



# Coos County Beaches and Dunes Inventory Map Updates

Coos County Planning Commission Meeting and Work Session

August 7<sup>th</sup>, 2025

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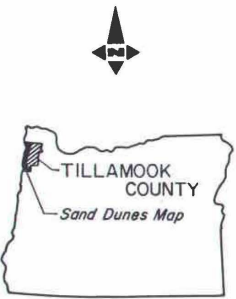
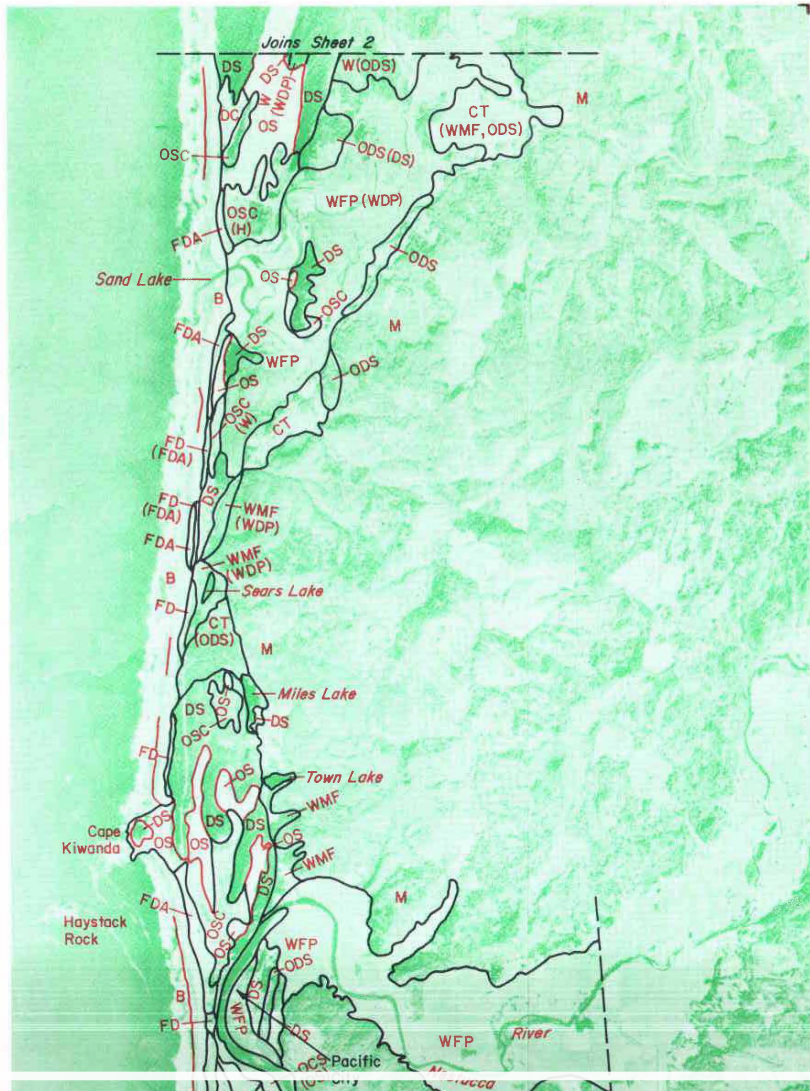
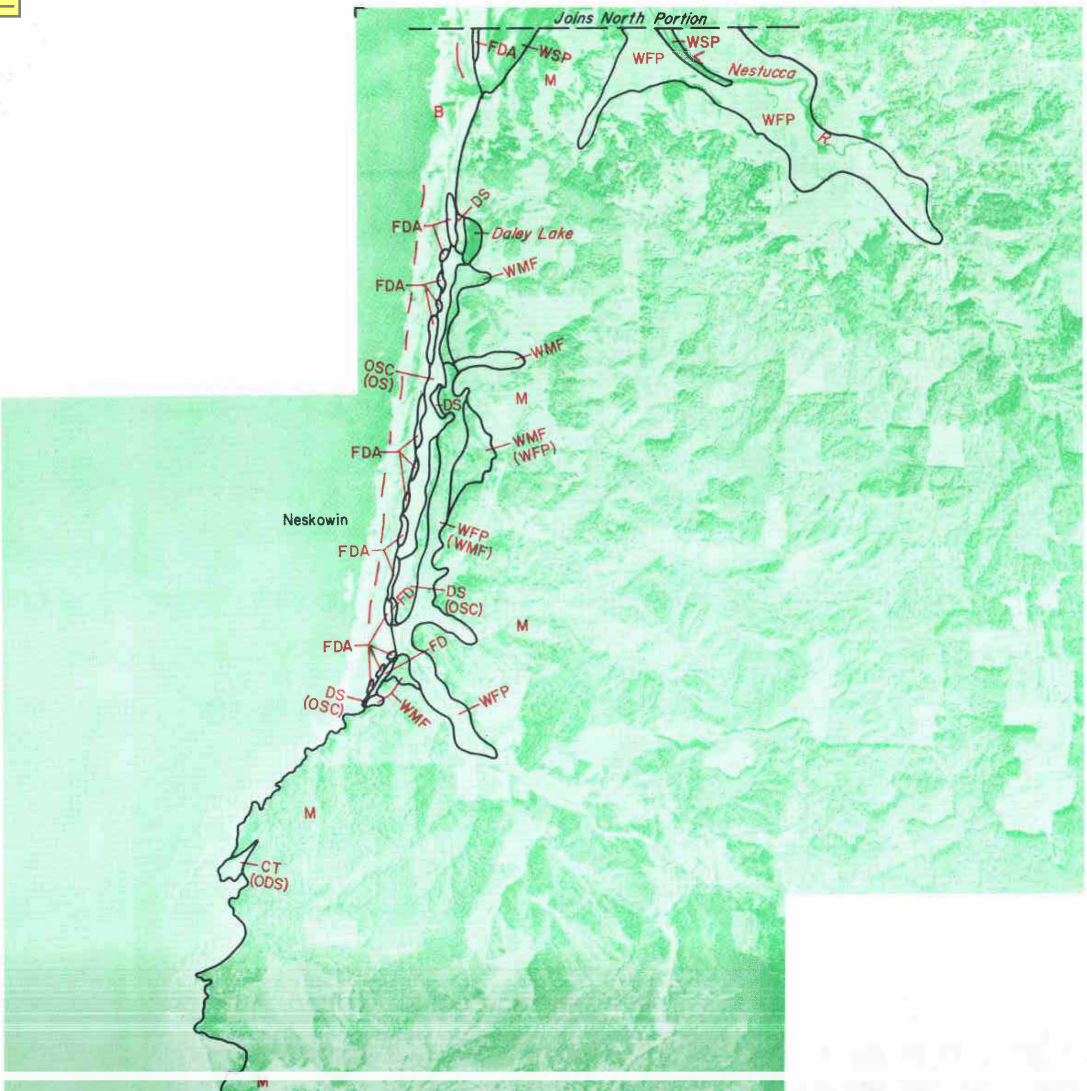
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# Statewide Planning Goal 18: Beaches & Dunes

