



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN
TIMBER SALE PROSPECTUS #7174**

SCHEDULED SALE DATE AND TIME: 9:00 a.m. (local time) on December 13, 2022.

LOCATION: ROSCOMMON MGMT UNIT, PO BOX 218, ROSCOMMON, MI 48653.

CONTACT NAME: Doug Bates

PHONE NUMBER: (989) 275-4622

PROSPECTUS NOTE: The bidder is advised to inspect the sale area and review the location, estimated volumes, operating costs and contract terms of proposed sales. Please be aware that some landowners may request 60 days or more notice for access across their land.

Notice is hereby given that bids will be received by the Unit Manager, ROSCOMMON MANAGEMENT UNIT, for certain timber on the following described lands:

Aqua Aspen (71-018-22) / T23N, R01W, SEC. 10, NESW,S1/2SW,NWSE,S1/2SE.

T23N, R01W, SEC. 15, N1/2NW,N1/2NE.

T23N, R01W, SEC. 16, NENE.

T23N, R01W, SEC. 9 , SESE.

Roscommon County, Advertised Price \$69,379.35, 86.5 Acres, Aspen, Hardwood.

SALE NOTE: A recreation site such as a trail, pathway, or campground is within the sale area or the vicinity. Certain restrictions/specifications may be applicable including time restrictions.

TIMBER SALE INFORMATION

Aqua Aspen (71-018-22)

T23N, R01W, SEC. 10; T23N, R01W, SEC. 15; T23N, R01W, SEC. 16; T23N, R01W, SEC. 9.

Roscommon County (Advertised Price \$69,379.35)

SALE NOTE: A recreation site such as a trail, pathway, or campground is within the sale area or the vicinity. Certain restrictions/specifications may be applicable including time restrictions.

A timber sale contract for this lump sum, sealed bid timber sale will be awarded to the responsible bidder offering the highest sealed bid price. All units of volume listed below were estimated using the Inventory Manager computer program and the new Michigan taper model. Bids must be at or above the following advertised price for each product and species:

<u>PRODUCTS & SPECIES</u>	<u>ESTIMATED UNITS*</u>	<u>ADVERTISED PRICE</u>
Sawtimber		
Bl/R/Hybrid Oak	35.6 MBF	\$ 105.00 / MBF
Mixed Aspen	103.1 MBF	\$ 72.00 / MBF
Red Maple	37.1 MBF	\$ 68.00 / MBF
Red Pine	21.3 MBF	\$ 92.00 / MBF
White Oak	24.7 MBF	\$ 52.00 / MBF
White Pine	11.8 MBF	\$ 69.00 / MBF
Pulpwood		
Balsam Fir	122 Cords	\$ 26.00 / Cord
Black Spruce	14 Cords	\$ 17.50 / Cord
Jack Pine	4 Cords	\$ 11.85 / Cord
Mixed Aspen	1,203 Cords	\$ 26.05 / Cord
Mixed Hardwood	741 Cords	\$ 14.40 / Cord
Mixed Oak	227 Cords	\$ 16.20 / Cord
Red Pine	4 Cords	\$ 35.20 / Cord
White Pine	68 Cords	\$ 34.50 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 14.74 percent. There are an estimated 2,981 cords on this timber sale, plus or minus 440 cords at the 95% confidence level. The estimated units are final and not subject to adjustment. Prospective bidders are urged to examine this timber and to make their own estimates of quantity and quality.

BOND AND PAYMENT SCHEDULE:

1. A bond in the amount of \$3,468.97 to insure faithful performance of the conditions of the contract will be deposited by the successful bidder within 21 days of the sale award.
2. Cutting in any sale or unit without the required advance payment would be considered a trespass.
3. Total payment must be paid in advance or according to the following schedule :
 - (a) Ten percent (10%) of the sale value must be paid within 21 days of the sale award.
 - (b) The 10% down payment will be credited towards the first unit cut.
 - (c) Payment for each of the following units must be made before cutting begins in that unit:

PAYMENT UNIT NUMBER	PERCENT OF TOTAL SALE VALUE
01	47.5%
02	24.2%
03	28.3%
4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 12/31/2024.

SALE STATISTICS

Volumes were calculated in cubic feet using the Michigan taper model. Cubic foot volume includes all wood inside bark for the product indicated. For display purposes, cubic feet were converted to cords and MBF using a simple conversion factor, e.g. 79 cubic feet per cord and 185 cubic feet per MBF. The cubic foot volumes are precise; the cords and MBF volumes are not. Cubic foot volume cannot be directly converted to cords or boards with precision.

