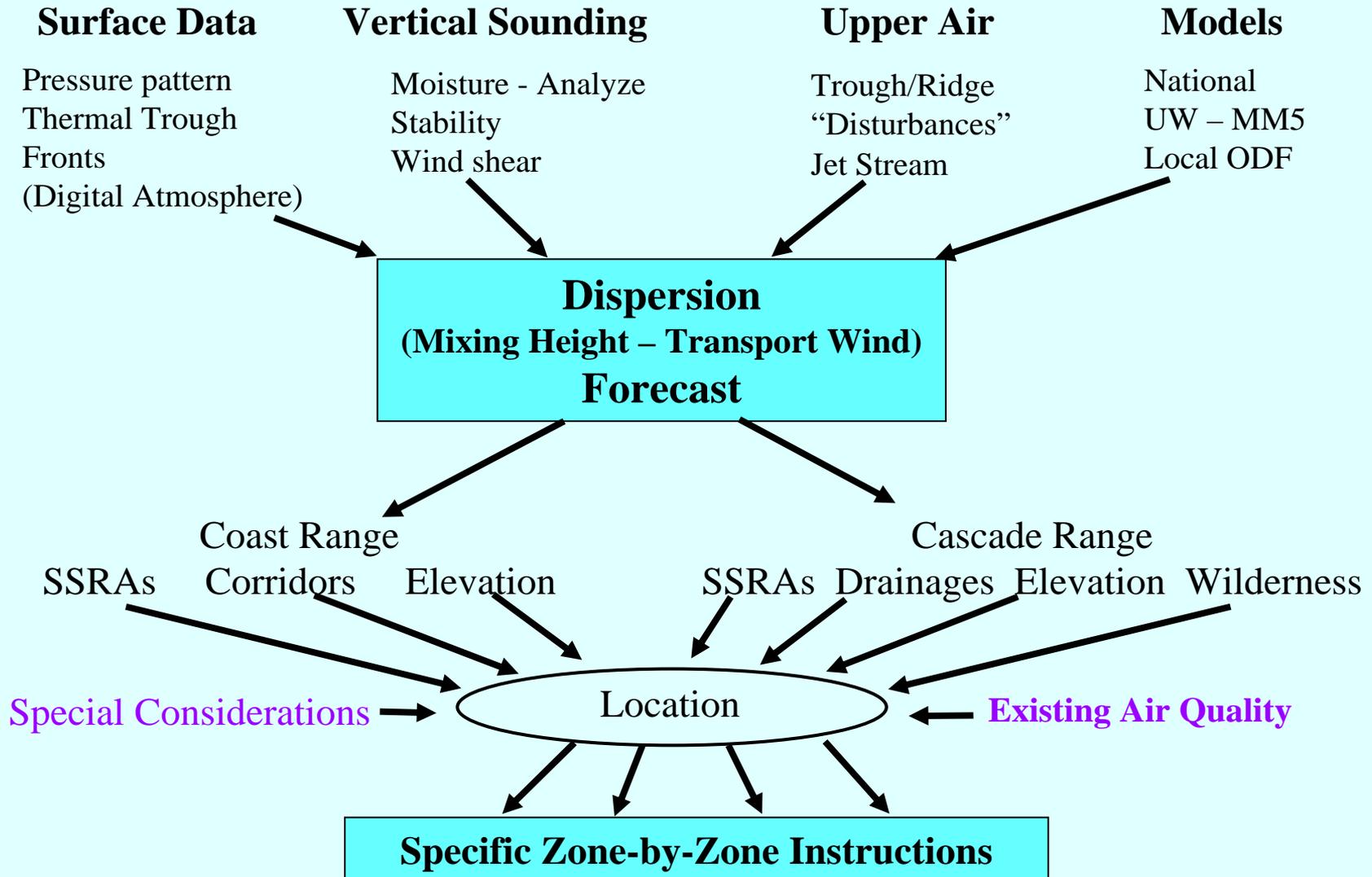
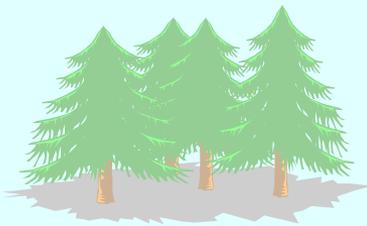


