

Oregon Department of Forestry

Orientation to Fighting Fire In Oregon

Presentation Overview

- Overview of Oregon's forests
- Introduction to ODF and Fire Protection Division
- Statewide Coordination and Resources
- Fire History and Fire Environment
- Fire Finance
- Risk Management and Safety

Keep cell phones handy for capturing links to websites shown in this presentation



Oregon's Forests

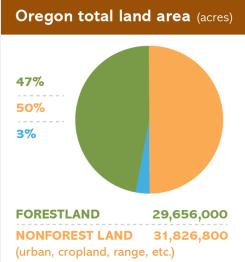


- Approximately ~30 million of acres of forestland
- Diverse conditions Coastal strip to Chaparral to ٠ High Desert

ODF protects ~16 million acres •

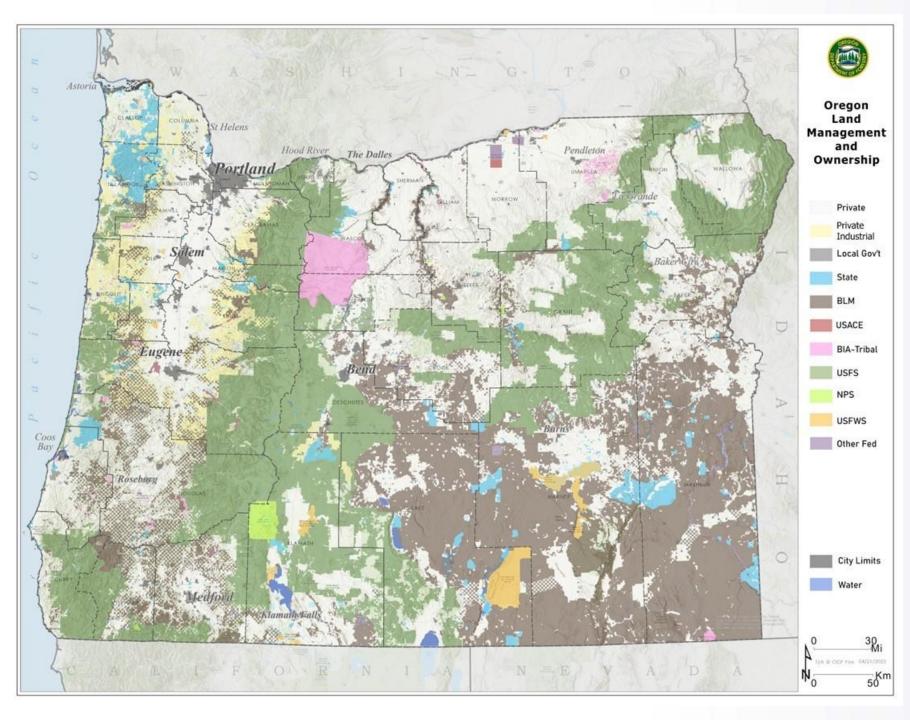
- 100+ year premise remains constant protect Oregon's forest land through aggressive IA to contain cost and minimize resource loss
- Fire Protection is a partnership (landowners, ODF and the State)
- Protection responsibility is intermingled with 1,000s of miles of common boundaries

"Fires don't recognize these boundaries"



