

Attached is a timber cruise report requested for King Ranch, 399 Pilgrim Creek Road, Noxon, Montana:

Property acres is about 292 ac, an estimation of 233 ac is timber suitable lands. 21 acres were removed due to road, stream, gravel pit and two camp sites. Area cruised was approximately 212 acres. Timber was cruised using a point sample method with plots located on a grid approximately 1/7ac or 580ft by 580ft. A 20 basal area factor was used to determine in and out trees. Measurements taken included species, diameter at breast height (4.5ft) and total height.

The next tab is a breakdown of estimated number of trees, average DBH, net and gross volume by species. This data is an estimation of volumes to a 95% confidence interval. This data is based on whole tree utilization. This data is also a total volume of trees on the landscape. Based on harvesting techniques this may not be a volume sold or harvested. Non-sawtimber logs: material under 7 inches, and dead trees were not accounted for.

Six species were measured: western red cedar, Douglas fir, grand fir, western hemlock, western larch, and ponderosa pine. Average diameter of total species **10.7** inches. Total net sawtimber estimated to be **1,438,971** board feet net nonsaw (topwood) material **116,064** board feet, for a total volume of **1,555,035** board feet.

This report was to determine the total volume and value on this property. Attached in the value tab is data collected from the Bureau of Business and Economic Research from the University of Montana. The graph represents Montana sawtimber log prices, dollars/mbf from 2000-2019. Log markets fluctuate over time and a value of \$350/mbf was chosen for this report. Non-sawtimber also significantly fluctuates over time and is hard to capture. This report will only use total sawtimber for value assessment.

$$\begin{aligned} 1,438,971 &= 1,439/\text{mbf} \\ 1,439 * \$350 &= \$503,650 \end{aligned}$$

The value for the Sawtimber volume is estimated at **\$503,650**. This estimated is a total value and does not account for vegetation treatment types or logging cost.

Cruised for: King Ranch,
399 Pilgrim Creek Road,
Noxon, Montana 59853

Cruised by: Mark Wiedeman
Consulting Forester/Timber Cruiser

Date Cruised: April 2020

	A	B	C	D	E	F	G	H
1								
2								
3	S	TOTAL	***** SAWTIMBER *****					
4	P							
5	E	EST.	EST.					
6	C							
7	I	# OF	# OF	Avg	** GROSS VOLUME **	** NET VOLUME **		
8	E							
9	S	TREES	TREES	DBH	BDFT	CUFT	BDFT	CUFT
10								
11	C	559	559	15.1	82877	17393	77862	16354
12	DF	10070	10070	10.9	718947	147160	664498	136532
13	GF	7612	7612	9.8	606464	116592	569784	109671
14	H	589	589	12.9	71143	14246	66949	13397
15	L	396	396	11.2	37624	7982	37624	7982
16	PP	34	34	27.0	28162	4551	22255	3596
17								
18	TOTAL	19260	19260	10.7	1545217	307923	1438971	287532
19								
20								
21	***** NON-SAWTIMBER *****							
22								
23		*** GROSS	***	*** NET	***			
24								
25		BDFT	CUFT	BDFT	CUFT			
26								
27	C	2612	741	2612	741			
28	DF	53820	16521	53820	16521			
29	GF	55669	13872	55669	13872			
30	H	0	508	0	508			
31	L	3962	792	3962	792			
32	PP	0	0	0	0			
33								
34	TOTAL	116064	32435	116064	32435			
35								
36	Total Volume (saw+nonsaw) 1,555,035 BF							



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Montana Quarterly Log Prices

Under the sponsorship of the Inland Northwest Forest Products Research Consortium, the Bureau maintains a system to provide current mill-delivered prices for logs in Montana. These prices are based on quarterly surveys of Montana timber-processing plants. Sawlog prices are reported quarterly by product type and species. Past specialty log price reports are also available.

Choose a year and quarter, and hit the View button to see the report.

SAWLOGS YEAR: 2020 QUARTER: 1st [View](#)

Log Price Time Series Graph