Oregon Dept. of Forestry Smoke Management





Smoke Management

Forecast - General Discussion



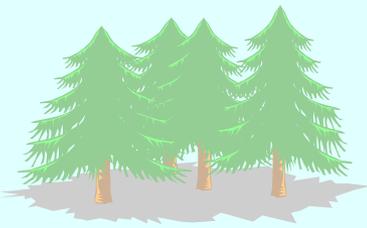
Upper level weather pattern

Surface weather effects

1. DISCUSSION AND FORECAST FOR THE RESTRICTED AREA FORECAST ZONES 601-623

Upper level low pressure center remains nearly stationary well off the coast. Moisture spinning around this low is gradually approaching the coast. Models differ somewhat on timing, as movement of these cut-off lows is difficult to predict; however, looks like precipitation could reach the coast this evening with the more significant rainfall amounts Monday. With the low moving so slowly and a good fetch of moisture from the southwest, precipitation amounts could be fairly heavy, especially along the coast. Totals well over an inch are not unreasonable along the coast. Inland areas should mostly receive less than three quarters of an inch. Initially snow level well above the passes but drops to near Cascade pass levels over Monday night. Air mass remains unstable for good mixing. Low level wind flow southerly. Offshore component to surface wind will make careful selection of units in Zones 605 and 606 necessary to avoid smoke impacts into the Willamette Valley. Situation not quite as critical in the south but southeasterly surface wind could create some problems for Cascade units there also.

Effect on smoke management



Smoke Management

Forecast - Detailed Dispersion



Broken out by area and time of day

Mixing height and changes

Zone 601-610 (North Coast Range and Cascades):

MORNING

Mixing height below 1000 ft early rising to 2500 - 3500 ft by late morning.

Transport wind ESE to SSE at 8 - 12 mph.

Surface wind E to SSE at 6 - 12 mph.

AFTERNOON

Mixing height rising above 5000 ft.

Transport wind S at 18 - 32 mph.

Surface wind shifts to SSE to SSW at 10 - 18 mph.

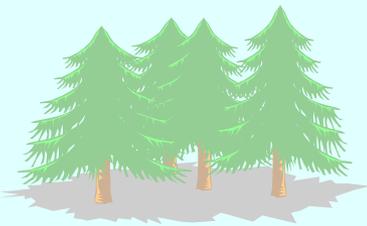
EVENING

Mixing height remains above 5000 ft.

Transport wind SSE to SSW at 15 - 25 mph.

Surface wind decreases to SE to SSW at 6 - 10 mph.

Transport and surface wind direction shifts and speed changes



Smoke Management



Restricted Area Instruction Example

Coast Range

Basic requirements

Sub-zone restrictions

Zone 601

Units should be 750 tons or less, spaced 8 miles apart, and 10 miles from downwind DAs. North of Tillamook, use the restrictions in the Oregon Smoke Management Plan. Restrict units in or near corridors to 500 tons or less.

Zone 602 and 603

Units should be 300 tons or less, spaced 8 miles apart, and 10 miles from downwind DAs. North of T3N in Zone 602, use the restrictions in the Oregon Smoke Management Plan. Avoid burning in or near corridors.

Special considerations

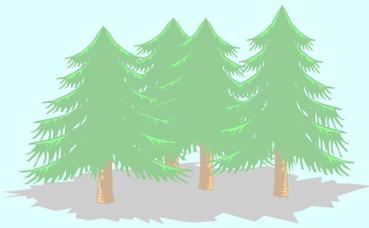
Zone 615

Units should be 1200 tons or less, spaced 8 miles apart, and 10 miles from downwind DAs.

Zone 616 west of R8W

Units should be 1000 tons or less, spaced 8 miles apart, and 10 miles from downwind DAs. Higher tonnage units possible south of T29S. Call the forecaster.

http://oregon.gov/ODF/FIRE/fire.shtml#Smoke_Management

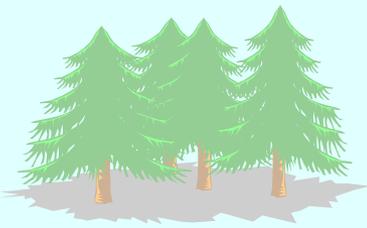


Smoke Management



Smoke Management Process and Responsibilities

- **Forecaster** reviews previous days forecast and instructions. Update if necessary.
- **Forecaster** analyzes weather situation through day and produces and submits forecast and instruction.
- **Landowner** prioritizes units to burn by reviewing latest forecast, instruction and outlook.
- **Landowner** calls district to submit priority unit(s) to burn.
- **District** coordinates landowner burns and other neighboring district burns against instructions to determine approval or seek waiver.



