

PENNSYLVANIA GAME COMMISSION
2001 ELMERTON AVENUE
HARRISBURG, PA 17110-9797
ATTN: FORESTRY DIVISION, BUREAU OF WILDLIFE HABITAT MANAGEMENT

Gentlemen:

In answer to a recent advertisement for lump sum bids on an estimated 394,432 board feet of sawlogs and 8,096 tons of pulpwood located on 201 acres of State Game Lands No. 312, Clifton, Covington, Sterling, Lehigh Townships, Lackawanna, Wayne Counties, I offer the following:

\$ _____
(BID QUOTATION MUST BE TYPEWRITTEN OR IN INK)

Full payment will be made when agreements are signed or payment in full for each individual cutting block before cutting operations are started on that block.

It is further understood that an acceptable bond of **\$15,000.00** will be provided to guarantee faithful performance of the agreement.

Removal of timber to be subject to the terms, conditions and stipulations included in the Timber Sale Agreement. It is understood that the contract will run until **JUNE 30, 2019.**

ATTACHED IS **CERTIFIED, CASHIER'S OR TREASURER'S CHECK OR MONEY ORDER, (PERSONAL, COMPANY, CORPORATE CHECK OR CASH ARE NOT ACCEPTED)**, IN THE AMOUNT OF **\$1,000.00** as evidence of good faith in bidding. I understand that it will be forfeited as fully liquidated damages upon my failure within 45 days after presentation to accept and execute the contract and provide a bond as required.

IN CASE OF PARTNERSHIP, EACH PARTNER SIGNS: IF A CORPORATION, THE AUTHORIZED OFFICER MUST SIGN, GIVING HIS/HER TITLE AND NAME OF CORPORATION.

Sincerely yours,

(Tax No. or Social Security No.)

Signature of Bidder - Sign In Ink

(Telephone Number)

Print Name

Firm Name

Street Address (Name, Number, Etc.)

City State Zip

BIDS MUST BE SUBMITTED IN AN ENVELOPE THAT CLEARLY STATES ON THE OUTSIDE: **BID PROPOSAL FOR TIMBER SGL #312.** Bids will be opened in the Bureau of Wildlife Habitat Management, 2001 Elmerton Avenue, Harrisburg, PA 17110-9797, at **2:00 P.M., Monday, JUNE 27, 2016.** The Commission reserves the right to reject any and all bids and to award the contract as deemed to its best interests.

- INSTRUCTIONS TO BIDDERS -

The following information covers details concerning the proposed lump sum sale of an estimated 394,432 board feet of sawlogs and 8,096 tons of pulpwood to be cut from 201 acres of State Game Lands No. 312, Clifton, Covington, Sterling, Lehigh Townships, Lackawanna, and Wayne Counties.

See attached sheets for additional volume information. The volume and percentages are not guaranteed and each prospective bidder is urged to examine the sale area and bid on the basis of his own estimate.

- SHOW DATE -

Timber will be shown to prospective bidders on **JUNE 10, 2016**. Viewers will be met at **the PGC parking area along Lehigh Road (SR 2011)--coordinates: N 41.268 W -75.452** at 10:00 a.m., and conducted to the sale area.

The timber to be sold will be clearly designated by **WARREN E. HARRIS, 3917 MEMORIAL HIGHWAY , DALLAS, PA 18612**, telephone: **1-570-675-1143** the Regional Forester.

- BIDS -

BIDS SHOULD BE MAILED AT LEAST FOUR (4) WORKING DAYS PRIOR TO BID OPENING TO PERMIT U.S. POSTAL SERVICE DELIVERY. USE SPECIAL MAIL SERVICE IF MAILED LATER THAN FOUR DAYS PRIOR TO BID OPENING. SPECIAL DELIVERY BIDS SHOULD BE ADDRESSED TO: PENNSYLVANIA GAME COMMISSION, FORESTRY DIVISION, 2001 ELMERTON AVENUE, HARRISBURG, PA 17110-9797.

Bids must be submitted in an envelope that clearly states on the outside: **BID PROPOSAL FOR TIMBER. SGL #312**. Bids received in envelopes not containing this information will be rejected.

In order to be considered, the bid shall be accompanied by a **CERTIFIED, CASHIER'S OR TREASURER'S CHECK, OR A BANK, POSTAL OR EXPRESS MONEY ORDER**, payable to the Pennsylvania Game Commission in the amount of **\$1,000.00**, as evidence of good faith in bidding, to be forfeited as fully liquidated damages upon the bidders failure to accept the award, execute the contract and give bond as required. Bid deposits will be returned to the unsuccessful bidder when the contract has been executed and a satisfactory performance deposit has been furnished.

In lieu of bid deposit, bidders may submit an open bid bond to cover the deposit requirement. Any bid bond must be filed for an annual period and both the amount of bond and the surety shall receive prior approval of the Pennsylvania Game Commission.

The Commission reserves the right to reject any and all bids and to award the contract as deemed to its best interests.

Bids will be opened in the Bureau of Wildlife Habitat Management, 2001 Elmerton Avenue, Harrisburg, Pennsylvania 17110-9797, at 2:00 P.M., **Monday, JUNE 27, 2016**, telephone: 717/787-2039. **BIDS RECEIVED LATER THAN 2:00 P.M., THIS DATE, WILL BE REJECTED.**

- PERFORMANCE DEPOSIT -

A performance bond in the amount of **\$15,000.00** will be required in the form of a Certified Check or a Postal Money Order drawn to the order of the Pennsylvania Game Commission. Negotiable securities, including assignment of a bank savings account may be furnished in lieu of above. A bond with corporate surety approved by the Attorney General, or a bank Irrevocable Letter of Credit, may be posted provided the bond has an expiration date a minimum of 1 year beyond the expiration date of the timber contract.

- EXPIRATION OF CONTRACT -

Contract will expire **JUNE 30, 2019**

- PAYMENTS -

The sale is divided into 11 cutting blocks. Payment may be made by:

1. Total payment when agreement is signed.
- or
2. Payment by individual block or blocks.

- 1 – 6% - 5 acres
- 2 – 45% - 29 acres
- 3 – 1% - 15 acres
- 4 – 10% - 14 acres
- 5 – 12% - 16 acres
- 6 – 4% - 30 acres
- 7 – 1% - 2 acres
- 8 – 1% - 1 acres
- 9 – 8% - 28 acres
- 10 – 8% - 47 acres
- 11 – 4% - 14 acres

- ANTI DISCRIMINATION -

The contractor awarded the Timber Sale Agreement agrees he will not discriminate against any employee or other persons on account of race, sex, creed, age, ancestry or national origin.

- SAFETY and ENVIRONMENTAL PROTECTION –

The Buyer, his employees and sub-contractors are expected to perform all logging operations in a safe manner as required by applicable laws and regulations. The Commission expects the Buyer to ensure that logging crewmembers dress in protective attire, and perform their duties with equipment in accordance with standards established by the logging industry and the Occupational Safety and Health Administration (OSHA).

The PGC recommends that logging crews working on State Game Lands be trained in safe logging techniques and sound environmental logging practices through a formal training program such as the one provided by the Pennsylvania Sustainable Forestry Initiative (PA SFI) or another similar program.

Contractor must comply with the erosion and sediment control plan for disturbed areas that is included as a part of the timber contract.

- SPECIAL PROVISIONS -

See 11 Attached Sheet(s).

SPECIAL PROVISIONS FOR THE “THIRD EARTH” TIMBER SALE

S.G.L. # 312

1) ADMINISTRATIVE ITEMS

- a) All sale activity, (felling, skidding, & trucking), is restricted to the defined sale area.
- b) Except for seasonally opened gates, PGC gates are to be kept closed and locked at all times except when the contractor is present on the site. Repeated failure to close gates will be penalized.
- c) PNDI restrictions apply within the project areas located southeast of the waterway labeled “West Fork” (as shown on the attached map titled *Third Earth Timber Sale 312-15-01*). No activities shall occur within these areas from, April 15 through August 31 to avoid potential impacts.
- d) Many soils within the cutting area are classified as seasonably wet. If site conditions in the timber sale (for felling, skidding, or trucking) or the use of the haul road become wet and/or muddy in the opinion of the Regional Forester or his designee, all phases of the job will be suspended until working conditions are judged favorable.
- e) Preliminary road work and site preparations specified in paragraph (4b) below must be completed to the satisfaction of the Regional Forester or his designee before harvesting in any other block may begin.
- f) Buyer is not guaranteed exclusive use of the haul roads for this timber sale. Hauling restrictions may be implemented at the discretion of the Regional Forester or his designee to avoid excessive damage to haul roads under joint use.
- g) All tops must be pulled back 25 feet from the State Game Land boundary, (blazed & painted white), all roads, parking lots, herbaceous openings and utility Right of Ways. Tops, branches and slash will be removed from all ponds, lakes and streams.
- h) Whole tree chipping of all trees is permitted as specified in paragraph (2).
- i) No on-site sales of firewood to the general public is allowed.

2) BOUNDARIES, BLOCKS, AND CUTTING INSTRUCTIONS

- a) Timber sale boundaries are marked with 2 blue paint slashes and block boundaries are designated with 1 blue paint slash.
- b) Game Land boundary, roads, herbaceous openings, buffered areas and spring runs are to be kept free of tops.
- c) No cutting or skidding is permitted in the reserve areas.
- d) Whole tree chipping of all trees is permitted on this sale area.
 - 1. Landings must be cleared of all bark and debris.
- e) Block 1 encompasses all roads & landings.
 - 1. All stems in the road right of ways and landing areas may be whole tree chipped in their entirety.

2. Boundaries for new haul roads and landings are marked in orange paint. All trees inside orange boundaries are to be cut and stumps will be removed.
 - i. The trees marked with orange paint will not be felled until stump clearing has been approved and do not require stump removal.
- f) Block 2
 1. Block 2 consists of log piles located at the edge of the ROW. Timber will be removed through the adjacent block. No skidding is allowed within the ROW.
 2. The number of stems and volumes were derived from 100% tally of stems 6" DBH and greater. The volume estimate provided was derived from standing trees in a PP&L right-of-way. The trees were later cut and piled along the access road. **Many trees may not have been skidded to the log piles and were cut for the purpose of ROW clearing, not logging; therefore, the actual volume and number of trees in the log pile will vary considerably from the volume estimates provided.**
- g) Blocks 3, 4, 5, 6, 7, 8, 9, 10, 11
 1. All trees 2" DBH and over, except for red and blue paint marked trees are to be cut.
- h) All stumps must be cut lower than 12" from the ground.
- i) Cull portions of the tree are to be left at the stump.
- j) Any reserved trees that are felled for safety reasons must be left at the stump.
- k) Extra caution should be taken to avoid felling damage or skidding damage to reserved trees.

