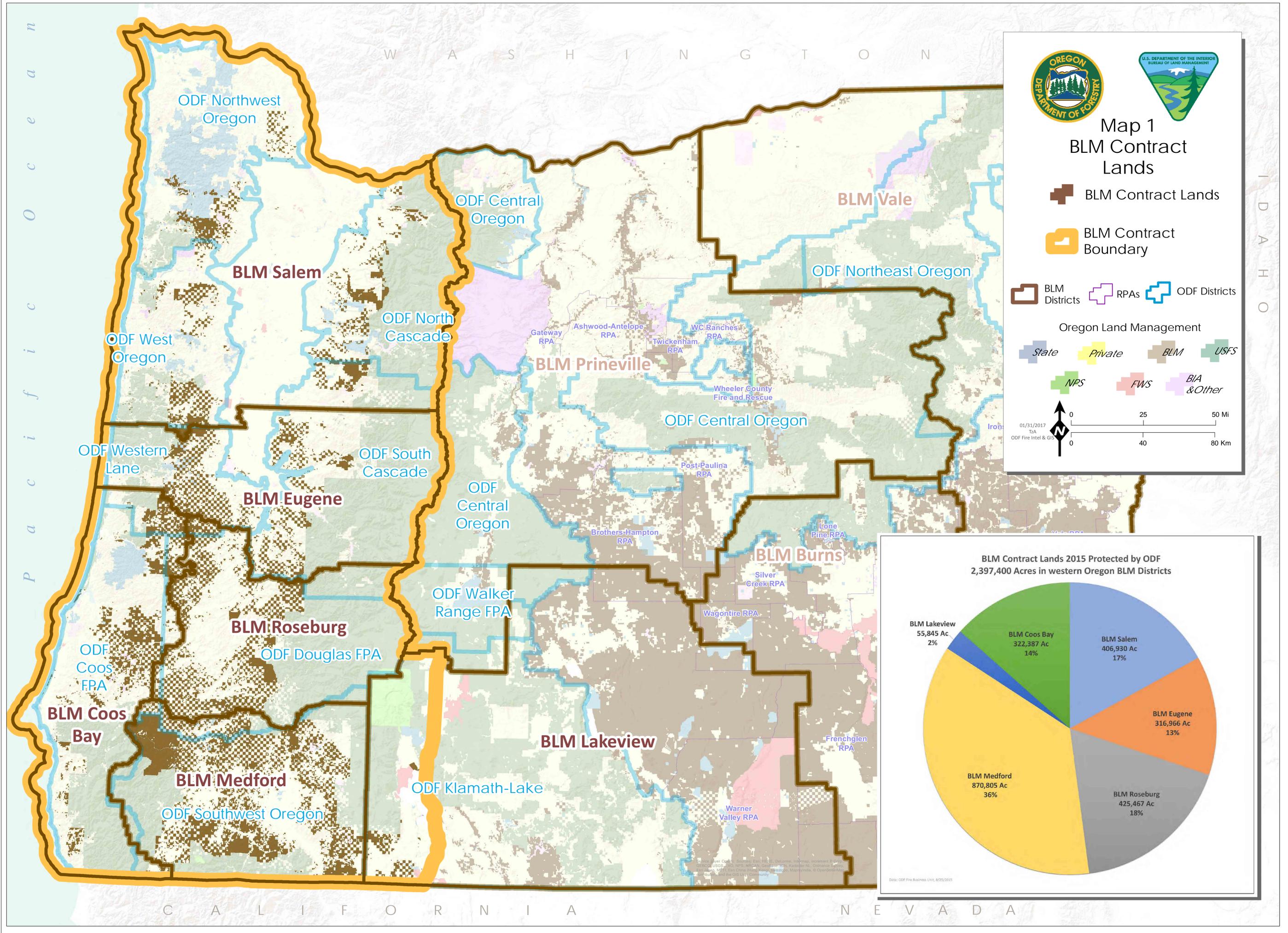


**BLM Western Oregon Protection Study  
2006 - 2015**



**Appendices**

**February 2017**





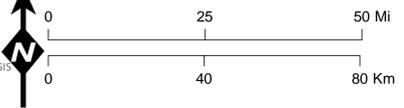

### Map 1 BLM Contract Lands

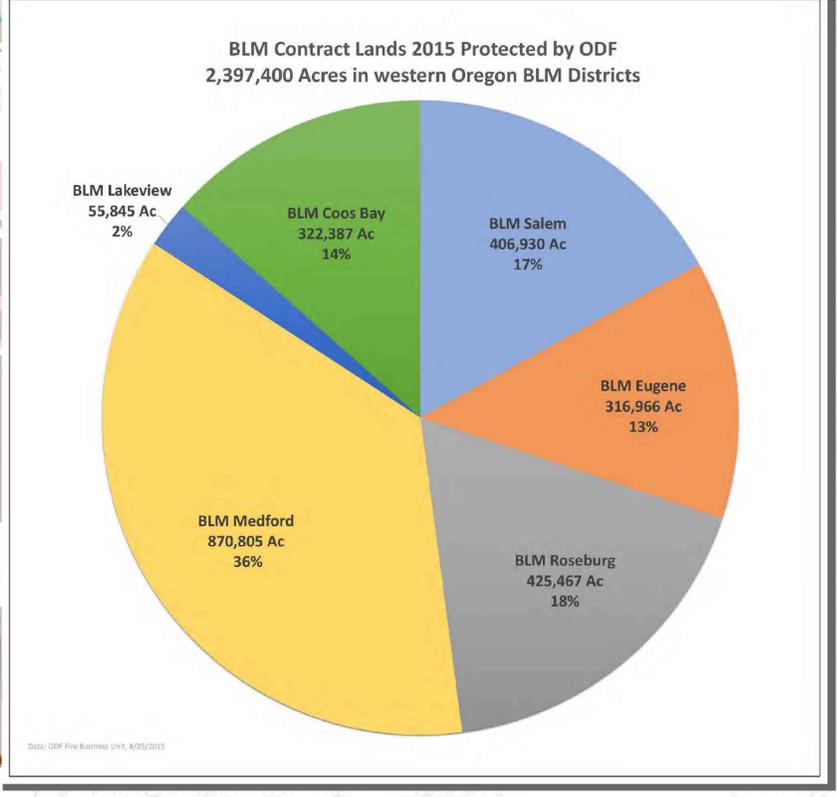
- BLM Contract Lands
- BLM Contract Boundary
- BLM Districts
- RPAs
- ODF Districts

Oregon Land Management

- State
- Private
- BLM
- USFS
- NPS
- FWS
- BIA & Other

01/31/2017  
TZA  
ODF Fire Intel & GIS









WESTERN OREGON/BLM  
PROTECTION STUDY

Table 1 - OFLPF Revenue Summary

Oregon Forest Land Protection Fund (OFLPF) Revenue												
2006 - 2015 Total Fund Compariason - Statewide & Study Area Only												
10 Year Summary 2006-2015	OFLPF Revenue Totals <sup>1</sup>				BLM Contributions				Other Public & Private <small>(State &amp; Local Govt., Large &amp; Small Private, Private Non-Profit)</small>			
	Harvest Tax <sup>1</sup> / Acres	Acreage Assessments	Minimum / Improved Lots	Total & \$/Ac	Harvest Tax / Acres	Acreage Assessment	Minimum / Improved Lots	Total & \$/Ac	Harvest Tax /Acres	Acreage Assessment	Minimum / Improved Lots	Total & \$/Ac
<b>Statewide</b>	\$20,685,058	\$9,164,418	\$72,910,960	\$102,760,436	\$913,410	\$1,200,144	N/A	\$2,113,554	\$19,771,648	\$7,971,435	\$72,910,960	\$100,654,043
<b>Ave \$/ Acre</b>	\$0.1312	\$0.0581	\$0.4625	\$0.6519	\$0.0381	\$0.0501		\$0.0882	\$0.1479	\$0.0596	\$0.5454	\$0.7529
BLM 2,394,974 Ac.							% of Total Revenue	2.06%			% of Total Revenue	97.94%
Other 13,369,431 Ac.							% of Total Acres	15.02%			% of Total Acres	84.81%
<b>BLM Study Area<sup>2</sup></b>	\$19,234,879	\$6,457,130	\$55,458,566	\$81,150,575	\$894,147	\$1,200,144	N/A	\$2,094,291	\$18,340,732	\$5,256,985	\$55,458,566	\$79,056,283
<b>Ave \$/ Acre</b>	\$0.1794	\$0.0602	\$0.5174	\$0.7570	\$0.0373	\$0.0501		\$0.0874	\$0.2203	\$0.0631	\$0.6662	\$0.9497
BLM 2,394,974 Ac.							% of Total Revenue	2.58%			% of Total Revenue	97.42%
Other 8,324,691 Ac.							% of Total Acres	22.34%			% of Total Acres	77.66%

<sup>1</sup> Does not include USFS Forest Products Harvest Tax

<sup>2</sup> Data for BLM Study Area uses Klamath (west) current acres and numbers, but adjusted for applicable assessment rates for the study period.

Table 1B - Statewide OFLPF Revenue



Statewide Oregon Forest Land Protection Fund (OFLPF) Revenue																
2006 - 2015 Total Fund Comparison																
Year	OFLPF Revenue Totals - All Sources <sup>1</sup>						BLM Contributions Only					Other Public & Private (State & Local Govt., Large & Small Private, Private Non-Profit)				
	Acres	Harvest Tax <sup>1</sup>	Acreage Assessments <sup>2</sup>	Minimum / Improved Lots <sup>3</sup>	Interest Income	Total & \$/Ac	Acres	Harvest Tax	Acreage Assessment	Minimum / Improved Lots	Total & \$/Ac	Acres <sup>5</sup>	Harvest Tax <sup>4</sup>	Acreage Assessment	Minimum / Improved Lots	Total & \$/Ac
										N/A						
<b>2006</b>		\$2,126,582	\$761,270	\$5,220,240	\$258,057	\$8,366,149		\$56,131	\$96,790		\$152,921		\$2,070,451	\$664,480	\$5,220,240	\$7,955,171
	15,532,005					\$0.5386	2,391,501			\$0.0639	13,140,504					\$0.6054
<b>2007</b>		\$1,861,078	\$765,113	\$5,410,559	\$511,624	\$8,548,374		\$72,068	\$96,789		\$168,857		\$1,789,010	\$668,324	\$5,410,559	\$7,867,893
	15,532,005					\$0.5504	2,391,474			\$0.0706	13,140,531					\$0.5987
<b>2008</b>		\$2,032,070	\$756,705	\$5,554,276	\$509,297	\$8,852,348		\$66,442	\$96,779		\$163,221		\$1,965,628	\$659,926	\$5,554,276	\$8,179,830
	15,578,759					\$0.5682	2,391,227			\$0.0683	13,187,532					\$0.6203
<b>2009</b>		\$2,212,481	\$1,355,184	\$10,958,957	\$223,501	\$14,750,123		\$139,252	\$182,325		\$321,577		\$2,073,229	\$1,172,859	\$10,958,957	\$14,205,045
	15,640,865					\$0.9431	2,396,298			\$0.1342	13,244,567					\$1.0725
<b>2010</b>		\$1,996,022	\$899,442	\$7,372,370	\$49,375	\$10,317,209		\$89,846	\$121,227		\$211,073		\$1,906,176	\$778,215	\$7,372,370	\$10,056,761
	15,655,413					\$0.6590	2,396,298			\$0.0881	13,259,115					\$0.7585
<b>2011</b>		\$1,631,363	\$917,262	\$7,434,950	\$34,396	\$10,017,971		\$77,019	\$121,143		\$198,162		\$1,554,344	\$796,119	\$7,434,950	\$9,785,413
	15,652,701					\$0.6400	2,394,618			\$0.0828	13,258,083					\$0.7381
<b>2012</b>		\$2,091,359	\$917,288	\$7,546,134	\$63,498	\$10,618,279		\$92,470	\$121,292		\$213,762		\$1,998,889	\$795,996	\$7,546,134	\$10,341,019
	15,899,376					\$0.6678	2,397,608			\$0.0892	13,501,768					\$0.7659
<b>2013</b>		\$2,269,537	\$929,232	\$7,729,332	\$107,550	\$11,035,651		\$88,702	\$121,268		\$209,970		\$2,180,835	\$807,964	\$7,729,332	\$10,718,131
	15,905,476					\$0.6938	2,396,932			\$0.0876	13,508,544					\$0.7934
<b>2014</b>		\$2,284,967	\$934,020	\$7,793,604	\$115,162	\$11,127,753		\$117,349	\$121,240		\$238,589		\$2,167,618	\$812,780	\$7,793,604	\$10,774,002
	16,097,988					\$0.6913	2,396,385			\$0.0996	13,701,603					\$0.7863
<b>2015</b>		\$2,179,599	\$928,902	\$7,890,538	\$103,355	\$11,102,394		\$114,129	\$121,291		\$235,420		\$2,065,470	\$814,772	\$7,890,538	\$10,770,780
	16,149,458					\$0.6875	2,397,400			\$0.0982	13,752,058					\$0.7832
<b>10 Year Total</b>		\$20,685,058	\$9,164,418	\$72,910,960	\$1,975,815	\$104,736,251		\$913,410	\$1,200,144		\$2,113,554		\$19,771,648	\$7,971,435	\$72,910,960	\$100,654,043
<b>Ave \$/AC</b>		\$0.1312	\$0.0581	\$0.4625	\$0.0125	\$0.6644		\$0.0381	\$0.0501	\$0	\$0.0882		\$0.1479	\$0.0596	\$0.5454	\$0.7529
<b>Minus FPHT</b>																
<b>10 Year Total</b>		\$20,685,058	\$9,164,418	\$72,910,960	\$1,975,815	\$104,736,251		N/A	\$1,200,144	N/A	\$1,200,144		N/A	\$7,971,435	\$72,910,960	\$80,882,395
<b>Ave \$/AC</b>		\$0.1312	\$0.0581	\$0.4625	\$0.0125	\$0.6644			\$0.0501		\$0.0501			\$0.0596	\$0.5454	\$0.6050
<b>Minus FPHT &amp; Min/Improved Lots</b>																
<b>10 Year Total</b>		\$20,685,058	\$9,164,418	\$72,910,960	\$1,975,815	\$104,736,251		N/A	\$1,200,144	N/A	\$1,200,144		N/A	\$7,971,435	N/A	\$7,971,435
<b>Ave \$/AC</b>		\$0.1312	\$0.0581	\$0.4625	\$0.0125	\$0.6644			\$0.0501		\$0.0501			\$0.0596		\$0.0596