Smoke Management



Smoke Management Process and Responsibilities (cont)

- **District** calls Salem for waivers or questions on next day's forecast and instruction.
- **District** gives landowner approval/disapproval to burn on any questionable units.
- **District** submits plans and accomplishments to smoke management system.
- **Salem staff** disseminates burn plans and accomplishments by email and to the web.

<http://oregon.gov/ODF/FIRE/SMP/dailysmoke.shtml>



Reports

OREGON SMOKE MANAGEMENT DATA SYSTEM

Billing Bname Search:

Vender Number: 0629147 010

Billing Name: SISKIYOU NF

Billing Address 1: 333 WEST 8TH ST

Billing Address 2:

City: MEDFORD

State: OR

Zip: 97504

Phone No: 5412963823

Suspended?: N

Registration

FACTS ID Search: 074061015612

Unit Identification:

Date Registered: 10/11/2007

FACTS Ilo: 074061015612

District ID: 112 SISKIYOU NF (ol)

Owner: GALICE RANGER DISTRI

Ownership:

FPF Ilo: 0

Sale Name: TBBUCKEY 1 (AREA #3)

Sale Unit Ilo: 3

Unit Information:

Township (070S): 360S

Range (120W): 070W

Section (1-36): 30

County ID: 17

Distance to SSRA (0-60mi): 8

SPZ: G

Unit Acres: 38

Cutting Date (mmyy): 9999

Harvest Diameter: 1

Elevation (ft): 2700

Slope (0-200%): 60

Duff Depth (in/10): 0

Burn Type: H

Fuel Loading:

Fuel Species: M

Method Fuel Load: L

Landing Pile Tons: 0

Piled Tons: 1672

Fuel: Tons/Acre 0-1/4 in: 0

Fuel: Tons/Acre 1/4-1 in: 0

Fuel: Tons/Acre 1-3 in: 0

Fuel: Tons/Acre 3-9 in: 0

Fuel: Tons/Acre 9-20 in: 0

Fuel: Tons/Acre 20+ in: 0

Burn Fee Information:

Burn Reason: B

Burn Fee Exempt: N

Billing Information:

Invoice No: 31016001 Reg or Burn: R

Invoice date: 11/20/2007

Fee: \$19.00

Receipt/Date Paid:

Amount paid: \$0.00

Comments:

Burn Plan/Results

Planned Date: 03/11/2008

Planned Ignition Time: 0900

Acres Planned: 9

Landing Pile Tons: 0

Unit Pile Tons: 396

Broadcast Tons/Acre: 0

Total Tons Planned: 396

Ignition Information:

Actual Date of Burn: 03/11/2008

Actual Ignition Time: 0900

Actual Acres Burned: 6

Landing or R/W Tons Burned: 0

Pile Tons Burned: 238

Broadcast Tons/Acre Burned: 0

Broadcast Tons Burned: 0

Total Tons Burned: 238

Ignition Duration (min): 0

Ignition Method:

Rapid Ignition Achieved:

Weather and Fuel Information:

Weather Station Used (xxxx):

Fuel Moisture 10-hr (%): 0

Fuel Moisture 1000-hr (%): 0

Fuel Moisture 1000-hr Code:

Days Since Significant Rain: 0

Temp at Time of Burn (F): 0

Humidity at Time of Burn (%): 0

Wind Direction (dd): 0

Wind Speed (mph): 0

Snow off Month: 0

MS Sans Serif 8 **B** *I* U [Text Formatting Icons]

[Clipboard Icons]

Main Screen

OREGON SMOKE MANAGEMENT DATA SYSTEM

Special Reports



Daily Plans and Accomplishments

Summary Reports

Invoices

Plan Date: Result Date:

Begin Date: District ID: End Date:

Begin Date: End Date:

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Last Invoice Number

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Get Fed Data

File Date

Emission Data

Use Begin/End Dates/District ID above.

Reinvoice (Enter Invoice No. below)

<input type="button" value="State Reinvoice"/>	<input type="button" value="Other Reinvoice"/>
<input type="button" value="Suspended List"/>	<input type="button" value="Vender ID Edit"/>
<input type="button" value="Receipt"/>	<input type="button" value="VID/FACTS"/>

