

**Good Neighbor Authority
Wisconsin Department of Natural
Resources**

Lakewood/Laona Ranger District
Chequamegon-Nicolet National Forest
T31N,R17E Sec. 22, 27
Oconto County, WI

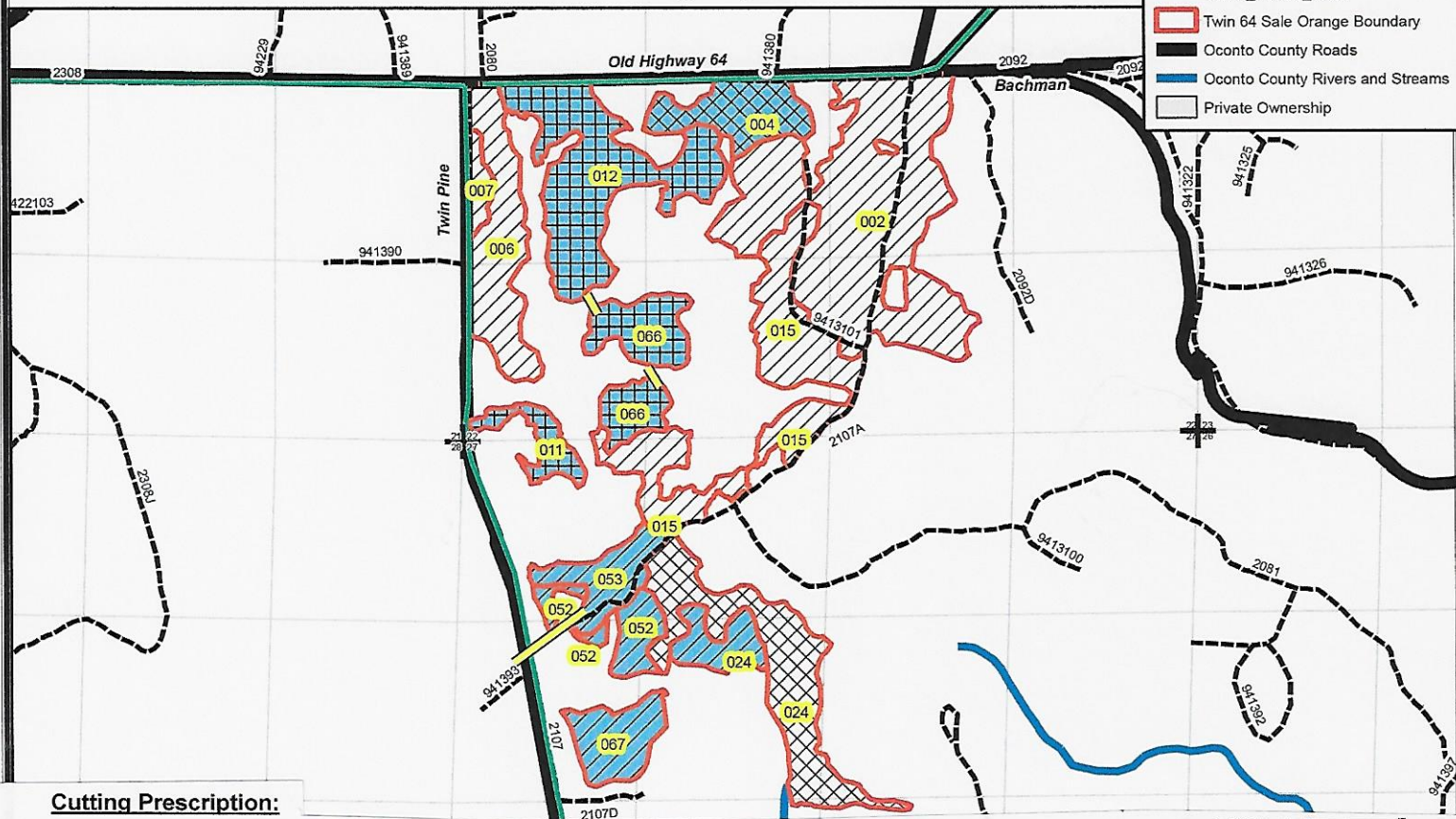
**Twin 64 Sale
Tract No: 8002-9-19**

185 Total Acres

DNR Contacts:
Avery Jehnke – 920-604-5631
Mapped by: Lietz 1/28/19

Legend


-  Section Corner
-  Powerlines
-  Pipelines
-  USFS TRAILS LAYER
-  CNNF_MVUM_Road
-  Twin 64 Sale Orange Boundary
-  Oconto County Roads
-  Oconto County Rivers and Streams
-  Private Ownership