WATER AREA 1,807,600

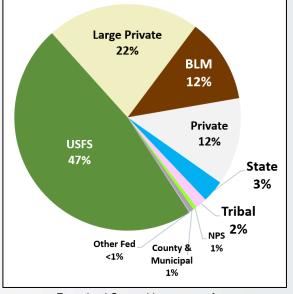
Acreages from OFRI 2023 Forest Facts





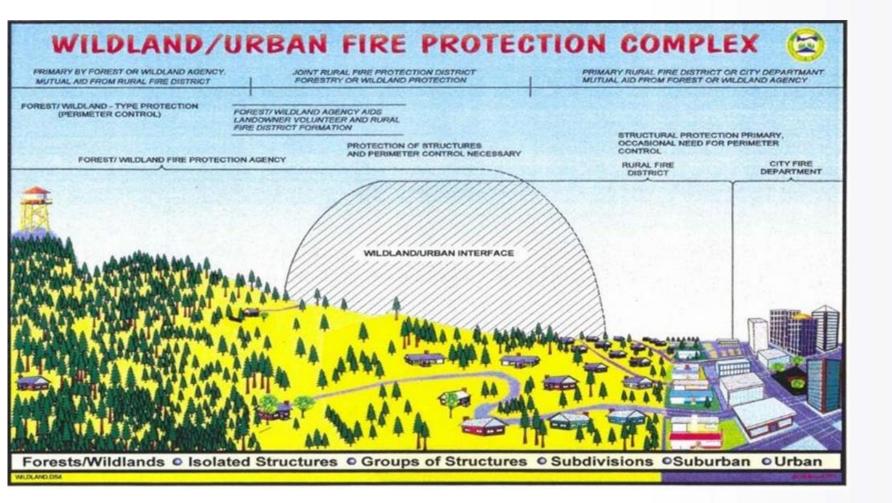
Land Management & Ownership

Forestland Ownership



Forestland Ownership acreages from **OFRI 2023 Forest Facts**





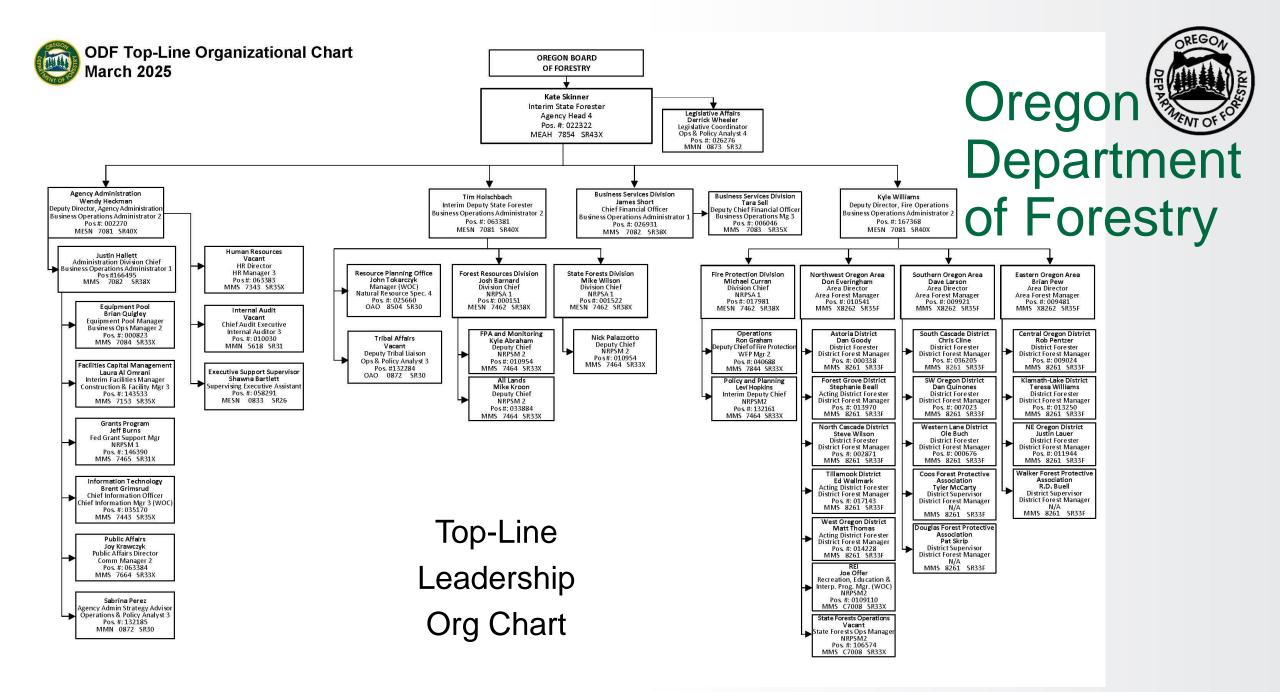
Overlapping Protection Systems

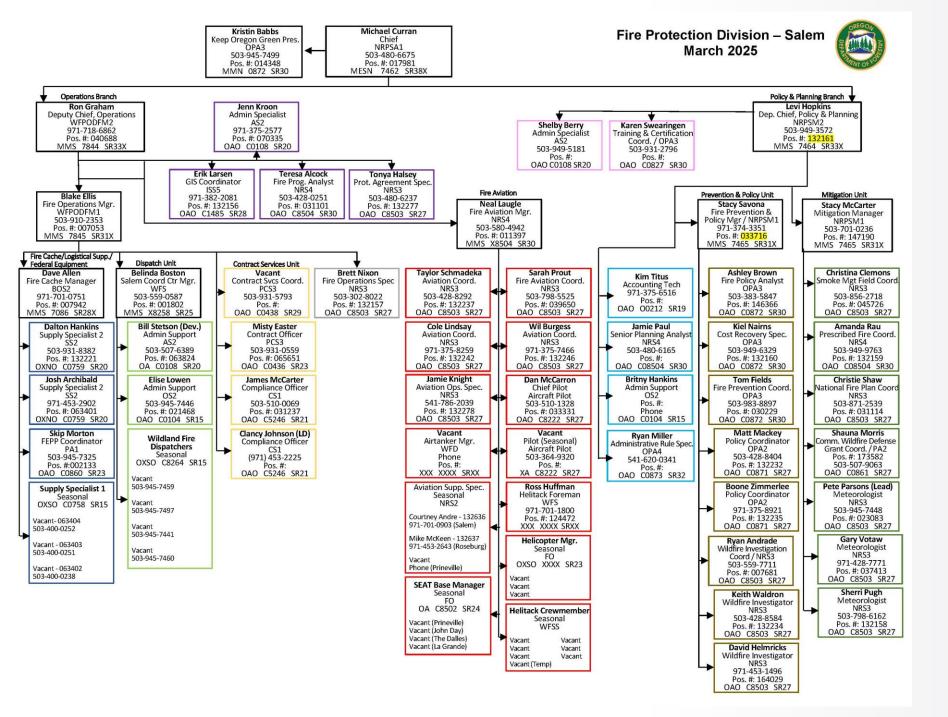
- wildland
- wildland-urbaninterface (WUI)
- rural
- structural

Introduction to ODF

- Agency Organization
 - Salem, Field
- ODF Protected Lands Map

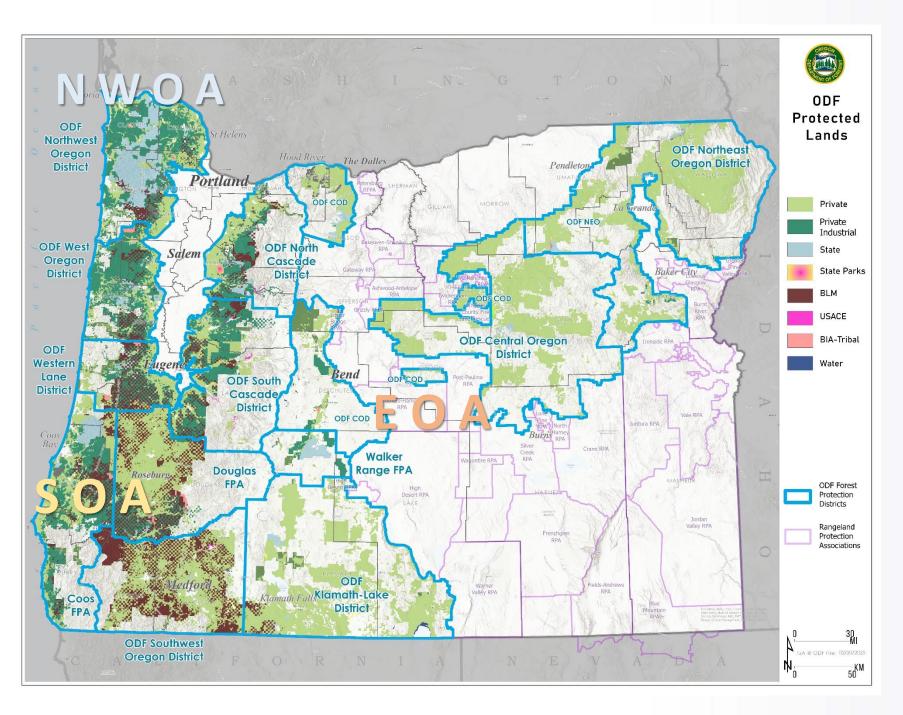








Protection Division Org Chart



ODF Protected Lands

- Showing Areas and Districts, of ODF
- Also showing Rangeland Fire Protection Associations
- Protection responsibility is intermingled with 1,000s of miles of common boundaries
- ODF protects ~16 million acres
- ODF fire protection is a partnership (landowners, ODF and the State)



Fire Protection Division

- Purpose, Policy, Primary Mission/Priorities
- Oregon's Complete and Coordinated Fire Protection System





Purpose, Policy, Primary Mission/Priorities

- Purpose:
 Protect Forests from Fire
- Forest Protection Policy: Preserve & conserve forest resources by preventing and suppressing forest fires
- Primary Missions/Priorities:
 - Protection of life
 - Protecting forest resources
 - Structural protection shall not inhibit forest resource protection



Thanks to Oregon's Complete and Coordinated Fire Protection System and partners throughout North America



Aviation, Crews, Resources

Incident Resource Agreements -- Resources413 Type 2
Crews72 Faller
Single, Faller
Mods66 Medical
(staff,
ambulances,
BCMU, REMS)5 Mobile
Showers240 Dozers
240 Dozers
186 Water Tenders52 Mobile
Showers5 Mobile
Showers

- 136 Engines
- 143 Log Truck/Loader/Shovel/Processors
- 92 Skidders/Skidgines
- 62 Feller Bunchers
- 60 Runners
- 41 Mulcher Masticators
- 40 Dump Trucks
- 14 Chippers

648 additional equipment, transports, overhead positions and services/supplies

Statewide Coordination

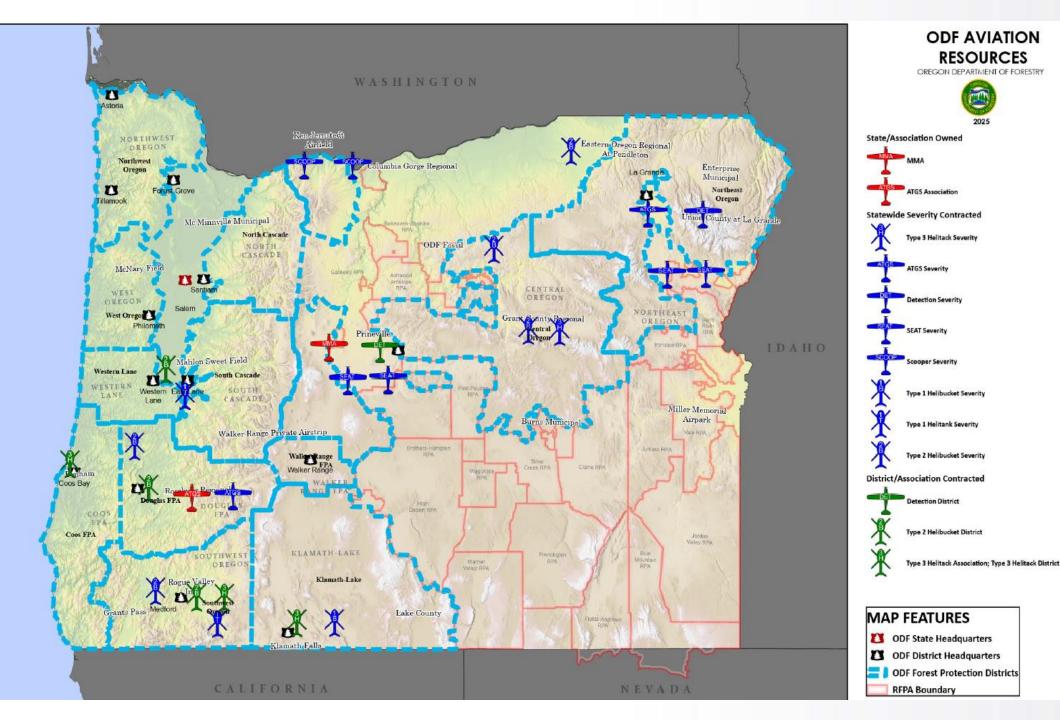
- Crews and Cooperators
- 3 Incident Management Teams & equipment
- Coordination with federal agencies
- 50+ aviation companies
- Landowners provide annually:
 - 640 trained personnel
 - 445 pieces of equipment
- Resources from 12 ODF Districts
 - 200 engines
 - 400 firefighters
 - 15 large bulldozers
 - Look-outs and dispatchers





Aircraft Type	Total (50)	Aircraft Mission	OREGON
Helicopter, Type 1 (Heavy)	3	Heavy Helicopter with 700 gallons of water capacity.	
Helicopter, Type 2 (Medium)	8	Medium Helicopter with 200-300 gallons of water capacity.	Aircraft
Helicopter, Type 3 (Light)	4	Light Helicopter with 100-150 gallons of water capacity. Aerial delivery of fire fighters with 100-150 gallons of water capacity.	Types and
Single Engine Air Tanker	4	Single Engine Air Tanker with 800 gallons of fire retardant capacity.	Missions
Single Engine Scoopers	2	Scooping Single Engine Air Tanker with 800 gallons of fire retardant capacity	
Detection Aircraft/Air Attack	8	Light Fixed Wing Aircraft used for Fire Detection and Aerial Supervision of Tactical Aircraft assigned to an incident.	
Unmanned Aircraft Systems (UAS)	25	Type 3 UAS (some with infrared capability) support fire line operations such as mapping, situational awareness and detection.	

