

STATE GAME LANDS #: **080**
SALE: **080-15-01**
NAME: **BOYERS STEAMROLLER**

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 326,987 board feet of sawlogs and 2448 tons of pulpwood located on 85 acres of State Game Lands No. 080, Bethel Township, Lebanon County and Pine Grove Township, Schuylkill County, 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 **\$7,000.00** 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 **October 1, 2018**.

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 # 080**. 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 13, 2016**. The Commission reserves the right to reject any and all bids and to award the contract as deemed to its best interests.

STATE GAME LANDS #: **080**
SALE #: **080-15-01**
NAME: **BOYERS STEAMROLLER**

- INSTRUCTIONS TO BIDDERS -

The following information covers details concerning the proposed lump sum sale of an estimated 326,987 board feet of sawlogs and 2448 tons of pulpwood to be cut from 85 acres of State Game Lands No. 080, Bethel Township, Lebanon County and Pine Grove Township, Schuylkill County.

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 1, 2016**. Viewers will be met at the PGC access road along Swopes Valley Road at 10:00 a.m., and conducted to the sale area.

The timber to be sold will be clearly designated by Randall Bauman, 253 Snyder Road, Reading, PA 19605, telephone: 1-610-926-3136 X 6686, 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 # 080**. 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 13, 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 **\$7,000.00** 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 **October 1, 2018.**

- PAYMENTS -

The sale is divided into 4 cutting blocks. Payment may be made by:

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

1 - 35%	- 16 acres
2 - 18%	- 21 acres
3 - 25%	- 24 acres
4 - 22%	- 23 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 five (5) Attached Sheet(s).

SPECIAL PROVISIONS FOR THE "BOYERS STEAMROLLER" TIMBER SALE

STATE GAME LANDS # 080

1) ADMINISTRATIVE ITEMS

- a) For this timber harvest, all pulpwood trees may be felled, skidded and chipped in their entirety. A pulpwood tree is defined as follows: that is any tree between 1" DBH and 12" DBH and which does not contain a merchantable saw log.
- b) All top wood 3" in diameter and smaller from all sawtimber trees is reserved and cannot be removed from the site. The tops need to be scattered across the harvest site.
- c) The Regional Forester or his designee will closely monitor harvest and skidder damage to residual trees. If damage becomes excessive additional restrictions will be placed on the harvest. Total disregard to the residual trees and failure to take corrective actions will result in payment of damages and/or termination of the timber contract.
- d) If site conditions in the woods (for felling, skidding or trucking) or the use of the haul road become too wet, muddy or ice covered and could or will cause damage to the property, all phases of the job will be suspended until working conditions are favorable. The Regional Forester will make the final decision in this matter.

2) BOUNDARIES, BLOCKS AND CUTTING INSTRUCTIONS

- a) All sale activity (Felling, Skidding & Trucking) is restricted to the defined sale area. Sale area boundary is defined by blue paint.
- b) No skidding is permitted on the haul road.
- c) In all clearcut with residual (CR) blocks: All Red and Blue painted trees must be left standing and not damaged. All unmarked trees 1" in diameter and larger in these blocks must be cut through and placed on the ground.
- d) All stumps must be less than 12" in height when measured from the ground.
- e) All tree tops left on site must be lopped down to a maximum height of 6'.

3) US /STATE / LOCAL ROADS

- a) The PGC access road entrances are along Swopes Valley Road.

4) GAME LAND ROADS TO BUILD / IMPROVE

- a) The timber contractor must improve portions of the haul road leading into blocks 2, 3 and 4. This will require grading and topdressing the intersection of the haul road and Swopes Valley Road and regrading and applying stone to sections to improve drainage. The Regional forester will designate specific locations for stone and water bars. The side ditches and all disturbed areas must be seeded immediately following construction of the road. This work must be done prior to cutting and hauling timber from blocks 2, 3, and 4. When the sale is completed the first 1000' of road must be top dressed with stone and the remainder seeded.
- b) Small borrow pits in the sale area may be used for fill with authorization of the Regional Forester. These sites must be regarded and seeded at the conclusion of usage. This is to be used in addition to required stone, not as a replacement.
- c) Required Clean Limestone for this harvest

1. Stone is for all designated locations on the haul road.
2. Minimum of 150 tons of AASHTO # 3 (similar to 3A modified) stone for the following locations: Haul road entrance - 25 tons, road retirement – 125 tons.
3. Minimum of 100 tons of #4 stone (3” – 5” size) for road base/soft spots in the haul road.
4. Receipts may be required to verify the amount of stone applied to the designated locations.

d) Haul Road Construction / Timeframe

1. The Regional Forester will designate all locations for stone, water bars and intercept ditches. Side ditches and disturbed areas must be seeded immediately following grading of the haul road. All road improvements must be completed and approved by the Regional Forester.
2. All road improvements must be allowed to settle for 30 days prior to any usage. During that time period no truck activity will be permitted on the newly graded or constructed road. This requirement will be waived if the operator provides a vibrating roller to compact the entire road surface. The road must have a solid surface and not show any movement. The use of the roller is at the discretion of the contractor.
3. Construction and or improvement of the haul road should occur during the time period of April 1 to October 10. During times of wet site conditions no road construction will be permitted.
4. Between October 10 and April 1 road construction and road improvements will be permitted providing the following conditions can be met.
 - a. The site conditions must be favorable for the construction of a quality road (Not wet or frozen ground). Excavation and grading of the haul road along with installation of culvert pipe must be able to be completed without creating an erosion hazard.
 - b. Seeding will occur at the completion of the construction. Straw mulch must be applied to all locations, which would require seeding. (Applies to this Time Period).
 - c. The ground must be workable and able to be compacted. Access for stone trucks must adequate. Designated log landing locations must be cleared.
 - d. The Regional Forester will have the final decision to approve construction/improvement of the haul road and landings.
5. All equipment will be cleaned of soil and debris before being moved onto site to prevent spread of invasive species.
6. The road will be inspected and approved by the Regional Forester prior to any usage by the timber operator.

5) LANDING

- a) Three locations have been designated as the log landings for this harvest. The landings are located in blocks 1, 2, and 4. At each location the contractor will be required to build a log landing. The log landings will require the excavation of stumps and rocks as well as the grading and leveling of the site. The contractor will be permitted to load trucks on the haul road providing there is a clear path for other Game Land users to safely utilize the road.
- b) Total size of each landing will be less than ½ acre in size.
- c) Upon completion of the harvest operation, each landing must be cleared of all logging debris/slash and then graded,

limed, fertilized, seeded, and mulched.

6) SKIDDING

- a) No skidding outside of the designated sale area.
- b) The operator will be required to improve 2,510 feet of designated skid trail in Block 1. Most of the length is an existing old trail. Trail must be 8 feet wide and seeded upon completion.
- c) Skidding is not permitted through reserve sale areas or islands.
- d) All material to be removed from all sale blocks must be skidded to the landings.
- e) If a skid trail will be sitting idle for one month or more they must have open and functional water bars.
- f) All skid trails will require the grading of wheel ruts, the installation of water bars and seeding at the conclusion of the harvest operation.