<sup>1</sup> Harvest Tax Data from Oregon Department of Revenue  
(Includes all RCC Code sources except non-BLM Federal Agency)

<sup>2</sup> Acreage Assessments from reported district acreage and current assessment rates

<sup>3</sup> Minimum and Improved Lot Assessments from annual OFLPF Financial Statements

<sup>4</sup> Harvest Tax here excludes USFS

<sup>5</sup> Acres reflected = minus BLM and Z1 lands

NOTE: OFLPF Assessments & Surcharges were increased in 2009 to satisfy \$5.2 Million loan from State Treasurer. Beginning in 2010 all rates increased 25% from 2008 rates.

MJD  
Revised 11-14-2016

Table 1C - OFLPF Revenue FY16


**WESTERN OREGON/BLM  
PROTECTION STUDY**
**OFLPF FY 2016 Revenues and Percent of Fund**

<b>Landowner Assessment and Surcharges</b>	<b>Basis</b>	<b>Amount</b>	<b>% of Revenue</b>
<b>Acreage Assessments</b>	<b>Acres</b>	<b>Revenue</b>	
<b>Federal Lands</b>			
West Timber	2,384,182	\$119,209	94.801%
East Timber	77,804	\$5,835	4.640%
Grazing	61,223	\$4,592	3.652%
<b>Total</b>	<b>2,523,209</b>	<b>\$125,747</b>	<b>1.097%</b>
<b>BOF &amp; State</b>			
West Timber	750,027	\$37,501	86.045%
East Timber	91,301	\$6,848	15.713%
Grazing	7,757	\$582	1.335%
<b>Total</b>	<b>849,085</b>	<b>\$43,583</b>	<b>0.380%</b>
<b>Private &amp; Other public</b>			
West Timber	6,836,044	\$341,802	44.999%
East Timber	3,000,106	\$225,008	29.623%
Grazing	2,883,380	\$216,253	28.470%
<b>Total</b>	<b>12,719,530</b>	<b>\$759,572</b>	<b>6.625%</b>
<b>Grand Total Acreage Assessment</b>	<b>16,091,824</b>	<b>\$928,902</b>	<b>8.279%</b>
<b>Minimum Lots</b>	<b># Lots</b>	<b>Revenue</b>	<b>%</b>
Northwest Area	50,519	\$189,446	25.474%
Southern Oregon Area	79,910	\$299,663	40.295%
Eastern Oregon Area	67,883	\$254,561	34.230%
<b>Total</b>	<b>198,312</b>	<b>\$743,670</b>	<b>6.487%</b>
<b>Improved Lots</b>	<b># Lots</b>	<b>Revenue</b>	<b>%</b>
Northwest Area	38,671	\$1,836,873	24.853%
Southern Oregon Area	72,723	\$3,454,343	46.738%
Eastern Oregon Area	44,204	\$2,099,690	28.409%
<b>Total</b>	<b>155,598</b>	<b>\$7,390,906</b>	<b>64.467%</b>
<b>Harvest Tax</b>	<b>Volume</b>	<b>Revenue</b>	<b>%</b>
	3,649 MMBF	\$2,281,223	19.898%
<b>Interest income</b>		<b>Amount</b>	<b>%</b>
		\$119,941	1.046%
<b>Total</b>		<b>\$11,464,642</b>	<b>100.000%</b>

Source - OFLPF FY16-Fire Finance Acre Assessment &amp; Surcharge Data

11/21/2016 MD

 REV\_FY2016\_OFLPF\_Revenue\_Sources  
 FY16\_OFLPF\_Revenue\_Detail

Table 1 D - FPHT 2006 - 2015

2006-2015-FPHT- OFLPP Distribution Amounts by Landowner RCC (Recipient Class Code 1-6, 9)									
County	1-Local Govt.	2-State Govt.	3-Federal Agency Total	3a-Federal- BLM Only	4-Private -Non- Industrial	5-Corporation /Industrial	6-Other Pri/Non-Profit	9- Native	Total
<b>Western Oregon</b>				(BLM Sub of Fed Total)					
Benton	3,993.20	16,716.02	51,145.68	34,568.37	101,149.59	498,354.14	756.73		\$672,115.35
Clackamas	13,738.03	17,640.94	104,880.64	27,024.16	157,198.86	529,863.83	1,687.26		\$825,009.56
Clatsop	14,932.38	478,475.78	84.68		49,286.28	1,341,544.96	4,130.56		\$1,888,454.65
Columbia	15,998.38	13,296.06	18,167.61	18,129.08	110,262.91	784,458.93	72.80		\$942,256.68
Coos	55,895.16	71,905.93	177,598.24	150,350.57	139,746.04	1,253,395.59	2,205.08	7,327.82	\$1,708,073.87
Curry	69.45	1,159.33	42,442.38	3,532.44	39,500.65	421,167.72	2,747.95		\$507,087.48
Douglas	12,947.72	32,429.29	362,081.04	233,160.32	216,415.51	2,436,422.83	7,204.30	949.63	\$3,068,450.31
Jackson	857.08	998.08	135,509.47	53,784.27	38,072.84	394,035.83	259.42		\$569,732.72
Josephine	19,448.54	1,953.83	22,957.59	12,171.87	25,438.08	94,418.56	675.91		\$164,892.51
Klamath West	14.31	46,808.14	55,454.11	10,159.99	14,109.04	214,483.75	1,709.33		\$332,578.68
Lane	608.63	60,277.05	530,482.65	168,332.93	241,202.07	2,315,894.07	1,867.52		\$3,150,331.98
Lincoln	813.01	43,527.57	78,849.69	2,167.11	82,554.87	764,723.59	3,341.53	1,375.50	\$975,185.75
Linn	156.13	65,240.46	138,304.26	46,477.18	98,455.22	1,358,658.41	426.54		\$1,661,241.01
Marion	76.64	43,082.24	33,040.72	11,927.88	75,456.51	237,709.56	4,845.20		\$394,210.86
Multnomah	11.08	29.74	20,219.83	19,726.77	15,359.36	58,016.79	137.45		\$93,774.24
Polk	43.62	8,415.09	37,728.86	37,715.19	61,921.38	709,464.55	1,242.98	177.62	\$818,994.10
Tillamook	2,917.72	449,201.66	54,266.85	16,967.51	34,523.51	549,356.28	3,132.58		\$1,093,398.60
Washington	9,159.16	185,605.17	13,796.76	13,796.76	124,478.76	477,683.78	11,203.07		\$821,926.71
Yamhill	22,350.55	2,822.49	40,265.26	34,154.70	89,126.60	403,075.23	9,312.23	3,340.29	\$570,292.66
				\$894,147.10					
				4.41%					
<b>Total Western OR</b>	<b>\$174,030.79</b> 0.86%	<b>\$1,539,584.86</b> 7.60%	<b>\$1,917,276.30</b> 9.46%		<b>\$1,714,258.08</b> 8.46%	<b>\$14,842,728.39</b> 73.27%	<b>\$56,958.47</b> 0.28%	<b>\$13,170.86</b> 0.07%	<b>\$20,258,007.73</b> 91.02%
<b>Eastern Oregon</b>				(BLM Sub of Fed Total)					
Baker	340.48	26.18	33,429.19	997.93	18,387.71	22,987.56	847.43		\$76,018.53
Crook		18.89	29,957.73	8.64	4,392.70	10,306.12	30.39		\$44,705.83
Deschutes	933.00	86.83	127,077.60		2,874.10	24,527.89	1,670.97		\$157,170.40
Grant		2,201.99	61,370.58	69.29	22,214.37	24,457.38			\$110,244.32
Harney			44,807.18	1,213.82	1,454.64	396.26			\$46,658.08
Hood River	58,376.75	6.33	19,304.06		9,966.54	81,704.48	649.40		\$170,007.56
Jefferson			13,371.01		3,591.59	8,783.27	592.65		\$26,338.52
Klamath East		5,107.15	59,206.30	8,071.10	48,882.69	172,833.35	2,379.78		\$288,409.27
Lake	70.66		78,349.98		8,282.03	80,651.57	456.77		\$167,811.02
Malheur			927.33	656.68	1,631.70	1,196.43			\$3,755.45
Morrow	906.02		12,733.54		9,046.04	118,297.31			\$140,982.92
Umatilla	185.59	8.72	9,794.83		25,126.13	46,149.54	1,839.37		\$83,104.18
Union	8,967.64	32.35	32,486.18	106.40	53,615.18	192,023.33	380.15		\$287,504.83
Wallowa	15.42	225.92	12,483.89	136.65	21,832.46	283,362.93	921.62		\$318,842.24
Wasco	1,683.63	315.91	22,481.37		3,354.68	11,118.08	848.56		\$39,802.23
Wheeler			11,126.77	137.39	15,681.57	10,598.90	63.50		\$37,470.74
				\$11,397.90					
				0.57%					
<b>Total Eastern OR</b>	<b>\$71,479.19</b> 3.58%	<b>\$8,030.26</b> 0.40%	<b>\$568,907.53</b> 28.46%		<b>\$250,334.13</b> 12.52%	<b>\$1,089,394.42</b> 54.50%	<b>\$10,680.59</b> 0.53%	<b>\$0.00</b> 0.00%	<b>\$1,998,826.13</b> 8.98%
<b>Grand Total:</b>	<b>\$245,509.98</b>	<b>\$1,547,615.12</b>	<b>\$2,486,183.83</b>		<b>\$1,964,592.21</b>	<b>\$15,932,122.81</b>	<b>\$67,639.06</b>	<b>\$13,170.86</b>	<b>\$22,256,833.86</b>
<b>Total Percentage:</b>	<b>1.10%</b>	<b>6.95%</b>	<b>11.17%</b>		<b>8.83%</b>	<b>71.58%</b>	<b>0.30%</b>	<b>0.06%</b>	<b>\$22,256,833.86</b>
				<b>BLM Total</b> <b>\$905,545.00</b> 4.07%					

