



Ranking Markets for Timberland Investment: Focusing on the PNW

Brooks Mendell

bmendell@forisk.com

770.725.8447

Forisk helps the forest industry make better decisions.

- Analysis and forecasts.
 - *Forisk Research Quarterly*
- Price and industry data.
 - ***Forisk Wood Fiber Review***
 - North American Mill Database
 - Timberland Owner Database
- Multi-client studies.
 - Timber market rankings
 - Silviculture benchmarking
- Resource studies and consulting.
- Educational workshops.

Upcoming Events

“Applied Forest Finance”

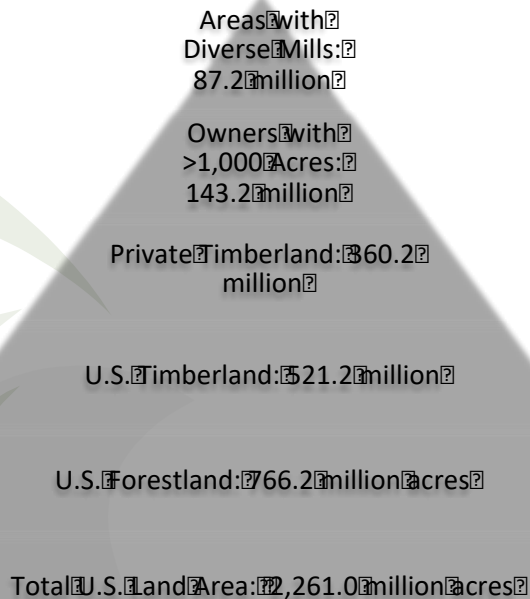
March 19th, 2020 in Atlanta

“Timber Market Analysis”

June 24th, 2020 in Atlanta

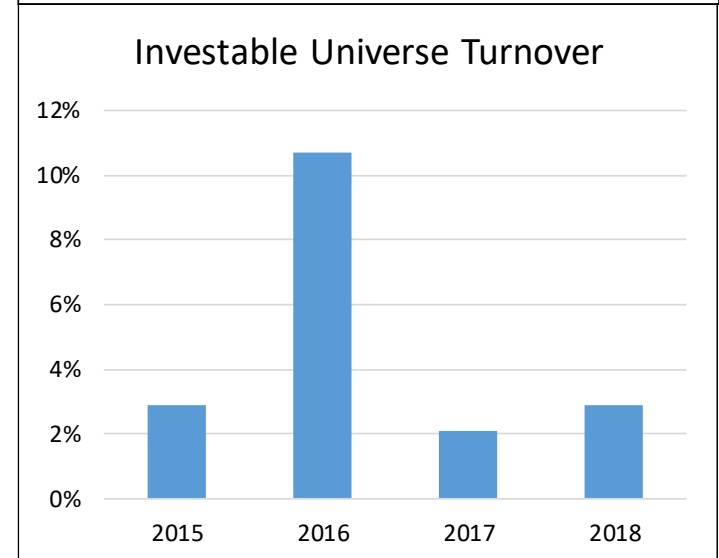
“What does a normal timberland deal flow look like in the U.S.?”

Forisk estimates an “investable universe” for U.S. timberland of 85-90 million acres.