7) SEEDING OF ROADWAYS AND LANDINGS

- a) The entire haul road will require grading at the completion of the harvest. Final grading and ditches must be established with bull dozer with a six way blade or equivalent piece of equipment. Use of a log skidder or similar type of equipment is not acceptable for grading the road. Failure to use the proper equipment will require a second grading of the road.
- b) The eastern section of haul road from Swopes Valley Road for 1,000 feet and other sites designated by the Regional Forester will be top dressed with AASHTO #3 stone. A minimum of 125 tons of stone will be required.
- c) Seeding of 4000 feet of the haul road will be required as designated by the Regional Forester.
- d) Seeding Specifications

Log Landings and segments	4 lbs. New Zealand White Clover/acre
Of Skid Trails & Haul Road	4 lbs. Red Clover/Acre
	3 lbs. Birdsfoot Tree Foil/Acre
	60 lbs. Wheat/acre – fall
	60 lbs Oats/acre - spring

Required for log landings:

Fertilizer:	400 lbs of 10-10-10/acre
Ground Limestone:	2 tons of lime/acre (Lime must contain 1.4% Mg)
Straw Mulch:	100 bales per acre of clean wheat straw

Straw Mulch is for the seeding of the Log Landings. Straw must spread to a depth of less than ½" over the entire seeded location. Clean wheat straw must be used as mulch. No hay or other grass mulch will be permitted. Use of mechanized spreader for straw mulch is required.

Approximately 3.0 acres are expected to be seeded at the conclusion of the harvest. The breakdown is as follows:

Log landings	1.5 acres
Skid Trails	0.6 acre
Haul Road	0.9 acres

Spring Seeding: April 1 to May 30

Fall Seeding:

September 1 to October 10

A vegetative cover on all seeded sites will be acceptable when 70 percent of the site has the desired cover. The performance bond will not be released until this requirement is satisfied.

e) Sale Block Clean-up

1. All cleanup work in a sale block must be completed before the contractor will be permitted to move into the next cutting block.
2. All skid trails must be leveled and water bars installed where needed or when directed by the Regional Forester
3. All skid trails must be seeded immediately (spring & fall seeding period) following the completion of its usage.
4. Each log landing must be graded, sawdust and logging debris scattered along with bare mineral soil exposed, and ground lime, fertilizer, seed and straw mulch applied. Seeding of these sites is only permitted during the designated seeding periods.
5. The contractor must notify the Regional Forester prior to the application of lime, fertilizer, seed and mulch.

8. OPERATIONS AND NON-WORK DAYS

a) No in woods operations 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 gobbler season, including the youth spring gobbler hunt.
3. The four days of the general statewide bear season.
4. The entire two weeks of the general firearms deer season.
5. The opening day of the flintlock muzzleloader season.

b) The timber operator, 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 travel. The contractor may travel to and from the work location on no-work days to check on the condition of equipment. **No felling, skidding, trucking, equipment repair or access for the purpose of hunting at the job site will be permitted.**

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

- a) 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).
- b) 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. MISCELLANEOUS

- a) The timber contractor must comply with erosion and sedimentation control plan the harvest site. The plan must be on site and available for inspection at all times.

- b) The timber operator should review the plan, due to his responsibility for the implementation of erosion controls during the harvest operation.
- c) PGC gates **must** be closed. Repeated failure to close gates will be penalized.
- d) Vehicle traffic on the PGC access road shall not exceed 25 MPH.
- e) The selling of firewood will to the general public will not be permitted. The sale of firewood to a commercial firewood contractor is permitted.
- f) Payment for block 2 of the sale is required at the time of execution of the timber contract. Failure to provide this payment will void the timber contract.
- g) The Pennsylvania Game Commission will make a PA-1 call prior to the work on the road. The contractor must provide notice to the Regional Forester at least 72 hours (3 days) prior to start of the work. The call will be placed and the contractor will be notified when work may begin.
- h) This timber contract will expire on October 1, 2018.**

PA GAME COMMISSION TIMBER SALE SUMMARY

SALE NAME	<u>BOYERS STEAMROLLER</u>	SGL NO.	<u>80</u>
BLOCK NUMBER(S)	<u>1,2,3,4</u>	FORESTER	<u>NOLL</u>
COUNTY	<u>Lebanon</u>	DATE	<u>10/20/2015</u>
TOWNSHIP	<u>Bethel</u>	ACRES	<u>84</u>

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>				
BIRCH	79	249	0	16,692	67	5.1	199
BLACK OAK	81	181	0	25,943	143	7.9	309
BLACKGUM	79	161	0	11,982	74	3.7	143
CHESTNUT OAK	80	158	0	13,674	87	4.2	163
DEAD CHESTNUT OAK	80	1,943	0	162,758	84	49.8	1,938
DEAD MIXED OAK	81	125	0	15,580	125	4.8	185
MISC HW	82	24	0	2,883	120	0.9	34
N. RED OAK	83	152	0	27,971	184	8.6	333
RED MAPLE	83	181	0	15,232	84	4.7	181
SCARLET OAK	79	88	0	10,365	118	3.2	123
WHITE OAK	81	26	0	3,972	153	1.2	47
YELLOW-POPLAR	81	58	0	19,935	344	6.1	237
TOTALS		<u>3,346</u>	<u>0</u>	<u>326,987</u>	<u>98</u>	<u>100</u>	<u>3,892</u>

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>
BLACKGUM	3,828	0	19,638	23.1	234	3.1	7.2
DEAD RED OAK	92	0	1,227	1.4	15	0.2	0.4
DEAD WHITE OAK	3,649	0	39,452	46.3	470	6.3	12.5
MISC HW	471	0	2,810	3.3	33	0.4	1.0
MIXED OAK	71	0	761	0.9	9	0.1	0.3
N. RED OAK	113	0	987	1.2	12	0.2	0.4
RED MAPLE	1,489	0	7,791	9.2	93	1.2	2.8
SUGAR MAPLE	0	0	0	0.0	0	0.0	0.0
BIRCH	1,342	0	10,029	11.8	119	1.6	3.7
CHESTNUT OAK	169	0	1,909	2.2	23	0.3	0.7
WHITE PINE	0	0	0	0.0	0	0.0	0.0
WHITE OAK	17	0	538	0.6	6	0.1	0.2
TOTALS	<u>11,241</u>	<u>0</u>	<u>85,142</u>	<u>100</u>	<u>1,014</u>	<u>13.5</u>	<u>29.1</u>

Total trees less than or equal to 4" dbh to be cut: 9,395

Comments:

All volumes listed are estimates; Dead Mixed Oak sawtimber group includes dead black, red, scarlet, and white oaks. Misc HW sawtimber group includes American Beech, black cherry, hickory, and sassafras. Dead white oak pulp category contains both dead white and dead chestnut oak pulp. Dead red oak pulp category contains dead red oak, dead scarlet oak, and dead black oak pulp.