DOR-10Year-Summary-East-vs-West-ByRCC-Fed-Split  
10Yr\_FPHT\_Revenue\_Tables



WESTERN OREGON/BLM  
PROTECTION STUDY

Table 2 - OFLPF Expense Summary

Statewide OFLPF Administrative & Suppression Expenses													
OFLPF Expenses 2006-2015						General Fund Expenses						Insurance Payouts	
2006-2015	Suppression Obligation <sup>1</sup>	OFLPF Insurance Premium <sup>2</sup>	Admin Costs	Severity Availability <sup>3</sup>	Total <sup>4</sup>	2006-2012	Suppression <sup>3</sup>	Severity	E-Board	Insurance Premium <sup>2</sup>	GF Total	2006-2012	Amount
<b>Total</b>	\$81,043,394	\$5,041,423	\$704,937	\$7,599,285	\$94,389,039	<b>Total</b>	\$72,215,301	\$18,719,641	\$5,513,604	\$9,096,109	\$105,544,655	<b>Total</b>	\$50,000,000
<b>10 Yr Ave</b>	\$8,104,339	\$504,142	\$70,494	\$759,929	\$9,438,904	<b>10 Yr Ave</b>	\$7,221,530	\$1,871,964	\$551,360	\$1,819,222	\$10,554,466	<b>10 Yr Ave</b>	\$5,000,000
<b>2006-2012 7 - Yr Ave</b>	\$7,291,913	\$479,669	\$61,314	\$0	\$7,832,896	<b>2006-2012 7 - Yr Ave</b>	\$0	\$1,857,940	\$560,015	\$479,669	\$2,897,624	<b>2006-2012 7 - Yr Ave</b>	\$0
<b>2013,'14,'15 3 Yr Ave</b>	\$10,000,000	\$561,247	\$91,912	\$2,533,095	\$13,186,254	<b>2013,'14,'15 3 Yr Ave</b>	\$24,071,767	\$1,904,686	\$531,166	\$1,912,809	\$28,420,428	<b>2013,'14,'15 3 Yr Ave</b>	\$16,666,667

<sup>1</sup> Net cost, as cost recoveries accounted for in expense table

<sup>2</sup> OFLPF Portion of Insurance Premium - Split 50% with General Fund 2005 Legislation (HB 3328)  
If OFLPF Expenses exceed \$13.5 million cap, Premium cost reduced to OFLPF to remain under expenditure cap

<sup>3</sup> OFLPF Severity Availability and Shared Suppression Costs Begun as result of 2013 Legislation (WPA HB 3050).  
Prior to 2013 OFLPF had no obligation for Severity costs  
Prior to 2013 General Fund had no obligation for shared Suppression costs within OFLPF limits

<sup>4</sup> OFLPF Expenditure limit legislatively capped at \$13.5 million;\$10M for suppression, Up to \$3M for Severity Availability and up to \$.5M for Insurance Premium

MJD

Revised 11-21-2016



WESTERN OREGON/BLM  
PROTECTION STUDY

Table 3- Statewide ODF Large Fire Cost 2006 -2015

Statewide ODF Large Fire Costs												
Fire Seasons 2006-2015												
In Millions											10 Year Average	3 Year Average
	2006	2007	2008	2009*	2010	2011	2012	2013**	2014	2015***	2006-2015	2013-2015
Large Fire Cost	\$12.20	\$16.30	\$12.60	\$10.60	\$5.60	\$3.90	\$6.90	\$122.80	\$77.00	\$77.30	\$34.50	\$92.40
Less: District Deductibles	\$1.20	\$1.40	\$1.20	\$1.10	\$0.06	\$1.10	\$1.40	\$1.70	\$2.10	\$2.00	\$1.40	\$1.90
FEMA Reimbursements	\$0.90	\$0.00	\$0.00	\$2.40	\$0.00	\$0.00	\$0.00	\$43.30	\$17.70	\$19.60	\$8.40	\$26.90
Fire Cost Recovery	\$0.80	\$0.80	\$2.40	\$1.70	\$0.00	\$0.00	\$0.00	\$2.80	\$9.50	\$25.60	\$4.40	\$12.60
Net Fire Cost	\$9.30	\$14.10	\$9.00	\$5.40	\$5.00	\$2.80	\$5.50	\$75.00	\$47.70	\$30.10	\$20.40	\$50.90
Less: Catastrophic Insurance Deductible												
OFLPF	\$9.30	\$14.10	\$9.00	\$5.40	\$5.00	\$2.80	\$5.50	\$10.00	\$10.00	\$10.00	\$8.10	\$10.00
General Fund	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.00	\$10.00	\$10.00	\$3.00	\$10.00
Less: Insurance Reimbursement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.00	\$25.00	\$0.00	\$5.00	\$16.70
Less: General Fund Reimbursement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30.00	\$2.70	\$10.10	\$4.30	\$14.30

\*OFLPF \$15 million annual expenditure limit sunsetted and reduced to \$10 million

\*\* Passage of the Wildfire Protection Act

\*\*\*\$50 million insurance deductible implemented

NEA 12/5/2016

**Bolded figures indicated estimated cost.**



**WESTERN OREGON/BLM  
PROTECTION STUDY**

Table 4 - Annual Suppression Cost Summary By Ownership

10+ Acre OFLPF Eligible Fires. All Data From Within BLM Study Area												
Year	# Fires Statewide all Agencies	Exclusive BLM Fires			Mixed Ownership Fires					Exclusive Other Fires		
		Number of Fires	Number of Acres	Total Suppression Cost	Number of Fires	BLM Acres	Other Acres	Number of Acres	Total Suppression Cost	Number of Fires	Number of Acres	Total Suppression Cost
2006	3864	2	91	\$ 1,176,084	1	263	807	1,070	\$ 4,413,543	1	142	\$ 355,196
2007	3277	1	274	\$ 1,162,312	4	157	134	294	\$ 921,134	4	170	\$ 198,562
2008	3463	3	87	\$ 852,434	3	457	1,014	1,472	\$ 3,133,689	6	146	\$ 219,946
2009	2130	1	19	\$ 183,475	2	75	714	789	\$ 502,478	5	281	\$ 360,861
2010	1989	3	69	\$ 1,083,987	1	104	217	321	\$ 546,815	1	11	\$ 10,355
2011	1857	0	0	\$ -	2	221	426	646	\$ 950,714	4	266	\$ 919,954
2012	1707	2	44	\$ 184,973	2	140	46	186	\$ 1,580,986	1	32	\$ 8,887
2013	2848	8	27,344	\$ 28,332,630	11	28,216	23,253	51,470	\$ 26,339,992	7	424	\$ 451,411
2014	3087	1	14	\$ 202,821	9	9,238	19,792	29,030	\$ 20,438,928	8	1,067	\$ 2,690,484
2015	2588	1	46	\$ 378,028	5	6,738	7,721	14,459	\$ 16,999,244	7	271	\$ 1,302,693
<b>Total</b>	<b>26810</b>	<b>22</b>	<b>27,986</b>	<b>\$ 33,556,745</b>	<b>40</b>	<b>45,608</b>	<b>54,125</b>	<b>99,737</b>	<b>\$ 75,827,521</b>	<b>44</b>	<b>2,808</b>	<b>\$ 6,518,349</b>

27,986 AC	BLM Exclusive	\$33,556,745
45,608 AC	BLM Mixed	\$34,674,965
73,594 AC	BLM Total	\$68,231,710

2,808 AC	Exclusive Non-BLM	\$ 6,518,349
54,125 AC	Non-BLM Mixed	\$ 41,149,972
56,933 AC	Total Non-BLM	\$ 47,668,321

MJD-NEA  
12/12/2016

"BLM Exclusive"-Data limited to fires on BLM lands only. "Exclusive Other"-Data limited to fires on Other lands only

"BLM Mixed"-Data limited to BLM when fires occurring on both BLM and Other ownership. "Other Mixed"-Data limited to Other when fires burning on both BLM and Other Ownership.

(Note: the cost for mixed ownership fires was determined by using the average cost per acre \* the acres burned by ownership)

Suppression\_Expense\_By\_Ownership



**WESTERN OREGON/BLM  
PROTECTION STUDY**

Table 5 - Annual Fires By Ownership and Size Class

All Data From Within BLM Study Area																
Exclusive BLM Fires						Mixed Ownership Fires						Exclusive Other Fires				
Fire Year	Fire Size Class	Number of Fires	Number of Acres	Total Suppression Cost	Average \$/Acre	Number of Fires	BLM Acres	Other Acres	Number of Acres	Total Suppression Cost	Average \$/Acre	Number of Fires	Number of Acres	Total Suppression Cost	Average \$/Acre	Fire Cost for A/B Fires
2006	C	2	91	\$1,176,084	\$ 12,924											
	D											1	142	\$ 355,196	\$ 2,507	
	E															
	F					1	263	807	1,070	\$ 4,413,543	\$ 4,125					
	G															
<b>Total</b>		<b>2</b>	<b>91</b>	<b>\$1,176,084</b>		<b>1</b>	<b>263</b>	<b>807</b>	<b>1,070</b>	<b>\$ 4,413,543</b>		<b>1</b>	<b>142</b>	<b>\$ 355,196</b>		<b>\$ 103,392</b>
2007	C					2	28	130	161	\$ 361,175	\$ 2,243	3	60	\$ 198,422	\$ 3,329	
	D	1	274	\$1,162,312	\$ 4,242	1	129	4	133	\$ 559,959	\$ 4,210	1	110	\$ 140	\$ 1	
	E															
	F															
	G															
<b>Total</b>		<b>1</b>	<b>274</b>	<b>\$1,162,312</b>		<b>4</b>	<b>157</b>	<b>134</b>	<b>294</b>	<b>\$ 921,134</b>		<b>4</b>	<b>170</b>	<b>\$ 198,562</b>		<b>\$ 6,040</b>
2008	C	3	87	\$852,434	\$ 9,843	1	2	67	69	\$ 231,827	\$ 3,360	6	146	\$ 219,946	\$ 1,511	
	D					1	2	162	164	\$ 246,497	\$ 1,503					
	E															
	F					1	453	785	1,239	\$ 2,655,365	\$ 2,144					
	G															
<b>Total</b>		<b>3</b>	<b>87</b>	<b>\$852,434</b>		<b>3</b>	<b>457</b>	<b>1,014</b>	<b>1,472</b>	<b>\$ 3,133,689</b>		<b>6</b>	<b>146</b>	<b>\$ 219,946</b>		<b>\$ 138,465</b>
2009	C	1	19	\$183,475	\$ 9,918							4	91	\$ 328,716	\$ 3,632	
	D					1	35	121	156	\$ 137,505	\$ 881	1	190	\$ 32,145	\$ 169	
	E					1	40	593	633	\$ 364,973	\$ 577					
	F															
	G															
<b>Total</b>		<b>1</b>	<b>19</b>	<b>\$183,475</b>		<b>2</b>	<b>75</b>	<b>714</b>	<b>789</b>	<b>\$ 502,478</b>		<b>5</b>	<b>281</b>	<b>\$ 360,861</b>		<b>\$ -</b>
2010	C	3	69	\$1,083,987	\$ 15,756							1	11	\$ 10,355	\$ 950	
	D															
	E					1	104	217	321	\$ 546,815	\$ 1,703					
	F															
	G															
<b>Total</b>		<b>3</b>	<b>69</b>	<b>\$1,083,987</b>		<b>1</b>	<b>104</b>	<b>217</b>	<b>321</b>	<b>\$ 546,815</b>		<b>1</b>	<b>11</b>	<b>\$ 10,355</b>		<b>\$ 86,955</b>
2011	C					1	27	52	79	\$ 146,469	\$ 1,854	3	186	\$ 636,240	\$ 3,427	
	D											1	80	\$ 283,714	\$ 3,546	
	E					1	194	374	567	\$ 804,245	\$ 1,418					
	F															
	G															
<b>Total</b>		<b>0</b>	<b>0</b>	<b>\$0</b>		<b>2</b>	<b>221</b>	<b>426</b>	<b>646</b>	<b>\$ 950,714</b>		<b>4</b>	<b>266</b>	<b>\$ 919,954</b>		<b>\$ -</b>

