

Air Quality Division

Air Monitoring  
& Quality Assurance  
Program

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Exceptional Events Waiver  
Request  
For Exceptional PM<sub>2.5</sub> Events  
June 18 - 28,  
July 1 - 31, and  
August 8, 2015  
in the Fairbanks North Star  
Borough, Alaska

-Appendix E-  
Tables and Figures

February 15, 2018

	NCORE Primary	NCORE Secondary	SOB FRM	North Pole
2-Jun	1.4		1.2	6.4
5-Jun	2.0	7.9	2.3	4.9
8-Jun	1.3		1.9	3.9
11-Jun	1.6	2.5	1.5	2.9
14-Jun	4.8		4.6	7.5
17-Jun	3.8	9.5	3.0	6.2
20-Jun	8.0		8.8	15.3
23-Jun	68.8	76.9	68.3	83.2
26-Jun	102.4		105.0	95.0
29-Jun	9.7	9.5	9.6	8.6
2-Jul	45.2		44.3	45.4
5-Jul	13.8	13.5	14.0	15.4
8-Jul	60.0		57.1	54.5
11-Jul	5.0	5.3	0.7	5.7
14-Jul	14.7		14.3	14.9
17-Jul	1.3	1.6	1.6	1.0
20-Jul	4.2		4.6	22.1
23-Jul	3.7	3.4	3.5	
26-Jul	15.2		14.6	9.6
29-Jul	15.0	14.5	14.6	11.7
1-Aug	10.1		10.3	7.6
4-Aug		5.5	5.3	5.6
7-Aug	9.3			11.5
10-Aug	2.1	2.5	1.6	1.7
13-Aug	2.3		2.6	2.5
16-Aug		2.4	2.7	3.6
19-Aug	1.0		0.8	0.5
22-Aug	1.5	2.3	0.6	1.8
25-Aug	2.1		1.3	1.9
28-Aug	1.2	1.6	1.2	1.6
31-Aug			4.7	1.2

June 24-Hour PM <sub>2.5</sub> Concentrations (µg/m <sup>3</sup> )							July 24-Hour PM <sub>2.5</sub> Concentrations (µg/m <sup>3</sup> )						
Date	NC Core FRM 1*	NC Core FRM 2*	NC Core BAM	NPFS FRM	NPFS BAM	SOB FRM	Date	NC Core FRM 1*	NC Core FRM 2*	NC Core BAM	NPFS FRM	NPFS BAM	SOB FRM
23	68.8	76.9	76	83.2	86.4	68.3	2	45.2		48.5	45.4	42.1	44.3
24							3						
25							4						
26	102.4		109.5	95	93.4	95	5						
27							6						
28							7						
							8	60		63	54.5	54.8	57.1
<p><b>Red Bolded Values</b> indicate an exceedance of the 24-hour NAAQS (35 µg/m<sup>3</sup>)</p>													

June 24-Hour PM <sub>2.5</sub> Concentrations (µg/m <sup>3</sup> )							July 24-Hour PM <sub>2.5</sub> Concentrations (µg/m <sup>3</sup> )							August 24-Hour PM <sub>2.5</sub> Concentrations (µg/m <sup>3</sup> )										
Date	NC Core FRM 1*	NC Core FRM 2*	NC Core BAM	NPFS FRM	NPFS BAM	SOB FRM	Date	NC Core FRM 1*	NC Core FRM 2*	NC Core BAM	NPFS FRM	NPFS BAM	SOB FRM	Date	NC Core FRM 1*	NC Core FRM 2*	NC Core BAM	NPFS FRM	NPFS BAM	SOB FRM				
18			N/A		22		1			26.7			23.5	8										
19			9		28.3		2																	
20	5		10.2	15.3	11.0	8.8	3			30.4			25											
21			25.3		22.2		4			17.9			17.3											
22			78		72.1		5	13.8	13.5	57.5	15.4	60	14											
23							6			13.7			13.6											
24			184.6		160.2		7			201.2			134.5											
25			137.2		96.3		8																	
26							9			13.2			15.1											
27			58.9		42.9		14	14.7		17.7	14.9	13.8	14.3											
28			15.1		8.8		20	5.2		4.3	22.1	3.1	4.8											
							24			14			10.9											
							25			13.5			9.4											
							26	15.2		15.2	9.6	7.1	14.6											
							27			15.8			7.8											
							28			22.3			16.6											
							29	15		14.5			10.3											
							31			14			10.1											
<p><b>Black Bolded Values</b> indicate an exceedance of the Annual NAAQS (12 µg/m<sup>3</sup>)</p>																								
<p><b>Red Bolded Values</b> indicate an exceedance of the 24-hour NAAQS (35 µg/m<sup>3</sup>)</p>																								

June							July							August						
24-Hour PM <sub>2.5</sub> Concentrations (µg/m <sup>3</sup> )							24-Hour PM <sub>2.5</sub> Concentrations (µg/m <sup>3</sup> )							24-Hour PM <sub>2.5</sub> Concentrations (µg/m <sup>3</sup> )						
Date	NCORE FRM 1°	NCORE FRM 2°	NCORE BAM	NPFS FRM	NPFS BAM	SOB FRM	Date	NCORE FRM 1°	NCORE FRM 2°	NCORE BAM	NPFS FRM	NPFS BAM	SOB FRM	Date	NCORE FRM 1°	NCORE FRM 2°	NCORE BAM	NPFS FRM	NPFS BAM	SOB FRM
1			4		3.4		1			26.7		23.5		1	10.1		10.9	7.6	5.8	10.3
2	1.4		3	6.4	2.6	1.2	2	45.2		48.5	45.4	42.1	44.3	2			5.3		3.2	
3			3.5		7.1		3			30.4		25		3			2.9		-1.3	
4			3.1		9.5		4			17.9		17.3		4	5.5	5.5	5	5.6	0.8	5.3
5	2	7.9	3.5	4.9	6.9	2.3	5	13.8	13.5	57.5	15.4	60	14	5			7.5		2.6	
6			3.1		2		6			13.7		13.6		6			10.1		9.2	
7			4.1		4.2		7			201.2		134.5		7	9.3		9.5	11.5	9.3	N/A
8	1.3		3.3	3.9	2.4	1.9	8	60		63	54.5	54.8	57.1	8			27.7		27.4	
9			3.8		4.4		9			13.2		15.1		9			10.8		9.6	
10			4.3		6.8		10			6.2		5.9		10	2.1	2.5	2.4	1.7	0.3	1.6
11	1.6	2.5	3.7	2.9	4.6	1.5	11	5	5.3	5.6	5.7	4.1	0.7	11			2.8		1	
12			3.4		2.5		12			6		4.7		12			2.4		2.3	
13			4.9		3.3		13			5.4		2.8		13	2.3		3.2	2.5	0.9	2.6
14	4.8		4.9	7.5	6	4.6	14	14.7		17.7	14.9	13.8	14.3	14			4.6		2.4	
15			N/A		5.4		15			1.2		0		15			3.1		1.6	
16			N/A		4.3		16			1		1.2		16	2.4	2.4	3.5	3.6	1.8	2.7
17	3.8	9.5	N/A	6.2	6.7	3	17	1.3	1.6	1.9	1	-0.2	1.6	17			1.4		-0.8	
18			N/A		22		18			3.3		0		18			2.4		-1.5	
19			8		28.3		19			3.6		1.7		19	1		1.7	0.5	0	0.8
20	8		10.2	15.3	11.6	8.8	20	4.2		4.5	22.1	3.1	4.6	20			1.8		-0.1	
21			25.3		22.2		21			2.7		1		21			3.1		N/A	
22			78		72.1		22			1.6		0.2		22	1.5	2.3	2.5	1.8	N/A	0.6
23	68.8	76.9	76	83.2	86.4	68.3	23	3.7	3.4	2.3	N/A	1	3.5	23			2		N/A	
24			184.6		160.2		24			14		10.8		24			2.9		1.7	
25			137.2		96.3		25			13.5		9.4		25	2.1		2.7	1.9	-0.4	1.3
26	102.4		109.5	95	93.4	95	26	15.2		15.2	9.6	7.3	14.6	26			N/A		-2.8	
27			58.9		42.9		27			15.8		7.8		27			N/A		-0.8	
28			15.1		8.8		28			22.3		16.6		28	1.2	1.6	N/A	1.6	-0.4	1.2
29	9.7	9.5	10.5	8.6	7.3	8.6	29	15	14.5	20.6	11.7	10.3	14.6	29			N/A		0.6	
30			7.3		6.1		30			8.1		4.4		30			N/A		-0.1	
							31			14		10.1		31	N/A		3.3	N/A	0.7	4.7

Table 3. FRM PM<sub>2.5</sub> concentrations in µg/m<sup>3</sup> at FNSB NCORE, SOB and NPF sites

FAIRBANKS INTLAP

Date	Precip
6/1/2015	0.13
6/2/2015	0
6/3/2015	0.14
6/4/2015	T
6/5/2015	T
6/6/2015	0.01
6/7/2015	0.04
6/8/2015	T
6/9/2015	0
6/10/2015	0.06
6/11/2015	T
6/12/2015	0.03
6/13/2015	0
6/14/2015	0
6/15/2015	0
6/16/2015	0
6/17/2015	0
6/18/2015	0
6/19/2015	0
6/20/2015	0.07
6/21/2015	0
6/22/2015	0
6/23/2015	0
6/24/2015	T
6/25/2015	T
6/26/2015	0.14
6/27/2015	0.21
6/28/2015	0
6/29/2015	0
6/30/2015	0.22

FAIRBANKS INTLAP

Date	Precip
7/1/2015	0.23
7/2/2015	0.01
7/3/2015	0
7/4/2015	0
7/5/2015	0
7/6/2015	0
7/7/2015	0
7/8/2015	0
7/9/2015	0
7/10/2015	0
7/11/2015	0.02
7/12/2015	0
7/13/2015	0
7/14/2015	0.08
7/15/2015	0.01
7/16/2015	0.05
7/17/2015	0.01
7/18/2015	0.24
7/19/2015	0.08
7/20/2015	0.01
7/21/2015	0
7/22/2015	0
7/23/2015	0.04
7/24/2015	T
7/25/2015	0.09
7/26/2015	0
7/27/2015	0.81
7/28/2015	0.26
7/29/2015	0.46
7/30/2015	0.43
7/31/2015	0