PA GAME COMMISSION TIMBER SALE STAND AND STOCK TABLE

SALE NAME BOYERS STEAMROLLER
 BLOCK NO. 1,2,3,4
 COUNTY Lebanon
 TOWNSHIP Bethel

SGL NO. 80
 FORESTER NOLL
 DATE 10/20/2015
 ACRES 84

Sawtimber Trees													
SPECIES	BIRCH	BLACK OAK	BLACKGUM	CHESTNUT OAK	DEAD CHESTNUT OAK	DEAD MIXED OAK	MISC HW	N. RED OAK	RED MAPLE	SCARLET OAK	WHITE OAK	YELLOW-POPLAR	Total
10"	0	0	0	0	0	0	0	0	1	0	0	0	1
12"	116	28	63	61	738	27	8	19	80	15	3	2	1,160
14"	87	45	73	52	649	35	8	40	64	22	7	8	1,090
16"	33	51	17	26	348	29	3	38	26	30	8	12	621
18"	9	29	8	14	140	22	2	23	7	14	3	4	275
20"	4	19	0	4	48	8	2	19	1	7	2	9	123
22"	0	7	0	1	11	4	0	6	2	0	2	8	41
24"	0	2	0	0	3	0	0	5	0	0	1	6	17
26"	0	0	0	0	3	0	0	2	0	0	0	6	11
28"	0	0	0	0	2	0	1	0	0	0	0	1	4
30"	0	0	0	0	1	0	0	0	0	0	0	1	2
32"	0	0	0	0	0	0	0	0	0	0	0	1	1
34"	0	0	0	0	0	0	0	0	0	0	0	0	0
36"	0	0	0	0	0	0	0	0	0	0	0	0	0
38"	0	0	0	0	0	0	0	0	0	0	0	0	0
40" +	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	249	181	161	158	1,943	125	24	152	181	88	26	58	3,346

Sawtimber Volume (bdf.)													
10"	0	0	0	0	0	0	0	0	33	0	0	0	33
12"	4,442	1,181	2,462	2,787	30,647	1,087	346	1,025	3,586	608	134	98	48,403
14"	6,413	4,047	5,792	4,316	51,302	3,254	822	4,204	5,596	1,882	675	919	89,222
16"	3,705	7,290	2,270	3,201	42,922	4,038	443	6,363	3,557	3,915	1,202	2,413	81,319
18"	1,360	5,836	1,458	2,186	22,291	4,273	345	5,352	1,598	2,490	640	1,111	48,940
20"	772	4,774	0	904	9,829	1,884	559	5,753	246	1,470	333	2,896	29,420
22"	0	2,320	0	280	2,272	1,044	0	2,171	616	0	734	3,489	12,926
24"	0	495	0	0	1,119	0	0	2,339	0	0	254	2,990	7,197
26"	0	0	0	0	1,116	0	0	764	0	0	0	3,721	5,601
28"	0	0	0	0	543	0	368	0	0	0	0	757	1,668
30"	0	0	0	0	717	0	0	0	0	0	0	879	1,596
32"	0	0	0	0	0	0	0	0	0	0	0	662	662
34"	0	0	0	0	0	0	0	0	0	0	0	0	0
36"	0	0	0	0	0	0	0	0	0	0	0	0	0
38"	0	0	0	0	0	0	0	0	0	0	0	0	0
40" +	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	16,692	25,943	11,982	13,674	162,758	15,580	2,883	27,971	15,232	10,365	3,972	19,935	326,987

Pulpwood Trees													
SPECIES	BLACKGUM	DEAD RED OAK	DEAD WHITE OAK	MISC HW	MIXED OAK	N. RED OAK	RED MAPLE	SUGAR MAPLE	BIRCH	CHESTNUT OAK	WHITE PINE	WHITE OAK	Total
6"	2,230	0	561	214	0	45	984	0	648	0	0	0	4,682
8"	907	34	1,109	190	0	25	298	0	318	66	0	0	2,947
10"	537	35	1,510	37	71	33	154	0	284	97	0	0	2,757
12"	134	14	285	31	0	0	53	0	83	0	0	0	599
14"	21	9	86	0	0	9	0	0	9	0	0	9	144
16"	0	0	39	0	0	0	0	0	0	0	0	7	46
18"	0	0	36	0	0	0	0	0	0	0	0	0	36
20" +	0	0	24	0	0	0	0	0	0	6	0	0	29
Total	3,828	92	3,649	471	71	113	1,489	0	1,342	169	0	17	11,241

Pulpwood Volume (cuft.)													
6"	6,780	0	1,716	673	0	127	2,891	0	2,019	0	0	0	14,207
8"	5,042	243	6,480	1,055	0	180	1,826	0	2,357	439	0	0	17,621
10"	5,200	427	18,175	507	761	402	1,985	0	3,672	1,136	0	0	32,265
12"	2,115	279	5,467	574	0	0	1,089	0	1,723	0	0	0	11,247
14"	500	278	2,491	0	0	278	0	0	259	0	0	271	4,077
16"	0	0	1,443	0	0	0	0	0	0	0	0	267	1,710
18"	0	0	1,885	0	0	0	0	0	0	0	0	0	1,885
20" +	0	0	1,796	0	0	0	0	0	0	334	0	0	2,130
Total	19,638	1,227	39,452	2,810	761	987	7,791	0	10,029	1,909	0	538	85,142

PA GAME COMMISSION TIMBER SALE SUMMARY

SALE NAME	<u>BOYERS STEAMROLLER</u>	SGL NO.	<u>80</u>
BLOCK NO.	<u>1</u>	FORESTER	<u>NOLL</u>
COUNTY	<u>Lebanon</u>	DATE	<u>10/20/2015</u>
TOWNSHIP	<u>Bethel</u>	ACRES	<u>16</u>

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>				
BIRCH	79	23	0	2,185	95	1.9	137
BLACK OAK	81	110	0	18,654	170	16.2	1,166
BLACKGUM	79	3	0	295	98	0.3	18
CHESTNUT OAK	80	13	0	1,412	109	1.2	88
DEAD CHESTNUT OAK	80	308	0	39,950	130	34.7	2,497
DEAD MIXED OAK	81	37	0	5,484	148	4.8	343
MISC HW	82	9	0	1,427	159	1.2	89
N. RED OAK	83	56	0	12,341	220	10.7	771
RED MAPLE	83	95	0	9,357	98	8.1	585
SCARLET OAK	79	5	0	603	121	0.5	38
WHITE OAK	81	25	0	3,832	153	3.3	240
YELLOW-POPLAR	81	55	0	19,593	356	17.0	1,225
TOTALS		739	0	115,133	156	100	7,197

