

## Tyler 64

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30°42'40.6"N

94°13'26.6"W

This 64 acre tract is located east of Woodville near the community of Spurger in southeastern Tyler County. The Jan 2012 estimated timber volume is 5,093 tons. The January 2012 estimated timber volume is \$95,535. Pine accounts for 90% of the volume and 95% of the value.

Almost 90% of the tract is a thinned loblolly pine plantation that was established in 1980 (57 acres). The remaining 7 acres are Streamside Management Zones (SMZ).

A timber inventory consisting of 27 sample points distributed across the acreage was conducted in October 2007. The merchantable timber volume at that time was 4,097 tons.

The current volume is projected in the following table. No timber has been harvested from the property since the timber inventory. To the best of our knowledge there have not been any significant events causing mortality or damage to the timber.

Tyler 64 — Estimate of 2012 timber volume and value

<i>PRODUCT</i>	<i>2007 TONS</i>	<i>2012 TONS</i>	<i>2012 UNIT VALUES (\$/TON)</i>	<i>2012 VALUE</i>
pine pulpwood	212	187	\$5.86	\$1,093
pine topwood	467	587	\$5.86	\$3,441
pine chip-n-saw	434	298	\$10.10	\$3,009
pine small sawlogs (11.5" to 13.5" dbh)	1,414	328	\$23.43	\$7,680
pine sawlogs (>13.5" dbh)	1,139	3210	\$23.43	\$75,200
<b>Total Pine</b>	<b>3,666</b>	<b>4,609</b>		<b>\$90,423</b>
hardwood pulpwood	365	389	\$6.23	\$2,423
hardwood topwood	7	8	\$6.23	\$50
hardwood sawlogs	59	87	\$30.34	\$2,640
<b>Total Hardwood</b>	<b>431</b>	<b>484</b>		<b>\$5,113</b>
<b>TOTAL</b>	<b>4,097</b>	<b>5,093</b>		<b>\$95,535</b>

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The projection from the October 2007 Timber Inventory to the January 2012 Timber Inventory Update is a 4 year growth function at the rate of 6% per for pine trees and 3% per year for hardwood trees.

After examining the 2007 stock and stand tables and testing the advance of tree size during the 4 year growth period, the following growth rates were devised:

- 30% of Pine Pulpwood to Pine Chip-n-saw
- 60% of Pine Chip-n-saw to Pine Small Sawlogs
- 100% of Pine Small Sawlogs to Pine Sawlogs
- 6% of Hardwood Pulpwood to Hardwood Sawlogs
- Mortality was calculated as 2% of annual growth

Current Unit Prices are the average price of the most recent 12 months by product for Southeastern Texas as reported in the bi-monthly Texas Forest Service publication titled "Texas Timber Price Trends".

The timber stand density as measured by basal area was 64 square feet per acre. The estimated 2012 basal area is 74 square feet per acre. There was an estimated 106 trees per acre.

## Timber Harvest Options

The Tyler 64 timber stand is capable of sustaining either an intermediate harvest or a final harvest. Suggested approaches include:

1. Selective 50% Thinning leaving roughly 52 trees per acre (final harvest could follow in 7-10 years)
2. Seed Tree cut leaving roughly 10 trees per acre (66' feet apart) enabling natural regeneration or
3. Clear Cut and replant.



## 2007 Pine Stock &amp; Stand Table

	Total Pine		Pine PW			Chip-N-Saw			Pine Small Logs (12-13" dbh)			Pine Sawlogs (>13" dbh)			Pine Tops
DBH	trees	tons	trees	tons	avg. total height	trees	tons	avg. total height	trees	tons	avg. log height	trees	tons	avg. log height	tons
5	0	0													
6	241	23	241	23	33										
7	266	62	266	62	59										
8	340	109	204	66	62	136	31	61							12
9	376	173				376	143	69							30
10	304	185				304	164	73							21
11	144	103				144	96	71							7
12	996	884	30	32	90				966	706	41				146
13	823	842	26	29	80				797	708	44				105
14	732	813										732	714	42	99
15	232	229										232	220	38	9
16	85	142										85	116	44	26
17	15	13										15	13	30	0
18	27	32										27	32	36	0
19	0	0													
20	22	54										22	44	43	10
21	0	0													
22	0	0													
23	0	0													
24	0	0													
25	0	0													
>25	0	0													
total	4601	3666	767	212		960	434		1763	1414		1112	1139		467