SALE VOLUMES

The total estimated sale volume may not equal the sum of the species/products due to the nature of statistical calculations associated with double sampling methodology.

VOLUME			STATISTICAL RANGE IN CORDS	
TOTAL CUBIC FEET	TOTAL CORDS	PERCENT ERROR	MINIMUM	MAXIMUM
235,500	2,981	14.74%	2,541	3,421

VDU VOLUMES

A VDU is a Volume Determination Unit. Volumes and their associated statistics are calculated at the VDU level and summarized to the sale level. There is often a one to one relationship between a VDU and a Payment Unit, but not always, depending on the cruise design. Refer to the VDU TO PAYMENT UNIT table.

	VOLUME			RANGE IN CORDS	
VDU	TOTAL CUBIC FEET	TOTAL CORDS	PERCENT ERROR	MINIMUM	MAXIMUM
121	124,447	1,575	20.43%	1,253	1,897
125	111,053	1,406	22.38%	1,091	1,720
TOTAL:	235,500	2,981		2,345	3,617

VDU TO PAYMENT UNIT

When a VDU is associated with more than one Payment Unit (PU), the VDU volumes are assigned to the PU based on acres of the VDU within the PU.

VDU	VDU ACRES	PU	PU ACRES
121	49.3	1	0.2
		2	22.6
		3	26.5
125	37.2	1	37.2
TOTAL:	86.5		86.5

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	BI/R/Hybrid Oak	Sawtimber	9.5	MBF	37.4	\$32,948.20
	Mixed Aspen		69.2	MBF		
	<i>B. T. Aspen</i>		51.9	<i>MBF</i>		
	<i>Quaking Aspen</i>		17.3	<i>MBF</i>		
	Red Maple		37.1	MBF		
	Red Pine	Pulpwood	5.7	MBF		
	White Oak		0.1	MBF		
	White Pine		3.7	MBF		
	Balsam Fir		122	Cords		
	Mixed Aspen		554	Cords		
	<i>B. T. Aspen</i>		184	<i>Cords</i>		
	<i>Quaking Aspen</i>		370	<i>Cords</i>		
	Mixed Hardwood		352	Cords		
	<i>Red Maple</i>		352	<i>Cords</i>		
	Mixed Oak		46	Cords		
	<i>BI/R/Hybrid Oak</i>		46	<i>Cords</i>		
	Red Pine		2	Cords		
	White Pine		5	Cords		
2	BI/R/Hybrid Oak	Sawtimber	12.0	MBF	22.6	\$16,764.05
	Mixed Aspen		15.6	MBF		
	<i>B. T. Aspen</i>		11.8	<i>MBF</i>		
	<i>Quaking Aspen</i>		3.8	<i>MBF</i>		
	Red Pine		7.2	MBF		
	White Oak	Pulpwood	11.3	MBF		
	White Pine		3.7	MBF		
	Black Spruce		6	Cords		
	Jack Pine		2	Cords		
	Mixed Aspen		299	Cords		
	<i>B. T. Aspen</i>		39	<i>Cords</i>		
	<i>Quaking Aspen</i>		260	<i>Cords</i>		
	Mixed Hardwood		179	Cords		
	<i>Beech</i>		5	<i>Cords</i>		
	<i>Red Maple</i>		174	<i>Cords</i>		
	Mixed Oak		83	Cords		
	<i>BI/R/Hybrid Oak</i>		71	<i>Cords</i>		
	<i>White Oak</i>		12	<i>Cords</i>		
	Red Pine		1	Cords		
	White Pine		29	Cords		
3	BI/R/Hybrid Oak	Sawtimber	14.1	MBF	26.5	\$19,667.10
	Mixed Aspen		18.3	MBF		
	<i>B. T. Aspen</i>		13.9	<i>MBF</i>		
	<i>Quaking Aspen</i>		4.4	<i>MBF</i>		
	Red Pine		8.4	MBF		
	White Oak	Pulpwood	13.3	MBF		
	White Pine		4.4	MBF		
	Black Spruce		8	Cords		
	Jack Pine		2	Cords		
	Mixed Aspen		350	Cords		
	<i>B. T. Aspen</i>		45	<i>Cords</i>		
	<i>Quaking Aspen</i>		305	<i>Cords</i>		
	Mixed Hardwood		210	Cords		
	<i>Beech</i>		6	<i>Cords</i>		
	<i>Red Maple</i>		204	<i>Cords</i>		
	Mixed Oak		98	Cords		
	<i>BI/R/Hybrid Oak</i>		83	<i>Cords</i>		