All Data From Within BLM Study Area																
	Exclusive BLM Fires					Mixed Ownership Fires						Exclusive Other Fires				
Fire Year	Fire Size Class	Number of Fires	Number of Acres	Total Suppression Cost	Average \$/Acre	Number of Fires	BLM Acres	Other Acres	Number of Acres	Total Suppression Cost	Average \$/Acre	Number of Fires	Number of Acres	Total Suppression Cost	Average \$/Acre	Fire Cost for A/B Fires
2012	C	2	44	\$184,973	\$ 4,204	1	23	9	32	\$ 289,969	\$ 9,062	1	32	\$ 8,887	\$ 278	
	D					1	117	37	154	\$ 1,291,017	\$ 8,383					
	E															
	F															
	G															
<b>Total</b>		<b>2</b>	<b>44</b>	<b>\$184,973</b>		<b>2</b>	<b>140</b>	<b>46</b>	<b>186</b>	<b>\$ 1,580,986</b>		<b>1</b>	<b>32</b>	<b>\$ 8,887</b>		<b>\$ -</b>
2013	C	4	133	\$70,188	\$ 527	2	85	19	104	\$ 42,349	\$ 407	5	102	\$ 322,264	\$ 3,164	
	D	3	486	\$159,999	\$ 329	5	321	421	743	\$ 1,376,747	\$ 1,853	2	252	\$ 92,185	\$ 366	
	E															
	F					1	1,413	885	2,298	\$ 4,947,594	\$ 2,153					
	G	1	26,725	\$28,102,443	\$ 1,052	3	26,397	21,928	48,325	\$ 19,973,302	\$ 413	1	70	\$ 36,961	\$ 528	
<b>Total</b>		<b>8</b>	<b>27,344</b>	<b>\$28,332,630</b>		<b>11</b>	<b>28,216</b>	<b>23,253</b>	<b>51,470</b>	<b>\$ 26,339,992</b>		<b>7</b>	<b>424</b>	<b>\$ 451,411</b>		<b>\$ 109,942</b>
2014	C	1	14	\$202,821	\$ 14,804	2	29	77	105	\$ 1,604,514	\$ 15,252	4	129	\$ 565,609	\$ 4,385	
	D					2	185	158	342	\$ 5,787,899	\$ 16,924	4	938	\$ 2,124,876	\$ 2,265	
	E					2	484	765	1,249	\$ 7,381,410	\$ 5,910					
	F															
	G					3	8,541	18,793	27,334	\$ 5,665,105	\$ 207					
<b>Total</b>		<b>1</b>	<b>14</b>	<b>\$202,821</b>		<b>9</b>	<b>9,238</b>	<b>19,792</b>	<b>29,030</b>	<b>\$ 20,438,928</b>		<b>8</b>	<b>1,067</b>	<b>\$ 2,690,484</b>		<b>\$ 807,869</b>
2015	C	1	46	\$378,028	\$ 8,218	1	33	25	58	\$ 74,429	\$ 1,283	7	271	\$ 1,302,693	\$ 4,803	
	D					1	54	133	187	\$ 685,797	\$ 3,667					
	E					1	132	83	215	\$ 1,210,043	\$ 5,628					
	F					1	904	941	1,845	\$ 9,877,893	\$ 5,353					
	G					1	5,615	6,539	12,154	\$ 5,151,083	\$ 424					
<b>Total</b>		<b>1</b>	<b>46</b>	<b>\$378,028</b>		<b>5</b>	<b>6,738</b>	<b>7,721</b>	<b>14,459</b>	<b>\$ 16,999,244</b>		<b>7</b>	<b>271</b>	<b>\$ 1,302,693</b>		<b>\$ 147,924</b>
<b>Total</b>		<b>22</b>	<b>27,986</b>	<b>\$33,556,745</b>	<b>\$ 1,199</b>	<b>40</b>	<b>45,608</b>	<b>54,125</b>	<b>99,737</b>	<b>\$ 75,827,521</b>	<b>\$ 760</b>	<b>44</b>	<b>2,808</b>	<b>\$ 6,518,349</b>	<b>\$ 2,321</b>	<b>\$ 1,400,587</b>

27,986 AC	BLM Exclusive	\$ 33,556,745
45,608 AC	BLM Mixed	\$ 34,674,965
73,594 AC	BLM Total	\$ 68,231,710

2,808 AC	Exclusive Non-BLM	\$ 6,518,349
54,125 AC	Non-BLM Mixed	\$ 41,149,972
56933 AC	Total Non-BLM	\$ 47,668,321

Size B: 0.26-10.00 C: 10.01 - 100.00 D: 100.01 - 300.00 E: 300.01 - 1000.00 F: 1000.01 - 5000.00 G: >= 5000.01

"BLM Exclusive"-Data limited to fires on BLM lands only. "Exclusive Other"-Data limited to fires on Other lands only

"BLM Mixed"-Data limited to BLM when fires occurring on both BLM and Other ownership. "Other Mixed"-Data limited to Other when fires burning on both BLM and Other Ownership.

12/12/2016

NEA-MJD

Suppression\_Expense\_By\_Ownership\_&\_Size\_Class

EFCC\_BLM Protection Study\_Word Processing Products\_Fires Analysis



WESTERN OREGON/BLM  
PROTECTION STUDY

Table 6 - Fires Eligible For OFLPF Funding

Fire Year	District	FireName	Owner at Origin	Size Class	Size at IA	Regional P.L.	Ignition Date	Total Fire Acres	BLM Acres	Other Acres	ODF Prot Acres	Cost Per Acre	Net F.F. Cost on BLM	Net F.F. Cost Non-Blm	Net F.F. Cost	Size Class A/B Fire Cost for Complex	
2006	CFPA	Fall Creek	Industrial	D	5	4	8/21	142		142	142	\$ 2,507	\$ -	\$ 355,196	\$ 355,196		
2006	S. Cascade	Middle Fork Fire	Industrial	F	20	4	8/7	1070	263	807	1070	\$ 4,125	\$ 1,084,824	\$ 3,328,719	\$ 4,413,543		
<b>Lightning Cplx #771045-07 (17 Fires)</b>								<b>99</b>	<b>0</b>	<b>0</b>	<b>99</b>	<b>\$ 12,924</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,279,488</b>	<b>\$ 103,392</b>	
2006	South Cascade	Boulder Creek	BLM	C	1	4	8/7	63	63	63	\$ 12,924	\$ 814,212	\$ -	\$ -	\$ 814,212		
2006	South Cascade	Rocky Top # 5	BLM	C	5	4	8/7	28	28	28	\$ 12,924	\$ 361,872	\$ -	\$ -	\$ 361,872		
2007	SW Oregon	Bailey Creek	BLM	D	2	1	7/1	274	274	0	274	\$ 4,242	\$ 1,162,312	\$ -	\$ -	\$ 1,162,312	
2007	SW Oregon	Humbug	Rural Residential	D	1	4	7/22	133	129	4	133	\$ 4,210	\$ 543,118	\$ 16,841	\$ 559,959		
2007	West Oregon	South Stott	Industrial	D	25	1	10/26	110		110	110	\$ -	\$ -	\$ 140	\$ 140		
2007	SW Oregon	Antioch	Rural Residential	C	13	3	7/30	13		13	13	\$ 5,353	\$ -	\$ 70,125	\$ 70,125		
2007	SW Oregon	Merlin Hill	State	C	2	3	8/15	20		20	20	\$ 2,616	\$ -	\$ 52,311	\$ 52,311		
2007	Western Lane	Shaw Creek	Industrial	C	6	3	8/16	56	26	27	56	\$ 6,408	\$ 166,608	\$ 173,016	\$ 358,848		
2007	CFPA	Woodruff Creek	Industrial	C	2	1	6/23	27		27	27	\$ 2,867	\$ -	\$ 75,987	\$ 75,987		
<b>2007 Weyco Wind Cplx #781080-08 (3 Fires)</b>								<b>105</b>	<b>0</b>	<b>0</b>	<b>105</b>	<b>\$ 22</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,327</b>		
2007	Western Lane	Weyco Wind	Industrial	C		1	10/25	105	2	103	105	\$ 22	\$ 44	\$ 2,283	\$ 2,327		
<b>6/20 Complex #712368-08 (8 Fires)</b>								<b>26</b>	<b>0</b>	<b>0</b>	<b>26</b>	<b>\$ 755</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 19,624</b>	<b>\$ 6,040</b>	
2008	SW Oregon	Sucker Creek	Industrial	C	12	1	6/20	18		18	18	\$ 755	\$ -	\$ 13,590	\$ 13,590		
2008	SW Oregon	Aerial Heights	Rural Residential	C	13	3	9/18	16		16	16	\$ 1,104	\$ -	\$ 17,782	\$ 17,782		
2008	SW Oregon	Boswell	BLM	C	25	1	5/18	60	60	60	\$ 1,437	\$ 86,245	\$ -	\$ -	\$ 86,245		
2008	SW Oregon	Clark Creek	Industrial	C	10	4	8/17	20		20	20	\$ 6,712	\$ -	\$ 134,240	\$ 134,240		
2008	Klamath-Lake	DOAK	Industrial	C	0	1	6/14	50		50	50	\$ 799	\$ -	\$ 39,927	\$ 39,927		
2008	SW Oregon	Kerby Mainline	County	C	4	4	7/19	69	2	67	69	\$ 3,360	\$ 6,720	\$ 225,107	\$ 231,827		
2008	SW Oregon	Power Pole #F-4951	Rural Residential	C	1	3	8/11	28		28	28	\$ 160	\$ -	\$ 4,400	\$ 4,400		
2008	SW Oregon	Redwood Hwy 374C	Rural Residential	C	2	1	6/17	14		14	14	\$ 715	\$ -	\$ 10,007	\$ 10,007		
2008	SW Oregon	Ringtail #2	BLM	C	5	4	8/17	11	11	11	\$ 47,835	\$ 526,183	\$ -	\$ -	\$ 526,183		
<b>9/16 Complex #711106-09 (6 Fires)</b>								<b>25</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>\$ 15,385</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 384,634</b>	<b>\$ 138,465</b>	
2008	SW Oregon	Wasson Canyon	BLM	C	13	3	9/16	16	16	16	\$ 15,385	\$ 240,006	\$ -	\$ -	\$ 240,006		
2008	SW Oregon	Doubleday	Industrial	F	1	3	9/16	1239	453	785	1239	\$ 2,144	\$ 971,669	\$ 1,683,697	\$ 2,655,365		
2008	DFPA	Jim Creek	Industrial	D	1	3	7/11	164	2	162	164	\$ 1,503	\$ 3,006	\$ 243,491	\$ 246,497		
2009	SW Oregon	Beaver Creek	Rural Residential	C	2	3	7/30	11		11	11	\$ 2,747	\$ -	\$ 30,218	\$ 30,218		
<b>Queen's Branch Cplx #7712257-10 (2 Fires)</b>								<b>34</b>	<b>0</b>	<b>0</b>	<b>34</b>	<b>\$ 9,918</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 337,197</b>		
2009	SW Oregon	Dixie Gulch	Other Public	C	2	2	9/12	16		16	16	\$ 9,918	\$ -	\$ 153,729	\$ 153,729		
2009	SW Oregon	Queens Branch	BLM	C	1	2	9/12	19	19	19	\$ 9,918	\$ 183,463	\$ -	\$ -	\$ 183,475		
2009	Klamath-Lake	IMUD MOUNTAIN	Industrial	C	2	3	9/8	16		16	16	\$ 4,411	\$ -	\$ 70,570	\$ 70,570		
2009	SW Oregon	PP D8984 (Lone mt)	Rural Residential	C	25	2	8/24	48		48	48	\$ 1,546	\$ -	\$ 74,206	\$ 74,206		
2009	SW Oregon	Burnt Peak/ PP1449	BLM	D	3	3	7/29	156	35	121	156	\$ 881	\$ 30,851	\$ 106,655	\$ 137,505		
2009	SW Oregon	Deer Ridge	Rural Residential	E	28	2	9/21	633	40	593	633	\$ 577	\$ 23,063	\$ 341,910	\$ 364,973		
2009	SW Oregon	Siskiyou/PP#E3379	Rural Residential	D	10	2	9/21	190		190	190	\$ 169	\$ -	\$ 32,145	\$ 32,145		
2010	SW Oregon	7/18 Comp Anders	BLM	C	11	2	8/17	11	11	11	\$ 7,434	\$ 84,004	\$ -	\$ -	\$ 84,004		
2010	SW Oregon	Crowfoot	Rural Residential	C	11	1	7/6	11		11	11	\$ 950	\$ -	\$ 10,355	\$ 10,355		
<b>Cabin Cyn Cplx #711011-11 (16 Fires)</b>								<b>63</b>	<b>0</b>	<b>0</b>	<b>63</b>	<b>\$ 17,391</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,095,637</b>	<b>\$ 86,955</b>	
2010	SW Oregon	Berry Rock #1	BLM	C	4	1	7/8	42	42	42	\$ 17,391	\$ 730,422	\$ -	\$ -	\$ 730,422		
2010	SW Oregon	Spignet Butte	BLM	C	5	1	7/8	16	16	16	\$ 17,391	\$ 269,561	\$ -	\$ -	\$ 269,561		
2010	SW Oregon	Blackwell	Rural Residential	E	50	2	9/12	321	104	217	321	\$ 1,703	\$ 177,161	\$ 369,654	\$ 546,815		
2011	SW Oregon	Beals Creek	Industrial	C	5	1	7/4	85		85	85	\$ 2,975	\$ -	\$ 252,914	\$ 252,914		
2011	SW Oregon	Dole Road	Industrial	C	21	2	9/18	21		21	21	\$ 4,817	\$ -	\$ 99,612	\$ 99,612		
2011	SW Oregon	Little Butte	USFS	C	18	3	9/5	276		80	80	\$ 3,546	\$ -	\$ 283,714	\$ 283,714		
2011	SW Oregon	Lone Mountain	BLM	C	5	4	9/9	79	27	52	79	\$ 1,854	\$ 50,059	\$ 96,410	\$ 146,469		
2011	SW Oregon	Little Butte	USFS	C	15	3	9/5	276		80	80	\$ 3,546	\$ -	\$ 283,714	\$ 283,714		
2011	SW Oregon	North River Road	State	E	5	2	8/18	567	194	373	567	\$ 1,418	\$ 274,890	\$ 529,355	\$ 804,245		
2012	SW Oregon	Slate Creek	Small Woodlands	D	15	3	9/3	154	117	37	154	\$ 8,383	\$ 980,838	\$ 310,179	\$ 1,291,017		
2012	SW Oregon	Grave Creek	BLM	C	3	4	9/23	26	26	26	\$ 4,434	\$ 115,290	\$ -	\$ -	\$ 115,290		
2012	SW Oregon	Kelsey Creek	BLM	C	2	3	7/17	18	18	18	\$ 3,871	\$ 69,683	\$ -	\$ -	\$ 69,683		
2012	SW Oregon	Rancheria	BLM	C	4	4	9/23	32	23	9	32	\$ 9,062	\$ 208,415	\$ 81,554	\$ 289,969		
2012	SW Oregon	WORDEN	Other Private	C	32	2	7/6	32		32	32	\$ 278	\$ -	\$ 8,887	\$ 8,887		
2013	SW Oregon	Beacon Hill Complex	State	D	20	1	5/31	131	44	87	131	\$ 547	\$ 24,070	\$ 47,593	\$ 71,662		
<b>2013 Big Windy</b>								<b>26725</b>	<b>26725</b>	<b>0</b>	<b>26725</b>	<b>\$ 1,052</b>	<b>\$ 28,102,443</b>	<b>\$ -</b>	<b>\$ 28,102,443</b>		
2013	DFPA	Bland Mtn.	County	D	10	2	7/4	159	95	63	159	\$ 1,424	\$ 135,693	\$ 90,177	\$ 225,870		
2013	SW Oregon	Brookside Blvd	County	C	1	2	7/18	32		32	32	\$ 2,656	\$ -	\$ 83,922	\$ 83,922		
2013	SW Oregon	Fielder	BLM	C	10	2	4/20	10	10	10	\$ 130	\$ 1,326	\$ -	\$ -	\$ 1,326		
2013	SW Oregon	Four Corners	County	C	2	3	8/30	15		15	15	\$ 4,686	\$ -	\$ 70,998	\$ 70,998		
2013	DFPA	S. Umpqua Rd.	Rural Residential	C	5	2	7/15	25		25	25	\$ 1,311	\$ -	\$ 32,786	\$ 32,786		