Call When Needed (CWN)	"Severity"	Association/District	State/Association-Owned
Aircraft	Contracted Aircraft	Contract Aircraft	Aircraft
 43 - Type 1 Helicopters 46 - Type 2 Helicopters 42 - Type 3 Helicopters 24 - Light Fixed-Wings 25 - SEAT/Fire Bosses 8 - Large Air Tankers 5 - UAS Service Providers Total Aircraft: 198 	 2 – FW Air Attack 4 – Single Engine Air Tankers 2 – Single Engine Scoopers 3 – Light Fixed Wing 3 – Heavy Helicopter 5 – Medium Helicopters 1 – Light Helicopter (Helitack) Total Aircraft: 20 	3 - Medium Helicopters 3 - Light Helicopters (2 are Helitack) 1 - Light Fixed Wing <u>Total Aircraft: 7</u>	2 - Light Fixed-Wing 20 – Unmanned Aircraft Systems <u>Total Aircraft: 22</u>

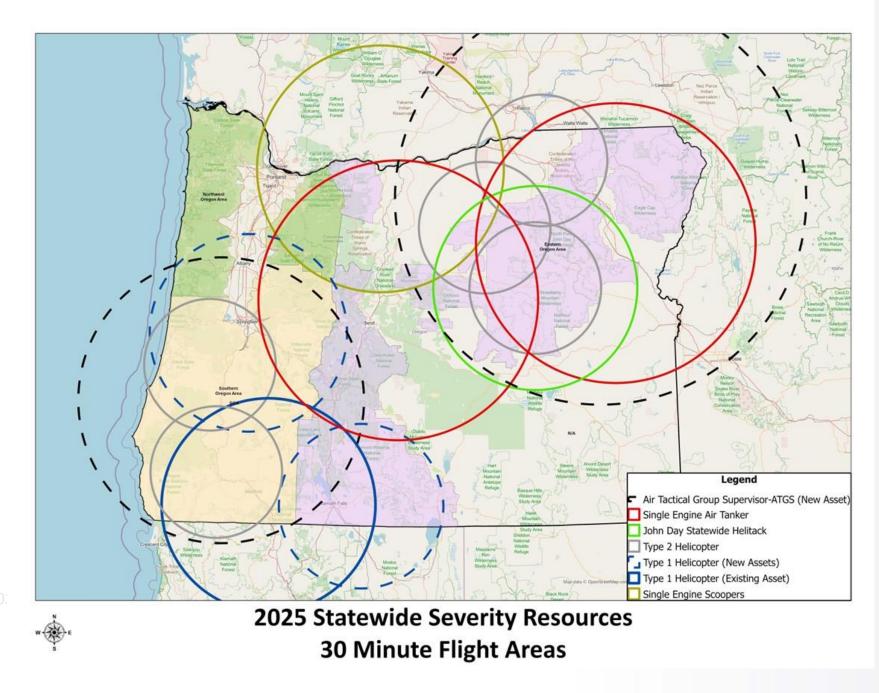




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2025

Aviation Resource Map

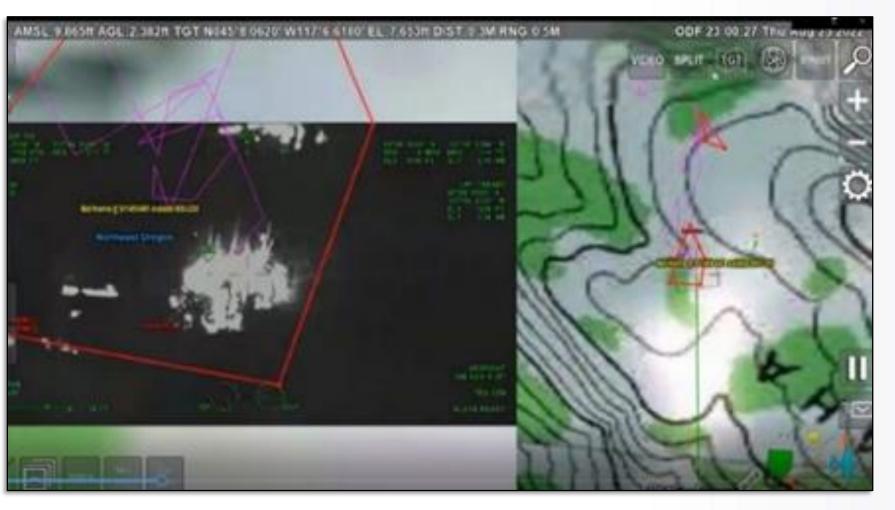




Aircraft 30-Minute Response Times

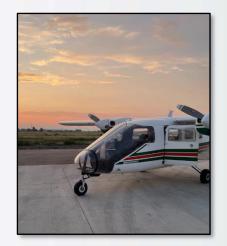
Statewide Severity Contracted Aircraft 30 Minute Response Times

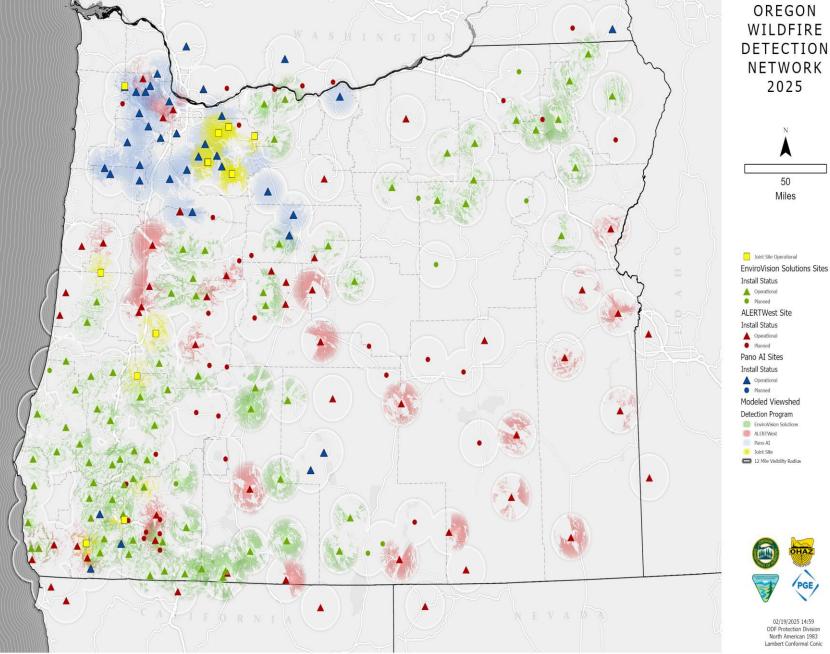
Draft 20



ODF Multi-Mission Aircraft

- IR and visible camera capability
- Video and images available in SOFSA





NETWORK 2025 50 Miles Joint Site Operational EnviroVision Solutions Sites **ALERTWest Site** Pano AI Sites Modeled Viewshed Detection Program EnviroVision Solutions 12 Mile Visibility Radius



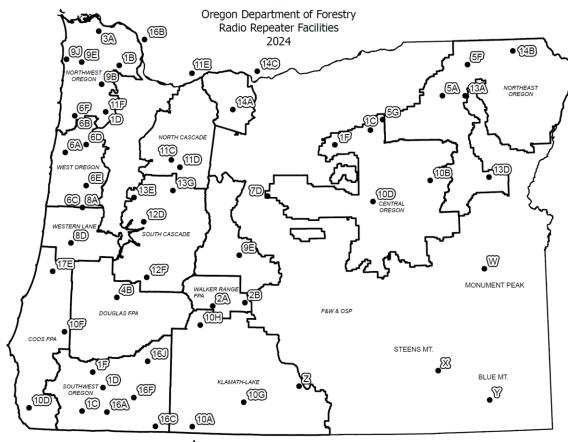
 3 detection camera systems in Oregon totaling 184 sites statewide

EVS Forest Watch (ODF)

▲ ALERTWest – (U of O Hazard Lab, USFS, BLM, CALFire)

A Pano.AI - (WDNR, Utilities)





