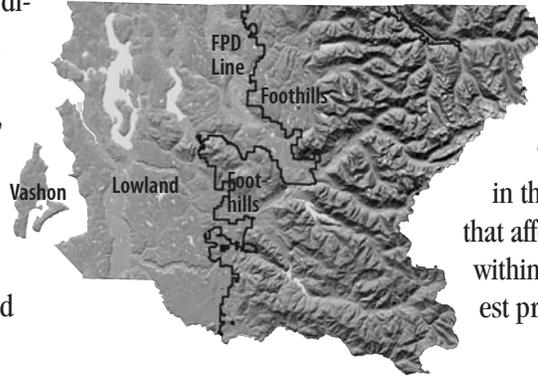


Shorelines were divided into units called reaches for each of the three shorelines types (marine, river and lake), using geological and ecological information.

Scores for integrity of each shoreline process were summarized for each reach across the County (reach quality).

Reach scores then were averaged for each shoreline type. Both the river and lake shorelines were divided into three further categories, based on general land use within geographical areas: Puget lowland, privately managed forest lands in the foothills of the Cascades, and forest lands generally under control of the Federal Government (including both protected and production areas).



The first half of the table lists the scoring range for each process, categorized by shoreline type and location. Low equals highly altered shorelines for that process (low integrity), while high equals little alteration (high integrity).

The second half of the table reports the percentage of shorelines with scores falling within each of the 5 ranges for the geographic category. For example, 2.9% of the marine shoreline reaches scored “Low” for the 10 processes rated, while 26.1% scored “High.”

The analysis verifies the notion that shorelines in the lowlands have undergone more alterations that affect ecological processes than shorelines within the private forest production or Federal forest production zones.

Ecological Process	Marine	Lake scores by geographic location			River scores by geographic location		
	Vashon	Lowland	FPD Federal lands	FPD Non-Federal Lands	Lowland	*FPD Federal lands	FPD Non-Federal Lands
Light	M	MH	H	H	MH	H	H
LWD	M	MH	MH	MH	M	MH	M
Nitrogen	MH	H	H	H	MH	H	H
Phosphorus	MH	MH	H	H	MH	H	H
Pathogens	MH	MH	H	H	MH	H	H
Toxins	M	MH	H	H	MH	H	H
Sediment	ML	MH	MH	MH	M	H	MH
Water cycle	M	M	H	MH	M	H	MH
Wave energy	M	MH	H	H	N/A	N/A	N/A
Tidal influences	MH	N/A	N/A	N/A	N/A	N/A	N/A
OVERALL	M	MH	H	H	MH	H	H

Percentage of reaches in each rating category:

Rating Category	Marine	Lowland	FPD Federal lands	FPD Non-Federal Lands	Lowland	*FPD Federal lands	FPD Non-Federal Lands
Percent Low	2.9	0.0	0.0	0.0	0.0	0.0	0.0
Percent Medium Low	23.7	1.0	0.0	0.0	2.2	0.0	0.0
Percent Medium	31.7	1.1	0.0	0.0	34.6	0.0	0.1
Percent Medium High	15.6	78.9	9.5	3.1	45.7	2.0	11.1
Percent High	26.1	19.1	90.5	96.9	17.6	98.0	88.8

FPD = Forest Production District