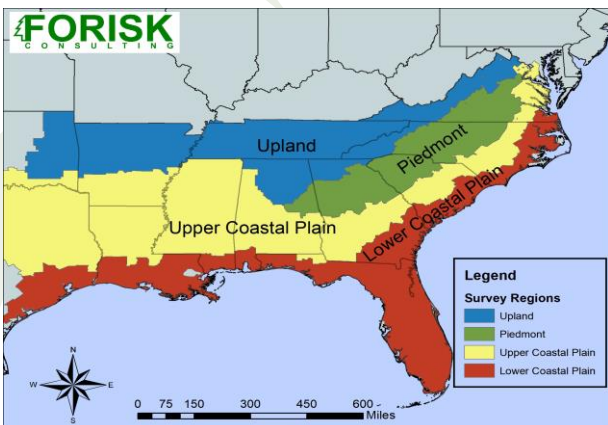
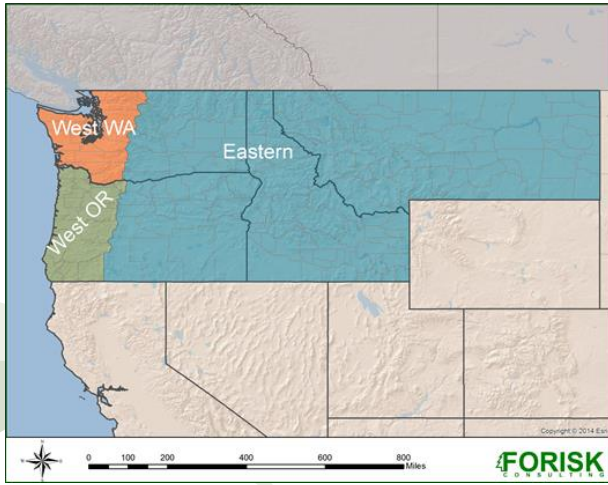


Notes: For the top of the pyramid, Forisk screened out 75% of the private timberlands in the Intermountain and Pacific Southwest Regions, and 50% in the North Central Region due to low mill densities. The “Investable Universe Turnover” uses all Closed Transactions.

	Closed Transactions	Large Deals (>20,000)	Large Deals
	acres, millions		% of closed
2015	2.5	2.1	84.0%
2016	9.3	9.2	98.9%
2017	1.8	1.4	77.8%
2018	2.5	2.1	84.0%



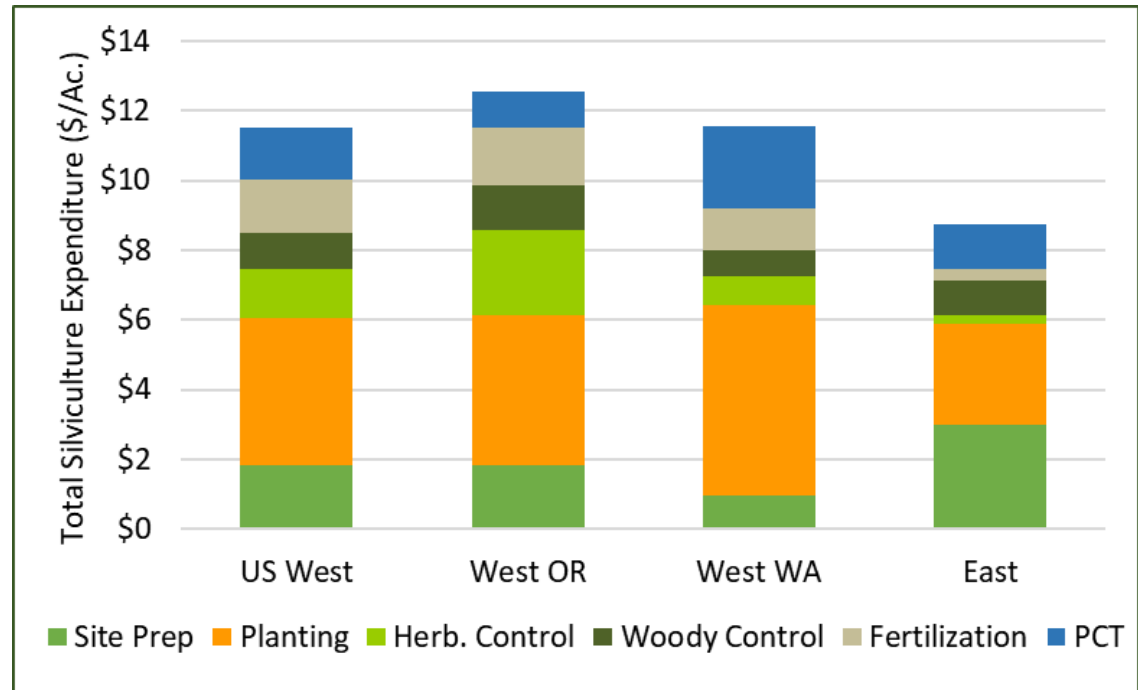
Forisk silviculture surveys confirm commitment to active forest management.