CH = Channel Number

★ = Primary Relay ENC = Tone Encode DEC = Tone Decode

DIST	CHIENC NWOA	DEC		DIST	CHIENC SOA
AS	3A NICOLAI 🗙	A	1		13E SCOTT MT
	9E RECTOR	В		SC	13G COUGAR RO
ГМ	9J ANGORA	В		SC	12D MT NEBO
IIVI	6F HEBO	В			12F FAIRVIEW
	9B SO SADDLE 🖌	В		WL	8A PRAIRIE MT
	1B BUXTON	В		VVL	8D ROMAN NOS
FG	1D BALD HEAVEN	В		DG	4B DOUGLAS SYS
	16B GREEN MT	В	1		17E CFPA COOS
	11F HIGH HEAVEN 🔸	F	1	CS	10F SIGNAL TREE
NC	11E SKAMANIA	F	1		10D CFPA CURRY
NC	11C MT HOREB	F			1F SEXTON MT
	11D HALLS RIDGE	F			1C LITTLE GRAYB
	6E MARY'S PEAK 🚽	E			1D FIELDER MT
	6D LAUREL MT	E		SW	16F ROXY ANN
WO	6C PRAIRIE MT	E			16C SODA MT
	6A EUCHRE	E			16A TALLOWBOX
	6B HEBO	E			16J FLOUNCE RO

SOA	DEC		DIST	CHIENC EOA	DEC
ттмт 🛨	E]	WR	2A WALKER MT 🛛 🛨	Α
JGAR ROCK	E]	VVK	2B WASTINA	А
NEBO 🛨	D]		7D GRIZZLY 🛛 🛨	D
VIEW	D]		9E SUGAR PINE	D
RIE MT 🛨	Α]		1F SNOWBOARD	D
AN NOSE	Α]		1C MADISON	D
GLAS SYS 🛛 🛨	В		СО	10D ALDRICH 🛛 🛨	D
a coos 🛛 🛨	E]		10B DIXIE	D
IAL TREE	G]		14C STACKER 🛛 🛨	D
A CURRY	G			14A FLAG POINT	D
DN MT 🛨	F				
e grayback	F			5A TIP TOP	А
ER MT	F]		5G BLACK MT 🛛 🖈	А
YANN 🛨	F]	NE	14B COURTNEY	А
A MT	F]	INC	5F SPOUT SPRINGS	Α
OWBOX	F]		13A MT EMILY	А
JNCE ROCK	F]		13D BEAVER RIDGE	А

DIST	CHIENC EOA	DEC
	10A HAMAKER 🛛 🛨	A
KL	10G YAINAX BUTTE	Α
	10H WELCH BUTTE	Α
E 8 1 4 /	MONUMENT PEAK	W
F&W &	STEENS MT	X
∝ OSP	BLUE MT	Y
USP	ROUND PASS	Z

Α					
Α		RX	TX	ENC	DEC
Α	W	151.1900	159.3525	131.8	151.4
Α	Х	151.1900	159.3525	151.4	151.4
Α	Y	151.1900	159.3525	167.9	151.4
Α	Z	151.2050	159.3375	167.9	151.4
	A A A	A W A X A Y	A W 151.1900 A X 151.1900 A Y 151.1900	A W 151.1900 159.3525 A X 151.1900 159.3525 A Y 151.1900 159.3525	A W 151.1900 159.3525 131.8 A X 151.1900 159.3525 151.4 A Y 151.1900 159.3525 167.9

Name	СН	RX	ТХ	ENCODE	DECODE	MOBILE
District Repeater	1	151.1450	159.2850		Decode	TONES
District Repeater	2	151.1525	159.3150		is	A (1)=131.8
District Repeater	3	151.1600	159.2925		optional	B (2)=146.2
District Repeater	4	151.1600	159.4275			C (3)=151.4
District Repeater	5	151.1600	159.4425			D (4)=162.2
District Repeater	6	151.1675	159.3225			E (5)=167.9
District Repeater	7	151.1750	159.2925			F (6)=179.9
District Repeater	8	151.1825	159.3075			G (7)=141.3
District Repeater	9	151.1900	159.4425			H (8)=156.7
District Repeater	10	151.2050	159.3750			J (9)=173.8
District Repeater	11	151.2050	159.4350			
District Repeater	12	151.2200	159.3975			
District Repeater	13	151.2425	159.4050			
District Repeater	14	151.4375	159.3975			
District Repeater	15	154.1150	159.2550			
District Repeater	16	151.1750	159.4125			
District Repeater	17	151.4375	153.7850			
Red Net	18	151.3400	151.3400	156.7	156.7	
White Net	19	151.3100	151.3100	156.7	156.7	
Blue Net		159.2625	159.2625	156.7	156.7	
Orange Net	21	156.0225	156.0225	156.7	156.7	
Green Net	22	172.2250	172.2250	156.7	156.7	
NICS-Call UP	23	168.5500	168.5500			
NICS-OSDF-Tac	24	159.2400	159.2400	156.7	156.7	
NICS-USFS-Tac	25	168.2000	168.2000			
NICS-BLM-Tac	26	173.6750	173.6750			
NICS-Fire Marshall	27	154.2800	154.2800			
NICS-WDNR-Tac		151.4150	151.4150	103.5		
Fire Cache Tac 1	29	151.2350	151.2350	156.7	156.7	
Fire Cache Tac 2	30	151.2500	151.2500	156.7	156.7	
Fire Cache Tac 3	31	151.3550	151.3550	156.7	156.7	
Fire Cache Tac 4	32	151.3850	151.3850	156.7	156.7	
Fire Cache Tac 5	33	151.4150	151.4150	156.7	156.7	
Fire Cache Tac 6		151.4600	151.4600	156.7	156.7	
Fire Cache Tac 7	35	151.4750	151.4750	156.7	156.7	
Fire Cache Tac 8	36	151.4900	151.4900	156.7	156.7	
F/C Net 1 RPTR	37	151.4000	159.4650	131.8		
F/C Net 1 Backup	_	151.4300	159.4500	131.8		
F/C Net 2 RPTR	39	151.4450	158.8950	146.2		
F/C Net 2 Backup	40	151.4300	159.4500	146.2		
F/C Net 3 RPTR	41	151.2800	159.2700	162.2		
F/C Net 3 Backup	42	151.4300	159.4500	162.2		
VCALL10	43	155.7525	155.7525	156.7	156.7	
VTAC11	_	151.1375	151.1375	156.7	156.7	
VTAC12		154.4525	154.4525	156.7	156.7	
VTAC13		158.7375	158.7375	156.7	156.7	
VTAC14		159.4725	159.4725	156.7	156.7	
VMED29	_	155.3475	155.3475	156.7	156.7	
Air Guard	49	168.6250	168.6250	110.9		

Statewide Radio Network



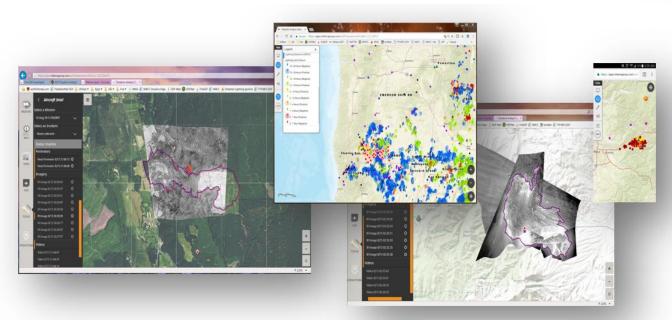
Note: Destroy All Previous Copies

Not all frequencies are licensed for statewide use. Please direct any questions to the ODF Radio Unit.