# Appendix 2

Fire Year	District	FireName	Owner at Origin	Size Class	Size at IA	Regional P.L.	Ignition Date	Total Fire Acres	BLM Acres	Other Acres	ODF Prot Acres	Cost Per Acre	Net F.F Cost on BLM	Net F.F. Cost Non-Blm	Net F.F. Cost	Size Class A/B Fire Cost for Complex
2013	Klamath-Lake	Spence	Industrial	C	5	4	8/1	15		15	15	\$ 8,507	\$ -	\$ 128,451	\$ 128,451	
2013	SW Oregon	Worthington Road	BLM	C	25	1	6/22	94	94		94	\$ 607	\$ 57,053	\$ -	\$ 57,053	
<b>7/26 Ltng Cplx #712119-14 (20 Fires)</b>								<b>2341</b>	<b>0</b>	<b>0</b>	<b>2341</b>	<b>\$ 2,153</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,041,006</b>	<b>\$ 92,580</b>
2013	SW Oregon	Brimstone	BLM	F	5	3	7/26	2298	1413	885	2298	\$ 2,153	\$ 3,042,189	\$ 1,905,405	\$ 4,947,594	
<b>Douglas Cplx #732053-14 (37 Fires)</b>								<b>48997</b>	<b>0</b>	<b>0</b>	<b>48997</b>	<b>\$ 413</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 20,253,922</b>	<b>\$ 17,362</b>
2013	SW Oregon	Dads	BLM	G	10	3	7/26	15362	9962	5400	15362	\$ 426	\$ 4,248,096	\$ 2,302,722	\$ 6,550,818	
2013	SW Oregon	Farmers Gulch	BLM	D	1	3	7/26	248	248	0	248	\$ 426	\$ 105,840	\$ -	\$ 105,840	
2013	SW Oregon	Rabbit	BLM	D	5	3	7/26	122	122	0	122	\$ 426	\$ 52,195	\$ -	\$ 52,195	
2013	DFPA	Dads Creek	Industrial	G	4	3	7/26	9399	4167	5233	9399	\$ 407	\$ 1,696,668	\$ 2,130,674	\$ 3,827,342	
2013	DFPA	Lower Panther Butt	Industrial	D	5	3	7/26	112	12	100	112	\$ 407	\$ 4,886	\$ 40,720	\$ 45,606	
2013	DFPA	North Rabbit	BLM	G	2	3	7/26	23564	12268	11296	23564	\$ 407	\$ 4,995,558	\$ 4,599,585	\$ 9,595,143	
2013	DFPA	Hayes Ridge	BLM	C	2	3	7/26	4	4	0	4	\$ 407	\$ 1,629	\$ -	\$ 1,629	
2013	DFPA	North Union	Industrial	C	2	3	7/26	15	15	15	15	\$ 407	\$ -	\$ 6,108	\$ 6,108	
2013	DFPA	South Rabbit	BLM	C	25	3	7/26	25	25	0	25	\$ 407	\$ 10,180	\$ -	\$ 10,180	
2013	DFPA	Panther Butte	BLM	C	3	3	7/26	80	70	10	80	\$ 407	\$ 28,504	\$ 4,072	\$ 32,576	
2013	DFPA	Big Milo	BLM	C	2	3	7/26	24	15	9	24	\$ 407	\$ 6,108	\$ 3,665	\$ 9,773	
2013	Western Lane	Vinci Fire (Greenhill)	BLM	D	50	3	7/26	115	115	0	115	\$ 16	\$ 1,864	\$ -	\$ 1,864	
2013	DFPA	Whiskey Cr.	USFS	G	2	3	7/26	16211		70	70	\$ 528	\$ -	\$ 36,961	\$ 36,961	
2013	North Cascade	Williams Lake	Industrial	D	50	1	10/20	106		106	106	\$ 14	\$ -	\$ 1,454	\$ 1,454	
2013	SW Oregon	Pacifica	Rural Residential	D	5	2	7/19	252		252	252	\$ 729	\$ -	\$ 183,638	\$ 183,638.00	
2013	DFPA	Shively Creek	Industrial	D	10	1	5/5	187	66	121	187	\$ 2,632	\$ 173,737	\$ 318,518	\$ 492,255.00	
2013	SW Oregon	Stratton Creek	BLM	D	20	2	7/4	154	104	50	154	\$ 9,984	\$ 1,038,361	\$ 499,212	\$ 1,537,573.00	
2014	North Cascade	1,2,3 COMPLEX (K2)	Industrial	D	5		1/23	330		330	330	\$ 15	\$ -	\$ 5,075	\$ 5,075	
2014	North Cascade	36 Pit	USFS	G	5	2	9/13	5521	1326	350	1676	\$ 103	\$ 135,938	\$ 35,881	\$ 171,819	
2014	Astoria	FALCON	Industrial	D	200		1/23	254		254	254	\$ 642	\$ -	\$ 163,055	\$ 163,055	
2014	SW Oregon	Oregon Gulch	Industrial	G	50	5	7/30	35158	2175	6131	8306	\$ 191	\$ 415,554	\$ 1,171,386	\$ 1,586,940	
2014	Klamath-Lake	Oregon Gulch Disp	Other Private	G	50	5	7/30		5040	12312	17352	\$ 225	\$ 1,134,623	\$ 2,771,722	\$ 3,906,345	
2014	Klamath-Lake	Algoma(233)	Rural Residential	C	2	2	7/4	59		59	59	\$ 6,336	\$ -	\$ 376,350	\$ 376,350	
2014	SW Oregon	Dead Indian Memo	Small Woodlands	C	0	2	9/9	18		18	18	\$ 107	\$ -	\$ 1,879	\$ 1,879	
2014	South Cascade	Dexter Creek	BLM	C	1	5	8/10	14	14		14	\$ 14,804	\$ 202,821	\$ -	\$ 202,821	
2014	SW Oregon	Modoc	Other Public	C	2	1	6/19	42		42	42	\$ 2,013	\$ -	\$ 84,544	\$ 84,544	
2014	South Cascade	Row River 10000	Rural Residential	C	2	2	9/5	10		10	10	\$ 10,182	\$ -	\$ 102,835	\$ 102,835	
<b>Old Blue Mtn. Cplx #712300-15 9 (7 Fires)</b>								<b>80</b>	<b>0</b>	<b>0</b>	<b>80</b>	<b>\$ 16,744</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,339,515</b>	<b>\$ 33,488</b>
2014	SW Oregon	Old Blue Mtn	Industrial	C	15	4	8/18	78	3	75	78	\$ 16,744	\$ 50,232	\$ 1,255,800	\$ 1,306,032	
<b>Pilot Rock Complex #711134-15 (16 Fires)</b>								<b>27</b>	<b>0</b>	<b>0</b>	<b>27</b>	<b>\$ 11,055</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 298,482</b>	<b>\$ -</b>
2014	Southwest Oregon	Twincheria	BLM	C	27	5	7/29	27		26	27	\$ 11,055	\$ 281,903	\$ 16,583	\$ 298,482	
2014	Astoria	Hug Point	Industrial	D	40	1	10/30	143		143	143	\$ 17	\$ -	\$ 2,501	\$ 2,501	
<b>Beaver Creek Cplx 7/30/2014 (22 Fires)</b>								<b>184</b>	<b>0</b>	<b>0</b>	<b>184</b>	<b>\$ 25,548</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 4,700,742</b>	<b>\$ 740,892</b>
2014	SW Oregon	Salt Creek #2	BLM	D	60	5	7/30	155	106	49	155	\$ 25,548	\$ 2,708,088	\$ 1,251,852	\$ 3,959,940	
2014	SW Oregon	Reeves Creek	Industrial	D	5	5	7/28	187	79	109	187	\$ 9,775	\$ 767,352	\$ 1,060,607	\$ 1,827,959	
<b>Rogue River Drive Cplx 8/11/2014 (11 Fires)</b>								<b>461</b>	<b>0</b>	<b>0</b>	<b>461</b>	<b>\$ 4,986</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,298,710</b>	<b>\$ 4,986</b>
2014	SW Oregon	Rogue River Drive	Small Woodlands	E	30	5	8/11	460	135	325	460	\$ 4,986	\$ 673,110	\$ 1,620,450	\$ 2,293,560	
2014	Forest Grove	Scoggins Creek Fire	Industrial	D	1	3	9/19	211		211	211	\$ 9,262	\$ -	\$ 1,954,245	\$ 1,954,245	
2014	Western Lane	Yellow Point	Industrial	E	70	2	9/5	789	349	440	789	\$ 6,448	\$ 2,250,519	\$ 2,837,331	\$ 5,087,850	
<b>Galls Crk Cplx #711490-15 (14 Fires)</b>								<b>64</b>	<b>0</b>	<b>0</b>	<b>64</b>	<b>\$ 8,218</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 525,966</b>	<b>\$ 147,924</b>
2015	SW Oregon	Rosebud	BLM	C	46	1	6/9	46	46		46	\$ 8,218	\$ 378,028	\$ -	\$ 378,028	
2015	Forest Grove	Sunset Grade#1	State	C	10	2	6/12	67		67	67	\$ 863	\$ -	\$ 57,841	\$ 57,841	
2015	Forest Grove	August Fire	Industrial	C	4	5	8/22	27		27	27	\$ 10,801	\$ -	\$ 293,796	\$ 293,796	
2015	West Oregon	Fall Creek Fire	Industrial	C	4	2	9/26	15		15	15	\$ 664	\$ -	\$ 9,954	\$ 9,954	
2015	West Oregon	Hoskins Field	Rural Residential	C	0	2	7/30	17		17	17	\$ 45	\$ -	\$ 769	\$ 769	
2015	SW Oregon	Hwy 66	Small Woodlands	C	2	1	10/31	56		56	56	\$ 1,018	\$ -	\$ 56,495	\$ 56,495	
2015	SW Oregon	Krauss Ln	Industrial	C	0	4	8/8	58	33	25	58	\$ 1,283	\$ 42,347	\$ 32,081	\$ 74,429	
2015	SW Oregon	Meadows Rd	Small Woodlands	C	1	2	10/1	11		11	11	\$ 3,124	\$ -	\$ 32,800	\$ 32,800	
2015	North Cascade	Niagara Fire	Small Woodlands	C	10	4	7/4	79		79	79	\$ 10,773	\$ -	\$ 851,038	\$ 851,038	
2015	DFPA	Cable Crossing	County	F	0	2	7/28	1846	904	941	1846	\$ 5,352	\$ 4,839,180	\$ 5,038,713	\$ 9,877,893	
2015	Western Lane	Chambers Mill	Rural Residential	D	2	4	8/12	187	54	133	187	\$ 3,667	\$ 198,037	\$ 487,759	\$ 685,797	
2015	DFPA	Stouts Creek Fire	Rural Residential	G	2	2	7/30	26452	5615	6539	12154	\$ 424	\$ 2,379,621	\$ 2,771,462	\$ 5,151,083	
2015	West Oregon	Willamina Creek	Industrial	E	10	5	8/19	215	132	83	215	\$ 5,628	\$ 742,910	\$ 467,133	\$ 1,210,043	
																<b>\$ 1,372,083</b>