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>
BLACKGUM	0	0	0	0.0	0	0.0	0.0
DEAD RED OAK	16	0	201	3.7	13	0.2	0.3
DEAD WHITE OAK	236	0	3,542	64.3	221	3.0	5.9
MISC HW	0	0	0	0.0	0	0.0	0.0
MIXED OAK	33	0	325	5.9	20	0.3	0.6
N. RED OAK	103	0	709	12.9	44	0.6	1.4
RED MAPLE	98	0	730	13.3	46	0.6	1.4
SUGAR MAPLE	0	0	0	0.0	0	0.0	0.0
BIRCH	0	0	0	0.0	0	0.0	0.0
CHESTNUT OAK	0	0	0	0.0	0	0.0	0.0
WHITE PINE	0	0	0	0.0	0	0.0	0.0
WHITE OAK	0	0	0	0.0	0	0.0	0.0
TOTALS	486	0	5,507	100	344	4.6	9.6

Total trees less than or equal to 4" dbh to be cut: 611

Comments:

Clear Cut; 1) Sawtimber - 100% Tally, 2) Pulp - 10 BAF Prism Cruise

PA GAME COMMISSION TIMBER SALE SUMMARY

SALE NAME	<u>BOYERS STEAMROLLER</u>	SGL NO.	<u>80</u>
BLOCK NO.	<u>2</u>	FORESTER	<u>NOLL</u>
COUNTY	<u>Schuylkill</u>	DATE	<u>10/21/2015</u>
TOWNSHIP	<u>Pine Grove</u>	ACRES	<u>21</u>

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>				
BIRCH	79	28	0	1,672	60	2.8	80
BLACK OAK	81	26	0	2,104	81	3.6	100
BLACKGUM	79	64	0	4,461	70	7.6	212
CHESTNUT OAK	80	43	0	2,712	63	4.6	129
DEAD CHESTNUT OAK	80	514	0	36,128	70	61.5	1,720
DEAD MIXED OAK	81	25	0	2,297	92	3.9	109
MISC HW	82	4	0	488	122	0.8	23
N. RED OAK	83	25	0	2,985	119	5.1	142
RED MAPLE	83	21	0	1,145	55	2.0	55
SCARLET OAK	79	39	0	4,297	110	7.3	205
WHITE OAK	81	1	0	140	140	0.2	7
YELLOW-POPLAR	81	2	0	276	138	0.5	13
TOTALS		792	0	58,705	74	100	2,795

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>
BLACKGUM	1,577	0	8,125	37.5	387	5.2	11.9
DEAD RED OAK	14	0	279	1.3	13	0.2	0.4
DEAD WHITE OAK	900	0	8,812	40.7	420	5.6	11.2
MISC HW	127	0	705	3.3	34	0.4	1.0
MIXED OAK	20	0	254	1.2	12	0.2	0.4
N. RED OAK	0	0	0	0.0	0	0.0	0.0
RED MAPLE	404	0	1,735	8.0	83	1.1	2.5
SUGAR MAPLE	0	0	0	0.0	0	0.0	0.0
BIRCH	235	0	1,316	6.1	63	0.8	1.9
CHESTNUT OAK	52	0	447	2.1	21	0.3	0.7
WHITE PINE	0	0	0	0.0	0	0.0	0.0
WHITE OAK	0	0	0	0.0	0	0.0	0.0
TOTALS	3,328	0	21,672	100	1,033	13.8	29.9

Total trees less than or equal to 4" dbh to be cut: 3,926

Comments:

Clear Cut; 1) Sawtimber - 100% Tally, 2) Pulp - 10 BAF Prism Cruise

PA GAME COMMISSION TIMBER SALE STAND AND STOCK TABLE

SALE NAME BOYERS STEAMROLLER
 BLOCK NO. 2
 COUNTY Schuylkill
 TOWNSHIP Pine Grove

SGL NO. 80
 FORESTER NOLL
 DATE 10/21/2015
 ACRES 21

Sawtimber Trees													
SPECIES	BIRCH	BLACK OAK	BLACKGUM	CHESTNUT OAK	DEAD CHESTNUT OAK	DEAD MIXED OAK	MISC HW	N. RED OAK	RED MAPLE	SCARLET OAK	WHITE OAK	YELLOW-POPLAR	Total
10"	0	0	0	0	0	0	0	0	0	0	0	0	0
12"	11	7	29	21	200	7	1	4	17	5	0	0	302
14"	13	10	28	14	193	10	1	9	3	11	0	1	293
16"	4	6	4	5	82	5	1	8	0	15	1	1	132
18"	0	2	3	3	29	3	1	3	1	5	0	0	50
20"	0	1	0	0	7	0	0	1	0	3	0	0	12
22"	0	0	0	0	2	0	0	0	0	0	0	0	2
24"	0	0	0	0	0	0	0	0	0	0	0	0	0
26"	0	0	0	0	1	0	0	0	0	0	0	0	1
28"	0	0	0	0	0	0	0	0	0	0	0	0	0
30"	0	0	0	0	0	0	0	0	0	0	0	0	0
32"	0	0	0	0	0	0	0	0	0	0	0	0	0
34"	0	0	0	0	0	0	0	0	0	0	0	0	0
36"	0	0	0	0	0	0	0	0	0	0	0	0	0
38"	0	0	0	0	0	0	0	0	0	0	0	0	0
40" +	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	28	26	64	43	514	25	4	25	21	39	1	2	792

Sawtimber Volume (bdf.)													
10"	0	0	0	0	0	0	0	0	0	0	0	0	0
12"	456	300	1,068	875	7,818	264	56	178	767	168	0	0	11,950
14"	768	738	2,189	1,040	13,939	900	83	851	236	879	0	100	21,723
16"	448	680	553	465	9,027	554	150	1,182	0	1,866	140	176	15,241
18"	0	215	651	332	3,734	579	199	528	142	852	0	0	7,232
20"	0	171	0	0	1,082	0	0	246	0	532	0	0	2,031
22"	0	0	0	0	232	0	0	0	0	0	0	0	232
24"	0	0	0	0	0	0	0	0	0	0	0	0	0
26"	0	0	0	0	296	0	0	0	0	0	0	0	296
28"	0	0	0	0	0	0	0	0	0	0	0	0	0
30"	0	0	0	0	0	0	0	0	0	0	0	0	0
32"	0	0	0	0	0	0	0	0	0	0	0	0	0
34"	0	0	0	0	0	0	0	0	0	0	0	0	0
36"	0	0	0	0	0	0	0	0	0	0	0	0	0
38"	0	0	0	0	0	0	0	0	0	0	0	0	0
40" +	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1,672	2,104	4,461	2,712	36,128	2,297	488	2,985	1,145	4,297	140	276	58,705