9 million acres in the West;
nearly 24 million in the South

Western Silviculture Expenditure by Treatment

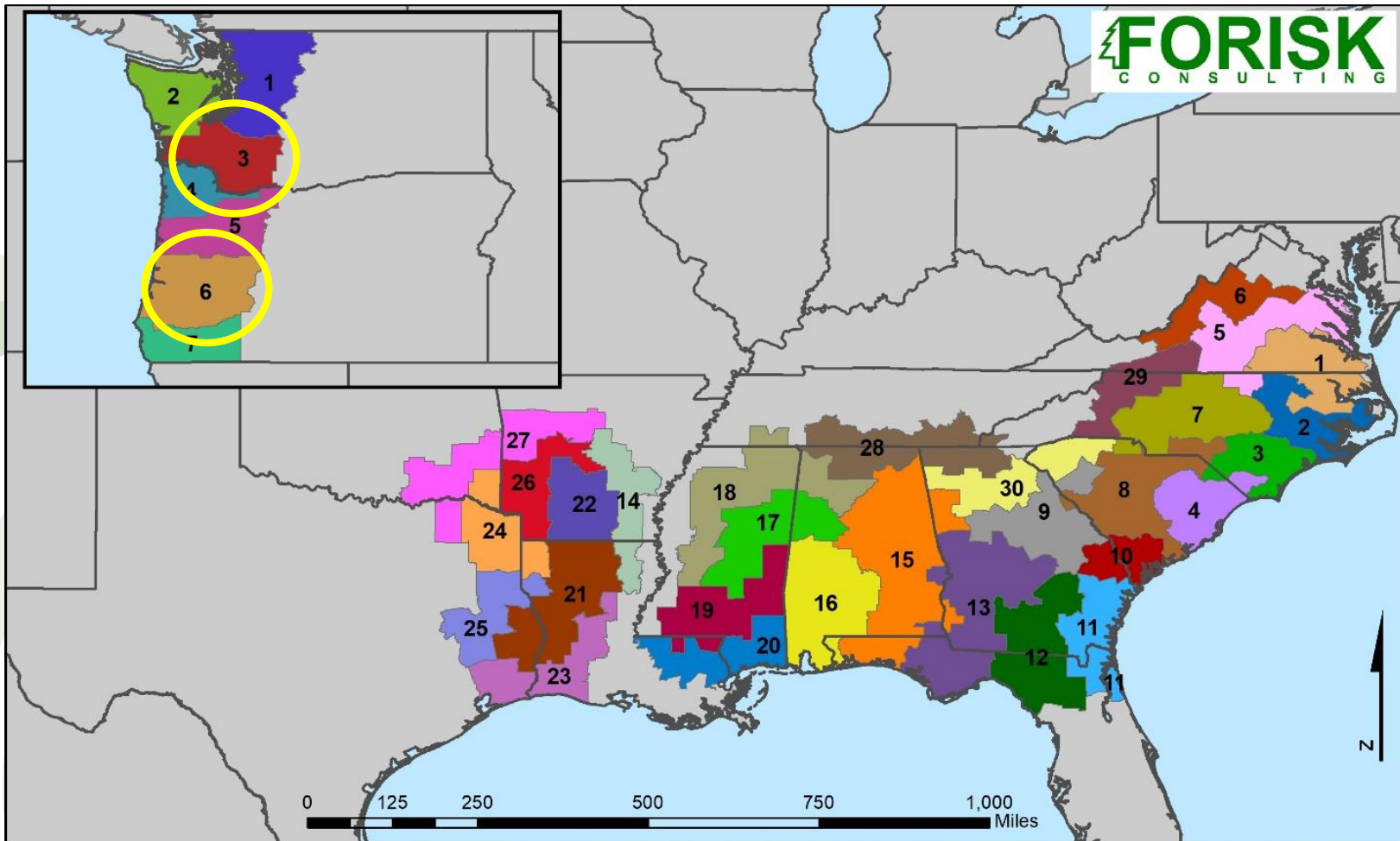
- East region has lower cost with higher site preparation.
- West invests more in planting and mid-rotation treatments.