# 2015/2016 Fire Program Review Committee

REPORT TO STATE FORESTER

June 30, 2016



Prepared by the Oregon  
Department of Forestry



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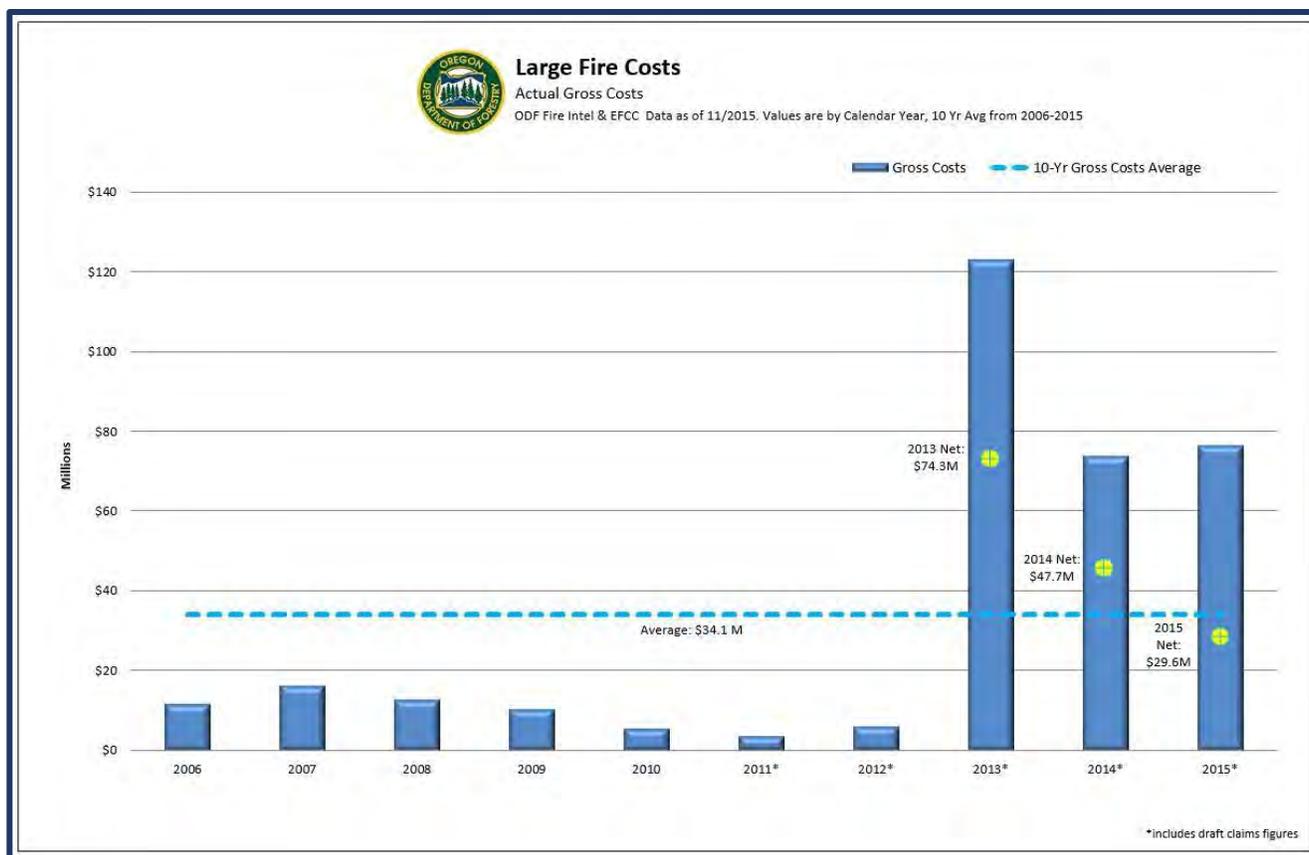
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## Introduction

During the 2013, 2014 and 2015 fire seasons, Oregon experienced a significant increase in wildland fires across all ownerships, and related damages and costs. Contributing to the increasing duration and intensity of high fire danger periods have been long-term drought conditions, limited snow pack, significant lightning events, and record-breaking high temperatures.

Ten-year averages for suppression costs and acres burned, along with loss of resources and structures, have significantly increased and a trend toward more complex fire conditions in Oregon is anticipated in the future. The amount of firefighting resources required has, at times, taxed the Oregon Department of Forestry’s protection system, both financially and operationally. This increased need for agency resources also coincided with periods of high workloads in the Department’s other programs, including State Forests, Private Forests, and Administrative Services, delaying critical work in these program areas.

In response to these challenges, the Department, legislative leadership and the Governor’s office partnered to initiate a comprehensive review of Oregon’s complete and coordinated wildfire protection system. To facilitate this effort, and incorporate the broad perspectives necessary to be successful, the Department convened a Fire Program Review Committee comprised of key landowners, stakeholders, agency cooperators, legislative leadership and the Governor’s office.



## Fire Program Review Committee Purpose and Scope

The committee was created for the purpose of: “advising the State Forester in an effort to develop and implement agency initiatives that build toward a more sustainable fire organization, including large fire funding viability.”

The committee’s recommendations, as summarized in this report, will be thoughtfully reviewed by the Board of Forestry and the Department. Recommendations may be incorporated into the Board of Forestry’s work plan as well as the Department’s operating plans for future implementation. The Board is the decision-making forum for implementing committee recommendations that require the Department to take legislative action (enacting or amending Oregon statutes or changes to the agency budget).

### Fire Program Review Committee Goal

*“To provide recommendations on continuous improvement strategies for Oregon’s highly functioning complete and coordinated wildland fire protection system.”*

### Committee Objectives

In its deliberations, the Fire Program Review Committee pursued three objectives:

1. Sustainable Large Wildfire Funding: To explore long-term solutions to Oregon’s large wildfire funding challenges by:
  - Considering a range of options to improve Oregon’s existing large wildfire funding system, including a self-insurance model and/or an alternate structure to the current private insurance.
2. Sustainable Wildfire Organization: To explore long-term solutions to the challenges inherent in supporting all Department programs in the context of more challenging fire seasons by:
  - Conducting a broad review of the current agency organizational challenges inherent in supporting all agency programs, in the context of more challenging fire seasons. Identifying critical shortages and future protection system investment opportunities for the Department’s biennial budget development process.
3. Wildfire Policy: To explore policy options to help mitigate the increasingly complex wildfire conditions in Oregon by:
  - Considering initiatives and making recommendations towards an implementation plan that aligns local, private, state and federal partners towards a cohesive wildland fire management strategy in Oregon that achieves the objective to mitigate Oregon’s increasingly complex wildfire conditions.

## 2015-16 Fire Program Review Committee Development and Process

During the fall of 2015, the State Forester, Governor's office and legislative leadership coordinated to identify the purpose, scope and membership for the Fire Program Review Committee. The committee's full roster is detailed on page nine of this report and includes seven legislators, the Governor's office, forest landowners, key partners and stakeholders.

The Fire Program Review Committee began its work with a formative meeting on December 1, 2015, when committee members shared thoughts on desired future 'headlines' that might result from the committee's efforts. The committee reviewed its purpose and objectives detailed in the committee charter and was presented with relevant information from recent fire seasons to assist in the identification of key challenges to be addressed by the committee.

The committee formed two work groups to begin deliberations on the first two committee objectives: 1. "Sustainable Large Wildfire Funding Work Group" and 2. "Sustainable Wildfire Organization Work Group."

At the second committee meeting on January 21, 2016, the final work group was formed to deliberate on the third committee objective, "Wildfire Policy Work Group". Both the committee and the work groups operated with inclusiveness and transparency, maintaining a public comment period at each meeting. In addition to committee member participation on each of the three work groups, each work group broadened its rosters by including additional stakeholders, key partners, subject matter experts and other interested parties to provide more diverse perspectives commensurate with the challenges assigned to each work group. The three work groups were directed by the committee to produce a set of recommendations for consideration by the full committee at subsequent meetings.

At the third committee meeting on April 5, 2016, each work group presented its initial set of recommendations to the committee. The committee offered a robust deliberation on the presented topics and provided final direction to the work groups to further refine their recommendations.

At the final committee meeting on June 6, 2016, final work group recommendations were presented. The committee deliberated, adjusted and reached consensus on the following set of recommendations to the State Forester.

# Fire Program Review Committee Recommendations

## ► Sustainable Large Wildfire Funding

### Recommendation #1: Trust Fund

- Recommend a legislative ballot referral to amend the Constitution and dedicate 2 percent of Oregon Lottery funds towards the creation of a trust fund for the public share of large wildfire suppression costs on Department of Forestry jurisdictional fires and for reducing wildland fire risk.
- Recommend continuation of the Sustainable Large Wildfire Funding Work Group, including existing members, along with legislator(s) from the Fire Program Review Committee and other interested parties to further develop the referral language and the implementation framework for the trust fund concept, and present the results to the State Forester, Board of Forestry Chair and Governor's office for possible consideration by the 2017 Legislative Assembly.

### Recommendation #2: Catastrophic Fire Insurance Policy

- Recommend ODF and the Emergency Fire Cost Committee (EFCC) regularly perform due diligence on the value, retention and policy limits of the existing catastrophic fire insurance policy and, when appropriate, purchase the catastrophic fire insurance policy.
- Recommend ODF and EFCC refine the proposed parametric insurance concept and its role in the public share of large fire costs, and present their findings to the Board of Forestry for consideration. The intent is for it to be funded by the state General Fund.

### Recommendation #3: Bureau of Land Management Protection Study

- Recommend ODF, EFCC and the BLM initiate a study examining the equity of BLM contributions to large fire funding compared to large fire costs expended on BLM lands, and present alternatives for reconciling any identified issues to agency leaders.
  - EFCC and ODF will initiate this work on June 7, 2016 by developing a draft charter to define the scope and intent of the study
  - EFCC and ODF are to include BLM leadership early and throughout the process
  - EFCC will provide study results and alternatives to the State Forester and to the Board of Forestry by June 1, 2017
  - The Department will utilize the results to inform the 2018 BLM suppression contract process.