3) US / STATE / LOCAL ROADS

- a) State Roads
 1. The haul road entrance is on SR 2011 (Lehigh Road). This road is posted with a 10 ton weight restriction.
 2. A Minimum Use Driveway permit will be required and has been applied for but not received for SR 2011 (Lehigh Road) at time this contract is advertised.
 - i. The buyer is responsible for constructing the entry and all costs and additional materials required for construction.
 - ii. Geotextile Fabric (15' X 50' minimum) will be installed under the stone at the entry required for driveway permits.
 3. Visit <http://www.papostedroads.pa.gov/> for information on road bonds.

4) GAME LAND ROADS TO BUILD / IMPROVE

a) Bridge Construction Materials

1. Additional materials needed for Bridge Construction
 - i. The operator will supply the following materials required to construct a 20' bridge. All materials are required to be new. **These materials are in addition to stone listed in item # 4 f below.**
 - ii. 160 – 2" x 6" x 14'-0" pressure treated
 - iii. 7 – 2" x 12" x 8'-0" pressure treated
 - iv. 2 – 6" x 6" x 12'-0" pressure treated
 - v. 2 – 6" x 6" x 8' -0" pressure treated
 - vi. 40 tons of #2A coarse aggregate
 - vii. 100 tons of R4 Rip Rap
 - viii. 6 – 20FT W12x30 steel beams, (see attached drawings)
 - a. The beams are 50-ksi steel as noted on the two attached drawings.

2. Delivery date and location will be coordinated with the Regional Forester or his designee.
3. Bridge construction will occur **only during the months of June, July, August September and October.**
4. The rebar cages, anchor bolts, bearing pads, deck clips, carriage bolts will be supplied from the PGC bridge building inventory.

The bridge construction will be performed by PGC personnel and is not a part of the timber sale contract

b) Block 1

1. Block 1 encompasses all cutting, bulldozing, culvert installation, required stone placement, gate installation and driveway permit constructions associated with haul road, landing and skid road construction and improvements.
 - i. Block 1 improvements must be completed to the satisfaction of the Regional Forester or his designee before harvesting begins in any other block.
 - ii. Boundaries for new haul roads and landings are marked in orange paint. All trees inside orange boundaries are to be cut and stumps will be removed. .
 - iii. The trees marked with orange paint will not be felled until stump clearing has been approved and do not require stump removal.
2. Erosion and Sedimentation control structures will be in place and operable.
 - i. All Erosion and Sediment control structures will be in place and maintained throughout the duration of the contract.
3. The road contractor will notify the Regional Forester or his designee three days prior to road construction, landing construction, culvert installation, gate installation and final grading.

c) Road To Build

1. Locations of haul roads and skid roads to construct are designated on the sale maps.
 - i. A minimum of 6,003 feet of new haul road is designated for hauling.
 - ii. New road construction is required for access to all blocks.
2. Haul Roads
 - i. During times of wet site conditions no road construction will be permitted.
 - ii. The operator will build haul roads from SR 2011 (Lehigh Road) the existing road on the powerline ROW.
 - iii. The outer boundary of this new road is marked with orange paint. This new road will be crowned and must have a minimum 12-foot running surface and 3 feet on both sides for ditches (18 foot total). Ditches should be a minimum of 1 foot deep and sloped 1:3.

d) Road To Improve

1. Locations of roads to improve are identified on the sale maps.
 - i. A minimum of 9,425 feet of existing haul road is designated for hauling.
2. There are existing culverts along the hauling route. These culverts are to be maintained in good working condition throughout the hauling operation. Any damage incurred by hauling will be repaired by the contractor.

e) Culverts Information

1. No new culverts are required to be installed for this contract unless required by PA DOT as a condition of the Driveway Permit.

2. All culverts will have side ditches for drainage into the pipe and tail ditches to allow water to drain away from the road.

f) Required Stone

1. The operator must apply **20 tons of AASHTO 1 Stone, (2" to 4")**, **640 Tons of AASHTO 3 Stone (1 ½" to 2 ½")**,
2. **Stone required for bridge installation in section # 4 a is in addition to the stone listed in this section.**
3. The operator must use a bulldozer to shape and grade the roadway as the stone is applied.

g) Gate Installation

1. The operator will supply the material and construct and install 2 metal pole gate as directed by the Regional Forester or his designee.
 - a. One new gate will replace the existing gate off SR 2011 (Lehigh Road).
 - i. The existing gate will be removed by the contractor.
 - b. One new gate will be as directed by the Regional Forester.
2. All gates must be constructed with new materials.
3. All gates will include an additional lock post installed so they can be locked open.
4. All gate posts will be installed using Penn DOT Class A (3,000 psi) concrete (don't use dry mix).
5. The hinge-end gate post will be installed in a hole that is approximately 3-foot diameter by 4-feet deep.
6. Gate construction specifications are attached at the end of the special provisions.

h) Road Retirement

1. A road grader or a bulldozer with a six-way blade will be required for final grading. The operator will crown, ditch, and stone rake all required haul roads and all other roads that have been used to a minimum 12' running surface or to the roadway original width, whichever is wider. Ditches and other drainage structures must be opened and re-established where needed. The road must also be crowned to drain all water into the ditches and culverts. All piles of surface side cast shall be graded level by feathering it back into the road berms and/or road surface during final grading. Road berms will be graded to a mowable contour.

5) LANDINGS

- a) Main landings locations are designated on the sale map. Any additional landings need to be approved by the Regional Forester or his designee.
- b) Boundaries for new landings are marked with orange paint. All trees inside orange boundaries are to be cut and stumps will be removed. .
 1. The trees marked with orange paint will not be felled until stump clearing has been approved and do not require stump removal.
- c) Parking lots and herbaceous openings cannot be used for log landings.
- d) Block 3 has an existing landing area, (approximately .5 acre).
- e) Six new landing locations are designated for construction on the sale map.

1. All trees inside orange marked boundary are to be cut and will be removed.
 2. Block 1 & 11, 7, 8, – ¼ acre new landing areas
 3. Block 5 & 6, 9, 10 – ½ acre new landing areas
- f) One undesignated landing will need to be constructed
1. The landing area in block 4 will be located inside the cutting area at the discretion of the operator and will need to be approved by the Regional Forester or his designee.
- g) At the conclusion of the sale, all landings will be graded, leveled, cleared of debris, stone raked sufficiently for use as mowed fields, and seeded according to specifications outlined in Section 7 below.
- h) Stumps, stones, wood chips and other debris on the edges of the landing areas will be moved off the landing area and spread out into the surrounding woods.

6) **SKIDDING**

- a) Skid trails will be approved by the Regional Forester or his designee.
- b) No skidding is permitted within the PPL ROW.
- c) No skidding across small drainages will be permitted without the use of temporary bridges.
- d) No skidding or use of forwarders is permitted on the haul road without permission of the Regional Forester or his designee.
- a) Skidders are to be kept off of haul roads as much as possible. No skidding or use of forwarders is permitted on the haul road. Crossing of the haul road will be permitted only at designated locations.
- b) No cutting or skidding is permitted in the reserve islands.
- c) Wet areas should be avoided when skidding and any treetops which are felled into small wet areas should be left in the water rather than pulling them out.
- d) If skid trails are to sit idle for one month or more they are to have water bars added.
- e) Main skid trails are to be leveled, open and have water bars added at the conclusion of the harvesting.

7) **SEEDING OF ROADWAYS AND LANDINGS**

- a) At the conclusion of the sale, all haul roads (except for the existing stoned roads), and all landings used, and as well as all other disturbed areas along game land roads are to be leveled, cleared of rocks and debris and seeded according to the following:

120 lbs. per acre of Oats, (spring)

120 lbs. per acre of Wheat, (fall)

A minimum of 7 acres are to be seeded at the conclusion of the sale.

- b) Seeding will include ditch lines and all disturbed areas.
- c) Spring planting may be performed Until June 15th. The fall planting may be performed during the period from August 15th to September 15th.

1. If any seeding is performed outside of the seeding dates, a guaranteed catch of seeding must be obtained to the satisfaction of the Regional Forester or his designee.
- d) Straw mulch will be required at a rate of 2.5 tons per acre on the following areas:
 1. All haul road and skid road approaches to culverts crossing perennial streams will be seeded and mulched for a minimum of 50' on each approach to the stream.
 2. A minimum of .2 acres of mulch is required.
- e) Regional Forester or his designee is to be notified a minimum of three days prior to the application of lime, seed, fertilizer, and mulch.
- f) All bulldozed skid trails are to be seeded with wheat or oats depending on the time of seeding.
- g) Guaranteed catch of cover must be obtained to the satisfaction of the Regional Forester or his designee before the bond will be released.

8) OPERATIONS AND NON-WORK DAYS

- a) No woods operation will be permitted on the following days for the period of this contract:
 1. All Saturdays in the months of October, November, December, and January.
 2. The opening day and all Saturdays during spring turkey season, including the youth spring gobbler hunt.
 3. The four days of general statewide bear season.
 4. The entire 2 weeks of the general firearms deer season.
 5. The opening day of the flintlock muzzleloader season.
 6. No activities shall occur from April 15 through August 31 within the project areas located southeast of the waterway labeled "West Fork" (as shown on the attached map titled *Third Earth Timber Sale 312-15-01*).

No woods operation will be permitted from March 15 thru May 1, without the permission of the Regional Forester.

- b) The contractor, employees, and sub-contractors may not hunt to, from, or at the job site when the work location is beyond a gated road that is closed to public traffic. The contractor may travel to and from the work location on no-work days to check on the condition of equipment.
- c) **Except on Sundays, it is unlawful to be present on State Game Lands from November 15 through December 15 inclusive when not engaged in lawful hunting or trapping and fail to wear a minimum of 250 square inches of daylight fluorescent-orange material on the head, chest, and back combined, or in lieu thereof, a hat of the same colored material. The material shall be worn so it is visible in a 360-degree arc.**

9) SAFETY AND LOGGER TRAINING

The Buyer, his employees and sub-contractors are expected to perform all logging operations in a safe manner as required by applicable laws and regulations. The Commission expects the Buyer to ensure that logging crewmembers dress in protective attire, and perform their duties with equipment, in accordance with standards established by the logging industry and the Occupational Safety and Health Administration (OSHA).

The PGC recommends that logging crews working on State Game Lands be trained in safe logging techniques and sound environmental logging practices through a formal training program such as the one provided by the Pennsylvania Sustainable Forestry Initiative or another similar course.

10) PNDI RECOMMENDATIONS

- a) A PNDI review was performed on 10-08-15.
 - 1. PNDI restrictions apply within the project areas located southeast of the waterway labeled "West Fork" (as shown on the attached map titled *Third Earth Timber Sale 312-15-01*). No activities shall occur within these areas from, April 15 through August 31 to avoid potential impacts.

