Diameter: 9.7 Inches TPA: 194
 # Plots: 79 Average Diameter: 9 Inches BA: 99 Sqr FT
 All Trees

Volume Units BF

	<= 7"	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28+	Total
Aspen							9.2					41.3											50.5
Balsam Fir					15.3																		15.3
Beech					53.7	31.9	25.8	29.8															141.3
Black Cherry		13.1			16.7	64.9	39.4	13.5	50.2	73.8	97.0	40.4	28.5	21.5		13.9	22.2		12.5				507.6
Red Maple		4.7			61.0	111.4	227.9	170.5	132.1	80.4	139.7	54.3	56.9	43.6	58.1			14.5					1155.1
Spruce		28.6	45.8		58.3		44.1	75.0			24.4				26.1								302.4
Sugar Maple					59.8	75.6	124.9	203.3	170.4	146.7	60.3	62.3	73.1	23.2		54.5	10.4		14.5				1079.0
White Ash					19.9			19.4	12.4	22.5	17.6	35.0	14.3						26.2	10.8			178.1
Yellow Birch					10.7	9.0		14.8	31.8	19.2	13.2			9.9	10.1								118.7
Total		46.4	45.8		295.6	292.9	471.4	526.3	396.9	342.5	352.2	233.2	172.7	98.2	94.3	68.4	32.7	14.5	53.2	10.8			3548.1

Volume Units CO

	<= 7"	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28+	Total
Aspen							0.0					0.1											0.1
Balsam Fir					0.0																		0.0
Basswood													0.0										0.0
Beech	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.1	0.1										0.1	2.3
Black ash											0.0												0.0
Black Cherry	0.1	0.1	0.3	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1		0.1	0.0	0.0	0.0			0.0	1.8
Cedar							0.0					0.0										0.0	0.1
Hemlock	0.0	0.0	0.0	0.0							0.1												0.1
NC Hdws	0.0	0.0				0.0																	0.0
Red Maple	0.3	0.3	0.5	0.4	0.6	0.7	0.7	0.6	0.5	0.3	0.2	0.3	0.3	0.1	0.1		0.0	0.0	0.0			0.0	6.3
Spruce	0.1	0.0	0.0		0.0		0.0	0.0															0.2
Sugar Maple	0.4	0.3	0.3	0.4	0.7	0.2	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.1	0.0		0.0			0.0	4.2
White Ash	0.1	0.0	0.1	0.1	0.0			0.1	0.0	0.1	0.0	0.0	0.0						0.0	0.0			0.6
Yellow Birch	0.3	0.2	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0								1.8
Total	1.8	1.5	1.9	1.4	1.9	1.4	1.3	1.3	1.0	0.8	0.7	0.8	0.5	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.2	17.6



Stand Number of Trees by 1" Classes (per Acre Values)

TKCHAPPHILL

Stand ID: 1

Stand#: 1

Area: 379 acres Quadratic Mean Diameter: 9.7 Inches

Plots: 79 Average Diameter: 9 Inches

All Trees

	<= 7"	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28+	Total TPA	
Red Maple	7.8	4.0	4.9	3.2	4.4	4.4	4.4	2.8	2.2	1.1	1.0	0.6	0.6	0.3	0.3		0.0	0.0	0.0			0.0	42.1	
Sugar Maple	16.5	4.0	3.4	3.0	4.6	1.6	2.1	2.2	1.7	1.1	0.6	0.4	0.3	0.1	0.1	0.1	0.0		0.0				0.0	42.0
Beech	29.2	6.9	4.3	2.8	1.9	1.5	0.5	0.5	0.1	0.1	0.2	0.1											0.0	48.1
Yellow Birch	11.1	4.4	3.4	1.4	1.5	0.6	0.5	0.6	0.5	0.3	0.2	0.2	0.1	0.1	0.1									25.0
Black Cherry	3.6	1.8	2.3	0.7	1.0	1.0	0.5	0.4	0.3	0.6	0.6	0.3	0.1	0.1		0.1	0.0	0.0	0.0			0.0	13.6	
White Ash	3.3	0.4	0.9	0.5	0.4			0.4	0.1	0.3	0.1	0.1	0.1					0.0	0.0				6.5	
Spruce	4.7	1.1	1.1		0.8		0.4	0.5			0.1				0.1									8.7
Hemlock	1.6	0.4	0.3	0.2							0.2													2.6
NC Hdwds	3.0	0.4				0.2																		3.5
Aspen							0.1					0.2												0.4
Cedar							0.1					0.1										0.0		0.2
Black ash	0.9										0.1													1.0
Basswood													0.1											0.1
Balsam Fir					0.2																			0.2
Total	81.8	23.2	20.6	11.8	14.8	9.2	8.8	7.3	4.8	3.4	2.8	2.1	1.4	0.6	0.4	0.3	0.1	0.1	0.1	0.0		0.1	193.9	