FAIRBANKS INTLAP

Date	Precip
8/1/2015	0.07
8/2/2015	0
8/3/2015	0
8/4/2015	0
8/5/2015	0.08
8/6/2015	T
8/7/2015	0
8/8/2015	0.03
8/9/2015	0.02
8/10/2015	0.05
8/11/2015	0.02
8/12/2015	0.05
8/13/2015	0.01
8/14/2015	0
8/15/2015	0.06
8/16/2015	T
8/17/2015	T
8/18/2015	0.36
8/19/2015	0.01
8/20/2015	0.01
8/21/2015	0.04
8/22/2015	0.08
8/23/2015	0.04
8/24/2015	T
8/25/2015	0.09
8/26/2015	0.75
8/27/2015	0.17
8/28/2015	T
8/29/2015	0.13
8/30/2015	0.01
8/31/2015	0

Date	Precip	Date	Precip	Date	Precip
June	FNSB	Tanana	July	FNSB	Tanana
1	0.13	0.00	1	0.23	0.00
2	0.00	0.00	2	0.01	0.00
3	0.14	0.00	3	0.00	0.00
4	T	0.00	4	0.00	0.00
5	T	0.20	5	0.00	0.00
6	0.01	0.07	6	0.00	0.01
7	0.04	0.21	7	T	0.00
8	T	0.26	8	T	0.03
9	0.00	T	9	0.00	0.00
10	0.06	0.22	10	0.00	0.01
11	T	0.04	11	0.02	0.00
12	0.01	0.00	12	0.00	0.00
13	0.00	0.00	13	0.00	T
14	0.00	0.00	14	0.08	T
15	0.00	0.00	15	0.01	0.04
16	0.00	0.00	16	0.05	0.15
17	0.00	0.00	17	0.01	0.06
18	0.00	0.00	18	0.24	0.15
19	0.00	0.00	19	0.08	0.43
20	0.07	0.00	20	T	0.03
21	0.00	0.00	21	0.00	0.00
22	0.00	0.01	22	0.00	0.00
23	0.00	0.00	23	T	0.00
24	T	0.00	24	T	0.00
25	T	0.00	25	0.09	0.00
26	0.14	0.00	26	0.00	0.00
27	0.21	T	27	0.81	0.15
28	0.00	0.00	28	0.26	0.01
29	0.00	0.01	29	0.46	0.03
30	0.22	0.00	30	0.43	0.00
			31	0.00	0.00
Total	1.03	1.28		2.78	1.10
Precip Norm	1.37	1.50		2.16	2.16
Below Avg	24.80%	14.70%		22.30%	49.10%
Avg					27.10%
					45.60%

Climate, Precip Norms

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
FNSB	0.58	0.42	0.25	0.31	0.6	1.37	2.16	1.88	1.1	0.83	0.67	0.64	10.81
Tanana	0.43	0.43	0.37	0.32	0.6	1.5	2.16	2.55	1.53	0.66	0.51	0.53	11.59

ANANA CALHOUN

Date	MEM AP
5/1/2015	0
5/2/2015	0
5/3/2015	0
5/4/2015	0
5/5/2015	0
5/6/2015	0
5/7/2015	0
5/8/2015	0
5/9/2015	0
5/10/2015	0.37
5/11/2015	0.51
5/12/2015	0.03
5/13/2015	0
5/14/2015	0
5/15/2015	0
5/16/2015	0
5/17/2015	0
5/18/2015	0
5/19/2015	0
5/20/2015	T
5/21/2015	0
5/22/2015	T
5/23/2015	0
5/24/2015	0
5/25/2015	T
5/26/2015	0.01
5/27/2015	0
5/28/2015	0
5/29/2015	0.04
5/30/2015	0
5/31/2015	0

ANANA CALHOUN

Date	MEM AP
6/1/2015	0
6/2/2015	0
6/3/2015	0
6/4/2015	0
6/5/2015	0.3
6/6/2015	0.07
6/7/2015	0.21
6/8/2015	0.36
6/9/2015	T
6/10/2015	0.22
6/11/2015	0.04
6/12/2015	0
6/13/2015	0
6/14/2015	0
6/15/2015	0
6/16/2015	0
6/17/2015	0
6/18/2015	0
6/19/2015	0
6/20/2015	0
6/21/2015	0
6/22/2015	0.04
6/23/2015	0
6/24/2015	0
6/25/2015	0
6/26/2015	0
6/27/2015	0
6/28/2015	0
6/29/2015	0.04
6/30/2015	0
7/1/2015	0

TANANA CALHOUN

Date	MEM AP
7/1/2015	0
7/2/2015	0
7/3/2015	0
7/4/2015	0
7/5/2015	0
7/6/2015	0.01
7/7/2015	0.01
7/8/2015	0.03
7/9/2015	0
7/10/2015	0.01
7/11/2015	0
7/12/2015	0
7/13/2015	T
7/14/2015	0
7/15/2015	0
7/16/2015	0.15
7/17/2015	0.06
7/18/2015	0.15
7/19/2015	0.43
7/20/2015	0.03
7/21/2015	0
7/22/2015	0
7/23/2015	0
7/24/2015	0
7/25/2015	0
7/26/2015	0
7/27/2015	0.15
7/28/2015	0.01
7/29/2015	0.02
7/30/2015	0
7/31/2015	0

TANANA CALHOUN

Date	MEM AP
8/1/2015	0
8/2/2015	0.19
8/3/2015	0
8/4/2015	0
8/5/2015	0
8/6/2015	0
8/7/2015	0
8/8/2015	0
8/9/2015	0
8/10/2015	0.78
8/11/2015	0.16
8/12/2015	T
8/13/2015	0.12
8/14/2015	T
8/15/2015	0
8/16/2015	0.32
8/17/2015	0.12
8/18/2015	0.03
8/19/2015	1.34
8/20/2015	0.02
8/21/2015	0.01
8/22/2015	0.05
8/23/2015	0.09
8/24/2015	0
8/25/2015	0.01
8/26/2015	0.72
8/27/2015	0.66
8/28/2015	0
8/29/2015	0.02
8/30/2015	0.05
8/31/2015	0

015-05-01	50	37	0	6/1/2015	72	53.5	015-07-01	69	57.5	15-08-01	75	60.5
5/2/2015	56	40	0	6/2/2015	61	49	6/2/2015	72	59	6/2/2015	61	55
5/3/2015	56	40	0	6/3/2015	63	49	6/3/2015	65	53	6/3/2015	63	55.5
5/4/2015	57	40.5	0	6/4/2015	57	49	6/4/2015	67	54	6/4/2015	73	59
5/5/2015	59	40	0	6/5/2015	59	48	6/5/2015	78	60	6/5/2015	81	63
5/6/2015	60	44	0	6/6/2015	62	49	6/6/2015	73	64	6/6/2015	75	61.5
5/7/2015	63	49	0	6/7/2015	63	50	6/7/2015	84	70.5	6/7/2015	72	61
5/8/2015	68	46	0	6/8/2015	61	50	6/8/2015	70	58	6/8/2015	72	58.5
5/9/2015	61	44.5	0	6/9/2015	63	50	6/9/2015	69	58	6/9/2015	64	54.5
5/10/2015	68	48	0.37	6/10/2015	56	48	6/10/2015	68	58	6/10/2015	63	55.5
5/11/2015	49	43	0.51	6/11/2015	54	42	6/11/2015	71	59	6/11/2015	56	46
5/12/2015	59	45	0.03	6/12/2015	62	46	6/12/2015	72	58	6/12/2015	59	47.5
5/13/2015	67	48.5	0	6/13/2015	61	49	6/13/2015	76	60	6/13/2015	54	48
5/14/2015	71	51.5	0	6/14/2015	68	52.5	6/14/2015	75	65	6/14/2015	58	53.5
5/15/2015	69	53	0	6/15/2015	81	61	6/15/2015	72	62.5	6/15/2015	63	50
5/16/2015	70	52.5	0	6/16/2015	84	68	6/16/2015	64	56.5	6/16/2015	70	53.5
5/17/2015	64	49.5	0	6/17/2015	81	62.5	6/17/2015	75	63.5	6/17/2015	61	55.5
5/18/2015	73	53	0	6/18/2015	80	62	6/18/2015	63	57.5	6/18/2015	64	57
5/19/2015	70	53	0	6/19/2015	84	66.5	6/19/2015	61	56.5	6/19/2015	63	56
5/20/2015	68	51	T	6/20/2015	88	69	6/20/2015	63	55.5	6/20/2015	56	48.5
5/21/2015	72	53	0	6/21/2015	82	64	6/21/2015	66	54	6/21/2015	64	53
5/22/2015	66	51	T	6/22/2015	80	65.5	6/22/2015	76	59.5	6/22/2015	62	53
5/23/2015	73	59.5	0	6/23/2015	85	67.5	6/23/2015	78	67.5	6/23/2015	62	48
5/24/2015	81	63	0	6/24/2015	80	66	6/24/2015	81	62.5	6/24/2015	57	46.5
5/25/2015	63	53	0	6/25/2015	73	60.5	6/25/2015	81	62.5	6/25/2015	61	52.5
5/26/2015	67	53.5	0.01	6/26/2015	75	59.5	6/26/2015	74	61	6/26/2015	56	52.5
5/27/2015	70	55.5	0	6/27/2015	61	52.5	6/27/2015	62	57.5	6/27/2015	56	50.5
5/28/2015	78	59.5	0	6/28/2015	68							

Table 5. Data from 2015 Alaska Wild land fire Emissions Inventory

Historical Annual Fire Data							
Year	2009	2010	2011	2012	2013	2014	2015
Wild land Fire							
Acres	2,951,598	1,125,499	293,018	286,888	1,320,748	233,530	5,146,541
Tons PM <sub>2.5</sub>	1,597,149	549,494	180,976	89,560	574,496	152,298	3,147,143
Prescribed Burn							
Acres	3,740	22,136	10,585	12,095	6,549	59,672	4,132
Tons PM <sub>2.5</sub>	172	227	189	193	260	7,735	16
% of Total Emissions	0.01%	0.04%	0.10%	0.22%	0.05%	4.83%	0.00%
2015 Monthly Fire Data							
Month	May	June	July	August	September		
Wild land Fire							
Tons PM <sub>2.5</sub>	39.5	207,183	1,046,719	1,731,428	7,464		
Prescribed Burn							
Acres	3,293	522	0	100	12		
Tons PM <sub>2.5</sub>	8.927	1.415	0	0.271	3.443		

Table 6. Multi Year Average Fire Information

	1999 – 2008		2007 – 2015		2015	
	# Fires	Acres	# Fires	Acres	# Fires	Acres
6-year average	512	2,451,813	531	1,352,695		
Annual					766	5,150,673

Table 7. Fairbanks NCORE (FRM/BAM), North Pole Fire (FRM/BAM), and Fairbanks State Office Building (FRM) 24-Hour PM2.5 concentrations 2015. Bold red fonts indicates a 24-hour average concentration above the 24-hour NAAQS of 35 µg/m³ and the bold black fonts indicate a 24-hour average concentration above the annual NAAQS of 12 µg/m³.