Pulpwood Trees													
SPECIES	BLACKGUM	DEAD RED OAK	DEAD WHITE OAK	MISC HW	MIXED OAK	N. RED OAK	RED MAPLE	SUGAR MAPLE	BIRCH	CHESTNUT OAK	WHITE PINE	WHITE OAK	Total
6"	957	0	113	0	0	0	338	0	169	0	0	0	1,576
8"	253	0	285	127	0	0	32	0	32	32	0	0	760
10"	324	0	426	0	20	0	20	0	20	20	0	0	831
12"	42	14	56	0	0	0	14	0	14	0	0	0	141
14"	0	0	21	0	0	0	0	0	0	0	0	0	21
16"	0	0	0	0	0	0	0	0	0	0	0	0	0
18"	0	0	0	0	0	0	0	0	0	0	0	0	0
20" +	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1,577	14	900	127	20	0	404	0	235	52	0	0	3,328

Pulpwood Volume (cuft.)													
6"	2,909	0	344	0	0	0	992	0	527	0	0	0	4,773
8"	1,409	0	1,665	705	0	0	194	0	235	210	0	0	4,417
10"	3,140	0	5,123	0	254	0	261	0	262	237	0	0	9,277
12"	667	279	1,081	0	0	0	287	0	293	0	0	0	2,606
14"	0	0	599	0	0	0	0	0	0	0	0	0	599
16"	0	0	0	0	0	0	0	0	0	0	0	0	0
18"	0	0	0	0	0	0	0	0	0	0	0	0	0
20" +	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	8,125	279	8,812	705	254	0	1,735	0	1,316	447	0	0	21,672

PA GAME COMMISSION TIMBER SALE SUMMARY

SALE NAME	<u>BOYERS STEAMROLLER</u>	SGL NO.	<u>80</u>
BLOCK NO.	<u>3</u>	FORESTER	<u>NOLL</u>
COUNTY	<u>Schuylkill</u>	DATE	<u>10/22/2015</u>
TOWNSHIP	<u>Pine Grove</u>	ACRES	<u>24</u>

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				
BIRCH	79	69	0	4,071	59	5.0	170
BLACK OAK	81	26	0	3,260	125	4.0	136
BLACKGUM	79	62	0	4,623	75	5.7	193
CHESTNUT OAK	80	76	0	7,696	101	9.5	321
DEAD CHESTNUT OAK	80	646	0	50,436	78	62.2	2,102
DEAD MIXED OAK	81	23	0	2,943	128	3.6	123
MISC HW	82	8	0	729	91	0.9	30
N. RED OAK	83	21	0	2,886	137	3.6	120
RED MAPLE	83	25	0	1,903	76	2.3	79
SCARLET OAK	79	21	0	2,564	122	3.2	107
WHITE OAK	81	0	0	0	0	0.0	0
YELLOW-POPLAR	81	0	0	0	0	0.0	0
TOTALS		977	0	81,111	83	100	3,381

CUBIC FOOT VOLUME

SPECIES	NO. OF TREES		CU.FT.VOL.	% BY VOLUME	VOLUME BY ACRE		
	MERCH.	CULL			CU.FT.	CORDS	TONS
BLACKGUM	1,199	0	7,005	24.9	292	3.9	9.0
DEAD RED OAK	34	0	243	0.9	10	0.1	0.3
DEAD WHITE OAK	1,562	0	15,462	55.1	644	8.6	17.2
MISC HW	126	0	951	3.4	40	0.5	1.2
MIXED OAK	0	0	0	0.0	0	0.0	0.0
N. RED OAK	0	0	0	0.0	0	0.0	0.0
RED MAPLE	373	0	2,019	7.2	84	1.1	2.6
SUGAR MAPLE	0	0	0	0.0	0	0.0	0.0
BIRCH	197	0	1,585	5.6	66	0.9	2.0
CHESTNUT OAK	62	0	820	2.9	34	0.5	1.0
WHITE PINE	0	0	0	0.0	0	0.0	0.0
WHITE OAK	0	0	0	0.0	0	0.0	0.0
TOTALS	3,554	0	28,085	100	1,170	15.6	33.3

Total trees less than or equal to 4" dbh to be cut: 2,337

Comments:

Clear Cut; 1) Sawtimber - 100% Tally, 2) Pulp - 10 BAF Prism Cruise

PA GAME COMMISSION TIMBER SALE STAND AND STOCK TABLE

SALE NAME BOYERS STEAMROLLER
 BLOCK NO. 3
 COUNTY Schuylkill
 TOWNSHIP Pine Grove

SGL NO. 80
 FORESTER NOLL
 DATE 10/22/2015
 ACRES 24

Sawtimber Trees													
SPECIES	BIRCH	BLACK OAK	BLACKGUM	CHESTNUT OAK	DEAD CHESTNUT OAK	DEAD MIXED OAK	MISC HW	N. RED OAK	RED MAPLE	SCARLET OAK	WHITE OAK	YELLOW-POPLAR	Total
10"	0	0	0	0	0	0	0	0	0	0	0	0	0
12"	36	7	23	22	277	6	3	5	11	5	0	0	395
14"	25	7	29	24	211	4	3	8	10	5	0	0	326
16"	6	3	7	17	111	6	1	4	3	4	0	0	162
18"	2	6	3	9	36	5	1	1	1	5	0	0	69
20"	0	2	0	4	10	2	0	3	0	2	0	0	23
22"	0	1	0	0	0	0	0	0	0	0	0	0	1
24"	0	0	0	0	1	0	0	0	0	0	0	0	1
26"	0	0	0	0	0	0	0	0	0	0	0	0	0
28"	0	0	0	0	0	0	0	0	0	0	0	0	0
30"	0	0	0	0	0	0	0	0	0	0	0	0	0
32"	0	0	0	0	0	0	0	0	0	0	0	0	0
34"	0	0	0	0	0	0	0	0	0	0	0	0	0
36"	0	0	0	0	0	0	0	0	0	0	0	0	0
38"	0	0	0	0	0	0	0	0	0	0	0	0	0
40" +	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	69	26	62	76	646	23	8	21	25	21	0	0	977

Sawtimber Volume (bdf.)													
10"	0	0	0	0	0	0	0	0	0	0	0	0	0
12"	1,404	281	920	1,035	11,690	255	100	267	500	204	0	0	16,656
14"	1,744	646	2,375	1,938	16,988	343	333	856	753	404	0	0	26,380
16"	669	380	910	2,227	13,349	881	150	701	406	553	0	0	20,226
18"	254	1,135	418	1,592	5,986	1,047	146	142	244	905	0	0	11,869
20"	0	530	0	904	2,081	417	0	920	0	498	0	0	5,350
22"	0	288	0	0	0	0	0	0	0	0	0	0	288
24"	0	0	0	0	342	0	0	0	0	0	0	0	342
26"	0	0	0	0	0	0	0	0	0	0	0	0	0
28"	0	0	0	0	0	0	0	0	0	0	0	0	0
30"	0	0	0	0	0	0	0	0	0	0	0	0	0
32"	0	0	0	0	0	0	0	0	0	0	0	0	0
34"	0	0	0	0	0	0	0	0	0	0	0	0	0
36"	0	0	0	0	0	0	0	0	0	0	0	0	0
38"	0	0	0	0	0	0	0	0	0	0	0	0	0
40" +	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	4,071	3,260	4,623	7,696	50,436	2,943	729	2,886	1,903	2,564	0	0	81,111