Tract: Volume1 Statistics, Per Acre

TKCHAPPHILL LL

By Product and Species

8/29/22

Total Sampled Area (acres): 379.0

#Points: 79

Product Group

Product Species	Lower Limit	Mean	Upper Limit	Standard Error	CI %error	C.V.
--------------------	----------------	------	----------------	-------------------	--------------	------

All Log Products Combined -- 95% CI

Sawlogs

----- Board Feet -----

Yellow Birch	9.24	55.24	101.23	23.10	83.3	371.7
White Ash	35.18	150.21	265.23	57.76	76.6	341.8
Aspen	-20.19	50.53	121.25	35.51	139.9	624.6
Black Cherry	224.29	444.19	664.08	110.42	49.5	221.0
Spruce	11.74	302.41	593.08	145.97	96.1	429.0
Balsam Fir	-15.21	15.34	45.90	15.34	199.1	888.8
Sugar Maple	291.97	517.12	742.26	113.06	43.5	194.3
Red Maple	473.55	708.42	943.29	117.94	33.2	148.0

Pallet

----- Board Feet -----

Yellow Birch	15.31	63.46	111.62	24.18	75.9	338.7
Beech	48.29	141.27	234.26	46.69	65.8	293.8
White Ash	-13.37	27.90	69.16	20.72	147.9	660.2
Black Cherry	13.30	63.42	113.55	25.17	79.0	352.8
Sugar Maple	355.04	561.88	768.71	103.87	36.8	164.3
Red Maple	283.50	446.73	609.96	81.97	36.5	163.1

Overall	3,048.88	3,548.11	4,047.35	250.70	14.1	62.8
----------------	----------	----------	----------	--------	------	------

All Cord Products Combined -- 95% CI

Pulpwood

----- Cords -----

Yellow Birch	1.09	1.82	2.55	0.37	40.0	178.5
Beech	1.47	2.19	2.91	0.36	32.9	146.7
NC Hdws	-0.02	0.02	0.05	0.02	199.1	888.8
White Ash	0.29	0.58	0.87	0.15	50.4	225.1
Aspen	-0.09	0.09	0.28	0.09	192.2	857.9
Black Cherry	0.77	1.70	2.63	0.47	55.0	245.4
Basswood	-0.04	0.04	0.12	0.04	199.1	888.8
Black ash	-0.02	0.02	0.05	0.02	199.1	888.8
Spruce	-0.04	0.17	0.38	0.10	121.9	544.0
Balsam Fir	0.00	0.00	0.01	0.00	199.1	888.8
Hemlock	-0.03	0.14	0.32	0.09	122.4	546.5
Cedar	-0.07	0.07	0.22	0.07	199.1	888.8
Sugar Maple	2.72	4.02	5.31	0.65	32.3	144.0
Red Maple	4.76	6.02	7.27	0.63	20.9	93.1

Overall	15.38	16.89	18.39	0.76	8.9	39.8
----------------	-------	-------	-------	------	-----	------

Total Sampled Area (acres): 379.0

#Points: 79

Product Group

Product Species	Lower Limit	Mean	Upper Limit	Standard Error	CI %error	C.V.
--------------------	----------------	------	----------------	-------------------	--------------	------

Cull -- 95% CI

Cull	----- Cords -----					
Yellow Birch	-0.02	0.02	0.05	0.02	199.1	888.8
Beech	-0.01	0.10	0.21	0.05	107.2	478.6
NC Hdws	-0.03	0.03	0.10	0.03	199.1	888.8
White Ash	0.00	0.01	0.03	0.01	120.4	537.4
Black Cherry	-0.01	0.06	0.13	0.03	113.0	504.3
Sugar Maple	0.07	0.20	0.32	0.06	66.1	295.1
Red Maple	0.13	0.25	0.38	0.06	49.3	220.0
Overall	0.45	0.67	0.90	0.11	33.1	147.8

All Product Groups

3,565.7