What do we want from market rankings?

- Answer the question “Where should you invest?”
 - Account for how markets could look in the future, given what we see today.
- Assign numeric scores based on clearly defined measures;
- Keep scoring simple and as easy to understand as possible;
- Incorporate separate measures for each type of investment decision:
 - Timberland
 - Sawtimber-using mills
 - Pulpwood-using mills
- Account for both current and future conditions.

Market in the Study: Example Rankings



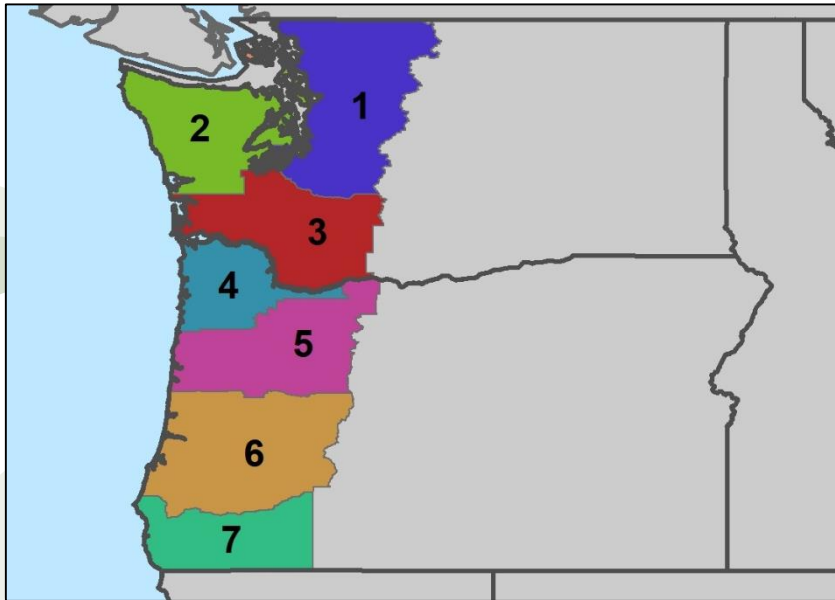
Market Scoring Criteria: Timberland

Scoring Components and Criteria for Pacific Northwest Timberland Investor Markets				
	Measure	Score		
		Worst 0	→ 1	Best 2
Supply 40%	Ratio Removals-to-Demand (Private and Public) ¹	> 100% private Only	> 100% private + public	< 100% private + public
	Proportion of Harvest from Public Lands ²	> 25% high public supply	< 25% low public supply	
	Softwood Sawtimber Inventory (10-Yr CAGR)	> 1% growing	< 1% stable/declining	
Demand 40%	Current Sawtimber Demand (MBF/Sq. Mi.)	< 75 low demand	> 75 high demand	
	Softwood Sawtimber Demand (5-Yr CAGR)	< 0% declining	0% - 2% moderate growth	> 2% strong growth
	Softwood Log Exports (% Sawtimber Demand)	< 10% low exports	> 10% high exports	
Risk 20%	Firm Market Concentration (Pct. Sawtimber Demand)	> 50% 2 firms low competition	40% - 50% 2 firms moderate competition	< 40% 2 firms strong competition

¹Removals to demand ratios that exceed 100% indicate that the market is well-supplied with wood and that the market is “exporting” harvest volume to mills outside of the market. In contrast, removals to demand ratios that fall below 100% indicate that mills have to go outside the market to source wood. This is favorable to timberland owners.

²The regional average proportion of harvest from public lands is 21%; markets that have lower ratios source more volume from private lands.

Pacific Northwest



Excerpt of Data Used for Scoring Western Timberland Markets

Market	Removals-to-Demand	Public Harvest	Export Demand	Market Conc.
3	96%	19%	17%	34%
6	103%	14%	3%	36%

Market Scoring Results: Timberland