DESCRIPTION OF TIMBER BY PU (PU), CON'T

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
3 con't	White Oak	Pulpwood	15	Cords		
	Red Pine		1	Cords		
	White Pine		34	Cords		
TOTAL:			233.6	MBF		
TOTAL:			2,383	Cords		

Sale Specific Conditions & Requirements

Sale Name: Aqua Aspen

Sale Number: 71-018-22 Seq#: 1

1 - Sale Area

1.2 - Boundaries

1.2.1 - Painted boundaries (9/19)

The sale boundary and Payment Unit boundaries are marked and identified by red and yellow paint. Exterior sale boundary lines against state are marked with red paint. Interior Payment Unit boundaries are marked with yellow paint. Retention patches are marked with red paint; no harvesting activities may occur within these areas. The painted boundary line trees are not Included Timber and are to be protected. Yellow painted trees designating an interior Payment Unit boundary are only to be cut when all surrounding Payment Units have been paid.

2 - Timber Specifications

2.1 - Included Timber

2.1.1 - Clearcut unit(s) with unmerchantable trees (6/14)

Within Payment Unit(s) 1-3, cut all trees that are one (1) inch or more at DBH, except trees marked with green paint above and below stump height.

2.2 - Utilization

2.2.3 - Stump heights (4/07)

Stump heights within the Sale Area shall not exceed 12 inches for trees greater than 10 inches DBH and 4 inches for trees smaller than 10 inches DBH.

3 - Payments

3.3 - Pre-measured Sales

3.3.4 - Dividing payment units (7/14)

Payment Unit(s) may be divided at the request of the Purchaser and upon approval of the Unit Manager. Dividing Payment Units is a contract modification which requires a Timber Sale Contract Amendment.

3.4 - Damaged Timber

3.4.1 - Damaged timber (7/16)

General Condition and Requirement 3.4 Damaged Timber, defines liquidated damages for undesignated live merchantable trees which are cut or injured. In addition, within all Payment Units, if chipping occurs in a Payment Unit, chipping must be completed before the sprouting of new regeneration. If more than 33% of the newly sprouted tree seedlings within a specified portion of the Sale Area are damaged, liquidated damages will be assessed at \$300 per acre for all acreage within that specified portion of the Sale Area that was damaged.

4 - Transportation

4.1 - Construction

4.1.6 - Road construction (1/09)

Construction of new roads or improvements of existing roads shall be done in such a way as to minimize the environmental and visual impacts. Merchantable trees shall be cut and utilized unless otherwise directed. Non-merchantable trees shall be severed and laid flat on the ground. Slash shall be scattered, and not left in windrows and kept a minimum of 10 feet back from the road edge. Stumps shall be set upright, not left on edge, and be moved at least 10 feet away from the road edge. Disturbed soil shall be feathered into the woods and not left in berms or windrows.

4.1.7 - Road closure (10/11)

All new roads built into the sale must be blocked to vehicle traffic upon completion of the sale. Overgrown roads that are reopened shall be considered new roads. In general, this will require constructing a four (4') foot high berm of stumps and

logs covered with earth. These roads must be rendered impassable to cars and trucks. Contact the sale administrator for specific details of design and placement.

4.2 - Maintenance

4.2.3 - Road maintenance (8/13)

The following road maintenance may be needed: Within 60 days of completion of hauling, or if no hauling occurs for 60 days, the road must be maintained and graded to the condition prior to usage. This includes cleaning of drainage areas, grading, crowning and filling with gravel, if necessary. Damages will be assessed if grading/repair does not occur.

4.2.5 - Two wheel drive condition (2/04)

All existing trail roads on and adjacent to the sale area must be passable by two-wheel drive traffic for the duration of the sale.

5 - Operations

5.1 - Notification

5.1.1 - Pre-sale conference (10/16)

A pre-sale conference between the Purchaser and sale administrator is required prior to beginning any operations to determine landing and road locations. The Unit Manager or his/her representative must be contacted in advance to schedule the conference.

5.1.4 - Post-sale conference (10/16)

A post-sale conference on site between the Purchaser and sale administrator is required prior to the completion of active logging operations to determine clean-up and repair of landings, road edges, and the fulfillment of other contract specifications.

5.2 - Conduct of Operations

5.2.1 - Slash

5.2.1.8 - Slash height (12/08)

No slash or tree tops may exceed 24 inches in height. If not chipped, slash and tops must be scattered evenly throughout the sale area and may not be left in distinct windrows or piles from harvesting operations.

