

TIMBER MARKING INFORMATION: This timber sale contains sixteen (16) Payment Units with timber designated for cutting. In Payment Unit 2, 4, 8, & 10, included timber is designated using the Leave Tree Marking (LTM) method. Trees to be **left** are designated with an ORANGE band and stump spot. All other live pine trees meeting minimum merchantability specifications listed in AT2 are included timber and to be removed. In Payment Units 1, 3, 5, 6, 7, 9 & 11-16, trees designated for cutting are Cut Tree Marked (CTM) and are designated with paint marks at about eye level and on the stump. Sawtimber trees have two stump spots and small roundwood trees have one stump spot. Potential purchasers should pay special attention to the orange painted unit boundaries. **Unless designated by the Forest Service, trees will not be removed outside these designated boundaries.**

Cut Trees in this sale area are designated as indicated below:

Type	Markings	Payment Unit(s)
Cut Trees	Yellow Paint	1, 9, 11, 13, 14, 15
Cut Trees	Blue Paint	3, 5, 7
Cut Trees	Green Paint	6, 12
Road ROW	Pink Paint	16

Cut Tree Marking (CTM): Payment Units 1, 3, 5, 6, 7, 9 & 11- 16 were cruised and volumes estimated utilizing the Sample Tree Measurement method. Sampling intervals for the various products/diameter classes are listed under the Volume and Sampling information table.

Leave Tree Marked: In Payment Unit 2, 4, 8, & 10, included timber is designated using the Leave Tree Marking (LTM) method. Trees to be **left** are designated with an ORANGE band and stump spot. All other live pine trees meeting minimum merchantability specifications listed in AT2 are included timber and to be removed.

Payment Unit 2, 4, 8, & 10 was cruised with a 20 BAF prism using the PCMTRE method. Ninety six (96) variable radius plots were taken and volume estimated on approximately 192 acres.

VOLUME AND SAMPLING INFORMATION: Timber volumes are based on the cubic foot tree measurement rule. Sawtimber and Pulpwood volume were determined from tree measurement volume equations for the Davy Crockett National Forest. Sample tree cruise procedures were used to estimate hundred cubic foot (CCF) volumes in all Payment Units. Sawtimber volume to be sold reflects reduction for defect.

The pine sawtimber is approximately 83% Loblolly pine and 17% Shortleaf pine.

VOLUME AND SAMPLING INFORMATION: The following methods were used to estimate timber volume and data:

Payment Units	Species/Product	Sample Tree Measurement		100% Tree Measurement
		DBH Range Sampled	Sample Interval	DBH Range
2, 4, 8, & 10	Softwood-Other	5.0" – 10.9"	1/20 Acre Plots. Count all trees on the plot; measure 1 st Pine tree to right of travel line.	N/A
2, 4, 8, & 10	Pine Sawtimber	11.0"+	1/20 Acre Plots. Count all trees on the plot; measure 1 st Pine tree to right of travel line.	N/A
1,3, 5-7, 9, 11-16	Softwood-Other	5.0" – 10.9"	1 in 100	N/A
1,3, 5-7, 9, & 11-16	Hardwood Pulpwood	6.0" – 11.9"	1 in 200	N/A
1,3, 5-7, 9, 11,16	Hardwood Sawtimber	12.0"- 17.9"	1 in 10	N/A
1,3, 5-7, 9, & 11-16	Hardwood Sawtimber	18.0" +	1 in 1	18" +
1,3, 5-7, 9, & 11-16	Pine Sawtimber	11.0"- 16.9"	1 in 80	N/A

		<u>Sample Tree Measurement</u>		<u>100% Tree Measurement</u>
1,3, 5-7, 9, & 11,-16	Pine Sawtimber	17.0"-20.9"	1 In 40	N/A
1,3, 5-7, 9, & 11-16	Pine Sawtimber	21.0"- 24.9"	1 In 4	N/A
1,3, 5-7, 9, &11-16	Pine Sawtimber	25.0"+	1 In 1	25.0"+

RELEASE OF PAYMENT UNITS FOR CUTTING: Purchaser must get a written release from the Forest Service before entering any payment unit. Before a payment unit can be accepted as completed, cutting and all other contract obligations must be completed.

USE OF ROADS: Trucks used for hauling timber from this sale over roads under Forest Service jurisdiction are subject to State and County load, weight, length, height and width limitations. Any exceptions to these limitations are posted by individual road or road segment. Prospective bidders are urged to check out any questions on haul route with the District Ranger before submitting bids.

ROAD MAINTENANCE: The purchaser will be required to perform road maintenance on roads used, which the Forest Service maintains, commensurate with purchaser's use of such roads. Road maintenance requirements are estimated for a proposed haul route. Any change from the proposed haul route may necessitate a change in the roads to be maintained or in the amount of required deposit for road maintenance. The estimated cost of road maintenance has been allowed for the appraisal. **See contract special provisions KT-FT.3.1# for additional information.**

EQUIPMENT CLEANING: Prior to moving Off-Road equipment onto the Sale Area, Purchaser shall inform the Forest Service of the most recent area of equipment use due to the presence of invasive species (Cogon Grass) within Jasper County and western Louisiana. If equipment has been used within areas containing Cogon Grass, cleaning of Off-Road equipment will be required prior to moving on the Sale Area.