June	NCORE FRM	NCORE BAM	NPFS FRM	NPFS BAM	SOB FRM	July	NCORE FRM	NCORE BAM	NPFS FRM	NPFS BAM	SOB FRM	August	NCORE FRM	NCORE BAM	NPFS FRM	NPFS BAM	SOB FRM
1		4		3.4		1		26.7		23.5		1	10.1	10.9	7.6	5.8	10.3
2	1.4	3	6.4	2.6	1.2	2	<b>45.2</b>	<b>48.5</b>	<b>45.4</b>	<b>42.1</b>	<b>44.3</b>	2		5.3		3.2	
3		3.5		7.1		3		30.4		25		3		2.9		-1.3	
4		3.1		9.5		4		17.9		17.3		4	5.5	5	5.6	0.8	5.3
5	2	3.5	4.9	6.9	2.3	5	13.8	<b>57.5</b>	15.4	<b>60</b>	14	5		7.5		2.6	
6		3.1		2		6		13.7		13.6		6		10.1		9.2	
7		4.1		4.2		7		<b>201.2</b>		<b>134.5</b>		7	9.3	9.5	11.5	9.3	N/A
8	1.3	3.3	3.9	2.4	1.9	8	<b>60</b>	<b>63</b>	<b>54.5</b>	<b>54.8</b>	<b>57.1</b>	8		<b>27.7</b>		<b>27.4</b>	
9		3.8		4.4		9		13.2		15.1		9		10.8		9.6	
10		4.3		6.8		10		6.2		5.9		10	2.1	2.4	1.7	0.3	1.6
11	1.6	3.7	2.9	4.6	1.5	11	5	5.6	5.7	4.1	0.7	11		2.8		1	
12		3.4		2.5		12		6		4.7		12		2.4		2.3	
13		4.9		3.3		13		5.4		2.8		13	2.3	3.2	2.5	0.9	2.6
14	4.8	4.9	7.5	6	4.6	14	<b>14.7</b>	<b>17.7</b>	<b>14.9</b>	<b>13.8</b>	<b>14.3</b>	14		4.6		2.4	
15		N/A		5.4		15		1.2		0		15		3.1		1.6	
16		N/A		4.3		16		1		1.2		16	2.4	3.5	3.6	1.8	2.7
17	3.8	N/A	6.2	6.7	3	17	1.3	1.9	1	-0.2	1.6	17		1.4		-0.8	
18		N/A		22		18		3.3		0		18		2.4		-1.5	
19		8		<b>28.3</b>		19		3.6		1.7		19	1	1.7	0.5	0	0.8
20	8	10.2	<b>15.3</b>	11.6	8.8	20	4.2	4.5	<b>22.1</b>	3.1	4.6	20		1.8		-0.1	
21		<b>25.3</b>		<b>22.2</b>		21		2.7		1		21		3.1		N/A	
22		<b>78</b>		<b>72.1</b>		22		1.6		0.2		22	1.5	2.5	1.8	N/A	0.6
23	<b>68.8</b>	<b>76</b>	<b>83.2</b>	<b>86.4</b>	<b>68.3</b>	23	3.7	2.3	N/A	1	3.5	23		2		N/A	
24		<b>184.6</b>		<b>160.2</b>		24		14		10.8		24		2.9		1.7	
25		<b>137.2</b>		<b>96.3</b>		25		13.5		9.4		25	2.1	2.7	1.9	-0.4	1.3
26	<b>102.4</b>	<b>109.5</b>	<b>95</b>	<b>93.4</b>	<b>95</b>	26	<b>15.2</b>	<b>15.2</b>	9.6	7.3	<b>14.6</b>	26		N/A		-2.8	
27		<b>58.9</b>		<b>42.9</b>		27		15.8		7.8		27		N/A		-0.8	
28		15.1		8.8		28		22.3		16.6		28	1.2	N/A	1.6	-0.4	1.2
29	9.7	10.5	8.6	7.3	8.6	29	15	20.6	11.7	10.3	14.6	29		N/A		0.6	
30		7.3		6.1		30		8.1		4.4		30		N/A		-0.1	
						31		14		10.1		31	N/A	3.3	N/A	0.7	4.7



FRM	%	2003	2006	2007	2008	2011	2012	2014	Avg
SOB	95th	7	27.4	8.8	6.4	4.3	6.3	4.4	9.3

Site DATE	10 1999	10 2000	10 2001	10 2002	10 2003	10 2004	10 2005	10 2006	10 2007	10 2008	10 2009	10 2010	10 2011	10 2012	10 2013	10 2014	10 2015	10 2016
1	14	90.7	32.2	83.4	7.5	505.6	33.5	27.4	12.4	8.1	159.5	44.5	22.4	14.8	58.7	4.8	105	6.8
2	14	53.3	11.5	42.3	7	468.6	32.1	12.5	8.8	6.4	127.7	23.4	4.5	6.3	34.4	4.4	68.3	6.8
3	12.9	45.3	7.5	28.8	6.6	379	28.9	4.6	5.7	5.1	89.7	21.3	4.3	4.1	32.6	4.1	57.1	6.7
4	8.5	39.4	7.4	24.4	6.2	378.8	20.6	4.2	5.7	4	75.3	10.9	4.2	3.7	23.4	4	44.3	3.7
5	8.1	17	6.5	13.8	6.1	336.1	16	4.1	5.6	3.8	61	10.9	4	3.6	20.6	3.7	14.6	3.5
6	7.6	10.8	6	10	6.1	327.4	8.7	4	5.3	3.6	44.1	10.1	3.7	3.5	12.1	3.7	14.6	3.4
7	7	6.6	5.7	9.1	5.2	212.8	7	4	5.2	3.2	25.6	9.8	3.7	3.3	11.9	3.6	14.3	3.2
8	6.8	5	5.5	9	4.8	182.3	5.3	3.8	4.7	3.1	19.5	9.2	3.6	3	9.6	3.3	14	3.2
9	6.4	4.7	5.5	9	4.6	155.1	5	3	4.7	3.1	19.3	8	3.5	2.5	8.2	3.2	10.3	3.2
10	6.2	4.4	5.4	7.8	4.4	149.5	4.6	2.9	4.5	3.1	17.7	5.7	3.5	2.3	8.1	3.2	9.6	3
11	6	4.3	5.4	7.5	3.9	73.2	2.9	2.7	4.5	3.1	10.3	5.7	3.2	2.2	7.5	3.1	8.8	2.8
12	5.7	4.3	5.2	7.3	3.5	73.2	2.4	2	4.3	3	9.9	5.6	3.2	2	7.1	3.1	5.3	2.8
13	5.4	4.2	5.1	7	3.4	44.5		2	4.2	2.9	8.5	5.2	3.2	1.7	6.5	3	4.7	2.7
14	5.2	4.1	5.1	6.4	3	39.7		1.7	4.1	2.7	8.4	5.1	3.1	1.5	5.6	2.9	4.6	2.7
15	5	3.9	4.8	5.2	2.9	26.6		1.2	4	2.7	8	5	3	0.9	5.4	2.9	4.6	2.6
16	4.6	3.8	4.5	4.6	2.7	22			3.8	2.7	7.7	5	3	0.2	5.4	2.7	3.5	2.5
17	4.2	3.7	4.4	4.6	2.6	22			3.5	2.5	6.6	4.9	2.9	0.2	5.4	2.7	3	2.5
18	4.2	3.6	4.4	4.5	2.1	19.6			3.3	2.4	5.1	4.8	2.8	0.2	4.5	2.6	2.7	2.2
19	4.1	3.5	4.3	4.4	1	15.5			3.2	2.4	5	4.8	2.7	0.2	4.3	2.6	2.6	2.2
20	3.7	3.5	4.3	4.2	0.5	15.5			3	2.4	4.7	4	2.6	0.2	4.2	2.4	2.3	2.1
21	3.7	3.4	3.9	4	0.3	12.2			3	2.3	4.4	3.6	2.6	0.1	4.1	2.3	1.9	2.1
22	3.5	3	3.8	3.8		5.1			2.8	2.1	4.1	3.2	2.5	0.1	3.5	2.2	1.6	2
23	3.5	2.9	3.8	3.8		4.7			2.7	2.1	4.1	3.2	2.2	0.1	3.4	2.2	1.6	2
24	3.2	2.8	3.7	3.6		3.2			2.4	2.1	4.1	3.1	2.2	0.1	3.2	2.2	1.5	2
25	2	2.8	3.5	3.5		3.1			1.9	2.1	3.9	2.7	2.1	0.1	2.7	1.9	1.3	1.9
26		2.6	3.3	3.1		3			1.8	1.8	3.7	2.6	2.1	0	2.5	1.7	1.2	1.7
27		2.5	3	1.8		2.8			1.7	1.6	3.5	2	1.7	0	2.2	1.7	1.2	1.5
28		2.5	2.9	1					1.7	1.5	3.4	2	1.7	0	1.5	1.5	0.8	1.1
29		1.8	2.7						1.7	1.1	3.2	1.4	1.6	0	1.3	1.4	0.7	1.1
30		1.6	2.2						1.4	1	3.1	1.3	1.4	0	1.2	0	0.6	0.6
31										1			1	0			0	0.2

State Office Building FRM Filter Data (02-090-0010-88101-1)																		
1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
25	30	30	28	21	27	12	15	30	31	30	30	31	31	30	30	31	31	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	
99th	6.4	90.7	32.2	83.4	7.5	505.6	33.5	27.4	12.4	8.1	159.5	44.5	22.4	14.8	58.7	4.8	105	6.8
95th		53.3	11.5	42.3	7	468.6		27.4	8.8	6.4	127.7	23.4	4.5	6.3	34.4	4.4	68.3	6.8

99th Avg for low fire yrs	13.91428571
95th Avg for low fire yrs	9.257142857

FRM	%	2003	2006	2007	2008	2011	2012	2014	Avg
SOB	95th	7.0	27.4	8.8	6.4	4.3	6.3	4.4	9.3
NCORE	95th	NA	NA	NA	NA	4	6.7	4.8	5.2
NPF	95th	NA	NA	NA	NA	NA	13.2	NA	13.2