POWER KENWOOD UCH CHI CK BST CK BST CD DIM SO SP RCL HC







SOFSA: State of Oregon Fire Situation Analyst

- Statewide common operating picture of wildfire incidents and response for the Oregon Department of Forestry and the Oregon State Fire Marshal
- Available on any device with internet connection
- Register here:

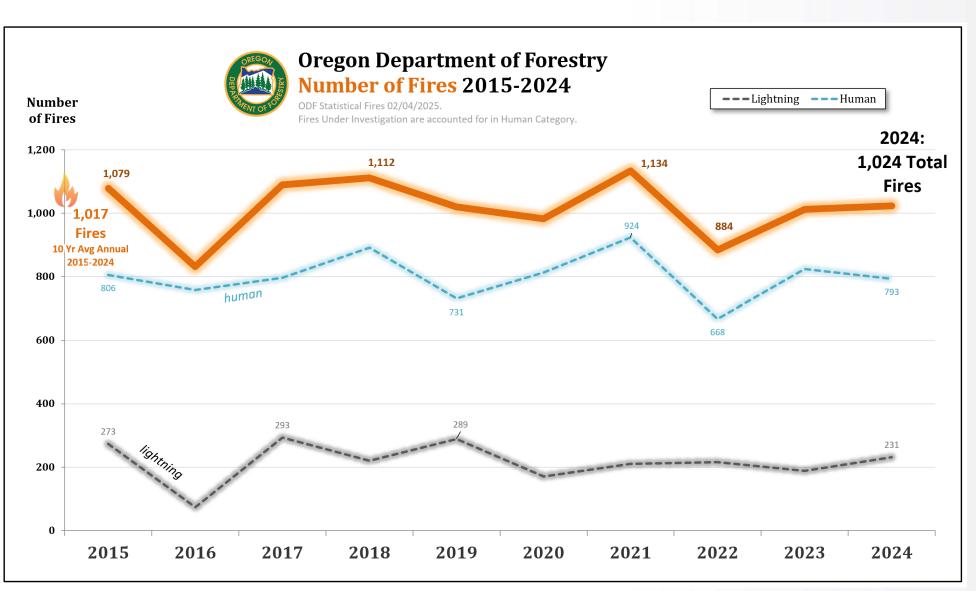
https://www.oregon.gov/odf/fire/pages/contact-sofsa.aspx



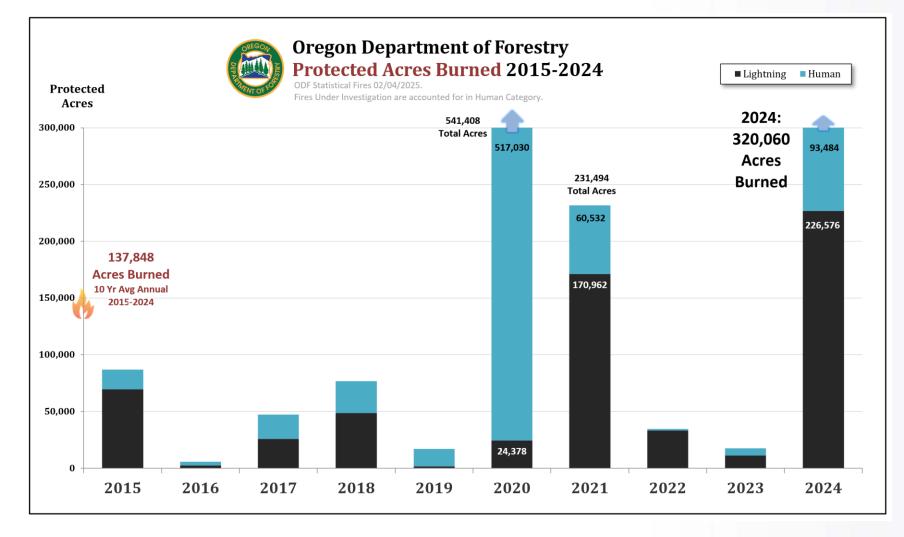


Fire History Fire Environment

- Recent Fire History
- Oregon Decadal Fire History Maps
- Large Fire Costs and Fire Suppression Effectiveness
- NFDRS
- Pocket Cards
- Significant Fire Potential



ODF Recent Fire History: Number of Fires



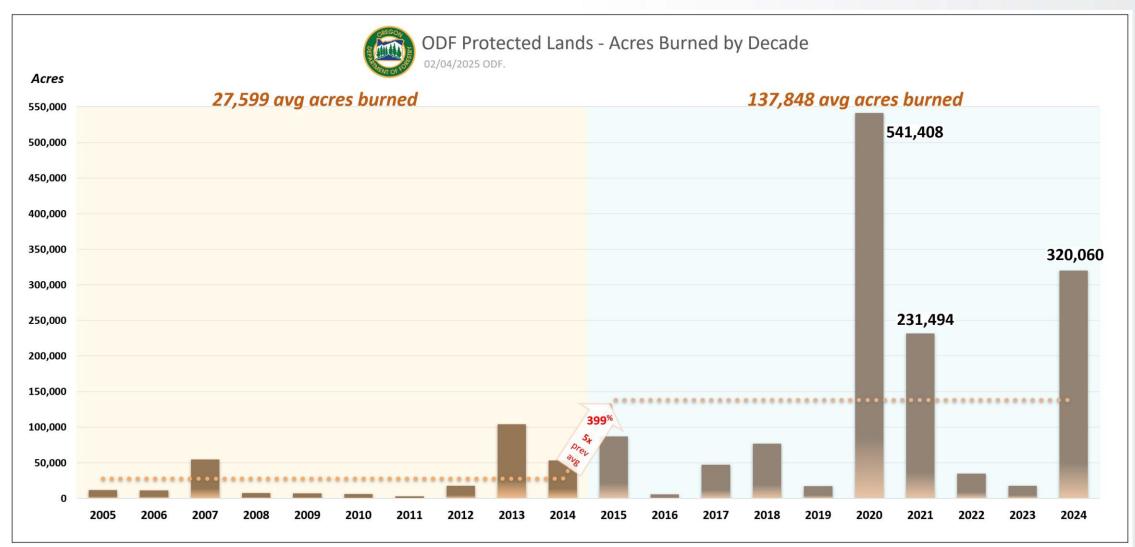
ODF Recent Fire History: Acres Burned

On average, 47% of Oregon wildfires start within ODF Districts, but only 18% of the state's acres burned are on ODF protected lands.

In 2024, ODF had 45% of statewide fires, and only 16% of statewide acres burned.