Pulpwood Trees													
SPECIES	BLACKGUM	DEAD RED OAK	DEAD WHITE OAK	MISC HW	MIXED OAK	N. RED OAK	RED MAPLE	SUGAR MAPLE	BIRCH	CHESTNUT OAK	WHITE PINE	WHITE OAK	Total
6"	611	0	244	61	0	0	244	0	122	0	0	0	1,283
8"	309	34	516	34	0	0	69	0	0	34	0	0	997
10"	176	0	638	0	0	0	44	0	44	22	0	0	924
12"	92	0	122	31	0	0	15	0	31	0	0	0	290
14"	11	0	11	0	0	0	0	0	0	0	0	0	22
16"	0	0	17	0	0	0	0	0	0	0	0	0	17
18"	0	0	14	0	0	0	0	0	0	0	0	0	14
20" +	0	0	0	0	0	0	0	0	0	6	0	0	6
Total	1,199	34	1,562	126	0	0	373	0	197	62	0	0	3,554

Pulpwood Volume (cuft.)													
6"	1,858	0	748	186	0	0	718	0	381	0	0	0	3,891
8"	1,721	243	3,012	191	0	0	422	0	0	228	0	0	5,817
10"	1,705	0	7,681	0	0	0	567	0	568	257	0	0	10,778
12"	1,448	0	2,348	574	0	0	312	0	635	0	0	0	5,317
14"	273	0	325	0	0	0	0	0	0	0	0	0	598
16"	0	0	641	0	0	0	0	0	0	0	0	0	641
18"	0	0	707	0	0	0	0	0	0	0	0	0	707
20" +	0	0	0	0	0	0	0	0	0	334	0	0	334
Total	7,005	243	15,462	951	0	0	2,019	0	1,585	820	0	0	28,085

PA GAME COMMISSION TIMBER SALE SUMMARY

SALE NAME	<u>BOYERS STEAMROLLER</u>	SGL NO.	<u>80</u>
BLOCK NO.	<u>4</u>	FORESTER	<u>NOLL</u>
COUNTY	<u>Schuylkill</u>	DATE	<u>10/26/2015</u>
TOWNSHIP	<u>Pine Grove</u>	ACRES	<u>23</u>

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>				
BIRCH	79	129	0	8,764	68	12.2	381
BLACK OAK	81	19	0	1,925	101	2.7	84
BLACKGUM	79	32	0	2,603	81	3.6	113
CHESTNUT OAK	80	26	0	1,854	71	2.6	81
DEAD CHESTNUT OAK	80	475	0	36,244	76	50.3	1,576
DEAD MIXED OAK	81	40	0	4,856	121	6.7	211
MISC HW	82	3	0	239	80	0.3	10
N. RED OAK	83	50	0	9,759	195	13.5	424
RED MAPLE	83	40	0	2,827	71	3.9	123
SCARLET OAK	79	23	0	2,901	126	4.0	126
WHITE OAK	81	0	0	0	0	0.0	0
YELLOW-POPLAR	81	1	0	66	66	0.1	3
TOTALS		838	0	72,038	86	100	3,132

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>
BLACKGUM	1,052	0	4,507	15.1	196	2.6	6.0
DEAD RED OAK	28	0	504	1.7	22	0.3	0.6
DEAD WHITE OAK	951	0	11,636	38.9	506	6.7	13.5
MISC HW	218	0	1,154	3.9	50	0.7	1.5
MIXED OAK	18	0	183	0.6	8	0.1	0.2
N. RED OAK	9	0	278	0.9	12	0.2	0.4
RED MAPLE	614	0	3,307	11.1	144	1.9	4.4
SUGAR MAPLE	0	0	0	0.0	0	0.0	0.0
BIRCH	911	0	7,128	23.9	310	4.1	9.5
CHESTNUT OAK	55	0	642	2.2	28	0.4	0.9
WHITE PINE	0	0	0	0.0	0	0.0	0.0
WHITE OAK	17	0	538	1.8	23	0.3	0.7
TOTALS	3,873	0	29,877	100	1,299	17.3	37.7

Total trees less than or equal to 4" dbh to be cut: 2,521

Comments:

Clear Cut; 1) Sawtimber - 100% Tally, 2) Pulp - 10 BAF Prism Cruise

PA GAME COMMISSION TIMBER SALE STAND AND STOCK TABLE

SALE NAME BOYERS STEAMROLLER
 BLOCK NO. 4
 COUNTY Schuylkill
 TOWNSHIP Pine Grove

SGL NO. 80
 FORESTER NOLL
 DATE 10/26/2015
 ACRES 23

Sawtimber Trees													
SPECIES	BIRCH	BLACK OAK	BLACKGUM	CHESTNUT OAK	DEAD CHESTNUT OAK	DEAD MIXED OAK	MISC HW	N. RED OAK	RED MAPLE	SCARLET OAK	WHITE OAK	YELLOW-POPLAR	Total
10"	0	0	0	0	0	0	0	0	0	0	0	0	0
12"	63	5	9	14	192	7	1	5	17	4	0	1	318
14"	43	5	16	8	160	15	2	10	16	5	0	0	280
16"	17	4	6	3	74	11	0	16	7	9	0	0	147
18"	4	4	1	1	37	5	0	8	0	3	0	0	63
20"	2	1	0	0	10	1	0	5	0	2	0	0	21
22"	0	0	0	0	2	1	0	3	0	0	0	0	6
24"	0	0	0	0	0	0	0	1	0	0	0	0	1
26"	0	0	0	0	0	0	0	2	0	0	0	0	2
28"	0	0	0	0	0	0	0	0	0	0	0	0	0
30"	0	0	0	0	0	0	0	0	0	0	0	0	0
32"	0	0	0	0	0	0	0	0	0	0	0	0	0
34"	0	0	0	0	0	0	0	0	0	0	0	0	0
36"	0	0	0	0	0	0	0	0	0	0	0	0	0
38"	0	0	0	0	0	0	0	0	0	0	0	0	0
40" +	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	129	19	32	26	475	40	3	50	40	23	0	1	838