- **Guides the protection and development of beach and dune areas**
- **Main provisions:**
  - Prohibition areas for development
  - Preservation of dune vegetation
  - Dune grading requirements
  - Beachfront Protective Structure (BPS) limitations
- **Inventory of beach and dune areas**
  - Inventories shall describe:
    - Stability
    - Movement
    - Groundwater resources
    - Hazards
    - Values





LOCATION MAP

DUNE LEGEND

- AID Active inland dune
- B Beach
- CT Coastal terrace
- DC Dune complex of OS, OSC, DS, and W
- DS Younger stabilized dunes
- FD Recently stabilized foredunes
- FDA Active foredune
- H Active dune hummocks
- M Mountain scarp
- ODS Older stabilized dunes
- OS Open dune sand
- (OS) Designates items of secondary importance
- OSC Open dune sand conditionally stable
- W Wet interdune
- WDP Wet deflation plain
- WFP Wet flood plain
- WFM Wet mountain front
- WSP Wet surge plain

GENERAL LEGEND

- OS Dune or interdune boundary
- Dune movement threatening or stable dune being wind eroded
- Ocean or river undercutting
- Lakes or ponds

Maps from 1975, still in use

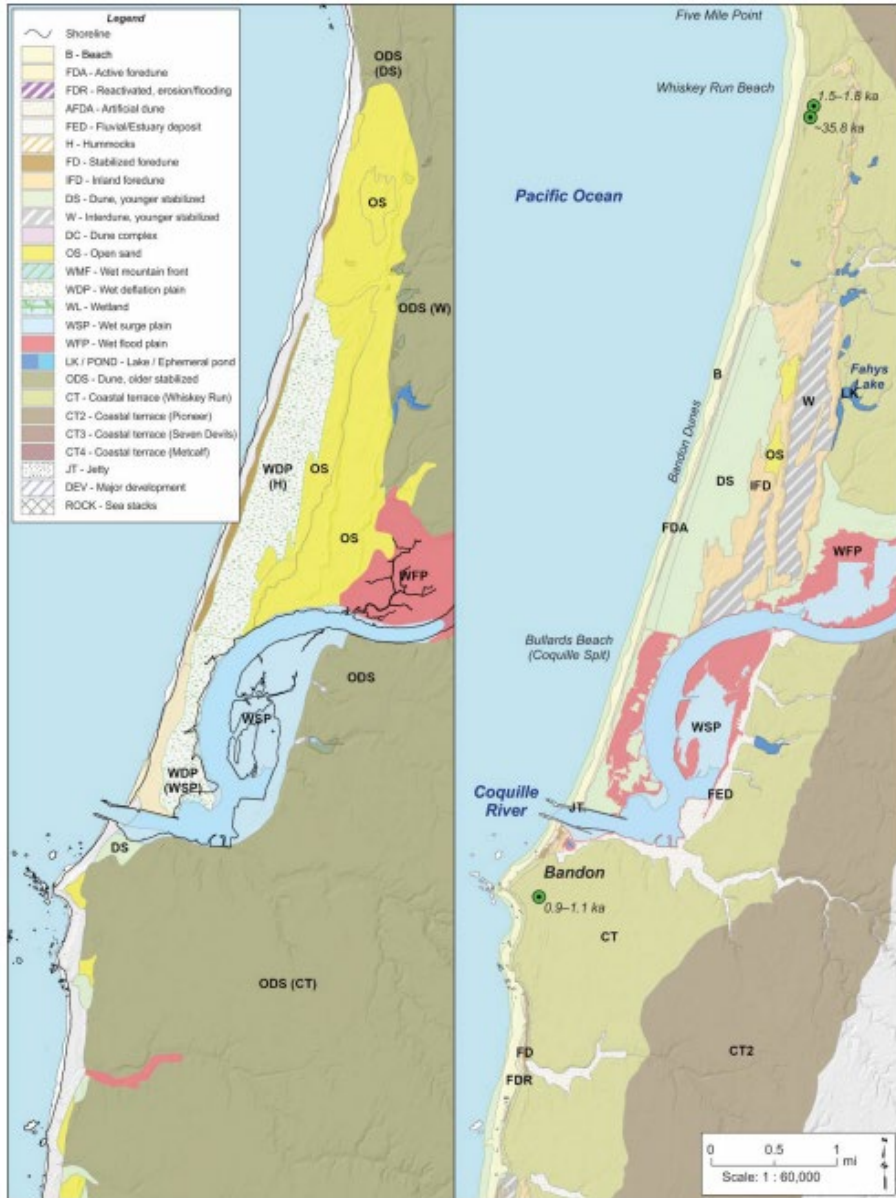
SAND DUNES MAP  
TILLAMOOK COUNTY, OREGON

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

JUNE 1974



Figure 4.4. Beach and dune geomorphic mapping classifications for Bandon. (left) original USDA (1975), (right) updated version. Green and pink circles, respectively, denote <sup>14</sup>C and thermoluminescence (TL) dates determined by Peterson and others (2007).



## New Maps Created by DOGAMI- 2024

[https://pubs.oregon.gov/dogami/ofr/O-24-13/O-24-13-report\\_.pdf](https://pubs.oregon.gov/dogami/ofr/O-24-13/O-24-13-report_.pdf)

Figure 4.3. Beach and dune geomorphic mapping classifications for the New River Spit. (left) original USDA (1975), (right) updated version. Green and pink circles, respectively, denote <sup>14</sup>C and thermoluminescence (TL) dates determined by Peterson and others (2007).