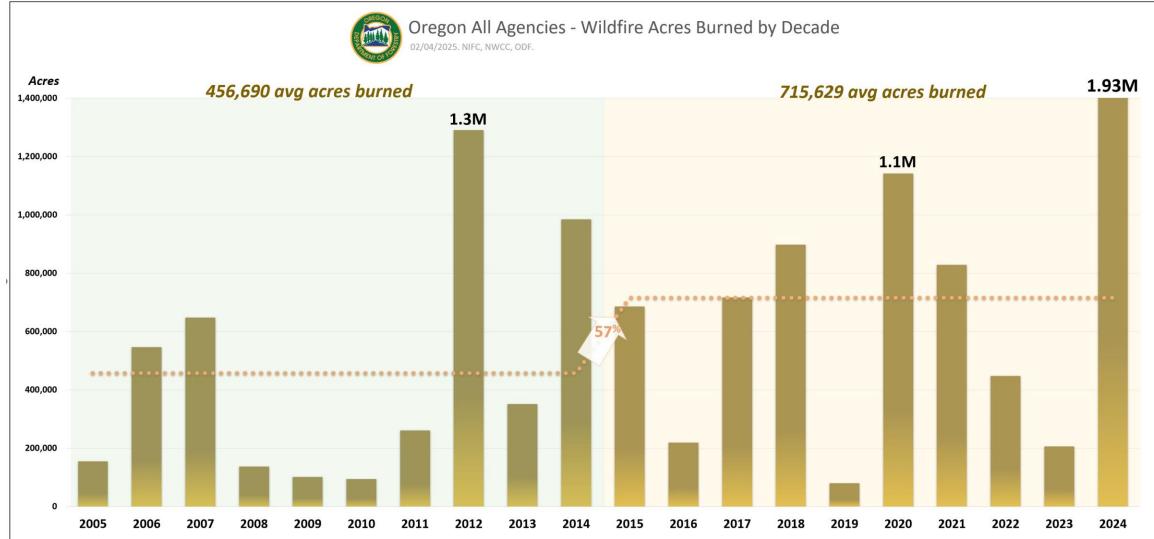
Acres Burned by Decade – ODF Protection



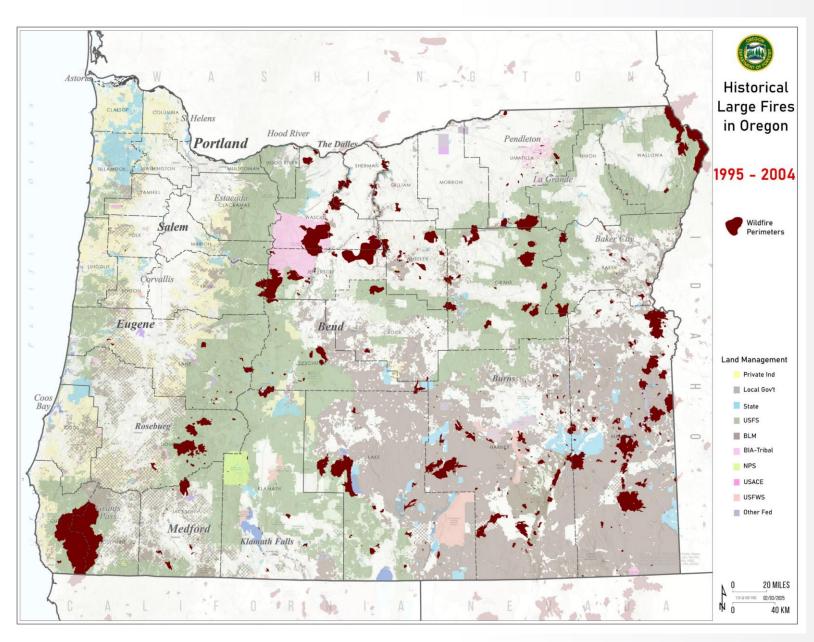


Acres Burned by Decade – All Jurisdictions



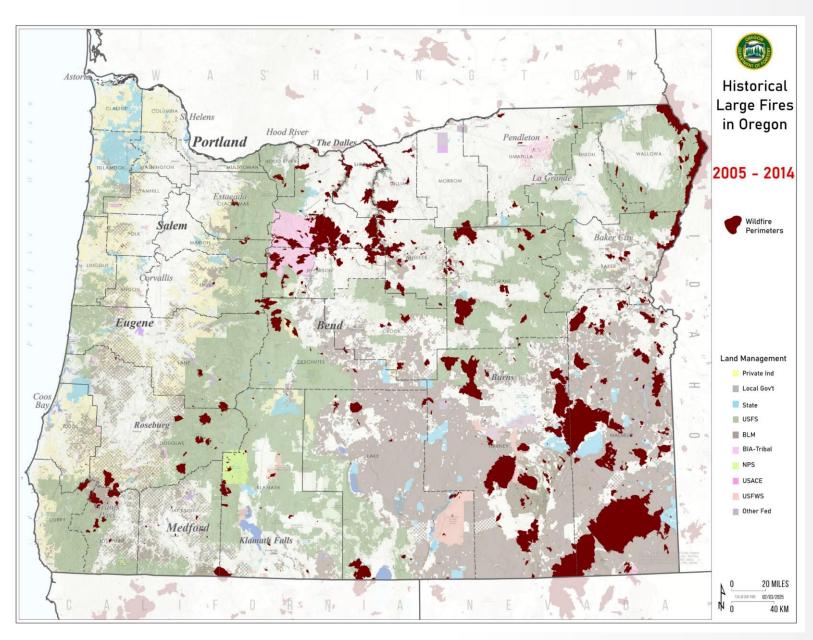


Oregon Large Fire History 1995-2004



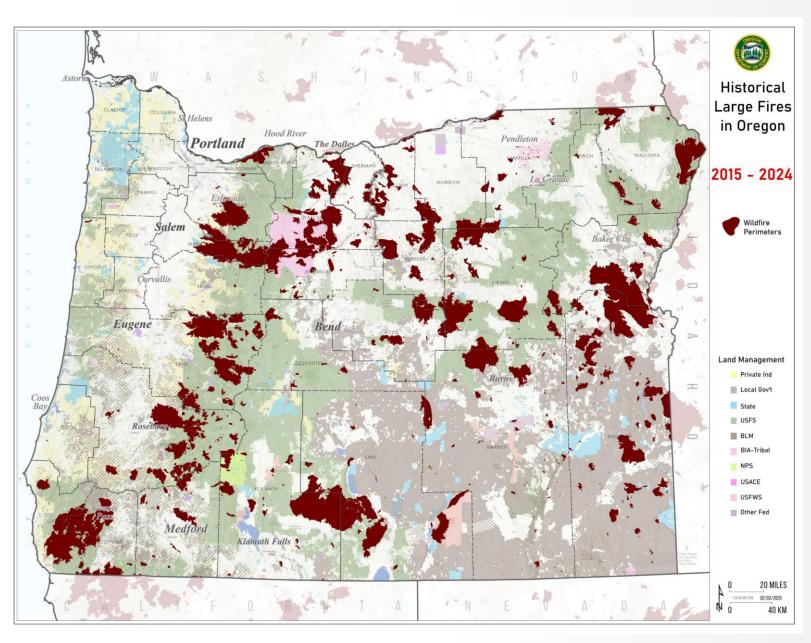


Oregon Large Fire History 2005-2014





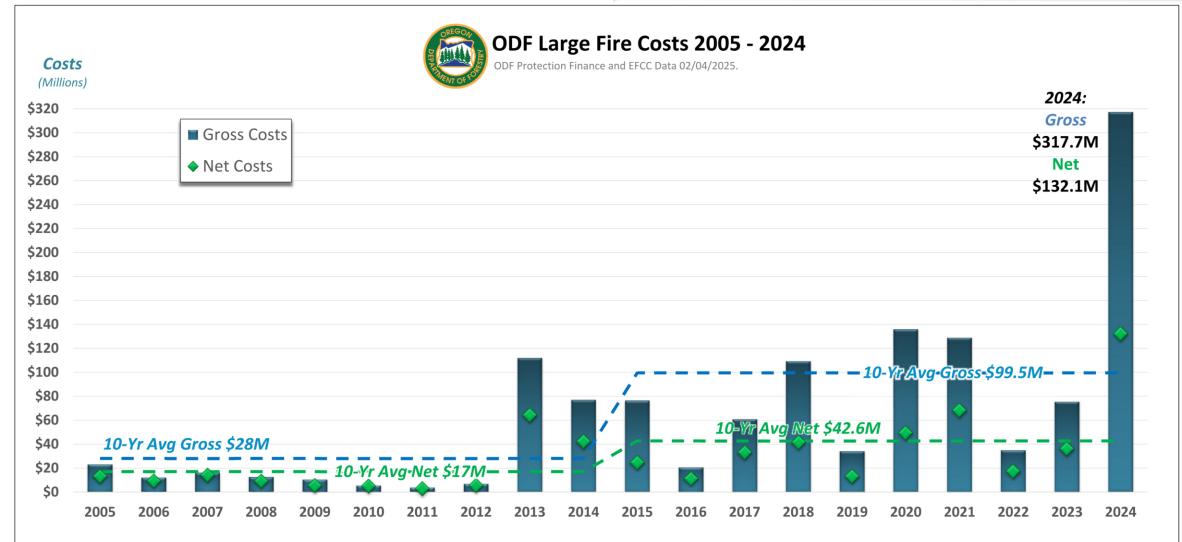
Oregon Large Fire History 2015-2024

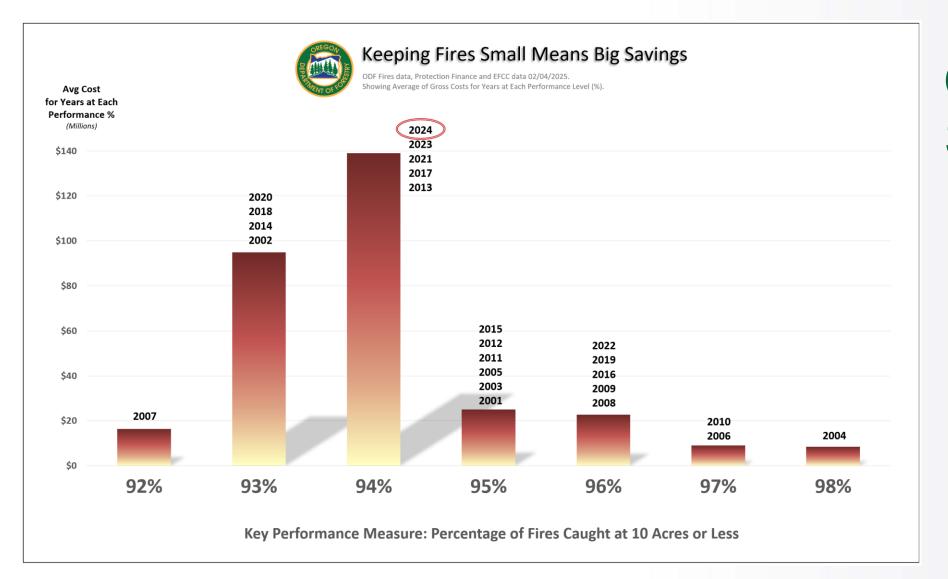




ODF Large Fire Costs 2005-2014

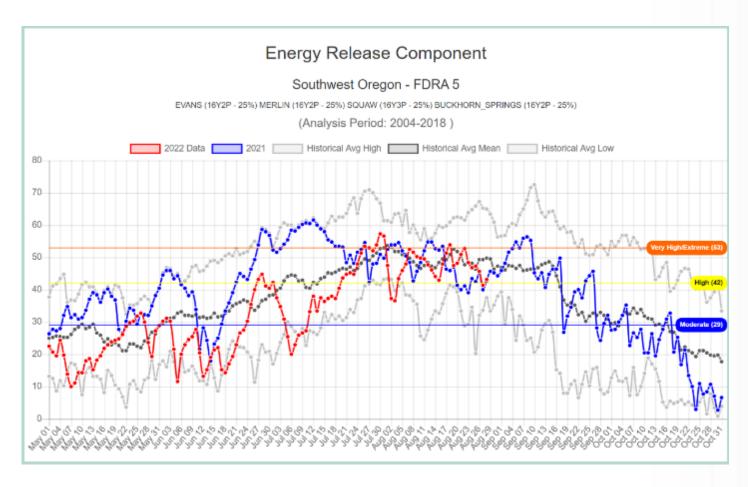






ODF Fire Suppression Effectiveness





- NFDRS gives *ratings of potential* for fires to ignite, spread, and require suppression.
- Outputs are shown in Charts, Pocket Cards, Fire Danger Operating Plans, Maps