Year	Acres burned	# Fires
2000	756,296	369
2001	218,113	351
2002	2,186,682	544
2003	602,146	465
2004	6,523,816	696
2005	4,649,597	624
2006	270,539	305
2007	649,411	506
2008	103,299	368
2009	2,951,592	527
2010	1,125,419	688
2011	293,018	515
2012	286,888	418
2013	1,320,752	612
2014	293,202	377
2015	5,150,673	766
Avg.	1,711,340	508

531  
1,352,695

Wildfire Emissions												
Calendar Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Wildfire Acres	6,590,140	4,493,846	258,529	536,180	62,650	2,951,598	1,125,499	293,018	286,888	1,316,288	233,530	5,146,541
Number of Fires	701	624	308	509	367	527	691	515	416	613	377	766
Wildfire Tons PM2.5	N/A	1,951,531	93,409	207,428	35,785	1,597,149	549,494	180,976	89,560	89,560	152,298	3,147,143

Last 10 Years: 2013 ranked #4 for acres burned and fires started  
Last 5 Years; 2013 ranked #2 for acres burned and fires started

Prescribed Burn Emissions														
Calendar Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Acres	N/A	626	9,110	21,761	4,081	3,740	22,136	10,585	12,095	6,549	59,672	4,132	33,400	63,804
Tons PM2.5	N/A	231	200	4,570	454	172	227	189	193	260	7,735	16		

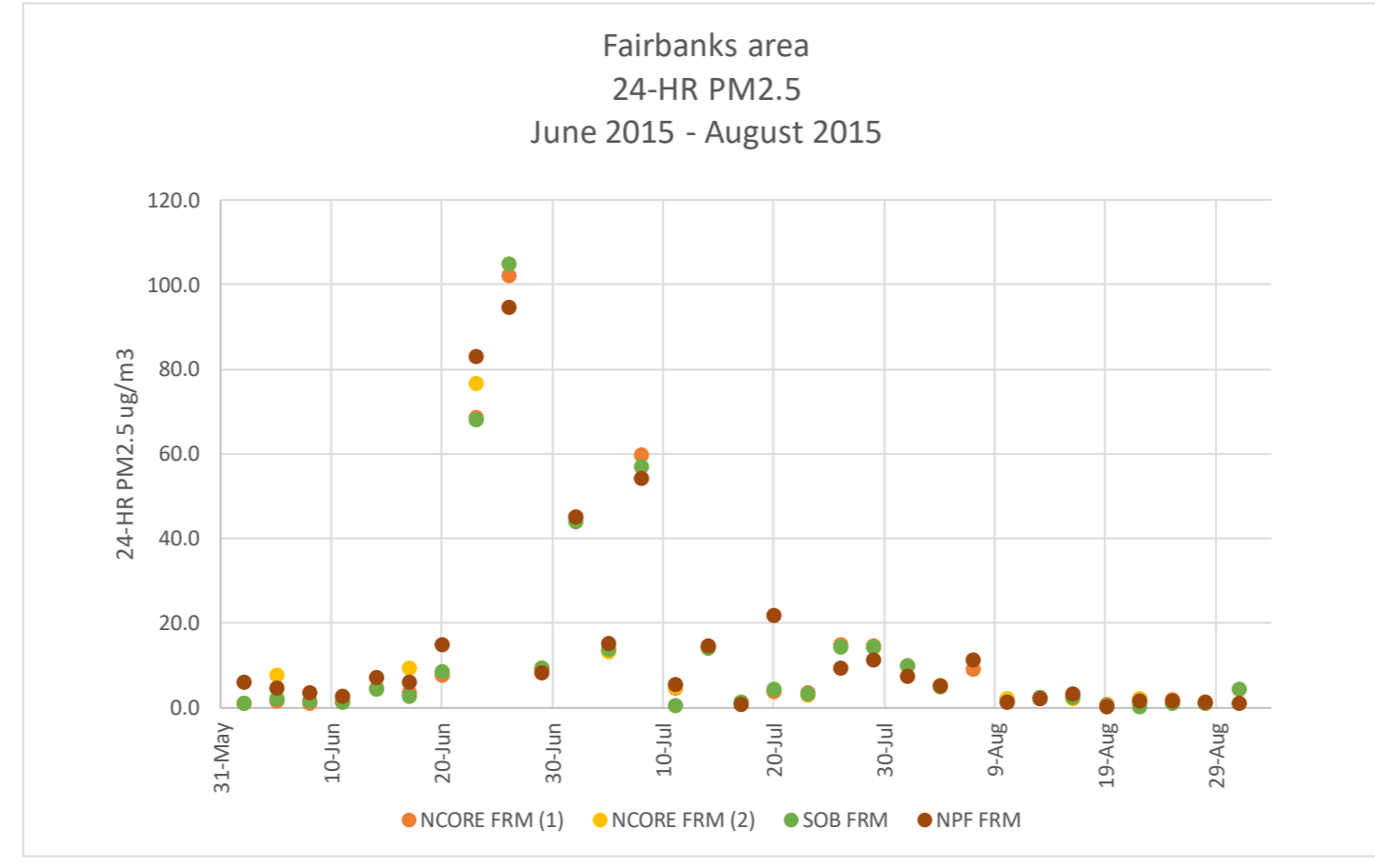
293,202 5,150,673

Table 10. Rapid growth of fires in the interior of Alaska

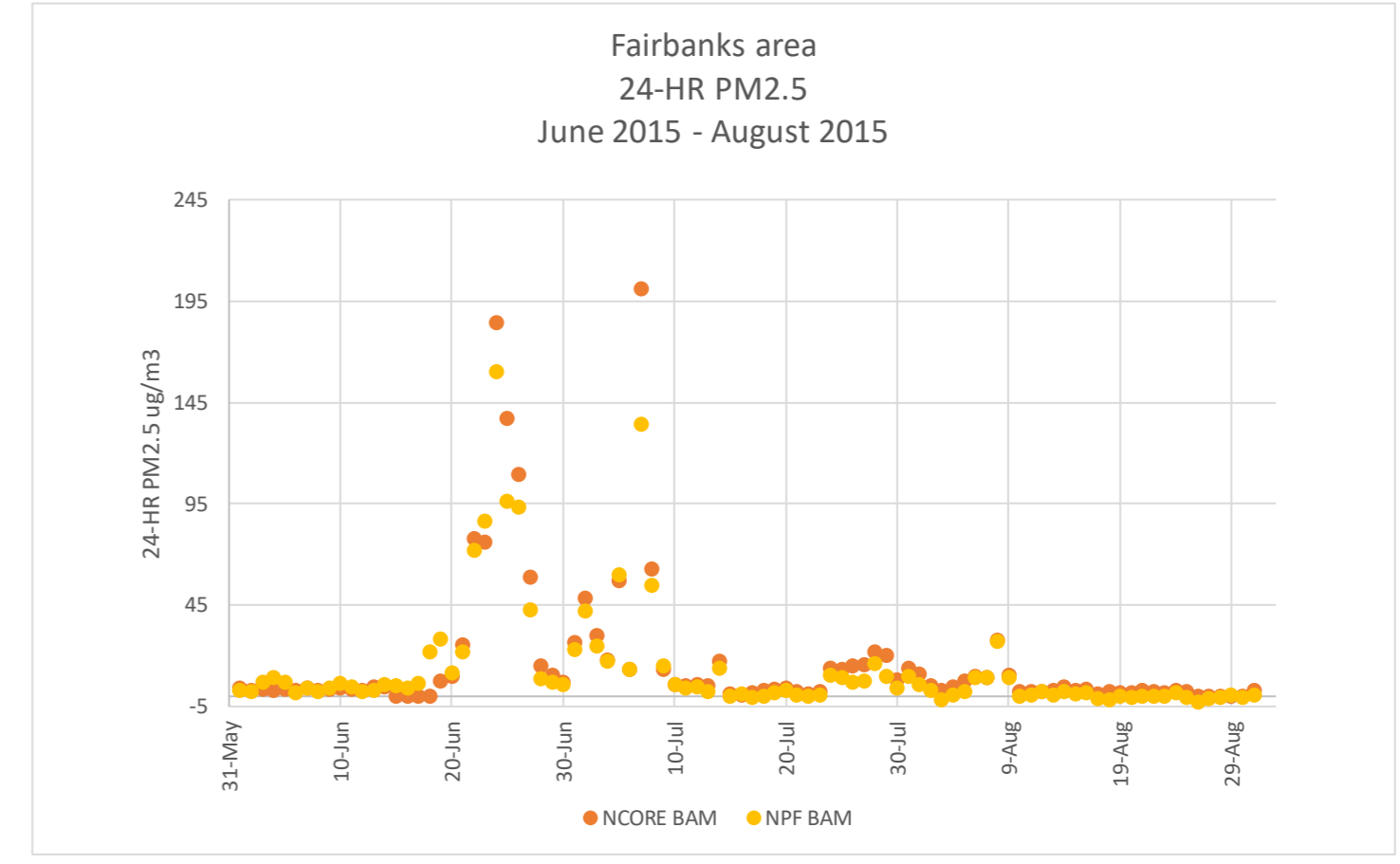
Fire Name	Discovery Date	Acreage		Growth (Acres)	Estimated Total Acres
	June	Initial	6-Jul-15		
Dulbi River	6/19	5	5,403	<b>5,398</b>	54,503
Sea	6/19	1	45,007	<b>45,006</b>	111,194
Kobe	6/20	1	8,642	<b>8,641</b>	8,642
Fish Creek	6/20	2	7,474	<b>7,472</b>	7,464
Blair	6/20	1	26,218	<b>26,217</b>	37,597
Hay Slough	6/21	1	40,394	<b>40,393</b>	91,444
Harper Bend	6/21	1	18,629	<b>18,628</b>	43,378
Sushgitit Hills	6/21	200	51,355	<b>51,155</b>	276,038
Baker	6/21	5	5,523	<b>5,518</b>	24,179
Bering Creek	6/21	1	61,053	<b>61,052</b>	112,807
Tozitna	6/21	1	72,962	<b>72,961</b>	78,213
Big Mud River 1	6/21	1,000	8,789	<b>7,789</b>	103,968
Chitanana River	6/21	800	37,972	<b>37,172</b>	43,200
Bruno Creek	6/21	1	13,157	<b>13,156</b>	15,132
Tobatokh	6/22	20	54,036	<b>54,016</b>	54,036
Dagislahna	6/22	10	6,481	<b>6,471</b>	9,751
Aggie Creek	6/22	2	16,939	<b>16,937</b>	31,705
Big Creek Two	6/22	100	64,973	<b>64,873</b>	312,918
Blind River	6/22	800	46,542	<b>45,742</b>	60,807
Holtnakatna	6/22	1,000	101,299	<b>100,299</b>	223,154
Munsatli	6/22	1	19,477	<b>19,476</b>	20,943
Flint Creek	6/23	1	30,003	<b>30,002</b>	35,749
Loyd	6/23	1	4,363	<b>4,362</b>	66,268
Our Creek	6/23	1	27,560	<b>27,559</b>	30,736
Trail Creek	6/23	1	9,547	<b>9,546</b>	29,501
Carlson Lake	6/25	1	6,886	<b>6,885</b>	46,545
Titna	6/25	1	18,694	<b>18,693</b>	30,678
Bridge	6/25	1	1,475	<b>1,474</b>	967
Browns	6/25	1	17,133	<b>17,132</b>	20,730
Deep Creek	6/27	600	2,742	<b>2,142</b>	11,590
Lawson	6/29	10	12,810	<b>12,800</b>	31,090
	<b>July</b>	Initial	29-Jul-15		
Munsatli 2	7/4	1,500	91,442	<b>89,942</b>	100,524
Bear Island Lake	7/11	1	2,108	<b>2,107</b>	2,363
	<b>Total Acres</b>	<b>6,072</b>	<b>979,302</b>	<b>931,016</b>	