11) PPL ENCROACHMENT PERMIT

- a) A Right-of-Way encroachment permit is required and has been applied for but not received from PPL Electric Utilities Corporation at time this contract is advertised. The successful bidder is required to implement all requirements and comply with all provisions of the permit.

12) MISCELLANEOUS

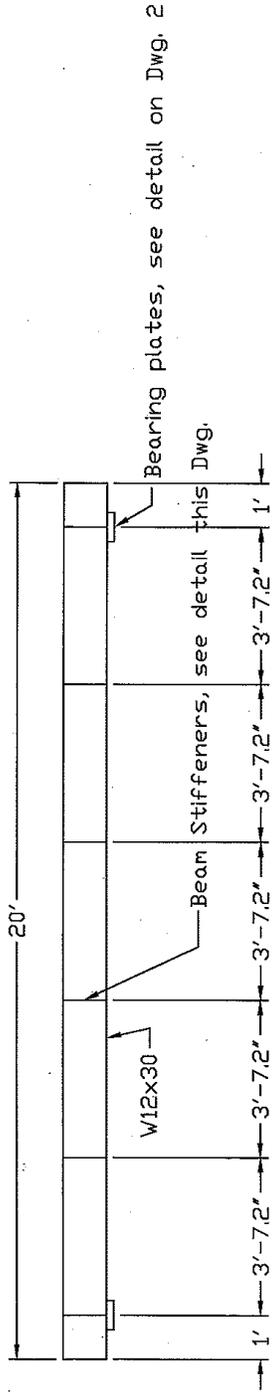
- a) Operator must comply with the erosion and sedimentation control plan for the area.
 - 1. A completed plan will be provided to the successful bidder.
- b) The contractor will provide weight slips for stone and receipts for all seed, lime, fertilizer, mulch, and bridge construction materials to the Regional Forester or his designee.
- c) Extra caution should be taken to avoid felling damage or skidding damage to reserved trees.
 - 1. Felling and skidding damage will be closely monitored and excessive damage will result in the payment of damages by the contractor.
- d) All existing trails and at least one main skid trail are to be kept open as hunter access in each block.
- e) Any culvert pipes that are damaged by the operator will be repaired or replaced by the operator at the operator's expense.
 - 1. The operator will remove and properly dispose of all culverts that are replaced.
- f) If possible, the operators will clean all equipment and vehicles thoroughly to remove invasive plant species from being transported from other sites.
- g) Contract Extension
 - 1. Payment in full of all blocks of the contract is required before any request for an extension can be made.
- h) Violation of contract provisions by the operator may subject the operator or its employees or contractors to fine based on Title 58 regulations.

13) PA RIGHT TO KNOW PROVISIONS

- a) The Pennsylvania Right-to-Know Law, 65 P.S. §§ 67.101-3104, applies to this contract.
- b) Unless the Contractor provides the Commonwealth, in writing, with the name and contact information of another person, the agency shall notify the Contractor using the Contractor information provided by the Contractor in SRM [or "the legal contact information provided in this contract"] if the agency needs the Contractor's assistance in any matter arising out of the Right to Know Law ("RTKL"). The Contractor shall notify the agency in writing of any change in the name or the contact information within a reasonable time prior to the change.
- c) Upon notification from the Commonwealth that the Commonwealth requires the Contractor's assistance in responding to a RTKL request for records in the Contractor's possession, the

Contractor shall provide the Commonwealth, within fourteen (14) calendar days after receipt of such notification, access to, and copies of, any document or information in the Contractor's possession which arises out of the contract that the Commonwealth requests ("Requested Information") and provided such other assistance as the Commonwealth may request in order to comply with the RTKL. If the Contractor fails to provide the Requested Information within fourteen (14) calendar days after receipt of such request, the Contractor shall indemnify and hold the Commonwealth harmless for any damages, penalties, detriment or harm that the Commonwealth may incur as a result of the Contractor's failure, including any statutory damages assessed against the Commonwealth.

- d) The Commonwealth's determination as to whether the Requested Information is a public record is dispositive of the question as between the parties. Contractor agrees not to challenge the Commonwealth's decision to deem the Requested Information a Public Record. If the Contractor considers the Requested Information to include a request for a Trade Secret or Confidential Proprietary Information, as those terms are defined by the RTKL, the Contractor will immediately notify the Commonwealth, and will provide a written statement signed by a representative of the Contractor explaining why the requested material is exempt from public disclosure under the RTKL within seven (7) calendar days of receiving the request. If, upon review of the Contractor's written statement, the Commonwealth still decides to provide the Requested Information, Contractor will not challenge or in any way hold the Commonwealth liable for such a decision.
- e) The Commonwealth will reimburse the Contractor for any costs associated with complying with this provision only to the extent allowed under the fee schedule established by the Office of Open Records or as otherwise provided by the RTKL if the fee schedule is inapplicable.
- f) Contractor agrees to abide by any decision to release a record to the public made by the Office of Open Records, or by the Pennsylvania Courts. The Contractor agrees to waive all rights or remedies that may be available to it as a result of the Commonwealth's disclosure of Requested Information pursuant to the RTKL. Contractor's duties relating to the RTKL are continuing duties that survive the expiration of this contract and shall continue as long as the Contractor has Requested Information in its possession.



Bearing plates, see detail on Dwg. 2

BEAM ELEVATION

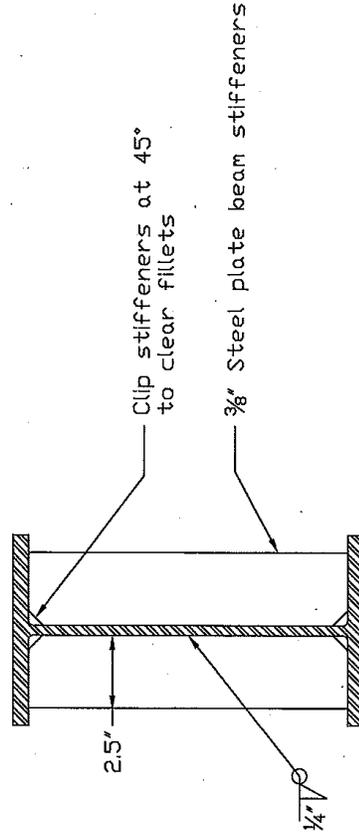
Scale: $\frac{3}{8}$ in = 1 ft.
 Note: Dimensions are to center of features

NOTES

1. Beams, stiffeners, and bearing plates are ASTM A588 (50 ksi) steel conforming to PennDOT Pub. 408 Section 1105.02 Materials.
2. Fabrication of structural steel shall conform to Section 1105.03 of PennDOT Pub. 408.

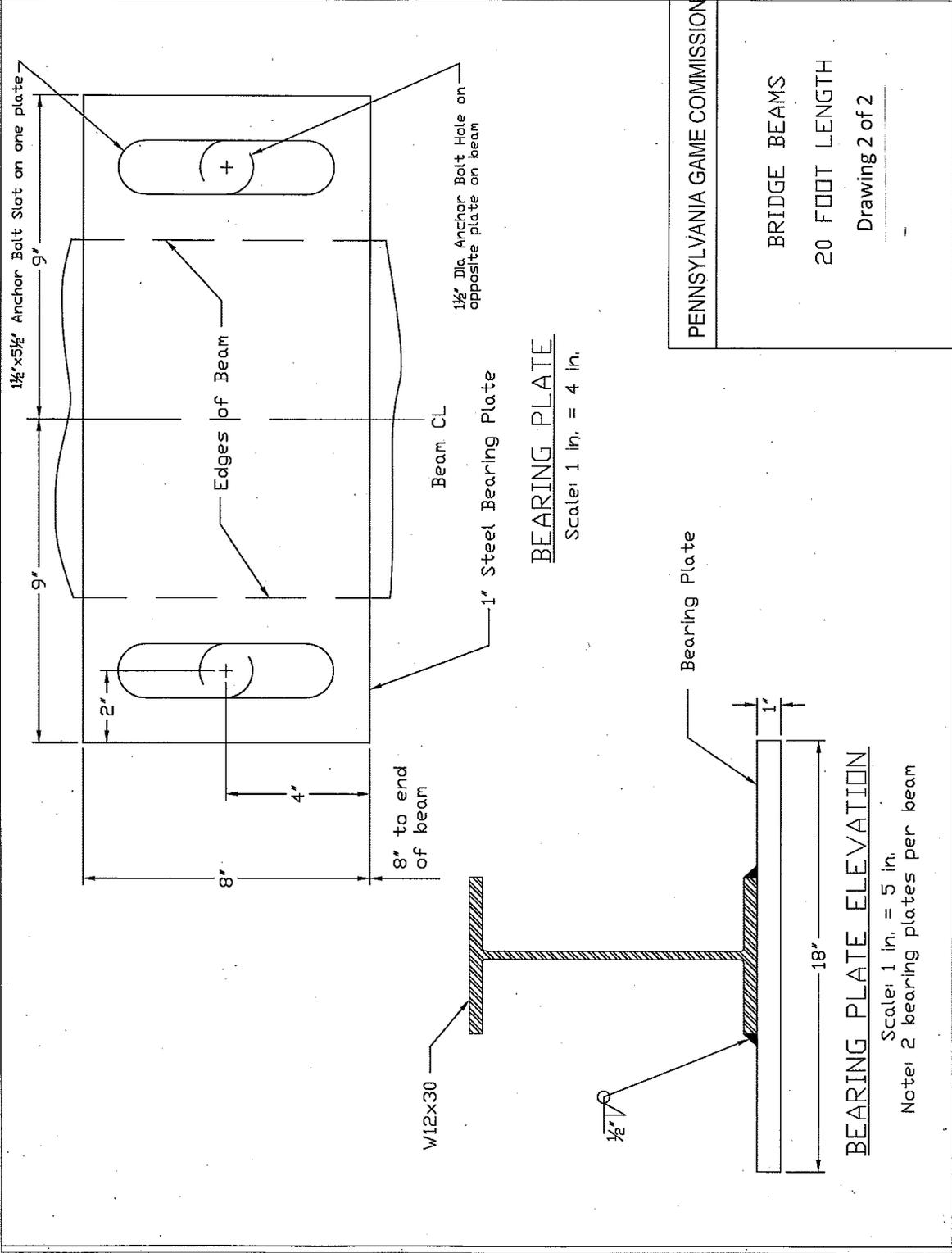
PENNSYLVANIA GAME COMMISSION

BRIDGE BEAMS
 20 FOOT LENGTH
 Drawing 1 of 2



BEAM STIFFENERS

Scale: 1 in. = 5 in.
 Note: 6 pairs of stiffeners required per beam



PENNSYLVANIA GAME COMMISSION

BRIDGE BEAMS
20 FOOT LENGTH
Drawing 2 of 2

PA GAME COMMISSION TIMBER SALE BLOCK SUMMARY

SALE NAME Third Earth
 BLOCK NO. 1,2,3,4,5,6,7,8,9,10,11
 COUNTY Wayne
 TOWNSHIP Lehigh, Sterling