5.2.3 - Operating Restrictions

5.2.3.5 - Oak wilt restriction (1/18)

Within the sale area, unless changed by written agreement, cutting, skidding, hauling within the sale and brushing of access roads to the sale are not permitted during the period of April 15 to July 15. Operations may be allowed if specific steps are taken to prevent damaging uncut oak during the high risk period. Those steps may include completing all road brushing before April 15th and clearing a tree-length buffer along uncut oak cover before April 15th. This is necessary to reduce the spread of oak wilt. For more information, contact the Unit Manager or his/her representative.

5.2.3.11 - Coppice regeneration protection (4/10)

Timber harvesting in any Payment Unit must be completed before significant aspen sprouting occurs in that Payment Unit so as to minimize damage to the new regeneration. Any post harvest operations, such as chipping, must be completed before sprouting of regeneration occurs. Should damages occur to the new regeneration, the damages will be assessed per Specification 3.4.1 - Damaged Timber. If it is anticipated that chipping will be delayed, then tops shall be carried to one central location, preferably the landing. A third-party entity may be brought in to chip the tops/slash, before new sprouting occurs, should the contract holder fail to present in a timely manner arrangements approved by the Unit Manager for protecting the new regeneration. The Unit Manager or his/her representative may also cease such operations if sprouting occurs before the operation is complete and the Payment Unit(s) will be counted as incomplete with liquidated damages assessed accordingly.

5.2.4 - Dead and Down Creation

5.2.4.4 - Dead and down creation, grouse (6/18)

To encourage grouse and other wildlife, in Payment Unit(s) 1, 2, and 3, leave one 9" diameter or larger log-length (8 foot minimum) piece on the ground for every 4 acres. These trees will be evenly scattered throughout the unit, preferably at least two chains from any roads, two-tracks, or trails open to vehicles. This can be an unmerchantable piece or a full

tree.

5.2.17 - Timber Mats and Interlocking Composite Mats (10/20)

Some skid trails may require extra protection such as that afforded by timber mats or another approved system. If available, mats may be borrowed from the DNR. A Timber Sale Contract Supplement will be used to document the Purchaser's use of the DNR's mats. Contact the sale administrator regarding availability and pick-up. The Purchaser is responsible for picking up and hauling the mats to and from the site. All mats must be cleaned prior to drop off. This may include, but is not limited to, power washing and brushing to remove mud and debris. A charge of \$700.00 per timber mat may be assessed for all damaged or non-returned mats. Damage for the crane/timber mats is defined as three or more broken cants. Damage for the composite mats is defined as cracked or broken mats.

5.2.32 - Decking/landing restoration (9/13)

All decking and landing areas must have the surface area restored to a condition equal to or better than before. This is to ensure the proper regeneration of the stand. Wood debris, chips and "cookies" from trimmings must be removed or scattered away from landing and loading areas and may not be windrowed on the edge.

5.2.39 - ORV trail/route protection (4/18)

There is an ORV trail that is shown on the Timber Sale Map. Trees with yellow ORV markers shall be cut off above the markers and at least 5 feet above ground. Do not run equipment down the ORV trail or route. Skidding across the trail or route may only occur in locations approved by the sale administrator.

6 - Safety and Fire Prevention

6.2 - Signing

6.2.1 - Road posting (10/20)

The Purchaser is responsible for posting and maintaining caution signs on F-97 prior to beginning operations. The road must be posted at appropriate distances from the sale area to warn of logging activity and truck traffic. Signs must be removed when harvest operations are suspended or completed. The Purchaser will provide these signs.

6.2.3 - Recreational trail posting (10/20)

The Purchaser is responsible for posting and maintaining caution signs on the ORV trail prior to beginning operations. The trail must be posted to warn of logging activity and truck traffic at both ends of the trail. Signs must be removed when harvest operations are suspended or completed.



TIMBER SALE MAP

This information provided by authority of Part 525, 1994 PA 451, as amended.

Sale Number

71 - 018

Year

22

Forest Management Unit

Roscommon

County

Roscommon

Mapped By

Martell

Date

8/25/22

Page

1

of

1

Township

23N

Range

01W

Section(s) and Subdivision(s)

Sec. 10 - NESW, S1/2SW, NWSE, S1/2SE; Sec. 15 - N1/2NW, N1/2NE;

Sec. 9 - SESE; Sec. 16 - NENE

Scale

1:15,840

Cover Type

A = Aspen
B = Paper Birch
C = Cedar
D = Treed Bog
E = Swamp Hdwoods
F = Spruce Fir
G = Grass

H = Hemlock
J = Jack Pine
L = Lowland Brush
LM = Lowland Mixed
M = Mpl, Bch, Brch
MC = Mixed Conifer
MD = Mixed Deciduous

N = Marsh
O = Oak
P = Lowland Poplar
Q = Mixed Swamp Conifer
R = Red Pine
S = Black Spruce
T = Tamarack