Cutting Prescription:

8 inches = 2 miles


Thinning Areas: Stand 4089-002,006,007,015,024,052,053,067 (117 acres)

- 
 - Harvest all trees marked in **Blue Paint**
 - Remove nearly all down, root sprung, tipped (over 10% lean), bent over, broken off or badly damaged trees including ones marked with orange paint.
 - Harvest all trees marked with blue paint.
 - Leave between 5 and 10 scattered snags per acre if available. Snags should be at least 10 inches in diameter and 10 feet high. If there are not sufficient snags available, leave down logs at least 10 feet long and 10 inches in diameter, if available, to supplement for the lack of snags.


Designated Area: Stand 4089-011,012, 066 (39 Acres)

- 
 - **In all Stands**-Harvest all trees marked in **Blue Paint**
 - **In all Stands**- Remove nearly all down, root sprung, tipped (over 10% lean), bent over, broken off or badly damaged trees including ones marked with orange paint.
 - **In all Stands**- Leave between 5 and 10 scattered snags per acre if available. Snags should be at least 10 inches in diameter and 10 feet high. If there are not sufficient snags available, leave down logs at least 10 feet long and 10 inches in diameter, if available, to supplement for the lack of snags.
 - **In stand 4089-012-** Harvest all jack pine and black spruce
 - **In stands 4089-011 and 066-** Harvest all aspen, white birch, jack pine, and black spruce


Shelterwood Area: Stand 4089-004, 024 (29 Acres)

- 
 - Harvest all trees 1" and greater except designated trees marked with **Orange Paint**.
 - Remove nearly all down, root sprung, tipped (over 10% lean), bent over, broken off or badly damaged trees including ones marked with orange paint.

- **In stand 4089-004 all advance regeneration of white pine, and oak is reserved and shall not be cut**
- **In stand 4089-024 all advance regeneration of red pine, white pine, and oak is reserved and shall not be cut**

- 
 - In stands 4089-04, 011, 012, 024, 052, and 053, 066, and 067 Frozen ground harvesting only.

- **Twin Pine Road and Old Hwy 64 Road are ATV trails-Hauling/Decking Restrictions apply. See 1:15,840 prospectus for details**

- 
 - **Yellow Paint Lines delineate potential wet ground crossings. Slash mats and frozen ground conditions only**





Good Neighbor Authority
Wisconsin Department of Natural Resources
 Lakewood/Laona Ranger District
 Chequamegon-Nicolet National Forest

Twin 64 Sale- Prospectus
Tract No.: 8002-9-19

Location: Oconto, WI

31N	R17E	22	SW 1/4 , NWSE SWSE
31N	R17E	27	SWNE, NW 1/4 , NWSE

Estimated Volumes and Values

Species	Pulp	Logs (MBF)
Red Pine ¹	3650 Tons	
White Pine ²	1100 Tons	
Mix Conifer (CX) ³	1200 Tons	
Mixed Hardwood (MX) ⁴	1550 Tons	
Aspen	330 Tons	
Red Oak	70 CORDS	
Mixed Hardwood (MX) ⁵		40
Red Oak ⁶		40
TOTALS	7830 Tons and 70 Cords	80 MBF
Minimum Acceptable Bid: \$ 54,580.00		

Plots were taken on a 3 chain grid and plot data includes measuring individual tree diameter and # of 8' sticks per tree to calculate volumes. **Additional volume was added to original cruise estimates, accounting for damaged timber resulting from the July 19, 2019 storm.**