SGL NO. 312
 FORESTER ZWISMER
 DATE 11/2/2015
 ACRES 201

Species		AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD				Totals
Form Class		84	82	83	78	79	83	81	82	79				
Block No.	Acres	<i>Board Foot Volume - Girard & Mesavage Scribner Rule</i>												
1	5	1,038	872	3,669	1,900	713	8,430	2,477						19,099
2	29	12,065	3,717	22,640	9,939		91,863	36,265	1,050	509				178,048
3	15	583	206	1,152			1,187	1,606	1,028					5,762
4	14	1,044	478	4,425	157	1,173	22,919	10,358						40,554
5	16	2,655	671	4,246	256	515	27,547	10,532	717					47,139
6	30	5,357	2,679	129			7,782	699						16,646
7	2	194		1,100			3,579	267						5,140
8	1		142	797	323		349	1,430						3,041
9	28	504	368	2,963			21,404	7,084	210					32,533
10	47	723	1,319	1,628			22,450	4,991	126					31,237
11+	14	491	1034	5043			7622	1043						15,233
Totals	201	24,654	11,486	47,792	12,575	2,401	215,132	76,752	3,131	509				394,432
No. of Trees		219	121	314	73	18	1,533	832	33	4				3,147
AVG. Bd.ft./Tree		113	95	152	172	133	140	92	95	127				125
No. of Culls		32	3	1			11	2						49

<i>Pulpwood Volume</i>					
Block No.	Acres	Cords/ Acre	Tons/ Acre	Total Cords	Total Tons
1	5	27	61	133	307
2	29	20	46	580	1,335
3	15	15	34	223	512
4	14	16	36	222	511
5	16	15	34	235	540
6	30	12	28	369	849
7	2	10	22	20	45
8	1	9	22	9	22
9	28	20	47	567	1,303
10	47	18	42	859	1,976
11+	14	22	50	303	698
				3,520	8,096

Comments:

All volumes listed are estimates.

PA GAME COMMISSION TIMBER SALE SUMMARY

SALE NAME Third Earth
 BLOCK NUMBER(S) 1,2,3,4,5,6,7,8,9,10,11
 COUNTY Wayne
 TOWNSHIP Lehigh, Sterling

SGL NO. 312
 FORESTER ZWISMER
 DATE 11/2/2015
 ACRES 201

VOLUME TABLE - Girard & Mesavage Scribner Rule

All volumes listed are estimates

BOARD FOOT VOLUME

SPECIES	FORM CLASS	NO. OF TREES		BD.FT.VOL.	VOL.BD.FT. PER TREE	% BY VOLUME	VOLUME BY ACRE
		MERCH.	CULLS				
AM BEECH	84	219	32	24,654	113	6.3	123
BIRCH	82	121	3	11,486	95	2.9	57
BL CHERRY	83	314	1	47,792	152	12.1	238
EASTERN HEMLOCK	78	73		12,575	172	3.2	63
MISC SW	79	18		2,401	133	0.6	12
RED MAPLE	83	1,533	11	215,132	140	54.5	1,070
SUGAR MAPLE	81	832	2	76,752	92	19.5	382
ASH	82	33		3,131	95	0.8	16
BASS WOOD	79	4		509	127	0.1	3
TOTALS		3,147	49	394,432	125	100	1,964

CUBIC FOOT VOLUME

SPECIES	NO. OF TREES		CU.FT.VOL.	% BY VOLUME	VOLUME BY ACRE		
	MERCH.	CULL			CU.FT.	CORDS	TONS
AM BEECH	20,125	87	202,789	76.8	1,009	13.5	30.9
BIRCH	1,691		11,010	4.2	55	0.7	1.7
BL CHERRY	358		2,470	0.9	12	0.2	0.4
EASTERN HEMLOCK	87		1,016	0.4	5	0.1	0.2
RED MAPLE	1,325	1	17,069	6.5	85	1.1	2.6
SUGAR MAPLE	3,200	81	26,806	10.2	133	1.8	4.1
ASH	5		96	0.0		0.0	0.0
BASS WOOD	26		381	0.1	2	0.0	0.1
MISC HW	1		6	0.0		0.0	0.0
MISC SW	306		2,355	0.9	12	0.2	0.4
TOTALS	27,124	168	263,997	100	1,313	17.5	40.3

Total trees less than or equal to 4" dbh to be cut: _____

Comments:

PA GAME COMMISSION TIMBER SALE STAND AND STOCK TABLE

SALE NAME Third Earth
 BLOCK NO. 1,2,3,4,5,6,7,8,9,10,11
 COUNTY Wayne
 TOWNSHIP Lehigh, Sterling

SGL NO. 312
 FORESTER ZWISMER
 DATE 11/2/2015
 ACRES 201

Sawtimber Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"	38	26	72	7	5	251	309	11				719
14"	70	38	65	15	4	377	260	10	1			840
16"	72	33	63	15	1	372	174	9	3			742
18"	31	14	64	15	5	311	56	2				498
20"	8	9	39	7		147	26	1				237
22"		1	6	8	2	57	5					79
24"			5	3	1	16	1					26
26"				2		2	1					5
28"				1								1
30"												
32"												
34"												
36"												
38"												
40" +												
Total	219	121	314	73	18	1,533	832	33	4			3,147

Sawtimber Volume (bdf.)												
DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"	1,981	1,172	3,461	329	254	12,525	14,343	528				34,593
14"	5,999	2,600	4,997	1,050	336	31,397	21,108	742	119			68,348
16"	8,869	3,811	9,112	1,841	130	47,607	22,071	1,176	390			95,007
18"	5,844	2,047	13,657	2,619	1,040	57,556	10,730	381				93,874
20"	1,961	1,640	11,772	1,665		38,414	6,046	304				61,802
22"		216	2,339	2,344	398	19,908	1,587					26,792
24"			2,454	1,053	243	6,713	445					10,908
26"				988		1,012	422					2,422
28"				686								686
30"												
32"												
34"												
36"												
38"												
40" +												
Total	24,654	11,486	47,792	12,575	2,401	215,132	76,752	3,131	509			394,432

Pulpwood Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	9,606	780	167	15	274	1,348				155		12,345
8"	4,191	635	134	23	173	847			1	70		6,075
10"	2,964	193	50	25	512	907	3	25		42		4,722
12"	1,877	55	6	14	293	141	1			21		2,408
14"	846	26		6	47	31	1	1		9		966
16"	610	1	1	2	22	5				8		649
18"	104	1		1	2							108
20" +	14		1	1	2	1				1		20
Total	20,212	1,691	358	87	1,326	3,281	5	26	1	306		27,292

Pulpwood Volume (cuft.)												
DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	33,544	2,367	532	45	804	4,006				484		41,782
8"	29,357	4,081	948	137	1,062	6,384			6	428		42,403
10"	40,501	2,554	704	263	6,607	12,183	41	348		447		63,648
12"	40,069	1,175	152	237	5,977	2,969	22			358		50,959
14"	27,171	738		152	1,418	945	32	34		231		30,721
16"	25,185	42	49	72	944	215				293		26,801
18"	5,946	52		50	105							6,152
20" +	1,016		84	60	152	104				115		1,531
Total	202,789	11,010	2,470	1,016	17,069	26,806	96	381	6	2,355		263,997

PA GAME COMMISSION TIMBER SALE SUMMARY

SALE NAME Third Earth
 BLOCK NO. 1
 COUNTY Wayne
 TOWNSHIP Lehigh, Sterling

SGL NO. 312
 FORESTER ZWISMER
 DATE 11/2/2015
 ACRES 5

VOLUME TABLE - Girard & Mesavage Scribner Rule

All volumes listed are estimates

BOARD FOOT VOLUME

SPECIES	FORM CLASS	NO. OF TREES		BD.FT.VOL.	VOL.BD.FT. PER TREE	% BY VOLUME	VOLUME BY ACRE
		MERCH.	CULLS				
AM BEECH	84	11	23	1,038	94	5.4	208
BIRCH	82	9	2	872	97	4.6	174
BL CHERRY	83	35		3,669	105	19.2	734
EASTERN HEMLOCK	78	13		1,900	146	9.9	380
MISC SW	79	4		713	178	3.7	143
RED MAPLE	83	77	7	8,430	109	44.1	1,686
SUGAR MAPLE	81	37	1	2,477	67	13.0	495
ASH	82						
BASS WOOD	79						
TOTALS		186	33	19,099	103	100	3,820

CUBIC FOOT VOLUME

SPECIES	NO. OF TREES		CU.FT.VOL.	% BY VOLUME	VOLUME BY ACRE		
	MERCH.	CULL			CU.FT.	CORDS	TONS
AM BEECH	531	9	7,323	73.3	1,465	19.5	44.9
BIRCH	36		284	2.8	57	0.8	1.7
BL CHERRY	7		74	0.7	15	0.2	0.5
EASTERN HEMLOCK	6		28	0.3	6	0.1	0.2
RED MAPLE	95	1	1,446	14.5	289	3.9	8.9
SUGAR MAPLE	84	1	840	8.4	168	2.2	5.2
ASH							
BASS WOOD							
MISC HW							
MISC SW							
TOTALS	759	11	9,996	100	2,000	26.7	61.3

Total trees less than or equal to 4" dbh to be cut: _____

Comments:

Clear Cut

PA GAME COMMISSION TIMBER SALE STAND AND STOCK TABLE

SALE NAME Third Earth
 BLOCK NO. 1
 COUNTY Wayne
 TOWNSHIP Lehigh, Sterling

SGL NO. 312
 FORESTER ZWISMER
 DATE 11/2/2015
 ACRES 5

Sawtimber Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"	2		11	1		14	20					48
14"	4	3	9	3	1	19	11					50
16"	5	6	9	1		23	6					50
18"			3	4		15						22
20"			3	2		4						9
22"				1	2	2						5
24"				1	1							2
26"												
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total	11	9	35	13	4	77	37					186

Sawtimber Volume (bdf.)												
DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"	112		521	47		728	944					2,352
14"	332	204	623	180	72	1,566	817					3,794
16"	594	668	1,175	95		2,566	716					5,814
18"			630	578		2,269						3,477
20"			720	484		853						2,057
22"				194	398	448						1,040
24"				322	243							565
26"												
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total	1,038	872	3,669	1,900	713	8,430	2,477					19,099

Pulpwood Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	154	12	1	4	18	21						210
8"	155	14	2	1	15	27						214
10"	66	7	4	1	24	29						131
12"	80	3			26	7						116
14"	55				8	1						64
16"	25				4							29
18"	4				1							5
20" +	1											1
Total	540	36	7	6	96	85						770