	24-HR PM2.5	24-HR PM2.5	24-HR PM2.5	24-HR PM2.5	AQS Flag
	NCORE FRM (1)	NCORE FRM (2)	SOB FRM	NPF FRM	
2-Jun	1.4		1.2	6.4	
5-Jun	2.0	7.9	2.3	4.9	
8-Jun	1.3		1.9	3.9	
11-Jun	1.6	2.5	1.5	2.9	
14-Jun	4.8		4.6	7.5	
17-Jun	3.8	9.5	3.0	6.3	
20-Jun	8.0		8.8	15.3	
23-Jun	68.8	76.9	68.3	83.2	
26-Jun	102.4		105.0	95.0	
29-Jun	9.7	9.5	9.6	8.6	
2-Jul	45.2		44.3	45.4	
5-Jul	13.5		14.0	15.1	
8-Jul	60.0		57.1	54.3	
11-Jul	5.0	5.3	0.7	5.7	
14-Jul	14.7		14.3	14.9	
17-Jul	1.3	1.6	1.6	1.0	
20-Jul	4.2		4.6	22.1	
23-Jul	3.7	3.4	3.5		
26-Jul	15.2		14.6	9.6	
29-Jul	15.0	14.5	14.6	11.7	
1-Aug	10.1		10.3	7.6	
4-Aug		5.5	5.3	5.6	
7-Aug	9.3			11.5	
10-Aug	2.1	2.5	1.6	1.7	
13-Aug	2.3		2.6	2.3	
16-Aug		2.4	2.7	3.6	
19-Aug	1.0		0.8	0.5	
22-Aug	1.5	2.3	0.6	1.8	
25-Aug	2.1		1.3	1.9	
28-Aug	1.2	1.6	1.2	1.6	
31-Aug		1.6	4.7	1.2	

Average 14.70 10.59 13.55 15.12



Date Jun 1-Aug 31	NCORE BAM	NPF BAM
1-Jun	4	4.4
2-Jun	1	5.6
3-Jun	15	7.1
4-Jun	11	6.5
5-Jun	15	6.9
6-Jun	11	7
7-Jun	41	4.2
8-Jun	13	5.4
9-Jun	18	4.4
10-Jun	43	6.8
11-Jun	17	4.6
12-Jun	14	5.5
13-Jun	49	3.3
14-Jun	49	6
15-Jun	N/A	5.4
16-Jun	N/A	4.3
17-Jun	N/A	6.7
18-Jun	N/A	2.2
19-Jun	4	28.3
20-Jun	10.2	11.6
21-Jun	28.3	23.2
22-Jun	78	72.1
23-Jun	76	86.4
24-Jun	184.6	168.2
25-Jun	137.2	96.3
26-Jun	109.5	93.4
27-Jun	18.9	43.9
28-Jun	14.1	1.8
29-Jun	10.5	7.3
30-Jun	7.3	6.1
1-Jul	26.7	23.8
2-Jul	48.5	42.1
3-Jul	38.4	25
4-Jul	17.9	17.3
5-Jul	27.5	40
6-Jul	14.7	14.6
7-Jul	201.2	134.5
8-Jul	43	54.8
9-Jul	13.2	15.1
10-Jul	6.2	5.9
11-Jul	6.6	4.1
12-Jul	8	4.7
13-Jul	3.4	2.8
14-Jul	17.7	13.8
15-Jul	1.2	0
16-Jul	1	1.2
17-Jul	1.9	4.2
18-Jul	1.3	0
19-Jul	1.6	1.7
20-Jul	4.5	3.1
21-Jul	1.7	1
22-Jul	1.6	0.2
23-Jul	2.3	1
24-Jul	11	10.6
25-Jul	13.5	9.4
26-Jul	14.2	7.3
27-Jul	18.8	7.8
28-Jul	22.3	16.6
29-Jul	28.6	10.3
30-Jul	4.1	4.4
31-Jul	14	10.1
1-Aug	10.9	5.8
2-Aug	5.3	3.2
3-Aug	1.9	1.3
4-Aug	1	0.8
5-Aug	1.5	2.6
6-Aug	10.1	5.2
7-Aug	5.5	5.3
8-Aug	27.7	37.4
9-Aug	10.8	5.6
10-Aug	2.4	0.3
11-Aug	2.8	1
12-Aug	1.4	2.3
13-Aug	1.2	0.9
14-Aug	4.6	2.4
15-Aug	1.1	1.6
16-Aug	1.5	1.8
17-Aug	1.4	4.8
18-Aug	1.4	1.7
19-Aug	1.7	0
20-Aug	1.8	4.1
21-Aug	1.1	N/A
22-Aug	2.5	N/A
23-Aug	2	N/A
24-Aug	1.6	1.7
25-Aug	1.7	4.4
26-Aug	N/A	2.8
27-Aug	N/A	4.8
28-Aug	N/A	4.4
29-Aug	N/A	0.6
30-Aug	N/A	4.1
31-Aug	1.3	0.7



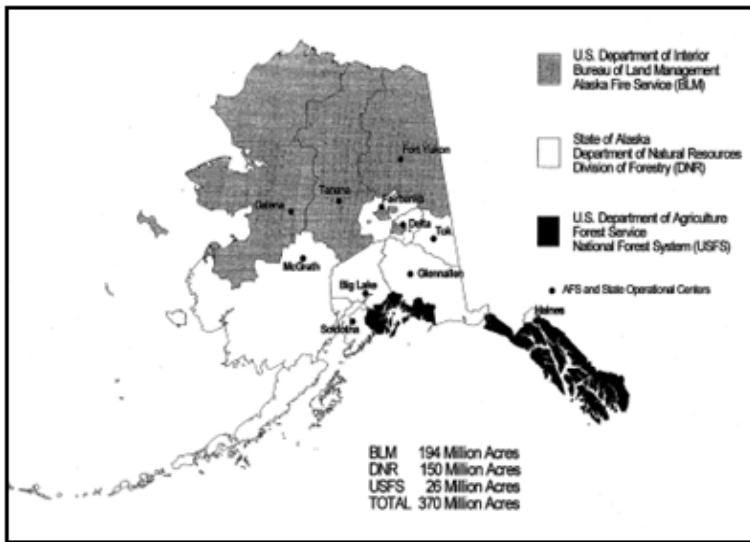


Figure 5. Alaska Wild land Fire Protection Areas

<b>Alaska Fire Service Protection Fires and Acres Burned by Zone and Management</b>										
<b>Option</b>	<b>Critical</b>		<b>Full</b>		<b>Modified</b>		<b>Limited</b>		<b>Totals</b>	
<b>Zone</b>	<b>Fires</b>	<b>Acres</b>	<b>Fires</b>	<b>Acres</b>	<b>Fires</b>	<b>Acres</b>	<b>Fires</b>	<b>Acres</b>	<b>Fires</b>	<b>Acres</b>
Galena	1	42,403	19	115,806	10	202,389	64	873,172	94	1,223,770
Military	2	0	12	72	1	0	22	40,943	37	41,015
Tanana	0	-	14	562,160	5	111,681	75	1,873,732	94	2,547,573
Upper Yukon	0	-	9	3,114	6	64,065	21	175,578	36	242,757
<b>Totals</b>	<b>3</b>	<b>42,403</b>	<b>54</b>	<b>681,152</b>	<b>22</b>	<b>378,135</b>	<b>182</b>	<b>2,963,425</b>	<b>261</b>	<b>4,055,115</b>

Figure 6. Alaska Fire Service Protection Fires and Acres Burned by Zone and Management Option for 2015.