## ► Sustainable Wildfire Organization

### Recommendation #1: Severity

- The committee recommends the additional severity investments, up to \$1.5 million, be pursued through the Department budget process. The intent is for it to be funded by the General Fund. The Department will develop metrics that allow for analysis of the effectiveness of severity investments.

### Recommendation #2: Improvements to the Complete and Coordinated Wildfire Protection System

- The committee recommends that the agency (Salem Protection Division as well as local ODF Fire Protection Districts and Forest Protective Associations), coordinate and collaborate with landowners, cooperating agencies and stakeholders to establish priorities on the additional themes identified by the Sustainable Fire Organization work group as future focus areas and recommends that the Department embrace them and work to implement specific options, over time, through budget and legislative processes.

## ► **Wildfire Policy**

### Recommendation #1: Landscape Resiliency and Fuels Management

- Request that ODF Resource Planning staff work to conduct a Wildfire Risk Analysis to quantify the potential of wildfire to move across ownership boundaries and to prioritize landscape level treatments. This research work should be conducted collaboratively with stakeholders, partners and cooperators. ODF should use the information from the analysis to support agency input to Bureau of Land Management (BLM) and U.S. Forest Service (USFS) planning efforts, especially regarding boundary issues along private-public ownership boundaries.
- Encourage the Oregon Legislature to support the state's financial interest to simultaneously continue the pace, scale and quality of federal forest restoration, reduce the risk of transferring wildfire to private lands, and enhance economic opportunity in rural communities. This includes federal funds spending limitation to implement Good Neighbor Authority projects. Encourage the State Forester to enter into a Good Neighbor Authority agreement with the BLM.
- Request that the Board of Forestry maintain its Federal Forest Subcommittee and elevate its voice on the importance of active management to increase fire resiliency on lands managed by the USFS and BLM.
- Request that the ODF Protection Division work with the ODF Partnership and Planning Program to pursue alternative funding sources available through grants and partnerships to increase fuels management work and landscape resiliency (e.g., USDA Natural Resources Conservation Service Regional Conservation Partnership Program, USFS Community Assistance Grants, Joint Chiefs Designations, and Cohesive Strategy)

### Recommendation #2: Smoke Management and Prescribed Burning

- Request that ODF Protection Division work with the Smoke Management Advisory Committee to engage the USFS, BLM, Department of Environmental Quality, Oregon Health Authority, landowners and other partners to initiate a study to identify the factors which limit land managers from meeting their prescribed fire burning objectives.
- Request that ODF Protection Division and ODF Public Affairs work with partners (USFS, BLM, tribes, private landowners, cities, Oregon Health Authority, DEQ, Oregon Forest Resources Institute, Oregon State University Extension Service, rural fire departments and collaborative groups) to conduct a proactive public outreach campaign to increase awareness of the need

for and understanding of the use of prescribed fire and to generate social support for the activity.

#### Recommendation #3: Rangelands

- Continue to enhance coordination between Rangeland Fire Protection Associations (RPAs), the BLM and other collaborative partners to increase fire suppression capability and capacity on rangeland fires (such as the Harney County Wildfire Collaborative). Continue to incorporate unprotected rangelands into existing or new RPAs.
- Request the ODF Protection Division support innovations and research in rangeland landscape management by RPAs and their partners, in coordination with the U.S. Department of Agriculture (Agricultural Research Service) and the U.S. Department of the Interior to build capacity to mitigate the risk of wildfire on Oregon's rangeland (e.g. precision restoration project being implemented in sage grouse country). Encourage the Oregon Legislature to continue to strategically invest in restoration projects that meet sage grouse habitat and fuel mitigation objectives.

#### Recommendation #4: The Wildland/Urban Interface

- Request that ODF Protection Division and ODF Resource Planning collaborate to initiate a study to analyze the suppression costs associated with fighting wildfires in the Wildland/Urban Interface (WUI) and the role of the Department and all its partners for suppression efforts in the WUI.
- Request that ODF Protection Division collaborate with the Department of Land Conservation and Development to optimize and align the current array of regulatory tools associated with wildfire mitigation, and continue to seek potential funding sources necessary to assist property owners with implementing defensible space treatments around residences and structures at the time of construction, and at appropriate intervals thereafter.
- Request that the ODF Protection Division conduct an effectiveness review of Senate Bill 360 policies and implementation procedures, and determine the most effective pathway forward, with a focus on its success in mitigating the risk of wildland fire fuels in the WUI.

## Conclusion

This report summarizes the seven-month process of the 2015-2016 Fire Program Review Committee and offers a suite of committee recommendations to the State Forester, informed by efforts of the three committee established work groups: Sustainable Large Wildfire Funding, Sustainable Wildfire Organization and Wildfire Policy.

The Department will strive to implement these recommendations over the next several biennium, through existing processes including: Board of Forestry work planning, biennial budget development and agency annual operating planning. Successful implementation will require continued and enhanced collaboration with forest protective associations, federal and other state wildland fire management agencies, other state agencies, local emergency management organizations, private-sector firefighting contractors, forest landowners/operators, rangeland protection associations, as well as other stakeholders and partners.

These recommendations will guide the agency in its effort to achieve a more sustainable large wildfire funding model, work towards achieving a more sustainable wildland fire organization and in developing policies and programs to mitigate the increasingly more complex wildland fire condition in Oregon.

The Fire Program Review Committee's effort represents the most comprehensive review of Oregon's complete and coordinated wildfire protection system since the 2004 program review. Oregon's wildfire protection system remains strong in the face of challenging conditions, and it is the broad participation and leadership expressed through this committee's work that will help to maintain the Oregon Department of Forestry's tradition of excellence, now and into the future.



## Fire Program Review Committee Members

### 2015/2016 Fire Program Review

#### Committee Chair and Co-Chairs:

- **Doug Grafe**, FPRC Chair,  
Fire Protection Division Chief
- **Ken Cummings**, FPRC Vice-Chair,  
Emergency Fire Cost Committee
- **Nancy Hirsch**, FPRC Vice-Chair,  
Deputy State Forester

#### Board of Forestry:

- **Tom Imeson**, Board of Forestry Chair
- **Nils Christoffersen**, Board of Forestry  
Liaison

#### Landowners, Stakeholders and

#### Agency Partners:

- **Phil Adams**, Forest Landowner
- **Roger Beyer**, Oregon Small Woodlands  
Association
- **Mike Haske**, Bureau of Land  
Management
- **Joe Justice**, Forest Landowner
- **Kristina McNitt**, Oregon Forest and  
Industries Council
- **Amanda Rich**, The Nature Conservancy
- **Rex Storm**, Associated Oregon Loggers
- **Jim Walker**, Oregon State Fire Marshal

#### Congressional Delegation:

- U.S. Senator **Jeff Merkley's** office
- U.S. Senator **Ron Wyden's** office

#### Legislature and Governor's Office:

- Senator **Michael Dembrow**
- Senator **Chris Edwards**
- Senator **Bill Hansell**
- Senator **Betsy Johnson**
- Representative **John Huffman**
- Representative **Kathleen Taylor**
- Representative **Gene Whisnant**
- **Brett Brownscombe**, Governor's Natural  
Resource Office
- **Cathleen Connolly**, Chief Financial Office
- **Matt Stayner**, Legislative Fiscal Office

#### Work Group Co-Chairs:

- **Tim Keith**, Sustainable Large Wildfire  
Funding Work Group Co-Chair, EFCC  
Administrator
- **Dave Lorenz**, Sustainable Large Wildfire  
Funding Work Group Co-Chair, Southern  
Oregon Area Director
- **Travis Medema**, Sustainable Wildfire  
Organization Work Group Co-Chair,  
Eastern Oregon Area Director
- **Brian Pew**, Sustainable Wildfire  
Organization Working Group Co-Chair,  
State Forests Division Deputy Chief
- **Chad Davis**, Wildfire Policy Work Group  
Co-Chair, Partnership and Planning  
Program Director
- **Bob Young**, Wildfire Policy Working  
Group Co-Chair, Protection Division  
Policy and Prevention Manager

Complete background information on the **2015/2016 Fire Program Review Committee** as well as the **Sustainable Large Wildfire Funding**, **Sustainable Wildfire Organization** and the **Wildfire Policy** work groups can be found at: <http://www.oregon.gov/ODF/Board/Pages/FireProgramReview.aspx>

The web site includes the FPRC charter, agendas, meeting notes, handouts, issue papers, posters, presentations and reference documents utilized during the committee process.



# CHARTER

## BLM Western Oregon Protection Study

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The Oregon Department of Forestry (ODF) and the Oregon Emergency Fire Cost Committee (EFCC) are chartering the Steering Committee to the BLM Western Oregon Protection Study in fulfillment of Recommendation #2 of the Fire Program Review Committee (below). Representatives from United States Department of Interior (USDI) Bureau of Land Management (BLM) have been included as a Project Contributor and as members of the Steering Committee to facilitate transparency and good communication.

### Fire Program Review Committee Recommendation

Recommendation #2 of the Large Funding Workgroup of the 2015/2016 Fire Program Review Committee is as follows:

“Recommend ODF, EFCC and the BLM initiate a study examining the equity of BLM contributions to large fire funding compared to large fire costs expended on BLM lands, and present alternatives for reconciling any identified issues to agency leaders.

- EFCC and ODF will initiate this work on June 7, 2016 by developing a draft charter to define the scope and intent of the study
- EFCC and ODF are to include BLM leadership early and throughout the process
- EFCC will provide study results and alternatives to the State Forester and the Board of Forestry by June 1, 2017
- The Department will utilize the results to inform the 2018 BLM Protection Contract process.”

### Problem Statement

Recent expenditures from Oregon’s large fire funding system have called into question the equitability of contributions to the Oregon Forest Land Protection Fund (OFLPF). Therefore, a study is necessary to develop and analyze the data.

### Background Authority

Providing fire protection responsibilities to all Oregon landowners, including western Oregon BLM lands is a critical component of ODF’s overall success in the Complete & Coordinated protection system for both public and private lands. The primary purpose of the OFLPF under ORS 477.755 (2) – is for “(a) Equalizing emergency fire suppression costs for safeguarding

forestland in any forest protection district;” The various sources of payments collected for this purpose need to be equitable and stable by all eligible OFLPF participants.

## Objectives

- Identify, develop, and analyze data where large fire suppression cost and payment disparities exist.
- Identify contributing factors of large fire cost on all western Oregon forest lands eligible for fire cost under the OFLPF, with emphasis on fires on BLM lands.
- Utilize findings to develop recommendations for equitable funding into and expenses out of Oregon’s large fire funding system.

## Study Scope

Western Oregon lands with a primary focus on fires which received suppression funding (landowner assessment & surcharges, General Funds, insurance or FEMA) either directly or indirectly through OFLPF for the 10 year period 2006-2015.

## Deliverables

- Analysis of trends to Oregon’s large fire funding system revenues and expenses.
- A summary of contributing factors will be developed as a component of the study.
- Recommendations to the EFCC, Board of Forestry, the State Forester and the BLM State Director.

## Tasks (Determined by Project Steering Committee)

- Research and validate number of fires eligible for OFLPF funding which burned in western Oregon in the past 10 years (2006 – 2015) including investigation of contributing factors for fires escaping initial and extended attack, thus increasing expenditures for OFLPF.
- Research and validate acres burned by those fires.
- Analyze payments and expenses to the OFLPF as they relate to land ownership.
- Solicit and document alternatives for improving large fire funding revenue, reducing fire suppression costs and/or reduce OFLPF cost exposure.
- Produce two or three individual fire analyses to demonstrate how findings would apply to other private or public lands.
- Draft report of findings for EFCC, Board of Forestry, the State Forester and the BLM State Director.
- Report and/or confer with a steering committee consisting of representatives from ODF, BLM, EFCC and subject matter experts.

## Communications

Progress reports will be made in conjunction with quarterly meetings of the EFCC. Project information, as approved by project steering committee, will be posted to the ODF website.