Sawtimber Volume (bdft.)													
10"	0	0	0	0	0	0	0	0	0	0	0	0	0
12"	2,340	217	396	696	8,010	306	56	326	721	206	0	66	13,340
14"	3,425	421	1,228	654	12,365	1,417	183	1,110	1,314	503	0	0	22,620
16"	1,895	478	807	373	8,396	1,595	0	2,642	792	1,236	0	0	18,214
18"	733	638	172	131	5,368	944	0	1,877	0	516	0	0	10,379
20"	371	171	0	0	1,621	370	0	1,488	0	440	0	0	4,461
22"	0	0	0	0	484	224	0	1,079	0	0	0	0	1,787
24"	0	0	0	0	0	0	0	473	0	0	0	0	473
26"	0	0	0	0	0	0	0	764	0	0	0	0	764
28"	0	0	0	0	0	0	0	0	0	0	0	0	0
30"	0	0	0	0	0	0	0	0	0	0	0	0	0
32"	0	0	0	0	0	0	0	0	0	0	0	0	0
34"	0	0	0	0	0	0	0	0	0	0	0	0	0
36"	0	0	0	0	0	0	0	0	0	0	0	0	0
38"	0	0	0	0	0	0	0	0	0	0	0	0	0
40" +	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	8,764	1,925	2,603	1,854	36,244	4,856	239	9,759	2,827	2,901	0	66	72,038

Pulpwood Trees													
SPECIES	BLACKGUM	DEAD RED OAK	DEAD WHITE OAK	MISC HW	MIXED OAK	N. RED OAK	RED MAPLE	SUGAR MAPLE	BIRCH	CHESTNUT OAK	WHITE PINE	WHITE OAK	Total
6"	662	0	204	153	0	0	357	0	357	0	0	0	1,732
8"	344	0	258	29	0	0	172	0	286	0	0	0	1,089
10"	37	18	348	37	18	0	73	0	220	55	0	0	807
12"	0	0	38	0	0	0	13	0	38	0	0	0	89
14"	9	9	37	0	0	9	0	0	9	0	0	9	84
16"	0	0	21	0	0	0	0	0	0	0	0	7	29
18"	0	0	23	0	0	0	0	0	0	0	0	0	23
20" +	0	0	21	0	0	0	0	0	0	0	0	0	21
Total	1,052	28	951	218	18	9	614	0	911	55	0	17	3,873

Pulpwood Volume (cuft.)													
6"	2,013	0	623	488	0	0	1,048	0	1,112	0	0	0	5,283
8"	1,912	0	1,506	159	0	0	1,054	0	2,122	0	0	0	6,753
10"	355	226	4,194	507	183	0	946	0	2,842	642	0	0	9,895
12"	0	0	734	0	0	0	260	0	794	0	0	0	1,788
14"	227	278	1,084	0	0	278	0	0	259	0	0	271	2,397
16"	0	0	802	0	0	0	0	0	0	0	0	267	1,069
18"	0	0	1,178	0	0	0	0	0	0	0	0	0	1,178
20" +	0	0	1,515	0	0	0	0	0	0	0	0	0	1,515
Total	4,507	504	11,636	1,154	183	278	3,307	0	7,128	642	0	538	29,877

ESTIMATED TIMBER HARVEST COSTS
BOYERS STEAMROLLER
080-15-01
4/22/16

HAUL ROAD COSTS

ROAD CONSTRUCTION

DISTANCE	250 FT			
DOZER TIME	0.5 X \$	1400 /DAY	\$	700
TEMP. SEEDING COST			\$	50
MISC.			\$	0

ROAD IMPROVEMENT

DISTANCE	5000 FT			
DOZER TIME	2 X \$	1400 /DAY	\$	2800
TEMP. SEEDING COST			\$	50

STONE

TYPE

AASHTO # 3				
HAUL ROAD SURFACE	125 TONS	X \$	13 /TON	\$ 1625
ENTRANCE ROAD	25 TONS	X \$	13 /TON	\$ 325
TONS OF STONE	150 TONS			
TOTAL COST				\$1,950.00