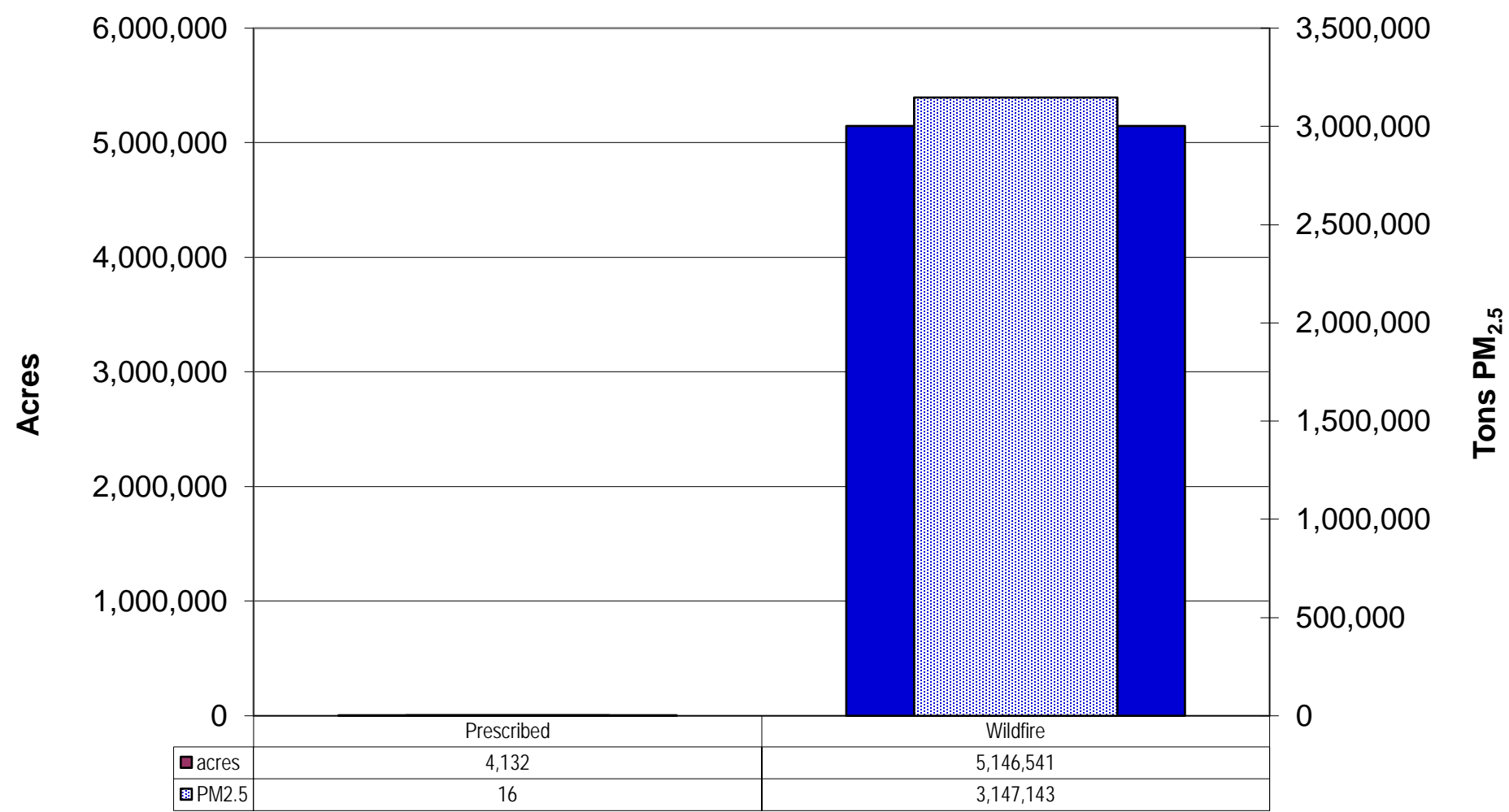
<b>Landowner Agency</b>	<b>Fires</b>	<b>Acres</b>
Bureau of Indian Affairs	1%	0%
Bureau of Land Management	10%	32%
Department of Defense	50%	0%
Native Claims Act Land	15%	11%
National Park Service	3%	2%
Private	23%	0%
State of Alaska	32%	25%
US Forest Service	2%	0%
US Fish and Wildlife Service	10%	29%

Figure 7. Landowner percentage of activity for 2015

Total Acres and PM2.5 by Source Type

	Prescribed acres	Prescribed PM2.5	WFU acres	WFU PM2.5	Wildfire acres	Wildfire PM2.5
Total	4,132	16	0	0	5,146,541	3,147,143

**2015 Alaska Fire Emission Inventory**  
Total Acres and Tons PM<sub>2.5</sub>

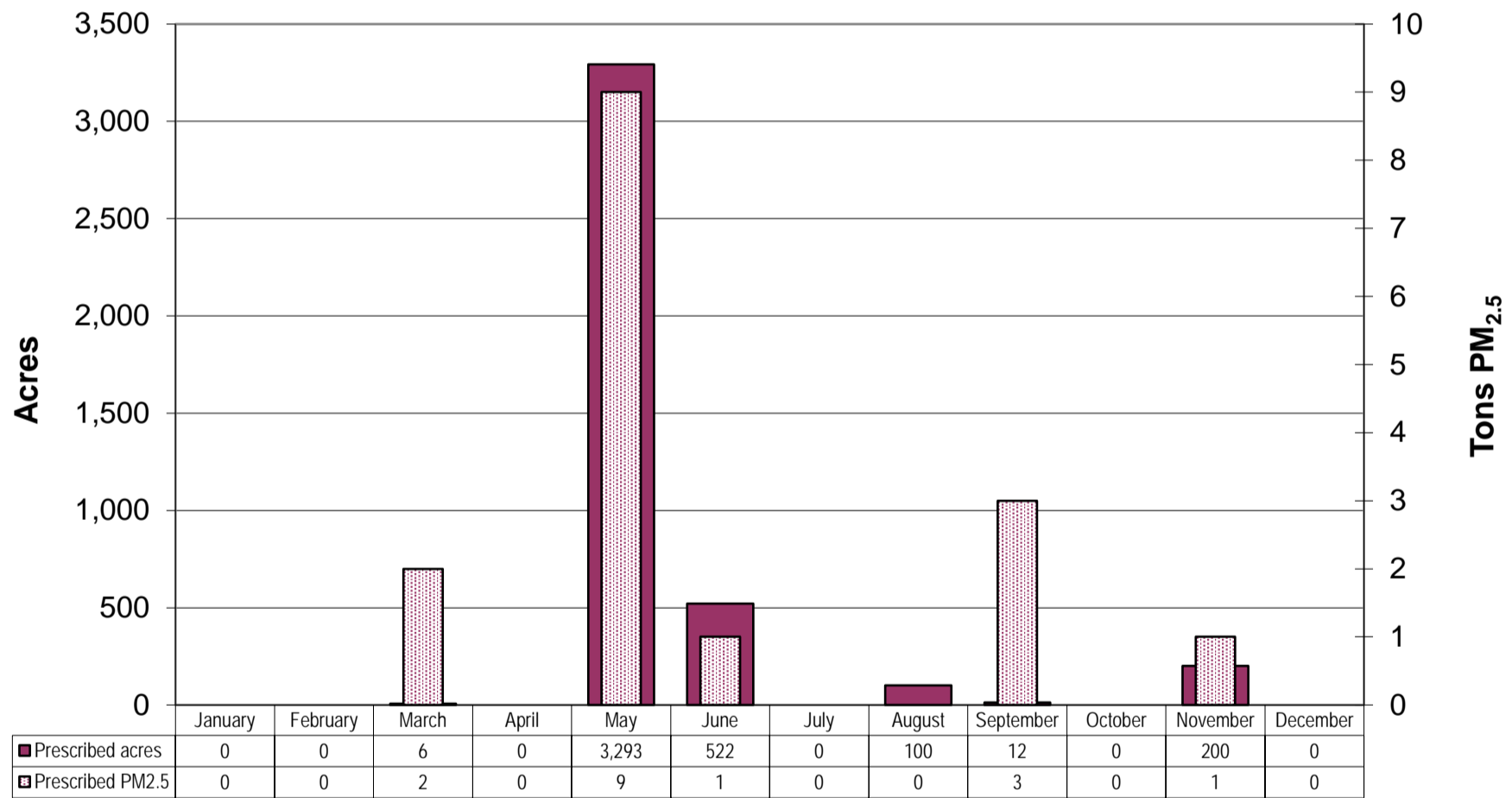




**Temporal Distribution of Acres and PM2.5 by Source Type**

Month	Month	Prescribed acres	Prescribed PM2.5	WFU acres	WFU PM2.5	Wildfire acres	Wildfire PM2.5
January	1	#VALUE!	#VALUE!	0	0	#VALUE!	#VALUE!
February	2	#VALUE!	#VALUE!	0	0	#VALUE!	#VALUE!
March	3	6	2	0	0	#VALUE!	#VALUE!
April	4	#VALUE!	#VALUE!	0	0	#VALUE!	#VALUE!
May	5	3,293	9	0	0	#VALUE!	#VALUE!
June	6	522	1	0	0	#VALUE!	#VALUE!
July	7	#VALUE!	#VALUE!	0	0	#VALUE!	#VALUE!
August	8	100	0	0	0	#VALUE!	#VALUE!
September	9	12	3	0	0	#VALUE!	#VALUE!
October	10	#VALUE!	#VALUE!	0	0	#VALUE!	#VALUE!
November	11	200	1	0	0	#VALUE!	#VALUE!
December	12	#VALUE!	#VALUE!	0	0	#VALUE!	#VALUE!

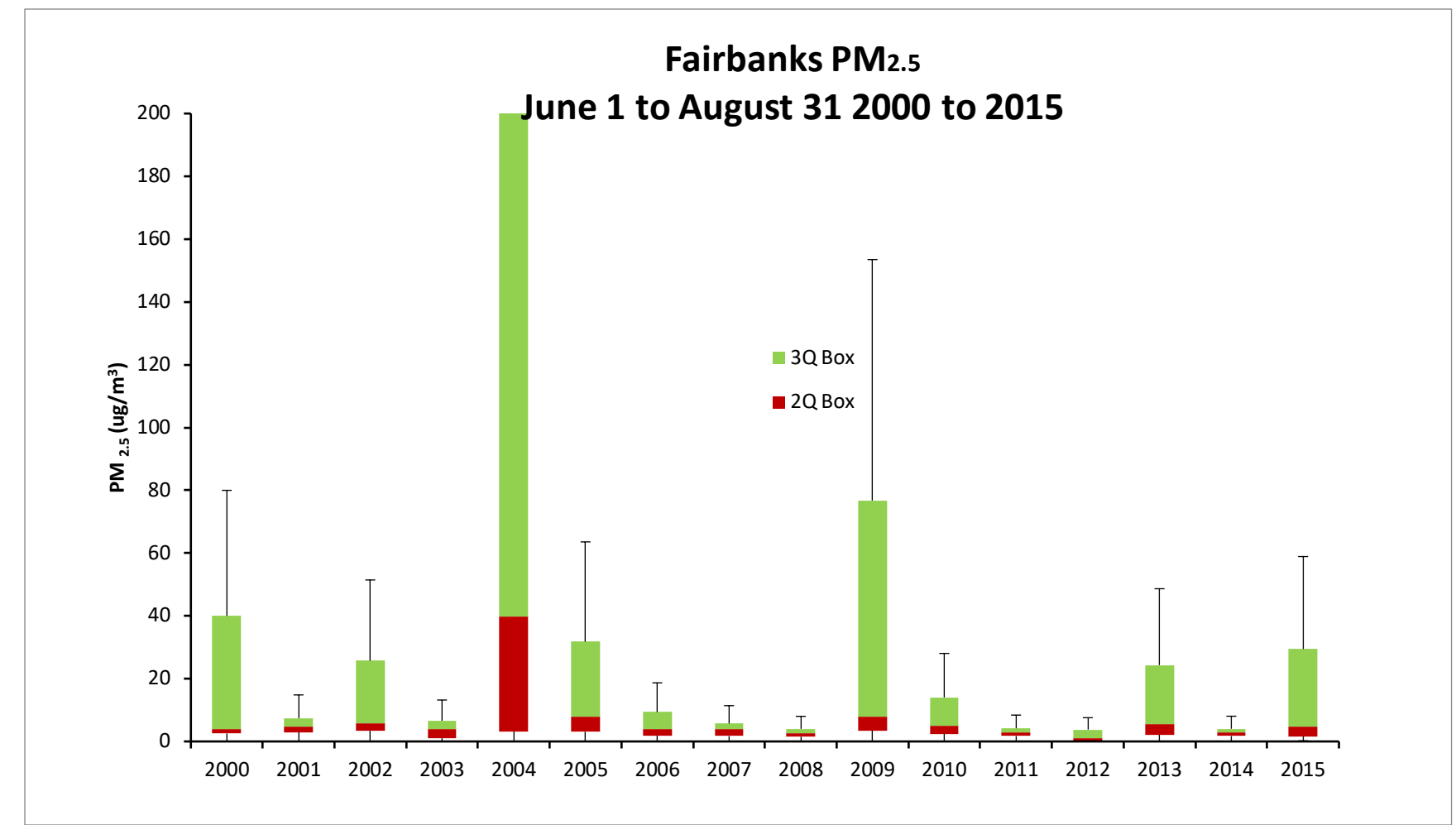
**2015 Alaska Fire Emission Inventory  
Prescribed Burning Acres and Tons PM<sub>2.5</sub>**