- 1 Red pine contains 380 MBF red pine sawtimber converted to cords at rate of 2.44 cords per MBF. Also contains 690 cords of pulp. Sawtimber and pulp converted from cords to tons at rate of 2.25 tons per cord.
- 2 White pine contains 90 MBF white pine sawtimber converted to cords at rate of 2.44 cords per MBF. Also contains 310 cords of pulp. Sawtimber and pulp converted from cords to tons at rate of 2.1 tons per cord.
- 3 CX pulp contains 520 cords and consists of 70% black spruce, 25% jack pine and 5% tamarack converted to tons.
- 4 MX pulp contains 680 cords and consists of 90% red maple, 5% white birch and 5% black cherry converted to tons.
- 5 MX logs contains 82% red maple, 10% black ash, and 8% white birch.
- 6 OR pulp contains 90% pin oak and OO logs contain 72% Northern red oak and 28% scrub oak.

Sale Conditions:

- Mill Scale Sale
- No bid bond required
- A performance bond of 15% of the total sale bid value required
- The cutting area is approximately **185 acres**
- **The contract period is 2 years**
- Sale bounded by **Orange** paint. See sale maps for specifics
- Do not harvest trees, drop slash, or operate equipment across **Orange** paint line

- No cutting or skidding in areas outlined with **2 or 3 Orange Dots**
- Damage to any residual trees will not be tolerated
- Leave all standing snag and den trees that do not pose a safety hazard
- Utilization will be to a 4" top

Cutting Prescription:

Thinning Areas: Stand 4089-002,006,007,015,024,052,053,067 (117 acres)

- Harvest all trees marked in **Blue Paint**
- Remove nearly all down, root sprung, tipped (over 10% lean), bent over, broken off or badly damaged trees including ones marked with orange paint.
- Harvest all trees marked with blue paint.
- Leave between 5 and 10 scattered snags per acre if available. Snags should be at least 10 inches in diameter and 10 feet high. If there are not sufficient snags available, leave down logs at least 10 feet long and 10 inches in diameter, if available, to supplement for the lack of snags.

Designated Area: Stand 4089-011,012, 066 (39 Acres)

- **In all Stands-**Harvest all trees marked in **Blue Paint**
- **In all Stands-** Remove nearly all down, root sprung, tipped (over 10% lean), bent over, broken off or badly damaged trees including ones marked with orange paint.
- **In all Stands-** Leave between 5 and 10 scattered snags per acre if available. Snags should be at least 10 inches in diameter and 10 feet high. If there are not sufficient snags available, leave down logs at least 10 feet long and 10 inches in diameter, if available, to supplement for the lack of snags.

- **In stand 4089-012- Harvest all jack pine and black spruce**

- **In stands 4089-011 and 066- Harvest all aspen, white birch, jack pine, and black spruce**

Shelterwood Area: Stand 4089-004, 024 (29 Acres)

- Harvest all trees 1" and greater except designated trees marked with **Orange Paint**.
- Remove nearly all down, root sprung, tipped (over 10% lean), bent over, broken off or badly damaged trees including ones marked with orange paint.
- **In stand 4089-004 all advance regeneration of white pine, and oak is reserved and shall not be cut**
- **In stand 4089-024 all advance regeneration of red pine, white pine, and oak is reserved and shall not be cut**

Special Conditions:

- **NO SALE MAY BEGIN WITHOUT PRIOR NOTIFICATION AND AN ON-SITE MEETING WITH A WISCONSIN DNR SALE ADMINISTRATOR.**
- **In stands 4089-004, 011, 012, 024, 052, 053, 066, and 067 Frozen ground harvesting only.**
- **Yellow Paint Lines delineate potential wet ground crossings. Slash mats and frozen ground conditions only**
- Purchaser required to post signs on USFS roads alerting recreationalists of logging activities.
- Equipment must be cleaned before entering and leaving sale area to prevent the introduction/spread of invasive species.
- All slash shall be lopped and scattered as it lies within 2' of the ground.
- **Stands 4089-002, 004, 006, 007, 011, 012,015, 052, 053, 066, 067 require Special HRD Treatment** - To prevent the introduction and/or spread of Heterobasidion Root Disease also known as Annosum root rot, borax-based products, such as Sporax® or Cellu-Treat® should be applied (according to label instructions and FS Special Provision R9-CT6.41#) to all conifer stumps within 24 hours of harvest. Treatment is required during harvest activities from April 1 to Dec 31
- All pine products cut between May 1 and September 1 must be removed from the sale area within three weeks from time of cutting. Pine products cut during the remainder of the year must be removed prior to May 1 of each year.