Off-Road equipment includes all logging and construction equipment, EXCEPT for log trucks, chip vans, service vehicles, water trucks, pickup trucks, cars and similar vehicles. **See contract provision, GT3.5 for additional information.**

TEMPORARY ROADS and Landings: The location and clearing widths of all temporary roads and landings shall be approved by the Forest Service before construction or use is started. Identification and location of temporary roads and landings must be made three business days in advance, in order to be approved. The estimated quantity of timber in this sale does not include timber within the clearing limits of Temporary Roads. Any additional timber requiring removal will be designated by the Forest Service and paid for at contract rates prior to cutting. Purchaser shall maintain all erosion control structures such as waterbars and broad-based dips in a functional condition during operations. Purchaser shall reshape road surface and close all Temporary Roads prior to prolonged periods of non-use or when use is completed. Outside berms shall be removed by pulling the material back onto the road surface. Prior to final road closure, unless otherwise agreed, the road surface shall be ripped or scarified to reduce runoff and aid in revegetation.

EROSION CONTROL: Purchaser will install waterbars as logging in a payment unit and use of roads is completed. At this time, temporary and skid roads will be bladed to pull outside berms, reshape road surface to assure adequate surface drainage, construct waterbars where designated, and install barricades to block temporary roads to normal vehicular traffic where designated.

The purchaser shall also install temporary waterbars if logging operations are stopped for prolonged periods prior to completing a payment unit. The Forest Service will not perform such temporary waterbarring work.

Where waterbars or similar measures won't provide satisfactory erosion control, purchaser shall vegetate areas where soil disturbance will result in soil losses from erosion. Areas specified by the Forest Service will be fertilized with 300 pounds of 13-13-13 commercial fertilizer (or equivalent) per acre and seeded in accordance with the sample contract Special Provision KT-GT.6.0.1# specifications.

NORMAL OPERATING SEASONS: The normal operating season for each payment unit is as follows:

Payment Units: All, August 1 thru March 31

With Forest Service approval, logging, road construction or maintenance, and erosion control operations may occur outside the normal operating season when ground conditions permit operations without undue damage to forest resources.

SLASH DISPOSAL: Purchaser will be required to remove all logging slash and other debris resulting from logging operations off cleared pipelines and powerline rights-of-way, off road surfaces, shoulders, and draining ditches, off trails, and out of protected streamcourses shown on the Sale Area Map. If slash is deposited on other ownership, Purchaser shall promptly remove such logging slash. See Special Provision KT-GT.7# for additional requirements.

DIRECTIONAL FELLING: Unless otherwise agreed in writing. Purchaser shall fell trees away from protected streamcourses, improvements, and public roads. This applies to all payment units as shown on the Sale Area Map.

PROTECTION OF SPECIAL AREAS: Within the sale area are Red Cockaded Woodpecker Clusters (RCW). Logging operations are restricted within the RCW Clusters. **Unless otherwise agreed by the Forest Service in writing, operations will only occur within RCW Clusters when a designated Forest Service representative is present. There will be no logging operations conducted within active RCW Clusters during nesting season.(April 1- July 31). Logging will be permitted in inactive clusters with US Fish And Wildlife Permission.** RCW cavity trees are Reserve Trees and are designated by a White band of paint at eye level and a white spot at ground level.

See Special Provision KT-GT.2.2.3# for additional requirements

PROTECTION OF STREAMCOURSES: Culverts or temporary bridges will be required where temporary and skid roads cross protected streamcourses shown on Sale Area Map unless otherwise agree. The location of these crossings shall be approved in advance by the Forest Service. Purchaser shall furnish and install such culverts or temporary bridges and shall remove them upon completion of operations. Unless otherwise agreed, all vehicles are prohibited within an orange-marked boundary along either side of protected streamcourses except as necessary to construct or remove streamcrossing structures. No timber is designated for cutting within these areas.

PROTECTION OF IMPROVEMENTS: The following improvements are located within or adjacent to the sale area:

- Fences
- Utilities
- Other Ownership
- Landline, and associated witness trees.
- Existing, constructed, and reconstructed culverts and other structures on or along NFSRs 541, 541E, 541C, and 5274

Purchaser shall protect these improvements during operations and shall be responsible for prompt repair of any damage caused to them. Operations shall not begin until all necessary arrangements to protect these improvements and prevent damage have been made. Purchaser shall contact utility companies in advance of constructing crossings to ensure necessary arrangements to protect improvements.

THREATENED, ENDANGERED, OR SENSITIVE SPECIES HABITAT INFORMATION: This sale has known active Red Cockaded Woodpecker (RCW) clusters and RCW recruitment and/or inactive clusters within Payment Units and along designated haul routes. These areas are located in:

- Payment Units 1, 5 and 9-15 with trees that have currently natural and artificial nesting cavities shown on the Sale Area Map.
- National Forest System Roads (NFSRs) 541, 541E, 541C and 5274 and all spur roads off of them and Payment Units accessed by them.

In these areas, the following restrictions on logging operations are required:

- Unless the Forest Service determines that logging activities will not harm RCW breeding and nesting, no logging operations will be allowed between **April 1 and July 31** in the above listed areas.
- Outside of this exclusion period, Logging equipment and log hauling trucks cannot operate within 200 feet RCW nesting trees until 1 hour after sunrise and must stop operations 1 hour before sunset.

- The construction of new log landings and temporary roads will not be allowed within 200 feet of RCW nesting cavity trees; however the use of existing ones may be approved.

200 foot boundaries adjacent to RCW cavity trees will be designated by the Forest Service with ribbon flagging prior to the start of logging operations in these areas.

If during logging operations, a new cavity tree is found or RCW activity is observed in previously uninhabited existing ones, logging operations in the adjacent area shall cease and the Forest Service shall be notified

PRE-WORK CONFERENCE: A pre-work conference will be held with the designated representatives before Purchaser begins operations. The purpose of the conference is to ensure designated representatives have a clear understanding of the contract requirements and obligations. The time and place for conference will be arranged by Forest Service.