Pulpwood Volume (cuft.)												
DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	527	37	3	12	50	62						691
8"	1,059	91	14	6	92	211						1,472
10"	885	93	57	11	309	389						1,744
12"	1,742	64			530	147						2,483
14"	1,767				242	31						2,039
16"	1,045				170							1,216
18"	228				53							280
20" +	70											70
Total	7,323	284	74	28	1,446	840						9,996

PA GAME COMMISSION TIMBER SALE SUMMARY

SALE NAME Third Earth
 BLOCK NO. 2
 COUNTY Wayne
 TOWNSHIP Lehigh, Sterling

SGL NO. 312
 FORESTER MGE
 DATE 11/19/2013
 ACRES 29

VOLUME TABLE - Girard & Mesavage Scribner Rule

All volumes listed are estimates

BOARD FOOT VOLUME

SPECIES	FORM CLASS	NO. OF TREES		BD.FT.VOL.	VOL.BD.FT. PER TREE	% BY VOLUME	VOLUME BY ACRE
		MERCH.	CULLS				
AM BEECH	84	81		12,065	149	6.8	416
BIRCH	82	34		3,717	109	2.1	128
BL CHERRY	83	112		22,640	202	12.7	781
EASTERN HEMLOCK	78	52		9,939	191	5.6	343
MISC SW	79						
RED MAPLE	83	581		91,863	158	51.6	3,168
SUGAR MAPLE	81	338		36,265	107	20.4	1,251
ASH	82	9		1,050	117	0.6	36
BASS WOOD	79	4		509	127	0.3	18
TOTALS		1,211		178,048	147	100	6,141

CUBIC FOOT VOLUME

SPECIES	NO. OF TREES		CU.FT.VOL.	% BY VOLUME	VOLUME BY ACRE		
	MERCH.	CULL			CU.FT.	CORDS	TONS
AM BEECH	1,640		27,275	62.7	941	12.5	28.8
BIRCH	136		1,613	3.7	56	0.7	1.7
BL CHERRY	79		849	1.9	29	0.4	0.9
EASTERN HEMLOCK	70		881	2.0	30	0.4	0.9
RED MAPLE	445		5,675	13.0	196	2.6	6.0
SUGAR MAPLE	439		5,708	13.1	197	2.6	6.0
ASH	4		82	0.2	3	0.0	0.1
BASS WOOD	1		34	0.1	1	0.0	0.0
MISC HW	1		6	0.0		0.0	0.0
MISC SW	93		1,402	3.2	48	0.6	1.5
TOTALS	2,908		43,523	100	1,501	20.0	46.0

Total trees less than or equal to 4" dbh to be cut: _____

Comments:

Clear

PA GAME COMMISSION TIMBER SALE STAND AND STOCK TABLE

SALE NAME Third Earth
 BLOCK NO. 2
 COUNTY Wayne
 TOWNSHIP Lehigh, Sterling

SGL NO. 312
 FORESTER MGE
 DATE 11/19/2013
 ACRES 29

Sawtimber Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"	6	8	18	5		107	110	1				255
14"	15	10	17	7		149	106	3	1			308
16"	34	11	27	14		132	79	5	3			305
18"	19	2	24	11		98	27					181
20"	7	2	19	3		63	11					105
22"		1	3	7		21	4					36
24"			4	2		9	1					16
26"				2		2						4
28"				1								1
30"												
32"												
34"												
36"												
38"												
40" +												
Total	81	34	112	52		581	338	9	4			1,211

Sawtimber Volume (bdf.)												
DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"	252	396	1,020	235		5,596	5,220	68				12,787
14"	1,470	686	1,599	552		14,140	9,551	230	119			28,347
16"	4,627	1,573	4,452	1,746		20,190	11,217	752	390			44,947
18"	3,940	431	5,937	2,041		20,341	5,741					38,431
20"	1,776	415	6,475	810		18,438	2,871					30,785
22"		216	1,176	2,150		8,425	1,220					13,187
24"			1,981	731		3,721	445					6,878
26"				988		1,012						2,000
28"				686								686
30"												
32"												
34"												
36"												
38"												
40" +												
Total	12,065	3,717	22,640	9,939		91,863	36,265	1,050	509			178,048

Pulpwood Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	259	27	23	10	67	44				12		442
8"	398	34	27	17	96	124			1	17		714
10"	391	47	21	21	185	195	2			25		887
12"	273	20	6	13	69	50	1			21		453
14"	193	6		5	14	20	1	1		9		249
16"	87	1	1	2	11	5				8		115
18"	31	1		1	1							34
20" +	8		1	1	2	1				1		14
Total	1,640	136	79	70	445	439	4	1	1	93		2,908

Pulpwood Volume (cuft.)												
DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	905	83	73	30	197	136				38		1,461
8"	2,790	226	192	101	589	967			6	103		4,973
10"	5,408	616	298	221	2,385	2,619	28			265		11,839
12"	5,944	427	152	220	1,408	1,051	22			358		9,582
14"	6,200	169	127	423	616	32	34			231		7,832
16"	3,637	42	49	72	469	215				293		4,777
18"	1,767	52		50	53							1,920
20" +	624		84	60	152	104				115		1,139
Total	27,275	1,613	849	881	5,675	5,708	82	34	6	1,402		43,523

PA GAME COMMISSION TIMBER SALE SUMMARY

SALE NAME Third Earth
 BLOCK NO. 3
 COUNTY Wayne
 TOWNSHIP Sterling

SGL NO. 312
 FORESTER ZWISMER
 DATE 12/30/2015
 ACRES 15

VOLUME TABLE - Girard & Mesavage Scribner Rule

All volumes listed are estimates

BOARD FOOT VOLUME

SPECIES	FORM CLASS	NO. OF TREES		BD.FT.VOL.	VOL.BD.FT. PER TREE	% BY VOLUME	VOLUME BY ACRE
		MERCH.	CULLS				
AM BEECH	84	6		583	97	10.1	39
BIRCH	82	3		206	69	3.6	14
BL CHERRY	83	14		1,152	82	20.0	77
EASTERN HEMLOCK	78						
MISC SW	79						
RED MAPLE	83	11	1	1,187	108	20.6	79
SUGAR MAPLE	81	27		1,606	59	27.9	107
ASH	82	16		1,028	64	17.8	69
BASS WOOD	79						
TOTALS		77	1	5,762	75	100	385

CUBIC FOOT VOLUME

SPECIES	NO. OF TREES		CU.FT.VOL.	% BY VOLUME	VOLUME BY ACRE		
	MERCH.	CULL			CU.FT.	CORDS	TONS
AM BEECH	1,261	20	10,973	65.7	732	9.8	22.4
BIRCH	46		753	4.5	50	0.7	1.5
BL CHERRY							
EASTERN HEMLOCK							
RED MAPLE	18		236	1.4	16	0.2	0.5
SUGAR MAPLE	887	80	4,728	28.3	315	4.2	9.7
ASH							
BASS WOOD							
MISC HW							
MISC SW							
TOTALS	2,213	99	16,690	100	1,113	14.8	34.1

Total trees less than or equal to 4" dbh to be cut: _____

Comments:
 Shelterwood

PA GAME COMMISSION TIMBER SALE STAND AND STOCK TABLE

SALE NAME Third Earth
 BLOCK NO. 3
 COUNTY Wayne
 TOWNSHIP Sterling

SGL NO. 312
 FORESTER ZWISMER
 DATE 12/30/2015
 ACRES 15

Sawtimber Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"	1	1	4			2	14	9				31
14"	1	1	7			3	8	4				24
16"	4	1	3			3	5	3				19
18"						2						2
20"						1						1
22"												
24"												
26"												
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total	6	3	14			11	27	16				77

Sawtimber Volume (bdf.)												
DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"	56	52	178			106	562	428				1,382
14"	83	48	529			178	542	282				1,662
16"	444	106	445			286	502	318				2,101
18"						437						437
20"						180						180
22"												
24"												
26"												
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total	583	206	1,152			1,187	1,606	1,028				5,762

Pulpwood Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	866					662						1,528
8"	57					201						258
10"	128	37			18	92						275
12"	140					13						153
14"	47	9										56
16"	43											43
18"												
20" +												
Total	1,281	46			18	967						2,313

Pulpwood Volume (cuft.)												
DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	3,024					1,889						4,913
8"	402					1,340						1,742
10"	1,775	487			236	1,231						3,729
12"	2,772					268						3,040
14"	1,503	266										1,768
16"	1,497											1,497
18"												
20" +												
Total	10,973	753			236	4,728						16,690

PA GAME COMMISSION TIMBER SALE SUMMARY

SALE NAME Third Earth
 BLOCK NO. 4
 COUNTY Lackawanna,Wayne
 TOWNSHIP Covington,Sterling

SGL NO. 312
 FORESTER DJS
 DATE 11/20/2015
 ACRES 14

VOLUME TABLE - Girard & Mesavage Scribner Rule

All volumes listed are estimates

BOARD FOOT VOLUME

<u>SPECIES</u>	<u>FORM CLASS</u>	<u>NO. OF TREES</u>		<u>BD.FT.VOL.</u>	<u>VOL.BD.FT. PER TREE</u>	<u>% BY VOLUME</u>	<u>VOLUME BY ACRE</u>
		<u>MERCH.</u>	<u>CULLS</u>				
AM BEECH	84	11		1,044	95	2.6	75
BIRCH	82	5		478	96	1.2	34
BL CHERRY	83	25		4,425	177	10.9	316
EASTERN HEMLOCK	78	1		157	157	0.4	11
MISC SW	79	10		1,173	117	2.9	84
RED MAPLE	83	138		22,919	166	56.5	1,637
SUGAR MAPLE	81	116		10,358	89	25.5	740
ASH	82						
BASS WOOD	79						
TOTALS		306		40,554	133	100	2,897

CUBIC FOOT VOLUME

<u>SPECIES</u>	<u>NO. OF TREES</u>		<u>CU.FT.VOL.</u>	<u>% BY VOLUME</u>	<u>VOLUME BY ACRE</u>		
	<u>MERCH.</u>	<u>CULL</u>			<u>CU.FT.</u>	<u>CORDS</u>	<u>TONS</u>
AM BEECH	1,030		12,351	74.1	882	11.8	27.1
BIRCH	48		144	0.9	10	0.1	0.3
BL CHERRY	169		645	3.9	46	0.6	1.4
EASTERN HEMLOCK							
RED MAPLE							
SUGAR MAPLE	288		2,567	15.4	183	2.4	5.6
ASH							
BASS WOOD							
MISC HW							
MISC SW	213		953	5.7	68	0.9	2.1
TOTALS	1,748		16,660	100	1,189	15.9	36.5

Total trees less than or equal to 4" dbh to be cut: _____

Comments:

Clear Cut

PA GAME COMMISSION TIMBER SALE STAND AND STOCK TABLE

SALE NAME Third Earth
 BLOCK NO. 4
 COUNTY Lackawanna, Wayne
 TOWNSHIP Covington, Sterling

SGL NO. 312
 FORESTER DJS
 DATE 11/20/2015
 ACRES 14

Sawtimber Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"	3	2	3		5	16	39					68
14"	2		3		1	28	45					79
16"	4	1	2			25	17					49
18"	2		15		4	41	10					72
20"		2	1	1		15	5					24
22"						10						10
24"			1			3						4
26"												
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total	11	5	25	1	10	138	116					306

Sawtimber Volume (bdf.)												
DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"	147	64	144		254	880	1,894					3,383
14"	166		240		96	2,197	3,521					6,220
16"	439	64	258			3,124	2,092					5,977
18"	292		2,997		823	8,059	1,692					13,863
20"		350	313	157		4,076	1,159					6,055
22"						3,164						3,164
24"			473			1,419						1,892
26"												
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total	1,044	478	4,425	157	1,173	22,919	10,358					40,554

Pulpwood Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	475	48	143			48				143		856
8"	134		27			160				53		374
10"	222					68				17		308
12"	59					12						71
14"	70											70
16"	53											53
18"	16											16
20" +												
Total	1,030	48	169			288				213		1,748

Pulpwood Volume (cuft.)												
DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	1,660	144	455			147				447		2,853
8"	937		190			1,251				325		2,703
10"	3,077					919				181		4,178
12"	1,294					250						1,544
14"	2,244											2,244
16"	2,236											2,236
18"	903											903
20" +												
Total	12,351	144	645			2,567				953		16,660

PA GAME COMMISSION TIMBER SALE SUMMARY

SALE NAME Third Earth
 BLOCK NO. 5
 COUNTY Lackawanna,Wayne
 TOWNSHIP Covington,Sterling

SGL NO. 312
 FORESTER DJS
 DATE 11/23/2015
 ACRES 16

VOLUME TABLE - Girard & Mesavage Scribner Rule

All volumes listed are estimates

BOARD FOOT VOLUME

<u>SPECIES</u>	<u>FORM CLASS</u>	<u>NO. OF TREES</u>		<u>BD.FT.VOL.</u>	<u>VOL.BD.FT. PER TREE</u>	<u>% BY VOLUME</u>	<u>VOLUME BY ACRE</u>
		<u>MERCH.</u>	<u>CULLS</u>				
AM BEECH	84	29		2,655	92	5.6	166
BIRCH	82	6		671	112	1.4	42
BL CHERRY	83	21		4,246	202	9.0	265
EASTERN HEMLOCK	78	2		256	128	0.5	16
MISC SW	79	4		515	129	1.1	32
RED MAPLE	83	158		27,547	174	58.4	1,722
SUGAR MAPLE	81	112		10,532	94	22.3	658
ASH	82	4		717	179	1.5	45
BASS WOOD	79						
TOTALS		336		47,139	140	100	2,946

CUBIC FOOT VOLUME

<u>SPECIES</u>	<u>NO. OF TREES</u>		<u>CU.FT.VOL.</u>	<u>% BY VOLUME</u>	<u>VOLUME BY ACRE</u>		
	<u>MERCH.</u>	<u>CULL</u>			<u>CU.FT.</u>	<u>CORDS</u>	<u>TONS</u>
AM BEECH	1,654		15,958	90.7	997	13.3	30.6
BIRCH							
BL CHERRY							
EASTERN HEMLOCK							
RED MAPLE	60		672	3.8	42	0.6	1.3
SUGAR MAPLE	194		963	5.5	60	0.8	1.8
ASH							
BASS WOOD							
MISC HW							
MISC SW							
TOTALS	1,908		17,593	100	1,099	14.7	33.7

Total trees less than or equal to 4" dbh to be cut: _____

Comments:

Clear Cut

PA GAME COMMISSION TIMBER SALE STAND AND STOCK TABLE

SALE NAME Third Earth
 BLOCK NO. 5
 COUNTY Lackawanna, Wayne
 TOWNSHIP Covington, Sterling

SGL NO. 312
 FORESTER DJS
 DATE 11/23/2015
 ACRES 16

Sawtimber Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"	5	1	2			16	38	1				63
14"	17	1	3	1	2	23	33					80
16"	5	1	4		1	26	26					63
18"	2	2	5		1	52	8	2				72
20"		1	5	1		20	5	1				33
22"			2			17	1					20
24"						4						4
26"							1					1
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total	29	6	21	2	4	158	112	4				336

Sawtimber Volume (bdf.)												
DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"	238	32	89			712	1,672	32				2,775
14"	1,411	78	236	42	168	1,708	2,467					6,110
16"	555	106	516		130	3,152	3,076					7,535
18"	451	280	1,118		217	9,555	1,421	381				13,423
20"		175	1,432	214		5,048	1,107	304				8,280
22"			855			5,799	367					7,021
24"						1,573						1,573
26"							422					422
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total	2,655	671	4,246	256	515	27,547	10,532	717				47,139

Pulpwood Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	917					153						1,070
8"	286				29	29						344
10"	220				18							238
12"	89				13	13						115
14"	47											47
16"	79											79
18"	11											11
20" +	5											5
Total	1,654				60	194						1,908

Pulpwood Volume (cuft.)												
DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	3,202					472						3,675
8"	2,008				176	223						2,408
10"	3,043				236							3,280
12"	1,941				260	268						2,468
14"	1,503											1,503
16"	3,294											3,294
18"	645											645
20" +	322											322
Total	15,958				672	963						17,593

PA GAME COMMISSION TIMBER SALE SUMMARY

SALE NAME Third Earth
 BLOCK NO. 6
 COUNTY Wayne
 TOWNSHIP Sterling

SGL NO. 312
 FORESTER ZWISMER
 DATE 1/5/2016
 ACRES 30

VOLUME TABLE - Girard & Mesavage Scribner Rule

All volumes listed are estimates

BOARD FOOT VOLUME

SPECIES	FORM CLASS	NO. OF TREES		BD.FT.VOL.	VOL.BD.FT. PER TREE	% BY VOLUME	VOLUME BY ACRE
		MERCH.	CULLS				
AM BEECH	84	60		5,357	89	32.2	179
BIRCH	82	25		2,679	107	16.1	89
BL CHERRY	83	2		129	65	0.8	4
EASTERN HEMLOCK	78						
MISC SW	79						
RED MAPLE	83	69		7,782	113	46.7	259
SUGAR MAPLE	81	11		699	64	4.2	23
ASH	82						
BASS WOOD	79						
TOTALS		167		16,646	100	100	554

CUBIC FOOT VOLUME

SPECIES	NO. OF TREES		CU.FT.VOL.	% BY VOLUME	VOLUME BY ACRE		
	MERCH.	CULL			CU.FT.	CORDS	TONS
AM BEECH	2,460		25,448	91.9	848	11.3	26.0
BIRCH	29		527	1.9	18	0.2	0.5
BL CHERRY							
EASTERN HEMLOCK							
RED MAPLE	120		826	3.0	28	0.4	0.8
SUGAR MAPLE	134		879	3.2	29	0.4	0.9
ASH							
BASS WOOD							
MISC HW							
MISC SW							
TOTALS	2,743		27,679	100	923	12.3	28.3

Total trees less than or equal to 4" dbh to be cut: _____

Comments:
 Shelterwood

PA GAME COMMISSION TIMBER SALE STAND AND STOCK TABLE

SALE NAME Third Earth
 BLOCK NO. 6
 COUNTY Wayne
 TOWNSHIP Sterling

SGL NO. 312
 FORESTER ZWISMER
 DATE 1/5/2016
 ACRES 30

Sawtimber Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"	15	5				12	6					38
14"	25	3	2			28	4					62
16"	13	7				13						33
18"	6	6				9	1					22
20"	1	4				6						11
22"						1						1
24"												
26"												
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total	60	25	2			69	11					167

Sawtimber Volume (bdf.)												
DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"	840	220				597	268					1,925
14"	2,039	234	129			2,166	296					4,864
16"	1,477	742				1,495						3,714
18"	816	783				1,890	135					3,624
20"	185	700				1,410						2,295
22"						224						224
24"												
26"												
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total	5,357	2,679	129			7,782	699					16,646

Pulpwood Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	843				53	105						1,001
8"	741				30							771
10"	493	19			38	19						569
12"	224											224
14"	116	10				10						135
16"	37											37
18"	6											6
20" +												
Total	2,460	29			120	134						2,743

Pulpwood Volume (cuft.)												
DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	2,945				155	326						3,425
8"	5,194				182							5,376
10"	6,821	252			489	255						7,817
12"	4,875											4,875
14"	3,731	275				298						4,304
16"	1,549											1,549
18"	334											334
20" +												
Total	25,448	527			826	879						27,679

PA GAME COMMISSION TIMBER SALE SUMMARY

SALE NAME Third Earth
 BLOCK NO. 7
 COUNTY Wayne
 TOWNSHIP Sterling

SGL NO. 312
 FORESTER ZWISMER
 DATE 11/9/2015
 ACRES 2

VOLUME TABLE - Girard & Mesavage Scribner Rule

All volumes listed are estimates

BOARD FOOT VOLUME

SPECIES	FORM CLASS	NO. OF TREES		BD.FT.VOL.	VOL.BD.FT. PER TREE	% BY VOLUME	VOLUME BY ACRE
		MERCH.	CULLS				
AM BEECH	84	2	3	194	97	3.8	97
BIRCH	82						
BL CHERRY	83	9		1,100	122	21.4	550
EASTERN HEMLOCK	78						
MISC SW	79						
RED MAPLE	83	30		3,579	119	69.6	1,790
SUGAR MAPLE	81	3		267	89	5.2	134
ASH	82						
BASS WOOD	79						
TOTALS		44	3	5,140	117	100	2,571

CUBIC FOOT VOLUME

SPECIES	NO. OF TREES		CU.FT.VOL.	% BY VOLUME	VOLUME BY ACRE		
	MERCH.	CULL			CU.FT.	CORDS	TONS
AM BEECH	81		1,090	74.4	545	7.3	16.7
BIRCH	1		6	0.4	3	0.0	0.1
BL CHERRY	1		7	0.5	4	0.0	0.1
EASTERN HEMLOCK							
RED MAPLE	10		142	9.7	71	0.9	2.2
SUGAR MAPLE	20		220	15.0	110	1.5	3.4
ASH							
BASS WOOD							
MISC HW							
MISC SW							
TOTALS	113		1,465	100	733	9.8	22.5

Total trees less than or equal to 4" dbh to be cut: _____

Comments:

Clear Cut

PA GAME COMMISSION TIMBER SALE STAND AND STOCK TABLE

SALE NAME Third Earth
 BLOCK NO. 7
 COUNTY Wayne
 TOWNSHIP Sterling

SGL NO. 312
 FORESTER ZWISMER
 DATE 11/9/2015
 ACRES 2

Sawtimber Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"			2			2	2					6
14"	1		2			7						10
16"	1		3			14						18
18"			1			4	1					6
20"			1			2						3
22"						1						1
24"												
26"												
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total	2		9			30	3					44

Sawtimber Volume (bdf.)												
10"												
12"			110			89	83					282
14"	83		160			552						795
16"	111		324			1,643						2,078
18"			193			561	184					938
20"			313			426						739
22"						308						308
24"												
26"												
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total	194		1,100			3,579	267					5,140

Pulpwood Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	23					2						25
8"	20	1	1		4	9						35
10"	14				2	6						22
12"	12				3	3						18
14"	9				1							10
16"	3											3
18"												
20" +												
Total	81	1	1		10	20						113

Pulpwood Volume (cuft.)												
6"	80					6						87
8"	140	6	7		25	70						248
10"	194				26	81						300
12"	261				61	63						386
14"	289				30							319
16"	125											125
18"												
20" +												
Total	1,090	6	7		142	220						1,465

PA GAME COMMISSION TIMBER SALE SUMMARY

SALE NAME Third Earth
 BLOCK NO. 8
 COUNTY Wayne
 TOWNSHIP Sterling

SGL NO. 312
 FORESTER ZWISMER
 DATE 11/13/2015
 ACRES 1

VOLUME TABLE - Girard & Mesavage Scribner Rule

All volumes listed are estimates

BOARD FOOT VOLUME

<u>SPECIES</u>	<u>FORM CLASS</u>	<u>NO. OF TREES</u>		<u>BD.FT.VOL.</u>	<u>VOL.BD.FT. PER TREE</u>	<u>% BY VOLUME</u>	<u>VOLUME BY ACRE</u>
		<u>MERCH.</u>	<u>CULLS</u>				
AM BEECH	84		1				
BIRCH	82	2		142	71	4.7	142
BL CHERRY	83	6	1	797	133	26.2	797
EASTERN HEMLOCK	78	5		323	65	10.6	323
MISC SW	79						
RED MAPLE	83	4		349	87	11.5	349
SUGAR MAPLE	81	17		1,430	84	47.0	1,430
ASH	82						
BASS WOOD	79						
TOTALS		34	2	3,041	89	100	3,041

CUBIC FOOT VOLUME

<u>SPECIES</u>	<u>NO. OF TREES</u>		<u>CU.FT.VOL.</u>	<u>% BY VOLUME</u>	<u>VOLUME BY ACRE</u>		
	<u>MERCH.</u>	<u>CULL</u>			<u>CU.FT.</u>	<u>CORDS</u>	<u>TONS</u>
AM BEECH	16		221	31.3	221	2.9	6.8
BIRCH	3		71	10.1	71	1.0	2.2
BL CHERRY							
EASTERN HEMLOCK	11		107	15.1	107	1.4	3.3
RED MAPLE	3		73	10.4	73	1.0	2.2
SUGAR MAPLE	19		220	31.1	220	2.9	6.7
ASH	1		14	2.0	14	0.2	0.4
BASS WOOD							
MISC HW							
MISC SW							
TOTALS	53		706	100	706	9.4	21.6

Total trees less than or equal to 4" dbh to be cut: _____

Comments:

Clear Cut

PA GAME COMMISSION TIMBER SALE STAND AND STOCK TABLE

SALE NAME Third Earth
 BLOCK NO. 8
 COUNTY Wayne
 TOWNSHIP Sterling

SGL NO. 312
 FORESTER ZWISMER
 DATE 11/13/2015
 ACRES 1

Sawtimber Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"				1			7					8
14"		1	1	4		2	3					11
16"		1	3			2	5					11
18"			1				2					3
20"			1									1
22"												
24"												
26"												
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total		2	6	5		4	17					34

Sawtimber Volume (bdf.)												
10"												
12"				47			319					366
14"		78	49	276		129	250					782
16"		64	242			220	542					1,068
18"			193				319					512
20"			313									313
22"												
24"												
26"												
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total		142	797	323		349	1,430					3,041

Pulpwood Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	1			1		4						6
8"	5			5		3						13
10"	7			3	1	9	1					21
12"	2	2		1		3						8
14"		1		1	2							4
16"	1											1
18"												
20" +												
Total	16	3		11	3	19	1					53

Pulpwood Volume (cuft.)												
6"	3			3		12						19
8"	35			30		23						88
10"	97			32	13	121	14					276
12"	44	43		17		63						167
14"		28		25	60							114
16"	42											42
18"												
20" +												
Total	221	71		107	73	220	14					706

PA GAME COMMISSION TIMBER SALE SUMMARY

SALE NAME Third Earth
 BLOCK NO. 9
 COUNTY Wayne
 TOWNSHIP Lehigh, Sterling

SGL NO. 312
 FORESTER _____
 DATE 11/16/2015
 ACRES 28

VOLUME TABLE - Girard & Mesavage Scribner Rule

All volumes listed are estimates

BOARD FOOT VOLUME

<u>SPECIES</u>	<u>FORM CLASS</u>	<u>NO. OF TREES</u>		<u>BD.FT.VOL.</u>	<u>VOL.BD.FT. PER TREE</u>	<u>% BY VOLUME</u>	<u>VOLUME BY ACRE</u>
		<u>MERCH.</u>	<u>CULLS</u>				
AM BEECH	84	4	1	504	126	1.5	18
BIRCH	82	4		368	92	1.1	13
BL CHERRY	83	18		2,963	165	9.1	106
EASTERN HEMLOCK	78						
MISC SW	79						
RED MAPLE	83	193	1	21,404	111	65.8	764
SUGAR MAPLE	81	98		7,084	72	21.8	253
ASH	82	2		210	105	0.6	8
BASS WOOD	79						
TOTALS		319	2	32,533	102	100	1,162

CUBIC FOOT VOLUME

<u>SPECIES</u>	<u>NO. OF TREES</u>		<u>CU.FT.VOL.</u>	<u>% BY VOLUME</u>	<u>VOLUME BY ACRE</u>		
	<u>MERCH.</u>	<u>CULL</u>			<u>CU.FT.</u>	<u>CORDS</u>	<u>TONS</u>
AM BEECH	3,929	58	32,967	77.6	1,177	15.7	36.1
BIRCH	129		742	1.7	27	0.4	0.8
BL CHERRY							
EASTERN HEMLOCK							
RED MAPLE	174		2,778	6.5	99	1.3	3.0
SUGAR MAPLE	648		6,015	14.2	215	2.9	6.6
ASH							
BASS WOOD							
MISC HW							
MISC SW							
TOTALS	4,880	58	42,503	100	1,518	20.2	46.6

Total trees less than or equal to 4" dbh to be cut: _____

Comments:

Clear Cut

PA GAME COMMISSION TIMBER SALE STAND AND STOCK TABLE

SALE NAME Third Earth
 BLOCK NO. 9
 COUNTY Wayne
 TOWNSHIP Lehigh, Sterling

SGL NO. 312
 FORESTER _____
 DATE 11/16/2015
 ACRES 28

Sawtimber Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"			1			35	47					83
14"	1	2	1			49	31	1				85
16"	2	2	4			52	16	1				77
18"	1		6			39	4					50
20"			6			15						21
22"						3						3
24"												
26"												
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total	4	4	18			193	98	2				319

Sawtimber Volume (bdf.)												
10"												
12"			34			1,589	2,207					3,830
14"	83	156	49			3,745	2,255	104				6,392
16"	222	212	516			5,778	1,838	106				8,672
18"	199		954			6,340	784					8,277
20"			1,410			2,944						4,354
22"						1,008						1,008
24"												
26"												
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total	504	368	2,963			21,404	7,084	210				32,533

Pulpwood Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	2,282	95				190						2,567
8"	802					160						963
10"	445	34			103	274						856
12"	238				71	24						333
14"	52											52
16"	147											147
18"	21											21
20" +												
Total	3,987	129			174	648						4,938

Pulpwood Volume (cuft.)												
6"	7,970	288				588						8,846
8"	5,624					1,251						6,875
10"	5,681	454			1,324	3,677						11,136
12"	4,657				1,454	500						6,612
14"	1,683											1,683
16"	6,148											6,148
18"	1,204											1,204
20" +												
Total	32,967	742			2,778	6,015						42,503

PA GAME COMMISSION TIMBER SALE SUMMARY

SALE NAME Third Earth
 BLOCK NO. 10
 COUNTY Wayne
 TOWNSHIP Lehigh, Sterling

SGL NO. 312
 FORESTER ZWISMER
 DATE 12/11/2015
 ACRES 47

VOLUME TABLE - Girard & Mesavage Scribner Rule

All volumes listed are estimates

BOARD FOOT VOLUME

<u>SPECIES</u>	<u>FORM CLASS</u>	<u>NO. OF TREES</u>		<u>BD.FT.VOL.</u>	<u>VOL.BD.FT. PER TREE</u>	<u>% BY VOLUME</u>	<u>VOLUME BY ACRE</u>
		<u>MERCH.</u>	<u>CULLS</u>				
AM BEECH	84	9		723	80	2.3	15
BIRCH	82	19	1	1,319	69	4.2	28
BL CHERRY	83	33		1,628	49	5.2	35
EASTERN HEMLOCK	78						
MISC SW	79						
RED MAPLE	83	202		22,450	111	71.9	478
SUGAR MAPLE	81	55	1	4,991	91	16.0	106
ASH	82	2		126	63	0.4	3
BASS WOOD	79						
TOTALS		320	2	31,237	98	100	665

CUBIC FOOT VOLUME

<u>SPECIES</u>	<u>NO. OF TREES</u>		<u>CU.FT.VOL.</u>	<u>% BY VOLUME</u>	<u>VOLUME BY ACRE</u>		
	<u>MERCH.</u>	<u>CULL</u>			<u>CU.FT.</u>	<u>CORDS</u>	<u>TONS</u>
AM BEECH	5,189		49,377	76.6	1,051	14.0	32.2
BIRCH	1,114		5,876	9.1	125	1.7	3.8
BL CHERRY	102		895	1.4	19	0.3	0.6
EASTERN HEMLOCK							
RED MAPLE	358		4,113	6.4	88	1.2	2.7
SUGAR MAPLE	359		3,816	5.9	81	1.1	2.5
ASH							
BASS WOOD	25		348	0.5	7	0.1	0.2
MISC HW							
MISC SW							
TOTALS	7,146		64,425	100	1,371	18.3	42.0