	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Count	30.00	30.00	28.00	21.00	27.00	12.00	15.00	29.00	31.00	30.00	28.00	31.00	29.00	30.00	29.00	34.00
Mean	11.40	5.78	11.35	4.02	128.93	13.92	5.34	4.13	2.87	25.04	7.74	3.49	1.96	10.04	2.87	12.87
SD	19.92	5.30	16.74	2.11	161.20	11.90	6.65	2.25	1.48	39.29	8.87	3.62	2.98	12.53	0.87	22.50
Min	1.60	2.20	1.00	0.30	2.80	2.40	1.20	1.40	1.00	3.10	1.30	1.00	0.00	1.20	1.40	1.20
Q1	2.50	2.99	3.38	1.00	3.16	3.07	1.82	1.70	1.50	3.49	2.42	1.70	0.00	2.13	1.70	1.60
Median	3.85	4.65	5.80	3.90	39.70	7.85	3.80	4.00	2.70	7.85	5.00	3.00	0.90	5.40	2.90	4.60
Q3	39.99	7.41	25.72	6.60	378.88	31.78	9.34	5.70	4.00	76.74	14.02	4.20	3.78	24.32	4.02	29.45
Max	90.70	32.20	83.40	7.50	505.60	33.50	27.40	12.40	8.10	159.50	44.50	22.40	14.80	58.70	4.80	105.00
Bottom	2.50	2.99	3.38	1.00	3.16	3.07	1.82	1.70	1.50	3.49	2.42	1.70	0.00	2.13	1.70	1.60
2Q Box	1.35	1.66	2.42	2.90	36.54	4.78	1.98	2.30	1.20	4.36	2.58	1.30	0.90	3.27	1.20	3.00
3Q Box	36.14	2.76	19.92	2.70	339.18	23.93	5.54	1.70	1.30	68.89	9.02	1.20	2.88	18.92	1.12	24.85
Whisker-	0.90	0.79	2.38	0.70	0.36	0.67	0.62	0.30	0.50	0.39	1.12	0.70	0.00	0.93	0.30	0.40
Whisker+	50.71	24.79	57.68	0.90	126.72	1.72	18.06	6.70	4.10	82.76	30.48	18.20	11.02	34.38	0.78	75.55
Offset																
Whisker- 1I	2.50	2.99	3.38	1.00	3.16	3.07	1.82	1.70	1.50	3.49	2.42	1.70	0.00	2.13	1.70	1.60
Whisker+ 1	39.99	7.41	25.72	6.60	378.88	31.78	9.34	5.70	4.00	76.74	14.02	4.20	3.78	24.32	4.02	35.39

90.7	32.2	83.4	7.5	505.6	33.5	27.4	12.4	8.1	159.5	44.5	22.4	14.8	58.7	4.8	105.0	
53.3	11.5	42.3	7	468.6	32.1	12.5	8.8	6.4	127.7	23.4	4.5	6.3	34.4	4.4	68.3	
45.3	7.5	28.8	6.6	379	28.9	4.6	5.7	5.1	89.7	21.3	4.3	4.1	32.6	4.1	57.1	
39.4	7.4	24.4	6.2	378.8	20.6	4.2	5.7	4	75.3	10.9	4.2	3.7	23.4	4	44.3	
17	6.5	13.8	6.1	336.1	16	4.1	5.6	3.8	61	10.1	4	3.6	20.6	3.7	14.6	
10.8	6	10	6.1	327.4	8.7	4	5.3	3.6	44.1	9.8	3.7	3.5	12.1	3.7	14.6	
6.6	5.7	9.1	5.2	212.8	7	4	5.2	3.2	25.6	9.2	3.7	3.3	11.9	3.6	14.3	
5	5.5	9	4.8	182.3	5.3	3.8	4.7	3.1	19.5	8	3.6	3	9.6	3.3	14.0	
4.7	5.5	9	4.6	155.1	5	3	4.7	3.1	19.3	5.7	3.5	2.5	8.2	3.2	10.3	
4.4	5.4	7.8	4.4	149.5	4.6	2.9	4.5	3.1	17.7	5.7	3.5	2.3	8.1	3.2	9.6	
4.3	5.4	7.5	3.9	73.2	2.9	2.7	4.5	3.1	10.3	5.6	3.2	2.2	7.5	3.1	8.8	
4.3	5.2	7.3	3.5	73.2	2.4	2	4.3	3	9.9	5.2	3.2	2	7.1	3.1	8.0	
4.2	5.1	7	3.4	44.5	2	2	4.2	2.9	8.5	5.1	3.2	1.7	6.5	3	5.3	
4.1	5.1	6.4	3	39.7	1.7	1.7	4.1	2.7	8.4	5	3.1	1.5	5.6	2.9	5.2	
3.9	4.8	5.2	2.9	26.6	1.2	1.2	4	2.7	8	5	3	0.9	5.4	2.9	5.0	
3.8	4.5	4.6	2.7	22	3.8	2.7	7.7	4.9	3	0.2	0.2	5.4	2.7	4.7	4.7	
3.7	4.4	4.6	2.6	22	3.5	2.5	6.6	4.8	2.9	0.2	0.2	5.4	2.7	4.6	4.6	
3.6	4.4	4.5	2.1	19.6	3.3	2.4	5.1	4.8	2.8	0.2	0.2	4.5	2.6	4.6	4.6	
3.5	4.3	4.4	1	15.5	3.2	2.4	5	4	2.7	0.2	0.2	4.3	2.6	4.0	4.0	
3.5	4.3	4.2	0.5	15.5	3	2.4	4.7	3.6	2.6	0.2	0.2	4.2	2.4	3.6	3.6	
3.4	3.9	4	0.3	12.2	3	2.3	4.4	3.2	2.6	0.1	0.1	4.1	2.3	3.5	3.5	
3	3.8	3.8		5.1	2.8	2.1	4.1	3.2	2.5	0.1	0.1	3.5	2.2	3.4	3.4	
2.9	3.8	3.8		4.7	2.7	2.1	4.1	3.1	2.2	0.1	0.1	3.4	2.2	3.2	3.2	
2.8	3.7	3.6		3.2	2.4	2.1	4.1	2.7	2.2	0.1	0.1	3.2	2.2	3.0	3.0	
2.8	3.5	3.5		3.1	1.9	2.1	3.9	2.6	2.1	0.1	0.1	2.7	1.9	2.7	2.7	
2.6	3.3	3.1		3	1.7	1.8	3.7	2	2.1	0	0	2.5	1.7	2.6	2.6	
2.5	3	1.8		2.8	1.7	1.6	3.5	2	1.7	0	0	2.2	1.7	2.3	2.3	
2.5	2.9	1			1.7	1.5	3.4	1.3	1.7	0	0	1.5	1.5	1.9	1.9	
1.8	2.7				1.4	1.1	3.2		1.6	0	0	1.3	1.4	1.9	1.9	
1.6	2.2					1	3.1		1.4			1.2		1.6	1.6	
																1.5
																1.3
																1.2