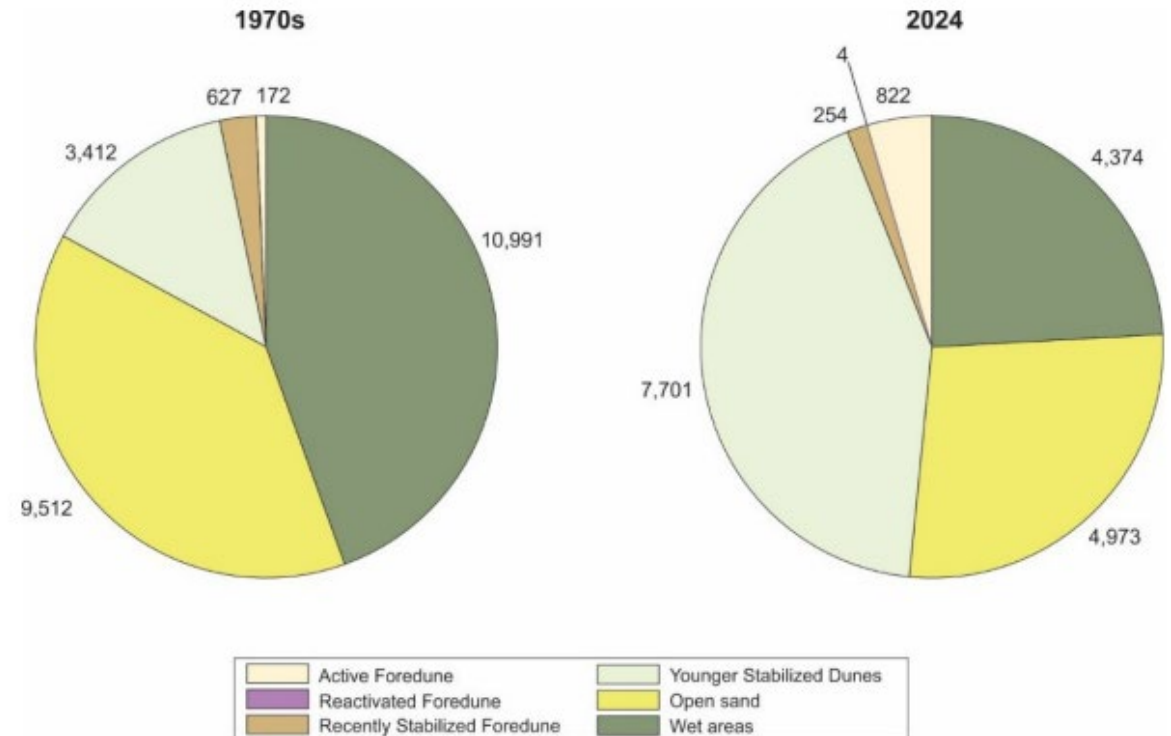


# New maps reflect changes in conditions over time, updated technology for mapping, and include new classifications

Table 3.1. Beach and dune overlay zone nomenclature (after USDA, 1975).

Associated Dune Category	Inventory Classification	DLCD Classification	Mapping Unit
Active Beach and Foredune	Beach	Beach	B
	Active foredune	Foredune, Active	FDA
	Active dune hummocks	Hummocks, Active	H
Recently Stabilized Dunes	Recently stabilized foredune	Foredune, Conditionally Stable	FD
	Inland foredune/inland stabilized dune		IFD
	Dune complex	Dune Complex	DC
	Younger stabilized dunes	Dune, Younger Stabilized	DS
Older Stabilized Dunes	Older stabilized dunes	Dune, Older Stabilized	ODS
Inland Dunes	Open dune sand	Dune, Active/Dune, Parabolic	OS
	Open dune sand conditionally stable	Dune, Conditional Stable	OSC
	Active inland dune	Dune, Active	AID
Interdune Forms	Wet interdune	Interdune	W
	Wet deflation plain	Deflation Plain	WDP
	Wet mountain front		WMF
Estuary	Wet surge plain		WSP
	Wet flood plain		WFP
Other	Coastal terrace		CT, CT2, CT3, CT4
	<b>New:</b>		
	Artificial active foredune		AFDA
	Developed areas		DEV
	Reactivated foredune (subject to erosion/flooding)		FDR
	Fluvial and estuarine deposits		FED
	Coastal landslide		LD
	Inland dunes		IDN
	Lake		LK
	Pond		POND
	Rock		ROCK
	Jetty		JT
	Wetland		WL

Figure 4.1. Pie charts depicting Coos County countywide changes over time for select coastal geomorphic units. Values shown for each pie reflect the acreage of that unit. Note: Total mapped areas for the 1970s (45,497 acres (18,411 ha)) and for 2024 (41,849 acres (16,935 ha)) differ by 3,648 acres (1,476 ha).



# Coos County All Hazards Viewer

[www.coostalAtlas.net/coos-all-hazards/map/](http://www.coostalAtlas.net/coos-all-hazards/map/)

Catalog Favorites Visible Results

2015

- Beach Dune Classifications, DOGAMI, 2024
- Dune Classifications, USDA, 1975

▼ **Beaches and Dunes - Goal 18**

- Development Suitability
- layer legend

▼ **Natural Hazards**

- ▶ Flood
- ▶ Sea Level Rise
- ▶ Tsunami
- ▶ Landslide
- ▶ Liquefaction
- ▶ Active Earthquake Faults

▼ **Estuary Maps**

- Estuary Mgmt Units, OCMP, 1987
- Coos Coastal Shorelands Boundary

▶ **Wetlands**

▶ **USDA Soils**

▼ **Administrative Boundaries**

- Statutory Vegetation Line, OPRD, 1967
- Coos Tax lots, 2025
- City Limits, ODOT, 2018
- Urban Growth Boundaries, DLCD
- County Boundaries, BLM, 2015
- State Parks, OPRD
- Coos County Zoning, 2022

▶ **Aerial Photos**

▶ **Lidar Hillshades**

▼ **Base Map**

- Carto Light Grey
- Carto Voyager



## Goal 18 Updates

- Model language from DLCD
- County-specific needs addressed
- Updates reflect new maps and changing conditions
  - Sea level rise, coastal hazards
- Reflect best practices for dune grading, limiting armoring, vegetation management