Total trees less than or equal to 4" dbh to be cut: _____

Comments:
 Shelterwood

PA GAME COMMISSION TIMBER SALE STAND AND STOCK TABLE

SALE NAME Third Earth
 BLOCK NO. 10
 COUNTY Wayne
 TOWNSHIP Lehigh, Sterling

SGL NO. 312
 FORESTER ZWISMER
 DATE 12/11/2015
 ACRES 47

Sawtimber Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"	4	5	24			41	16					90
14"	2	10	9			49	14	2				86
16"	3	1				57	17					78
18"		3				38	3					44
20"						15	5					20
22"						2						2
24"												
26"												
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total	9	19	33			202	55	2				320

Sawtimber Volume (bdf.)												
DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"	224	220	1,001			1,940	721					4,106
14"	166	630	627			3,571	1,121	126				6,241
16"	333	106				6,433	1,786					8,658
18"		363				6,279	454					7,096
20"						3,695	909					4,604
22"						532						532
24"												
26"												
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total	723	1,319	1,628			22,450	4,991	126				31,237

Pulpwood Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	2,462	547			137	68						3,214
8"	1,077	500	77			77						1,731
10"	813	49	25		123	197		25				1,231
12"	581	17			85	17						701
14"	163				13							176
16"	77											77
18"	15											15
20" +												
Total	5,189	1,114	102		358	359		25				7,146

Pulpwood Volume (cuft.)												
DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	8,601	1,657			402	211						10,871
8"	7,552	3,198	546			600						11,896
10"	11,238	654	349		1,587	2,645		348				16,821
12"	12,657	368			1,744	360						15,129
14"	5,246				380							5,626
16"	3,217											3,217
18"	866											866
20" +												
Total	49,377	5,876	895		4,113	3,816		348				64,425

PA GAME COMMISSION TIMBER SALE SUMMARY

SALE NAME Third Earth
 BLOCK NO. 11
 COUNTY Lackawanna
 TOWNSHIP Clifton

SGL NO. 312
 FORESTER ZWISMER
 DATE 11/5/2015
 ACRES 14

VOLUME TABLE - Girard & Mesavage Scribner Rule

All volumes listed are estimates

BOARD FOOT VOLUME

SPECIES	FORM CLASS	NO. OF TREES		BD.FT.VOL.	VOL.BD.FT. PER TREE	% BY VOLUME	VOLUME BY ACRE
		MERCH.	CULLS				
AM BEECH	84	6	4	491	82	3.2	35
BIRCH	82	14		1,034	74	6.8	74
BL CHERRY	83	39		5,043	129	33.1	360
EASTERN HEMLOCK	78						
MISC SW	79						
RED MAPLE	83	70	2	7,622	109	50.0	544
SUGAR MAPLE	81	18		1,043	58	6.8	75
ASH	82						
BASS WOOD	79						
TOTALS		147	6	15,233	104	100	1,088

CUBIC FOOT VOLUME

SPECIES	NO. OF TREES		CU.FT.VOL.	% BY VOLUME	VOLUME BY ACRE		
	MERCH.	CULL			CU.FT.	CORDS	TONS
AM BEECH	2,334		19,805	87.0	1,415	18.9	43.4
BIRCH	150		994	4.4	71	0.9	2.2
BL CHERRY							
EASTERN HEMLOCK							
RED MAPLE	42		1,107	4.9	79	1.1	2.4
SUGAR MAPLE	127		850	3.7	61	0.8	1.9
ASH							
BASS WOOD							
MISC HW							
MISC SW							
TOTALS	2,652		22,757	100	1,626	21.7	49.8

Total trees less than or equal to 4" dbh to be cut: _____

Comments:

Clear Cut

PA GAME COMMISSION TIMBER SALE STAND AND STOCK TABLE

SALE NAME Third Earth
 BLOCK NO. 11
 COUNTY Lackawanna
 TOWNSHIP Clifton

SGL NO. 312
 FORESTER ZWISMER
 DATE 11/5/2015
 ACRES 14

Sawtimber Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	MISC SW	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD			Total
10"												
12"	2	4	7			6	10					29
14"	2	7	11			20	5					45
16"	1	2	8			25	3					39
18"	1	1	9			13						24
20"			3			6						9
22"			1									1
24"												
26"												
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total	6	14	39			70	18					147

Sawtimber Volume (bdf.)												
10"												
12"	112	188	364			288	453					1,405
14"	166	486	756			1,445	288					3,141
16"	67	170	1,184			2,720	302					4,443
18"	146	190	1,635			1,825						3,796
20"			796			1,344						2,140
22"			308									308
24"												
26"												
28"												
30"												
32"												
34"												
36"												
38"												
40" +												
Total	491	1,034	5,043			7,622	1,043					15,233

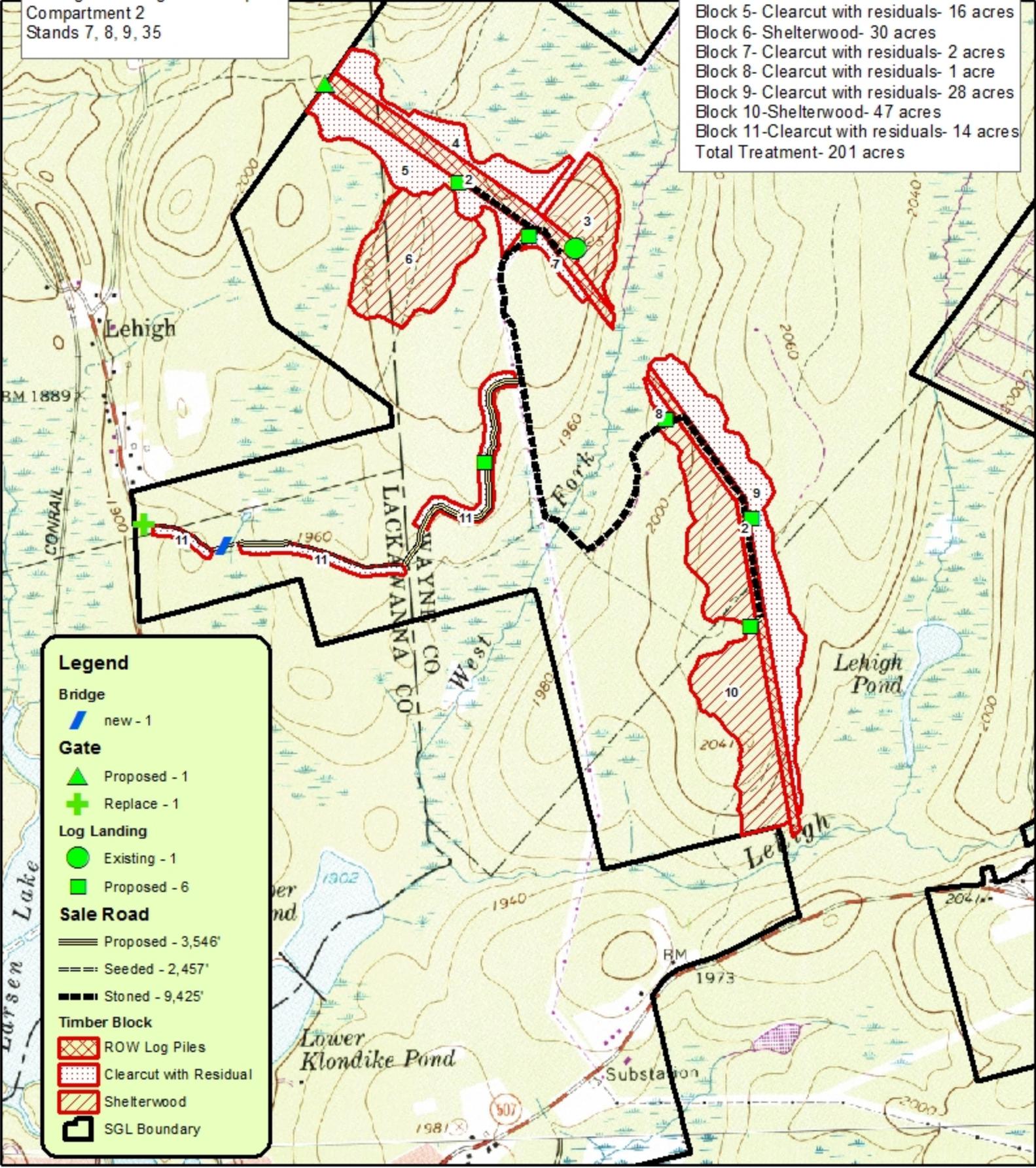
Pulpwood Trees												
SPECIES DBH	AM BEECH	BIRCH	BL CHERRY	EASTERN HEMLOCK	RED MAPLE	SUGAR MAPLE	ASH	BASS WOOD	MISC HW	MISC SW		Total
6"	1,324	51				51						1,426
8"	516	86				57						659
10"	165					18						183
12"	178	13			25							216
14"	94				9							103
16"	57				7							64
18"												
20" +												
Total	2,334	150			42	127						2,652

Pulpwood Volume (cuft.)												
6"	4,626	159				157						4,942
8"	3,615	561				447						4,623
10"	2,282					246						2,529
12"	3,881	274			519							4,675
14"	3,005				283							3,288
16"	2,395				305							2,701
18"												
20" +												
Total	19,805	994			1,107	850						22,757

SGL 312
 Lackawanna County
 Clifton and Covington Townships
 Wayne County
 Sterling and Lehigh Townships
 Compartment 2
 Stands 7, 8, 9, 35

Third Earth Timber Sale 312-15-01

Block 1- Roads and Landings- 5 acres
 Block 2- ROW logpiles- 29 acres
 Block 3- Shelterwood- 15 acres
 Block 4- Clearcut with residuals- 14 acres
 Block 5- Clearcut with residuals- 16 acres
 Block 6- Shelterwood- 30 acres
 Block 7- Clearcut with residuals- 2 acres
 Block 8- Clearcut with residuals- 1 acre
 Block 9- Clearcut with residuals- 28 acres
 Block 10- Shelterwood- 47 acres
 Block 11- Clearcut with residuals- 14 acres
 Total Treatment- 201 acres



Legend

Bridge
 new - 1

Gate
 Proposed - 1
 Replace - 1

Log Landing
 Existing - 1
 Proposed - 6

Sale Road
 Proposed - 3,546'
 Seeded - 2,457'
 Stoned - 9,425'

Timber Block
 ROW Log Piles
 Clearcut with Residual
 Shelterwood
 SGL Boundary



0 660 1,320 2,640 3,960 5,280 Feet



Third Earth Timber Sale Location Map 312-15-01

SGL 312
Lackawanna County
Clifton and Covington Townships
Wayne County
Sterling and Lehigh Townships
Compartment 2
Stands 7, 8, 9, 35

Sale tour meets at PGC parking area
along Lehigh Road (SR 2011)
co ordinates: N 41.268 W -75.452

Legend

-  Timber Block
-  SGL Boundary

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swiss topo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



0 5 10 20 30 40 Miles