U = Upland Brush
UM = Upland Mixed
V = Bog or Marsh
W = White Pine
X = Non Stocked
Z = Water

Density

0 = Non Stocked
1 = Seedling Sapling Poor
2 = Seedling Sapling Medium
3 = Seedling Sapling Well
4 = Pole Timber Poor

5 = Pole Timber Medium
6 = Pole Timber Well
7 = Saw Timber Poor
8 = Saw Timber Medium
9 = Saw Timber Well

PU Acres

1 37.4

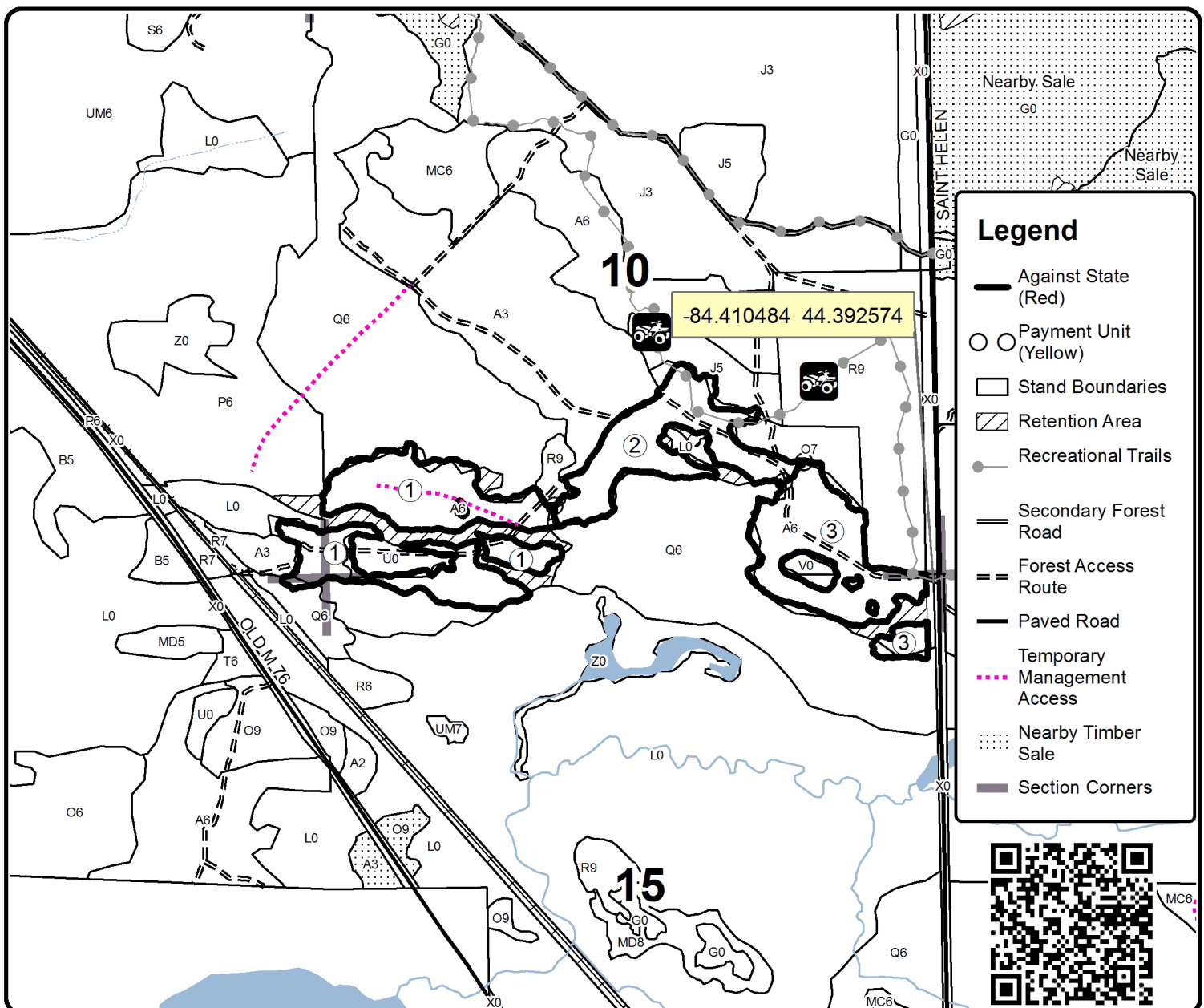
2 22.6

3 26.5

Aqua Aspen

Compartment 59

86.5 Acres



0 0.125 0.25 0.5 0.75 1 Miles