## Roles and Responsibilities

### Project Sponsors/Contributor

Project sponsors/contributor provide oversight and guidance to the Steering Committee to ensure efforts address study objectives and scope. They will receive the study deliverables and present them to their respective leadership. Designated Project Sponsors/Contributor include:

- Ken Cummings – Project Sponsor - EFCC Chair
- Doug Grafe – Project Sponsor - ODF Protection Division Chief
- Jeff Fedrizzi – Project Contributor - BLM State Fire Management Officer

### Steering Committee

Steering Committee members are responsible to assist Project Staff for assembling and analyzing data, interpreting results and packaging summary conclusions for delivery to the Project Sponsors/Contributor. The Project Leader and Project Manager will coordinate timelines and interim Steering Committee meetings/conference calls as necessary in preparation for quarterly EFCC meetings. They will also arrange for Subject Matter Experts or Advisory Partners as necessary throughout the analysis process.

- Tim Keith – EFCC Project Leader
- Mike Dykzeul – Project Manager
- Nancy Ashlock – Project Analyst
- Steve Cafferata – EFCC Member
- Pete Sikora – EFCC Member (Alternate)
- Ron Graham – ODF Project Advisor
- Dan O’Brien - BLM Project Advisor
- Joe Krish – BLM Project Advisor
- Chrystal Bader – ODF Project Support

### Subject Matter Experts

- Bob Young – ODF Protection
- Melvin Thornton – DFPA Manager
- Milt Moran – Cascade Timber Consulting, Inc. – OFIC Protection Committee Chair
- Colleen Conlee – EFCC Finance Coordinator

Additional Advisory and Informational Partners/Contributors through the process includes:

- Doug Decker, ODF State Forester
- Ron Dunton, Acting BLM Oregon and Washington, State Director
- Nancy Hirsch, ODF Deputy State Forester
- Lee Fledderjohann – EFCC Member
- Stacy Miller – ODF Executive Assistant

**Resources Required – Project Staff**

One limited duration part-time position working for up to one year – July 1, 2016 through June 30, 2017, assisted by an additional limited duration part-time employee familiar with BLM processes, procedures and the BLM Western Oregon Protection Contract. Both positions are ODF employees funded by EFCC.

Additional staff support will be available by ODF Protection Division and BLM personnel as their time allows.



# BLM PROTECTION STUDY

## Committee

<u>Committee Membership</u>	<u>Role</u>	<u>E-mail</u>	<u>Office Phone</u>	<u>Cell Phone</u>
<b><u>Project Sponsors-Contributor</u></b>				
Ken Cummings	EFCC Project Sponsor	<a href="mailto:kcummings@hnrg.com">kcummings@hnrg.com</a>	541-494-4400 ext 102	541-821-5637
Doug Grafe	ODF Project Sponsor	<a href="mailto:Doug.Grafe@oregon.gov">Doug.Grafe@oregon.gov</a>	503-945-7204	503-551-5391
Jeff Fedrizzi	BLM Project Contributor	<a href="mailto:jfedrizz@blm.gov">jfedrizz@blm.gov</a>	503-808-6461	503-341-8212
<b><u>Steering Committee</u></b>				
Tim Keith	Project Leader	<a href="mailto:Tim.Keith@oregon.gov">Tim.Keith@oregon.gov</a>	503-945-7449	503-779-7760
Mike Dykzeul	Project Manager	<a href="mailto:Mike.J.Dykzeul@oregon.gov">Mike.J.Dykzeul@oregon.gov</a>		503-871-8077
Nancy Ashlock	Project Analyst	<a href="mailto:Nancy.E.Ashlock@oregon.gov">Nancy.E.Ashlock@oregon.gov</a>		541-912-6579
Steve Cafferata	EFCC Project Advisor	<a href="mailto:cafferat@msn.com">cafferat@msn.com</a>	541-937-3114 (home)	541-797-9734
Pete Sikora	EFCC Project Advisor (Alternate)	<a href="mailto:petes@giustina.com">petes@giustina.com</a>	541-485-1500	541-954-8006
Ron Graham	ODF Project Advisor	<a href="mailto:Ron.Graham@oregon.gov">Ron.Graham@oregon.gov</a>	503-945-7271	971-718-6862
Dan O'Brien	BLM Project Advisor	<a href="mailto:d1obrien@blm.gov">d1obrien@blm.gov</a>	503-808-6518	503-701-2552
Joe Krish	BLM Project Advisor	<a href="mailto:jkrish@blm.gov">jkrish@blm.gov</a>	503-808-6559	503-307-4353
<b><u>Subject Matter Experts</u></b>				
Bob Young	ODF Protection	<a href="mailto:Robert.Young@oregon.gov">Robert.Young@oregon.gov</a>	503-945-7434	503-480-9756
Melvin Thornton	Protection Associations	<a href="mailto:Melvin.Thornton@oregon.gov">Melvin.Thornton@oregon.gov</a>	541-440-3412 ext 123	541-580-2437
Milt Moran	FPA/Private OFIC PC Comm. Chair	<a href="mailto:mmoran@cascadetimber.com">mmoran@cascadetimber.com</a>	541-367-2111 ext 231	541-409-1903
Colleen Conlee	EFCC Finance Coordinator	<a href="mailto:Coleen.R.Conlee@oregon.gov">Coleen.R.Conlee@oregon.gov</a>	541-575-1139	
<b><u>Project Staff Support</u></b>				
Chrystal Bader	ODF Support	<a href="mailto:Chrystal.Bader@oregon.gov">Chrystal.Bader@oregon.gov</a>	503-945-7220	
Tracy Guenther	ODF Support	<a href="mailto:Tracy.L.Guenther@oregon.gov">Tracy.L.Guenther@oregon.gov</a>	503-945-7446	
<b><u>Information Distribution</u></b>				
Doug Decker	ODF State Forester	<a href="mailto:Doug.S.Decker@oregon.gov">Doug.S.Decker@oregon.gov</a>	503-945-7211	503-701-0236
Ron Dunton	Acting BLM State Director	<a href="mailto:rdunton@blm.gov">rdunton@blm.gov</a>	503-808-6026	
Nancy Hirsch	ODF Deputy State Forester	<a href="mailto:Nancy.Hirsch@oregon.gov">Nancy.Hirsch@oregon.gov</a>	503-945-7205	503-881-5255
Lee Fledderjohann	EFCC Member	<a href="mailto:lfledderjohann@collinsco.com">lfledderjohann@collinsco.com</a>	541-947-2018 ext 27	541-219-0519
Stacy Miller	ODF Executive Assistant	<a href="mailto:Stacy.Miller@oregon.gov">Stacy.Miller@oregon.gov</a>	503-945-7429	
				Updated 8/22/2016

BLM Study Area OFLPF Revenue Contributions					Statewide OFLPF (Ten year Total)	Study Area Total
2006-2015	BLM	\$/Ac	Non -BLM	\$/Ac		
Total Revenue OFLPF \$	\$2,094,291	\$0.09	\$79,056,283	\$0.95	\$102,760,436	\$81,150,575
<b>Suppression Expenses Within BLM Study Area - All Owners</b>						
Suppression Cost Out	\$68,231,710	\$927.13	\$47,668,321	\$839.42		
(-Big Windy Fire)	(\$28,102,443)		\$0			
Total Cost	\$40,019,267	\$853.85	\$47,668,321			
Burned Acres	73,594		56,933			
(-Big Windy Fire)	-26,725		0			
Total Acres	46,869		56,933			
Study Area Acreage	2,400,000		8,100,000			
% Burned		3.10%		0.70%		
(-Big Windy Fire)	1.90%					

BLM Study area fire (suppression) cost (All Ownerships) \$115,920,031 (Summary of Table 3)					
	\$	%	Ac	%	Total AC
Exclusive BLM Ownership Suppression Costs	\$ 33,556,745	29%	27,986	38%	22%
Mixed BLM Suppression Costs	\$ 34,674,965	30%	45,608	62%	35%
<b>Total BLM Lands</b>	<b>\$ 68,231,710</b>	<b>59%</b>	<b>73,594</b>	<b>100%</b>	<b>56%</b>
Exclusive Non-BLM Ownership Suppression Costs	\$ 6,518,349	6%	2,808	5%	2%
Mixed Non-BLM Suppression Cost	\$ 41,149,972	35%	54,125	95%	41%
<b>Total Non-BLM Lands</b>	<b>\$ 47,688,321</b>	<b>41%</b>	<b>56,933</b>	<b>100%</b>	<b>44%</b>
<b>Totals</b>	<b>\$ 115,920,031</b>	<b>100%</b>	<b>130,527</b>		<b>100%</b>

Suppression cost comparison between Class "C" and Larger fires							
Fire Cost for Class C (10 - 100 Acres)				Fire Cost for Class D,E,F,G (100 acre and greater)			
Year	Exclusive BLM	Mixed Ownership	Exclusive Non-BLM	Exclusive BLM	Mixed Ownership	Exclusive Non-BLM	
2006	\$ 1,176,084				\$ 4,413,543	\$ 355,196	
2007		\$ 361,175	\$ 198,422	\$ 1,162,312	\$ 559,959	\$ 140	
2008	\$ 852,434	\$ 231,827	\$ 219,946		\$ 2,901,863		
2009	\$ 183,475		\$ 328,716		\$ 502,478	\$ 32,145	
2010	\$ 1,083,987		\$ 10,355		\$ 546,815		
2011		\$ 146,469	\$ 636,240		\$ 804,245	\$ 283,714	
2012	\$ 184,973	\$ 289,969	\$ 8,887		\$ 1,291,017		
2013	\$ 70,188	\$ 42,349	\$ 322,264	\$ 28,262,442	\$ 26,297,643	\$ 129,146	
2014	\$ 202,821	\$ 1,604,514	\$ 565,609		\$ 18,834,414	\$ 2,124,876	
2015	\$ 378,028	\$ 74,429	\$1,302,693		\$ 16,924,815		
<b>Total</b>	<b>\$ 4,131,990</b>	<b>\$ 2,750,730</b>	<b>\$3,593,132</b>	<b>\$ 29,424,754</b>	<b>\$ 73,076,792</b>	<b>\$ 2,925,217</b>	
<b>10 year Cost Class C</b>	<b>\$ 10,475,852</b>			<b>10 Year Cost Class D,E,F,G</b>	<b>\$ 105,426,763</b>	<b>Total 10 Year Cost C,D,E,F,G</b>	<b>\$115,902,615</b>

Ownership at point of origin: fires greater than 10 acres 2006 - 2015									
Origins Of Fires	BLM	Industrial	County	Other Private	Other Public	Rural Residential	Small Woodland	State	USFS
<b>Total # of Fires</b>	<b>33</b>	<b>30</b>	<b>5</b>	<b>2</b>	<b>2</b>	<b>18</b>	<b>6</b>	<b>4</b>	<b>4</b>
Burning Vehicle or Equipment	1		1						
Campfire unattended	1	1							
Discarded Cigarette/Tobacco	2	1				1			
Firearms General	1	1						1	1
Lightning	23	9		1	1		1		1
Other Arson Related	1	1	1			2	1		
Other - Misc.		2	1			2			
Other - Recreational		1							
Railroad Related	1								
Equipment Use	1	1	1		1	3		1	
Power Lines	1	1				3	1		
Warming Fires unattended	1	1							
Carbon Sparks		1	1			3	1	2	2
Fireworks		1				2			
Hot Ashes		1							
Escaped Slash Burn		6					1		
Other - Burning				1					
Burning Building						1			
No Cause Shown		2				1	1		

Fires Crossing Ownerships	
Origin Owner	# of Fires
BLM	11
Industrial	14
County	3
Other Private	1
Other Public	0
Rural Residential	5
Small Woodlands	2
State	2
USFS	1

256 Fires Analyzed	Regional Preparedness Levels 2006-2015 Note: Three fires were outside fire season				
	PL 1	PL 2	PL 3	PL 4	PL 5
# Fires	54	26	82	37	54

\*Fires that moved from BLM to other ownerships or from other ownership to BLM  
 \* 11 fires burned from BLM on to other  
 \*28 fires burn from other on to BLM

# Oregon's Large Fire Funding System (2017)

**Insurance Policy**

\$25 M  
Insurance Policy

**Insurance Deductible  
\$50 Million total**

\$30 M  
State of Oregon

\$20 M  
shared  
GF & OFLPF

**Insurance Premium**

GF      OFLPF

**Statewide Severity**

Severity  
\$2 M GF

Severity  
Up to \$3 M OFLPF

**Base  
\$48 Million**

**Base Level of Fire Protection  
"The Fire Department"**  
GF / Private Landowner and Public Lands Assessments  
State and Public Lands – No GF Match

\* GF – General Fund      \* OFLPF – Oregon Forest Land Protection Fund