

*December 2007 Storm: An  
Overview of the Effects on  
Forest Land*

*Presented to the Forest Practices Board*





EXIT 77  
6 WEST  
Pe Ell  
Raymond

Walmart

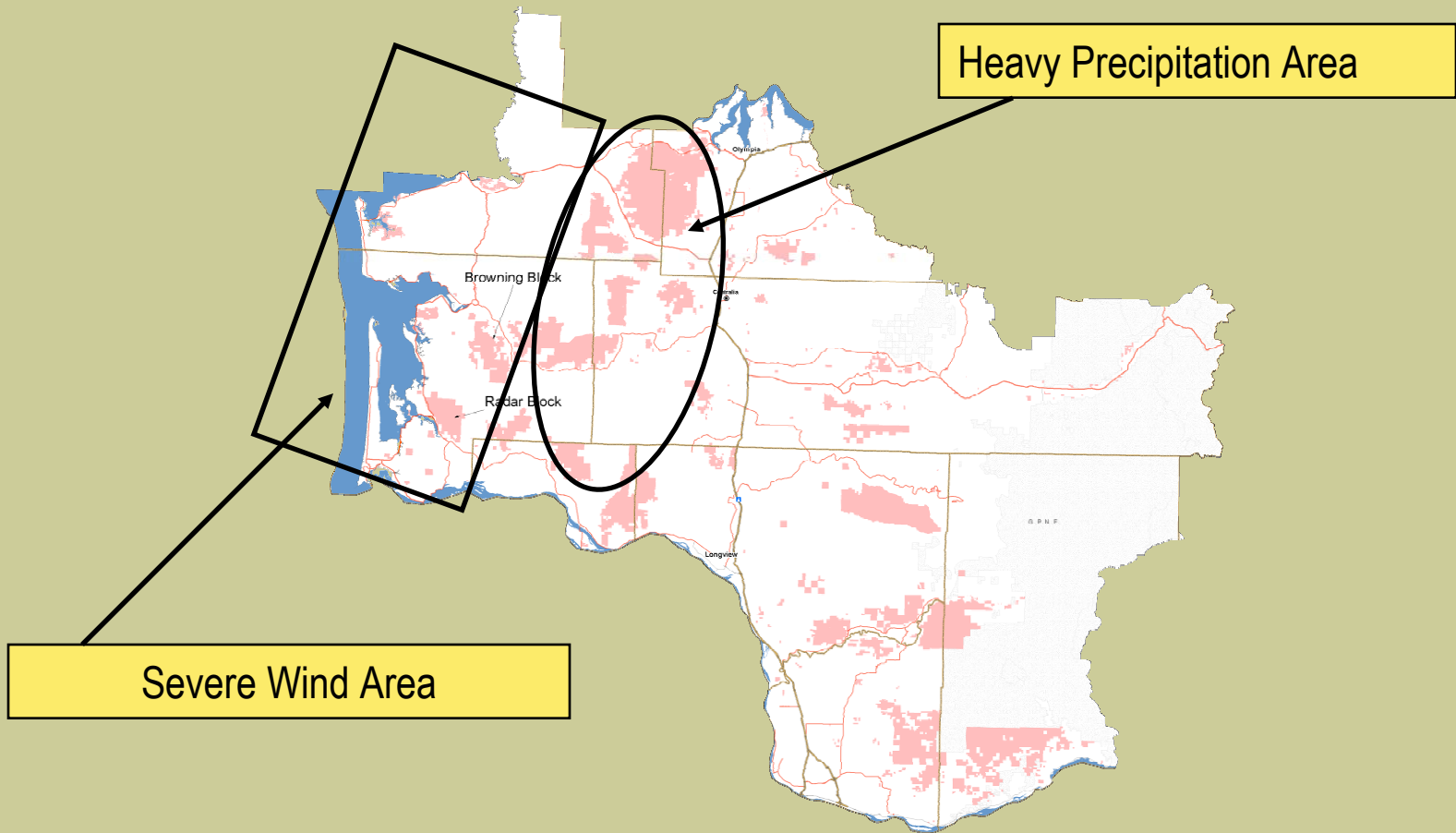


# One Storm-Two Events

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- The December storm can be viewed as 2 separate events
  - Heavy precipitation in areas west of I-5 and inland from the coast
  - High winds in a band roughly 10-20 miles wide along the coast
  - Interestingly, in each event damage-water or wind-was localized
  - Heavy rain and rain-on-snow in limited areas affected soil stability and resulted in extensive flooding
  - High winds caused severe damage to approximately 19,000 acres of forest

# Pacific Cascade Region Map



# Storm Damage-*Water*

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- Heavy flooding occurred in the upper and lower Chehalis River system
- Many tributary creeks overtopped their banks
- Large woody material, sand, silt and clay were left by retreating waters
- Many homeowners, forest landowners and farmers suffered damages and loss

# Storm Damage-*Water*

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- Extensive damage to road systems
  - Upper Chehalis, Capitol Forest and Hood Canal were hardest hit
  - Other areas had limited damage
  - Many areas remain inaccessible due to road failures, bridge washouts, and snow at higher elevations
  - Latest count is 27 bridges damaged/destroyed
- Numerous landslides, debris slides, slumps
  - Earth movement occurred in many areas



# Kennedy Creek:

One of the tributaries to Kennedy Creek had a landslide/debris flow.

The event initiated from two separate tributary branches in the headwaters.