0.8  
0.7  
0.6



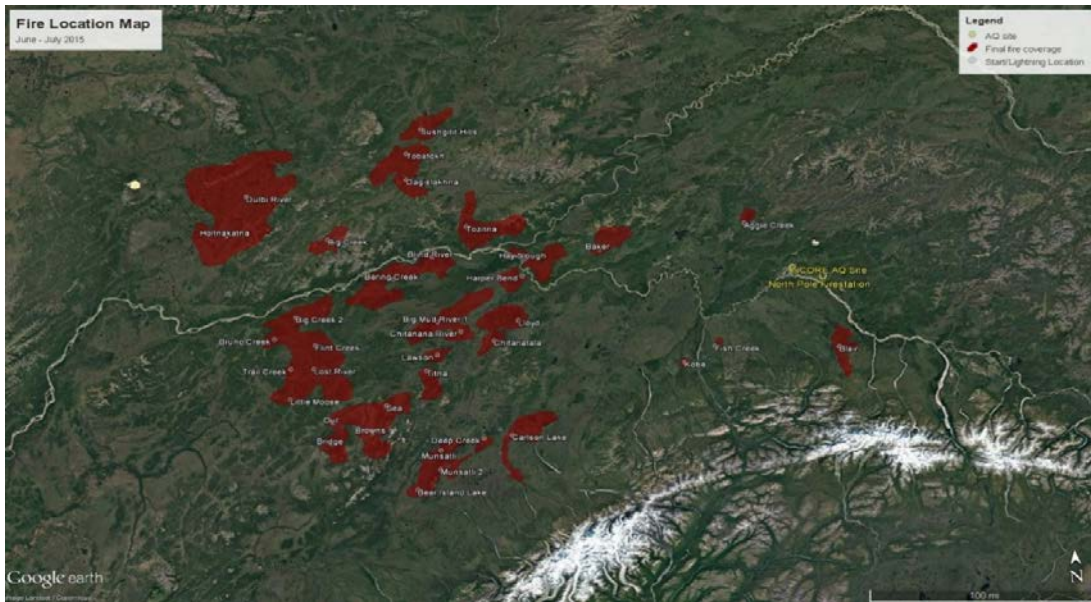
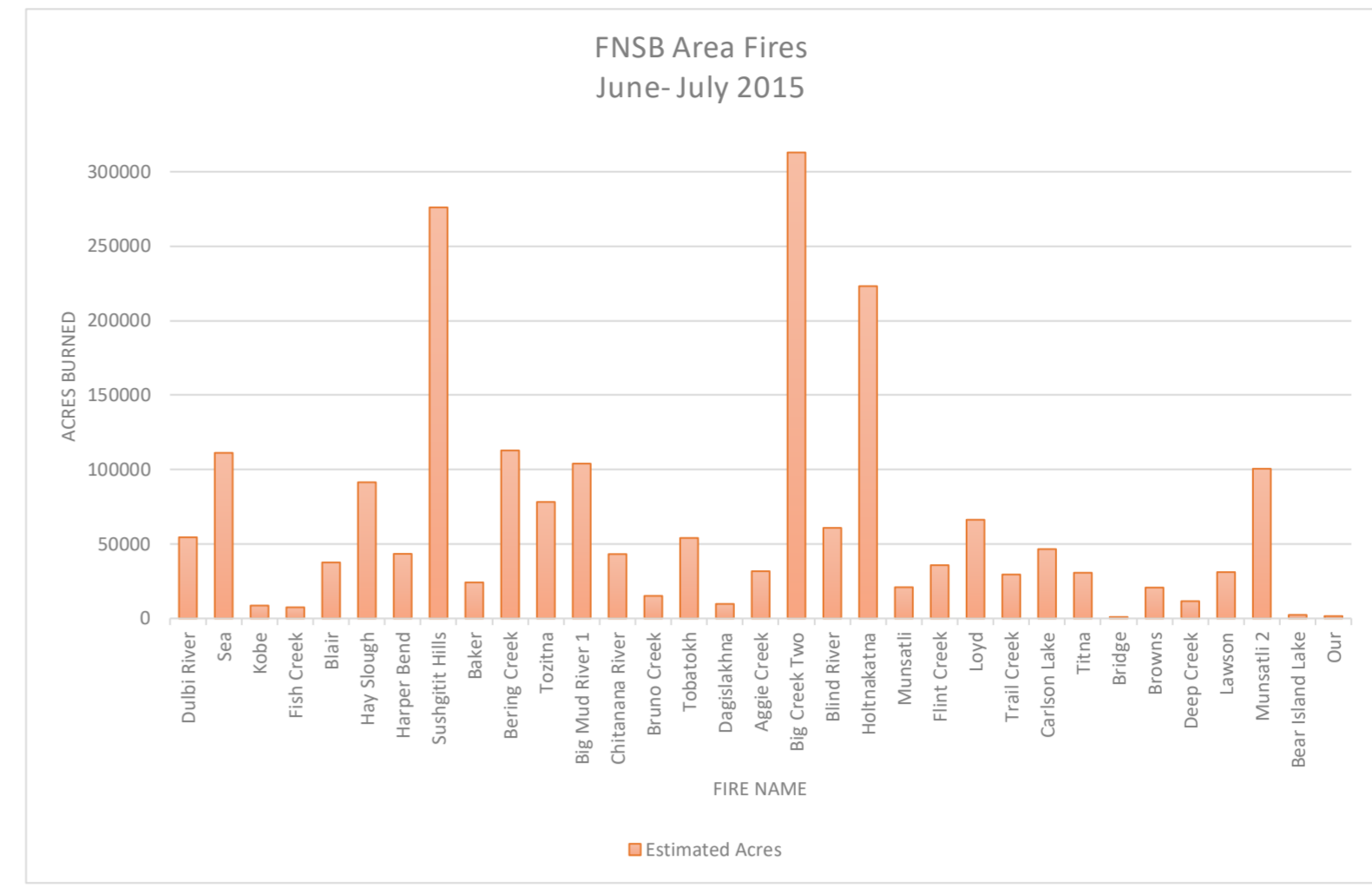


Figure 11. Wild land fires that impacted FNSB in the summer of 2015. [http://afsmaps.blm.gov/imf\\_firehistory/imf.jsp?site=firehistory](http://afsmaps.blm.gov/imf_firehistory/imf.jsp?site=firehistory)

Fire Name	Estimated Acres	Discovery Time	Specific Cause
Dulbi River	54503	6/19/2015	Lightning
Sea	111193.8	6/19/2015	Lightning
Kobe	8642	6/20/2015	Lightning
Fish Creek	7464	6/20/2015	Lightning
Blair	37597.3	6/20/2015	Lightning
Hay Slough	91444.2	6/21/2015	Lightning
Harper Bend	43378	6/21/2015	Lightning
Sushgitt Hills	276038.2	6/21/2015	Lightning
Baker	24179.1	6/21/2015	Lightning
Bering Creek	112806.8	6/21/2015	Lightning
Tozitna	78212.5	6/21/2015	Lightning
Big Mud River 1	103967.5	6/21/2015	Lightning
Chitanana River	43199.8	6/21/2015	Lightning
Bruno Creek	15131.6	6/21/2015	Lightning
Tobatokh	54036	6/22/2015	Lightning
Dagislakhna	9751.2	6/22/2015	Lightning
Aggie Creek	31705	6/22/2015	Lightning
Big Creek Two	312918.2	6/22/2015	Lightning
Blind River	60806.6	6/22/2015	Lightning
Holtnakatna	223154.1	6/22/2015	Lightning
Munsatli	20942.8	6/22/2015	Lightning
Flint Creek	35748.9	6/23/2015	Lightning
Loyd	66267.9	6/23/2015	Lightning
Trail Creek	29501.4	6/23/2015	Lightning
Carlson Lake	46545.3	6/25/2015	Lightning
Titna	30678.1	6/25/2015	Lightning
Bridge	966.5	6/25/2015	Lightning
Browns	20729.9	6/25/2015	Lightning
Deep Creek	11589.7	6/27/2015	Lightning
Lawson	31089.9	6/29/2015	Lightning
Munsatli 2	100524	7/4/2015	Lightning
Bear Island Lake	2363	7/11/2015	Lightning
Our	1563.9	7/12/2015	Lightning





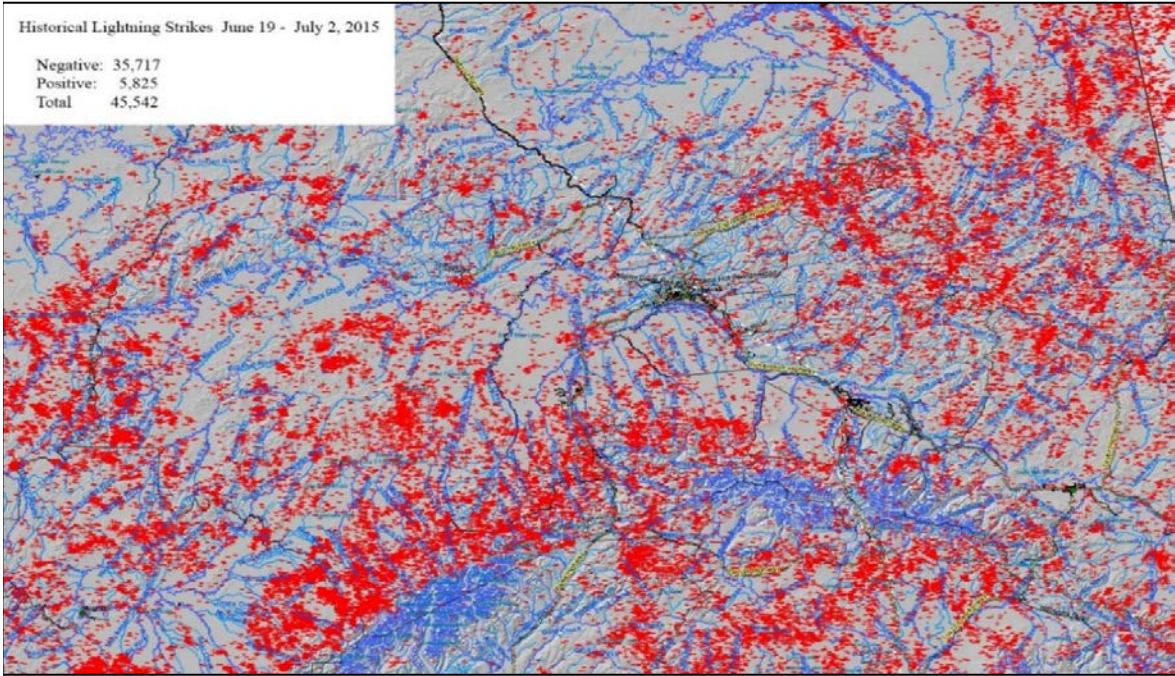


Figure 13. June 19 through July 2, lightning strikes for the interior of Alaska.

	2012	2013	2014	2015	2016
Count	29.00	30.00	29.00	30.00	26.00
Mean	4.65	0.00	0.00	15.12	2.84
SD	3.64	0.00	0.00	23.54	1.50
Min	0.40	0.00	0.00	0.50	0.90
Q1	1.50	0.00	0.00	1.56	1.10
Median	3.60	0.00	0.00	6.30	2.55
Q3	9.74	0.00	0.00	46.31	4.30
Max	14.40	0.00	0.00	95.00	7.30
Bottom	1.50	0.00	0.00	1.56	1.10
2Q Box	2.10	0.00	0.00	4.74	1.45
3Q Box	6.14	0.00	0.00	40.01	1.75
Whisker-	1.10	0.00	0.00	1.06	0.20
Whisker+	4.66	0.00	0.00	48.69	3.00
Offset					
Whisker- 10%	1.50	0.00	0.00	1.56	1.10
Whisker+ 10%	9.74	0.00	0.00	46.31	4.30

14.4	0	0	95	7.3
13.2	0	0	83.2	5.4
11.9	0	0	54.5	4.6
9.2	0	0	45.4	4
7.7	0	0	22.1	4
7.6	0	0	15.4	3.9
6.3	0	0	15.3	3.7
5.8	0	0	14.9	3.6
5.2	0	0	11.7	3.5
5	0	0	11.5	3.2
4.5	0	0	9.6	3.2
4.2	0	0	8.6	2.7
3.9	0	0	7.6	2.6
3.8	0	0	7.5	2.5
3.6	0	0	6.4	2.3
3.1	0	0	6.2	2.3
2.9	0	0	5.7	2.1
2.7	0	0	5.6	2.1
2.7	0	0	4.9	2.1
2.5	0	0	3.9	1.8
2.5	0	0	3.6	1.6
2.5	0	0	2.9	1.4
2.2	0	0	2.5	1.2
1.7	0	0	1.9	1
1.7	0	0	1.8	0.9
1.6	0	0	1.7	0.9
1.1	0	0	1.6	
1	0	0	1.2	
0.4	0	0	1	
	0		0.5	