4 STONE CLEAN ASHTO # 1

HAUL ROAD -BASE	100 TONS	X \$	13 /TON	\$ 1300
TONS OF STONE	100 TONS			
TOTAL COST				\$1,300.00

TRAIL CONSTRUCTION

DISTANCE	2510 FT			
DOZER TIME	1 X \$	1400 /DAY	\$	1400

REGRADE ROAD

LINEAR FEET - 5000'	2 DAYS	X \$	1400 /DAY	\$ 2800
MISC. -TEMP SEEDING				\$

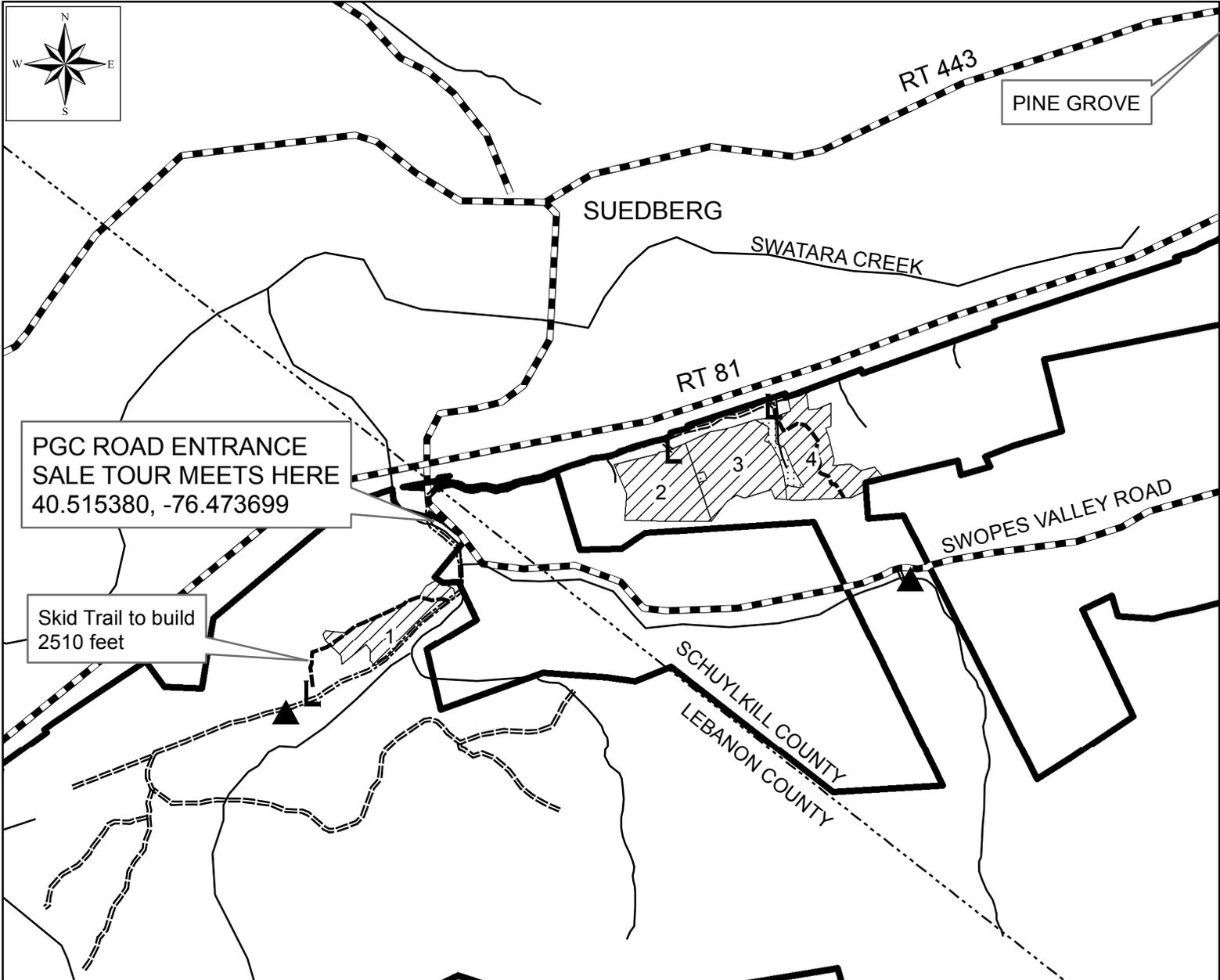
LANDINGS

CONSTRUCT 1/2 ACRE CLEARED				
COST BLOCKS 2 AND 4	2 LANDINGS	X \$	1400 /SITE	\$ 2800
COST BLOCK 1	1 LANDINGS	X \$	600 /SITE	\$ 600
MISC. - TEMP SEEDING				\$

BLOCK CLEAN-UP

SEEDING EROSION AREAS - SKID TRAILS	0.55 ACRES	X \$	300 /ACRE	\$ 165
WATER BARS	1.5 DAYS	X \$	800 /DAY	\$ 1200
LANDING SEEDING	1.5 ACRES	X \$	1600 /ACRE	\$ 2400
MISC. SEEDING OF HAUL ROAD - 4000'	0.9 ACRES	X \$	300 /ACRE	\$ 270

ESTIMATED TOTAL PROJECT COSTS \$ 18485



SGL_Boundary

Timber_Block



Regeneration



Reserves



Log_Landing

PGC_Roads



Administrative Road



Public Road



Seasonal Road



Parking_Area

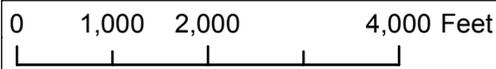


Stream



Trails

BOYERS STEAMROLLER TIMBER SALE
 STATE GAME LANDS 080
 LEBANON & SCHUYLKILL COUNTY
 BETHEL & PINE GROVE TOWNSHIPS
 BLOCK 1 = 16 ACRES
 BLOCK 2 = 21 ACRES
 BLOCK 3 = 24 ACRES
 BLOCK 4 = 23 ACRES
 RESERVE = 1 ACRES
 TOTAL = 85 ACRES
 TREATMENT - CLEARCUT WITH RESIDUALS
 map drawn 4/2016



□ SGL_Boundary

Timber_Block

▭ Regeneration

▨ Reserves

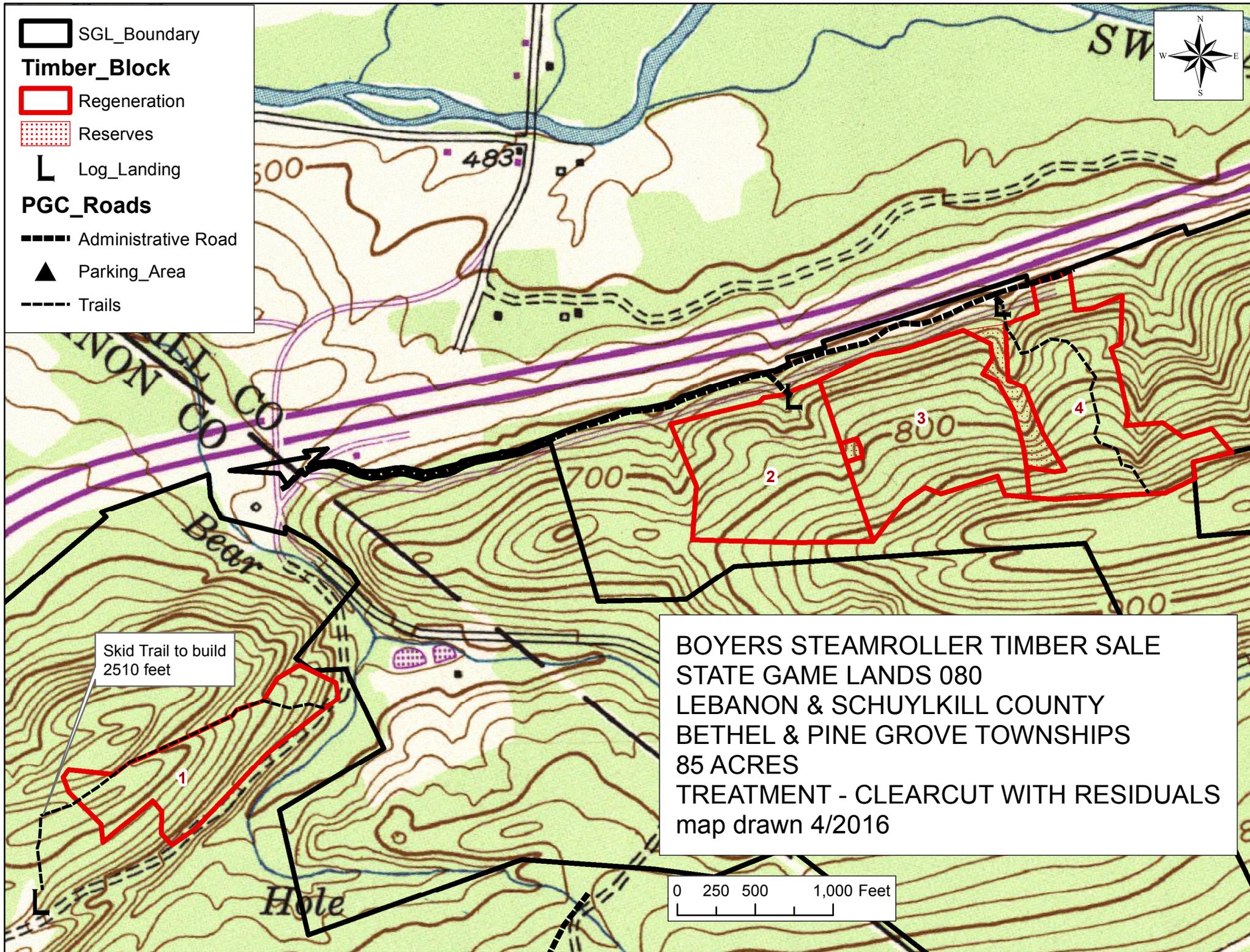
L Log_Landing

PGC_Roads

— Administrative Road

▲ Parking_Area

--- Trails



Skid Trail to build
2510 feet

BOYERS STEAMROLLER TIMBER SALE
STATE GAME LANDS 080
LEBANON & SCHUYLKILL COUNTY
BETHEL & PINE GROVE TOWNSHIPS
85 ACRES
TREATMENT - CLEARCUT WITH RESIDUALS
map drawn 4/2016

0 250 500 1,000 Feet