This is one of the two initiation points (in standing timber above the C-4700 road).





# Kennedy Creek: Debris on the C-4700





# Kennedy Creek:

Aerial view  
from farther  
back

The second  
branch is  
located in the  
timber to the  
left of the  
photo





# Kennedy Creek:



The debris flow damaged a recreation trail and an old rail road grade. Eventually, it took out the bridge on the B-Line near the Rock Candy Entrance





# Kennedy Creek: Bridge found more than ¼ mile down stream



12/05/2007



# Kennedy Creek: Ranch House BBQ





# Potosi Creek: The C-4500





# C-8000 Bridge Site Looking Upstream





## Waddell Creek below the C-8000





**Camp Four Creek:** Waddell Creek tributary south of Potosi Creek.





# Camp Four Creek: Looking upstream from the C-8000.





# Camp Four Creek: C-8000 culvert remains functional



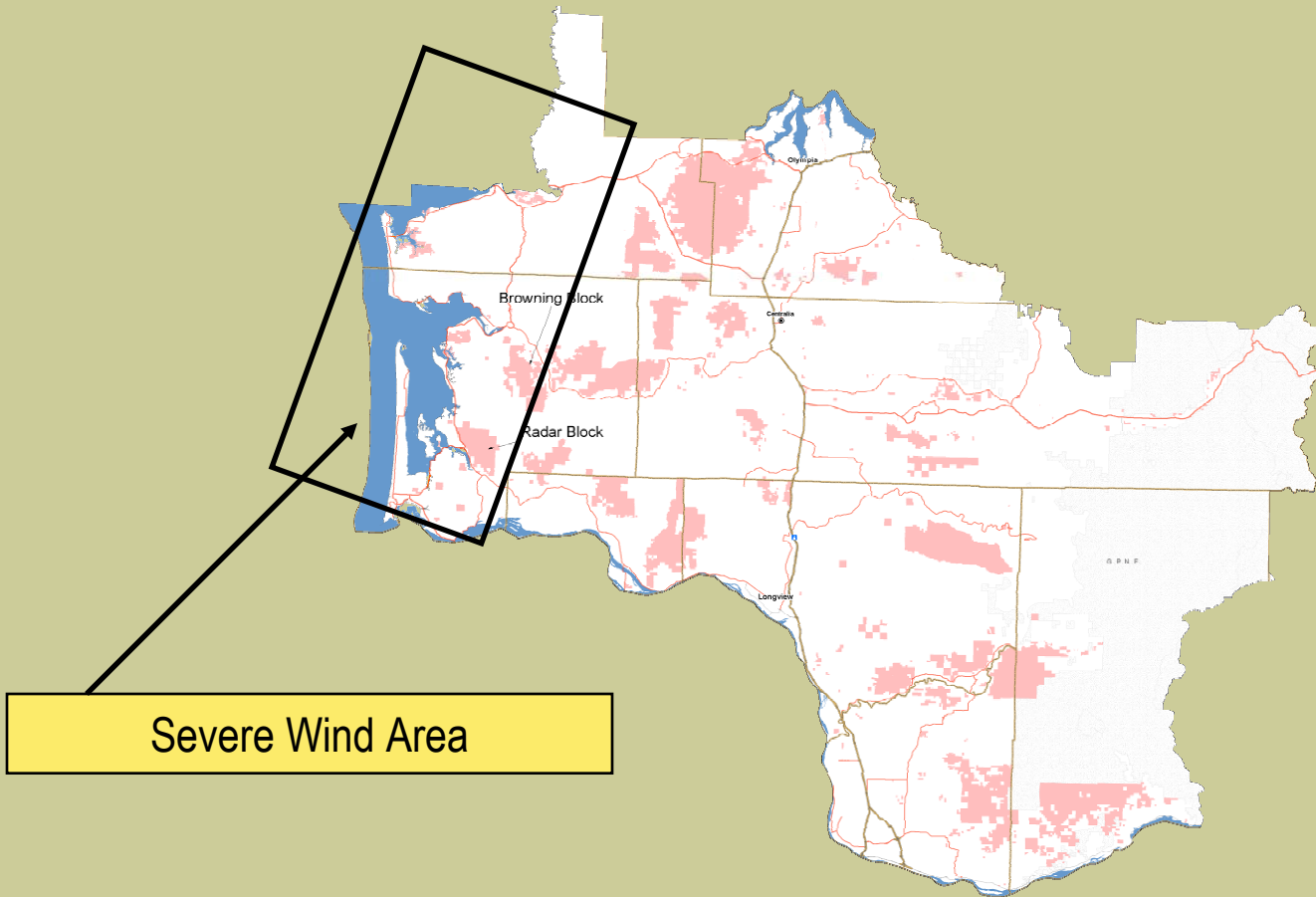








# Pacific Cascade Region Map





# Storm Damage-*Wind*

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- Still in “assessment” phase
  - Current numbers show
    - Large landowners 15,600 acres
    - State Trust Lands 3,000 acres
    - Family Forest Lands 500 acres
    - TOTAL 19,100 acres (30 sq. miles)

# Browning Block-Trap Creek

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# Rue Creek-from County Road

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# Browning-North

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# Browning-North

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# D-Line Browning-South

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# Naselle C-Line 2000 Jct.

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# Riggin' Fit-TS Area

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# Jammed Radar-TS Area

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# Radar Ridge Area



# Elochoman Twin Bridges

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# Doty and Local Area