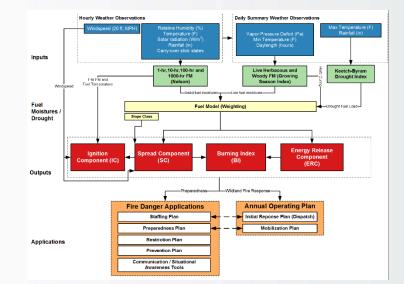


- The National Fire Danger Rating System (NFDRS) is a computer model that allows land management agencies to estimate fire danger across a landscape
- It is a decision support tool for management decisions and to support firefighter safety
- NFDRS was implemented in 1972 to give a consistent national approach to fire danger
- In 1994 ODF adopted the system and in 2022 ODF transitioned to the updated version 4 NFDRS

Inputs	Outputs
 Historical weather data from Remote Automatic Weather Station (RAWS) (temp, RH, wind, etc.) Historical fire data (date, size, cost (ODF), location) Fuel model, topography, climate class 	 ERC (Energy Release Component) Available energy at the head of the fire (BTU/ft2) SC (Spread Component) Rating of the forward rate of spread(Ft/Min) BI (Burning Index) Difficulty to control fire Combination of ERC & SC IC (Ignition Component) Probability that a firebrand will cause a fire requiring suppression Fuel Moisture Estimates

NFDRS Inputs and Outputs



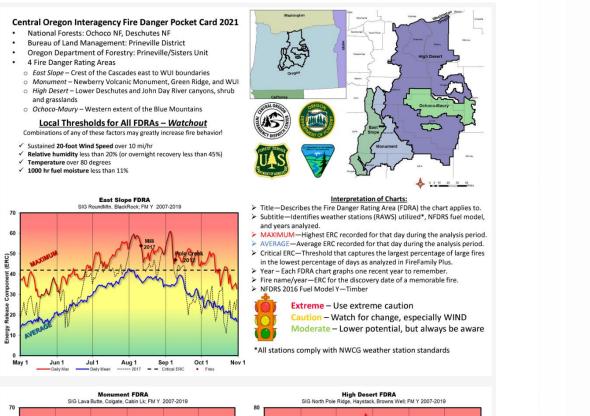


Fuel Models of NFDRS V4

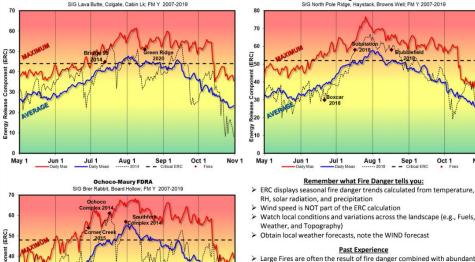
 Table 8

 New fuel models for NFDRS V4 and their mappings to Fire Behavior Fuel Models (FBFMs) from Scott and Burgan

FM Code	Fuel Type	FBFM Equiv	Code
V	Grass	Grass 2	GR2 (102)
W	Grass-Shrub	Grs-Shrub 2	GS2 (122)
X	Brush	Shrub 9	SH9 (149)
Y	Timber	Timber litter 1	TL1 (181)
Z	Slash	Slash-Blowdown 2	SB2 (202)



Oct 1



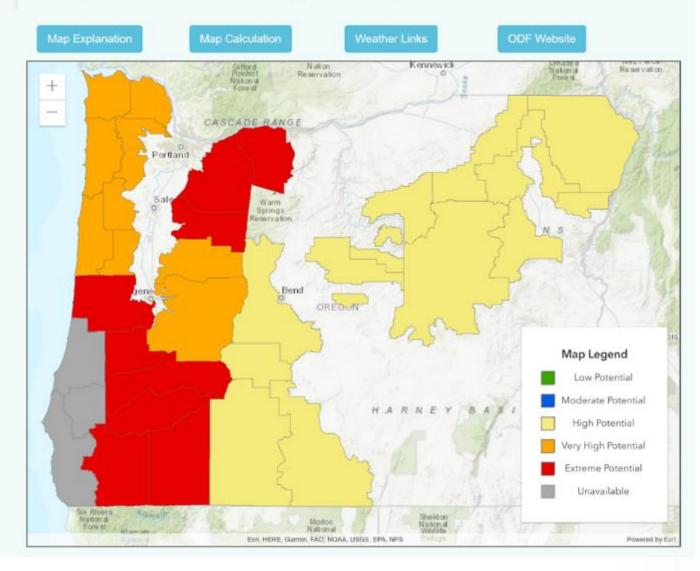
NFDRS Pocket Cards



- Created for every Fire Danger Rating Area using local parameters and thresholds
- Describes watch-out conditions and past fire experience in terms of NFDRS
- Many in Oregon are interagency cards
- Visit this web page for current ODF pocket cards or capture the QR code below: https://www.oregon.gov/ODF/Fire/Pages/ firefighting.aspx



The ODF Significant Fire Potential Map displays ODF fire business thresholds indicating the potential for significant fires costing more than \$25K to occur. The map is not an adjective class rating or Fire Danger map, or a Regulated Use map. For Fire Danger maps try USFS WFAS Observed and Forecasted Fire Danger map products. For ODF Regulated Use and Industrial Fire Precaution Levels, please see the ODF Statewide Regulated Use Map.



ODF Significant Fire Potential



- The map shows the potential for large costly fires using an ODF cost factor
- Click any ODF District on the map to view daily NFDRS charts (ERC, etc.)





Fire Finances

- Types of Employees & Resources
- Shift Tickets & Time Tracking
- Meal Breaks
- Line Supervisor Responsibility
- Additional Finance Reminders



Types of Employees & Resources



- Government Personnel (State, Federal, County, etc.)
- Severity and Call-When Needed Aircraft
- Contract Equipment and Supplies
- Crews
 - Contract Crews (20 firefighters)
 - Inmate Crews (10 inmates)
 - District Crews (5-10 firefighters)
- Administratively Determined (AD) temporary state employees

3. OWNER/CONTRACTOR (name) 4. CONTRACT/AGREEMENT NUMBER 5. RESOURCE REQ 6. TYPE OF RESOURCE: 7. ORDERED DOUBLE SHIFTED 8. INCIDENT NAME 9. INCIDENT NUMBER 10. EQUIPMENT TYPE 11. EQUIPMENT MAKE/MODEL 12. REMARKS (released, down time and cause, problems, etc.) 12. REMARKS (released, down time and cause, problems, etc.) 13. OWNER ID NUMBER 14. LICENSE, VIN, SERIAL OR TAIL # 12. REMARKS (released, down time and cause, problems, etc.) 15. DATE 16. EQUIPMENT USE (circle one) 19. FLIGHT 20. OPERATOR/PERSONNEL 21. JOB PERSONNEL TIME 24. PERSONNEL SIGNATURES 17. BEGIN 18. END 22. BEGIN 23. END 24. PERSONNEL SIGNATURES 25. DIV SUP/ODF REP PRINT SIGNATURE 26. DATE SIGNED 27. POSTED BY	EMERGE		MENT/PE	RSONN	EL SHI	FT TICKET			1. DIV/UNIT		2. SHIFT
GOVERNMENT CONTRACT PRIVATE YES NO Image: Contract in the image: Contract in	3. OWNER/CONTRACTOR (name)							4. CONTRACT/AGREEMENT NUMBER			5. RESOURCE REQ NO
13. OWNER ID NUMBER 13. OWNER ID NUMBER 14. LICENSE, VIN, SERIAL OR TAIL # 5. DATE 16. EQUIPMENT USE (aircle one) 19. FLIGHT 20. OPERATOR/PERSONNEL 21. JOB PERSONNEL TIME 24. PERSONNEL SIGNATURES MO/DAY/YR HOURS MILES HOBBS DAYS 19. FLIGHT 20. OPERATOR/PERSONNEL 21. JOB PERSONNEL TIME 24. PERSONNEL SIGNATURES MO/DAY/YR HOURS MILES HOBBS DAYS 19. FLIGHT 20. OPERATOR/PERSONNEL 21. JOB PERSONNEL TIME 24. PERSONNEL SIGNATURES 17. BEGIN 18. END 22. BEGIN 23. END 23. END 24. PERSONNEL SIGNATURES 17. DEGIN 18. END 22. BEGIN 23. END 24. PERSONNEL SIGNATURES 18. END 21. JOB PERSON 24. PERSONNEL SIGNATURES 19. OPERATOR 18. END 22. BEGIN 23. END 19. OPERATOR 19. OPERATOR 19. OPERATOR 19. OPERATOR 19. OPERATOR 19. OPERATOR 19. OPERATOR 19. OPE							8. INCIDENT NAME			9. INCIDENT NUMBER	
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EEST.doc/Jaz F (Prot-Fire Finance Comm Forms)