- Within a 10' wide strip from the edge of the opening along Old Hwy 64 and Twin Pine Road all slash resulting from Purchaser's operations shall be removed.
- Chequamegon-Nicolet Forest Plan requires that all native surfaced approaches to paved or graveled roads have 100 ft. of gravel, 6 in. deep, 12 ft. wide put down when used during non-frozen conditions.
- The location and clearing widths of all Temporary Roads shall be agreed to in writing before construction is started. "Temporary Roads" are roads other than Specified Roads that are constructed by Purchaser for the purpose of harvesting included timber.
- When two or more commercial users are simultaneously using the same road, the commercial users will develop maintenance responsibilities and arrangements for accomplishing the work. Seller must agree to this plan. If the commercial users cannot agree on maintenance responsibilities, seller shall resolve the differences.
- Hauling is prohibited on the ATV/Snowmobile Trails on, weekends starting noon on Friday, through midnight Sunday, Federal Holidays, and between Christmas Day and New Year's Day.
- The following roads will be decommissioned after use and closed with a berm. Berms must be constructed at designated locations by DNR Sale Administrator and shall be created using the following design features: Berms must be at least four feet in height and must be made with dirt mixed with rocks, stumps, logs, root-wads, or slash and shall be created without creating a defined trench.
 - **Road 9413101**

Road Restrictions List

Road Number	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
2107D		Twin Pine Road	End Of Use	R	1. Used only during surface firm or frozen conditions
2107A		Twin Pine Road			
9413101		2107A			
2107	Twin Pine Road	Old Hwy 64 Road	End Of Use	RA	1. Used only during surface firm or frozen 2. Hauling is prohibited on the ATV/Snowmobile Trails on, weekends starting noon on Friday, through midnight Sunday, Federal Holidays, and between Christmas Day and New Year's Day.
2308	Old Hwy 64 Road	Twin Pine Road	End Of Use	RA	1. Used only during surface firm or frozen 2. Hauling is prohibited on the ATV/Snowmobile Trails on, weekends starting noon on Friday, through midnight Sunday, Federal Holidays, and between Christmas Day and New Year's Day.

Road Maintenance Requirements Summary

Purchaser shall maintain roads, commensurate with Purchaser's use. Roads must be left in as good or better condition than existed prior to harvest. Performance of road maintenance work by Purchaser may be required prior to, during, or after each period of use. The timing of work accomplishment shall be based on Purchaser's operating schedule and road conditions. Specific required road maintenance specifications are included below.

Purchaser shall maintain roads in accordance with the following Contract Road Maintenance Requirements Summary:

Road	Termini		Miles	Timing: - Pre-haul - During - Post haul	Applicable Road Maintenance Specifications		
	From	To			8110	8420	8130
2107D	Twin Pine Road	End of Use	0.1	Pre-Haul During Post Haul	X	X	
2107A	Twin Pine Road	End of Use	1	Pre-Haul During Post Haul	X	X	X
9413101	2107A	End of Use	0.5	Pre-Haul During Post Haul	X	X	X

Specification No.	Specification Title
T-8110	Maintenance Blading/Grading
T-8420	Cutting Roadway Vegetation
T-8130	Spot Surface Course Placement/Replenishment

T-8110: Maintenance Blading/Grading is keeping an aggregate surfaced Roadbed in a condition to facilitate traffic and provide proper drainage. It includes maintaining the Crown, Inslope or Outslope of the Traveled Way, Turnouts, and Shoulder; repairing Berms; blending approach road intersections; and cleaning Drainage Dips and Lead-off Ditches.

T-8420: This work includes removal of brush, trees and other vegetative growth from within the clearing limits. This may include brush mowing of shoulders to prevent larger growth which would inhibit travel in the future.

T-8130: This work includes subgrade preparation, furnishing, hauling, spreading, and shaping materials in accordance with USFS requirements. Only commercial sources of aggregate will be accepted, except surfacing material may also be purchased from the government, where available, by filling out a form, 2600, paying the required fees, and obtaining a permit.