Shift Tickets & Time Tracking



Shift Ticket Types

- Aircraft Shift Tickets
- Equipment/Personnel Shift Tickets • (Government, Contract Equipment & Supplies, AD personnel)
- Crew Shift Tickets •
- Complete all fields on a shift ticket
 - Equipment information is just as ٠ important as time worked.
 - Line supervisor needs to sign. ٠
- Federal Employees and Crews may use their agency shift tickets instead of ODF shift tickets.





Meal Breaks



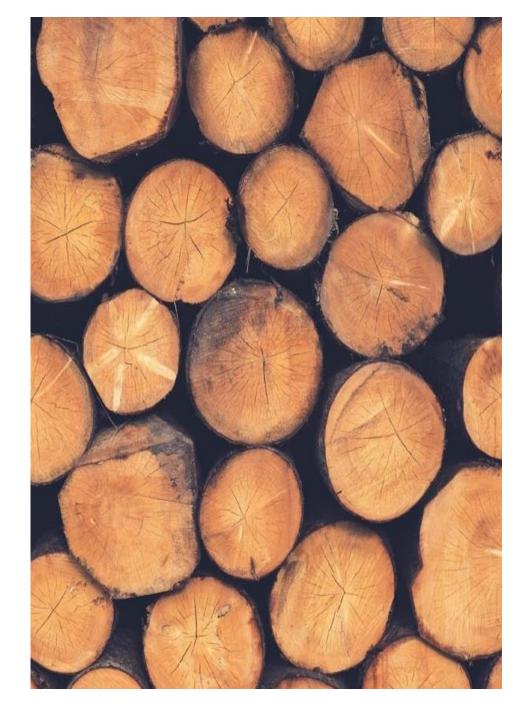
- ODF employees receive paid meal breaks at an incident per union contract.
- Contract firefighting resources record meal breaks on shift tickets.
- Other agency employees should follow their own agency policy regarding breaks on a fire and record that on shift tickets.
- Resources may not have to show a meal break if the fire line is uncontrolled (determined by the Incident Commander).

- Review shift ticket for accuracy and completeness.
- Sign shift ticket if you have witnessed the work as you are obligating ODF state funds.
- If resources did not take a meal break due to line being uncontrolled, note "No Meal Break -Uncontrolled".
- Collect the white and green copies of the shift ticket.
- Supervisor turns the white shift ticket into finance. This may be done via an incident specific email if set up by the IMT.
- Supervisor keeps the green copy of shift ticket as reference.
- Contract equipment without an operator is not paid.
- For contract firefighting crews, only the crew boss is paid for briefing.
- If resource has been notified of release, note the time and date of release on final shift ticket. Indicate travel time with 'TT' note next to time.
- At the end of the assignment, personnel will receive a time report. from the Finance Section, showing hours worked on.

Line Supervisor Responsibility







Additional Finance Reminders



- Incident Resource Agreements (IRA) are ODF specific contractor agreements. ODF also uses Federal VIPR agreements for contractors.
- Do not make any promises to contractors or landowners for obligation of state funds for repair of equipment or land. Talk to the Finance Section first.
- If items are lost/destroyed on the fire line (contractor or agency owned), document the loss on a General Message.
- ODF uses the ODF SharePoint platform for document storage, NOT FireNet.
- Specific finance instruction can be obtained from an ODF Finance Section Chief, ODF District Business Manager, or ODF Incident Business Advisor.

Safety and Risk Management

- Overview
- Driving and Vehicle Use
- Claims
- Other Hazards



- Work to Rest Ratio is 2:1, shifts should not exceed 16 hours per day
- After 14 days or before 21 days, a day of rest and rotation will be scheduled
- Accidents are reported to your immediate supervisor
- Incident Analysis Investigation Forms are completed for all injuries or accidents
- All injury or accident reporting forms are available from the Safety Officer
- Each agency is responsible to use their own forms for hospital or doctor visits

Safety & Risk Management Overview







Driving is one of the most dangerous things you will ever do at home and at work

An Accident Report Packet for state-owned vehicles should be located in the glove box of every state-owned vehicle.







- While on travel status requiring and overnight stay, a department vehicle may be used for transportation to meals and recreation
- Seatbelts are required at all times
- Cell Phones: Talking on a cell phone with a hands-free device while driving is acceptable in ODF vehicles and personal vehicles while on ODF business. Texting, e-mailing and holding a phone to your ear is not.

- If private property is damaged, property owners can file a claim through Risk Management
- Do not promise repair or reimbursement
- Forms are available in the Finance Section
- Claim forms are completed by the property owner and mailed to the address on the form

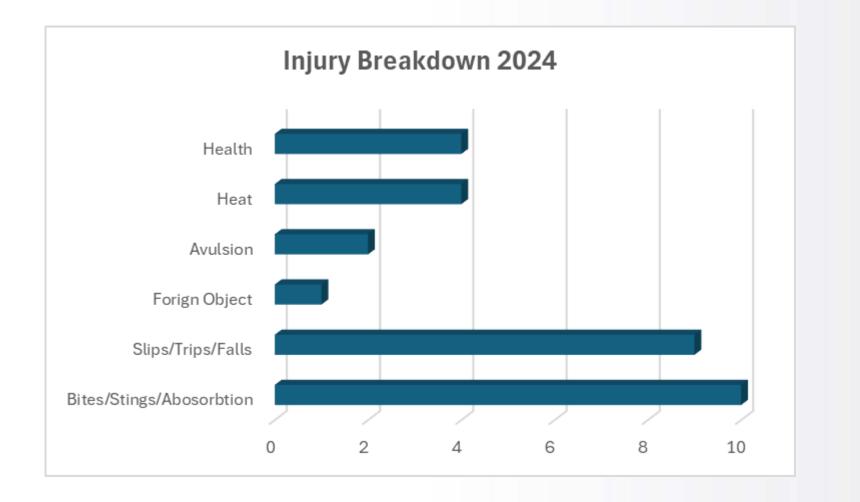






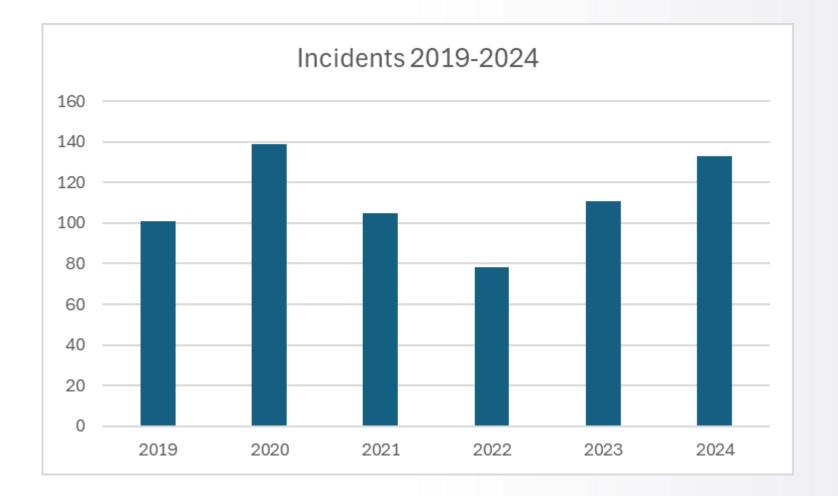
Injury Breakdown for 2024 Fire Season





6 Year Incident Stats







Other Hazards



- Smoke
- Poison Oak, Bees, Snakes, Bears
- Hazard trees and snags
- Abandoned mine shafts
- Steep, rugged terrain, rolling materials, loose and rocky soil
- Extreme weather conditions
- Downed power lines

Thank you

...and welcome to Oregon

FSS