



Public Perceptions of Smoke and Smoke Communication: A General Population Survey

FREQUENCY REPORT
October 2012

A Joint Fire Science Project
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This frequency report displays data from a mail-back/internet questionnaire in 4 different sites, which followed interviews conducted in each location the year prior. Sites were selected to be geographically, ecologically, and socially diverse, and are all areas that are impacted by smoke from frequent wildfires, prescribed fires, or other origins. This data will be used in later phases of the study to inform future research efforts.

In 2012 a combined total of 4100 individuals were contacted. Of these, 964 completed the survey for a 23.5% response rate. This frequency report provides an initial look at the responses both overall and on a state-by-state basis. Unless otherwise noted, the numbers represent the percent of respondents.

***Analysis of research findings is still in progress.
Do not cite without permission of the principal investigators.***

Oregon State
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Frequency Report—October 2012

Research Sites

Northern California- communities near Shasta-Trinity National Forest

Southern Oregon- communities near Fremont-Winema National Forest

Northwestern Montana- communities near Kootenai National Forest

South Carolina- communities near Francis-Marion National Forest

Samples and response rates

	COMPLETED SURVEYS	RESPONSE RATE
Total	964	23.5%
CA	198	22.6%
OR	259	24.4%
SC	146	13.8%
MT	340	33.4%

SECTION 1: MANAGEMENT ACTIVITIES

1) How likely do you think it is that a wildfire might occur in the forests near your home in the NEXT 5 YEARS

	VERY UNLIKELY 1	SOMEWHAT UNLIKELY 2	SOMEWHAT LIKELY 3	VERY LIKELY 4	DON'T KNOW	MEAN
Total	8	13	35	38	6	3.1
CA	9	5	32	49	4	3.3
OR	9	16	33	35	8	3.0
SC	8	24	41	16	11	2.7
MT	7	11	38	40	3	3.2

2)

Have you heard or read about...	YES				
	TOTAL	CA	OR	SC	MT
2a)...the use of prescribed fire?	93	94	93	88	97
2b) ...the potential impacts of smoke from wildfires?	82	81	83	77	83
2c) ...managing or using naturally-ignited fire to improve forest health?	90	90	90	84	93
2d) ...the need to reduce forest fuels near your community?	82	87	80	61	89

3a) Using prescribed fire ON PUBLIC LANDS is acceptable around neighborhoods

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	20	11	10	16	14	12	18	4.0
CA	23	8	8	15	16	10	20	4.0
OR	18	12	11	15	14	13	17	4.0
SC	16	10	10	27	10	12	16	4.0
MT	20	12	9	13	16	12	18	4.0

3b) Using prescribed fire ON PUBLIC LANDS is acceptable in remote forest areas

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	6	3	3	11	14	21	43	5.6
CA	5	2	4	12	15	22	40	5.7
OR	6	2	3	7	13	21	48	5.7
SC	1	2	3	15	12	24	42	5.7
MT	8	4	3	11	14	20	40	5.4

3c) Using prescribed fire ON PRIVATE LANDS is acceptable around neighborhoods

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	21	10	11	17	12	12	16	3.9
CA	25	9	10	17	11	10	17	3.8
OR	18	10	12	16	15	13	16	4.0
SC	20	9	11	22	12	12	14	3.9
MT	21	11	10	16	11	13	18	3.9

3d) Using prescribed fire ON PRIVATE LANDS is acceptable in remote forest areas

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	7	4	5	15	13	18	38	5.3
CA	6	4	7	15	15	17	36	5.2
OR	7	3	3	11	13	18	43	5.5
SC	3	3	5	18	12	23	36	5.5
MT	10	6	5	15	13	15	36	5.0

4a) Prescribed fires reduces the amount of excess forest fuels

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	3	2	2	5	13	25	47	3	5.9
CA	3	2	2	5	18	24	43	2	5.8
OR	3	2	2	5	11	23	51	3	6.1
SC	1	3	0	6	12	22	48	9	6.1
MT	6	2	3	5	10	28	45	1	5.8

4b) Prescribed fire restores the forest to a more natural condition

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	5	3	4	10	16	25	32	4	5.4
CA	6	3	3	9	19	23	32	4	5.4
OR	4	4	4	9	16	24	34	4	5.5
SC	1	1	3	14	13	29	31	10	5.7
MT	8	3	5	11	15	24	32	3	5.3

4c) Prescribed fire improves wildlife habitat

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	6	4	4	12	12	20	34	7	5.3
CA	6	4	4	13	14	20	32	6	5.3
OR	5	5	4	14	12	16	35	8	5.3
SC	1	6	4	14	13	19	29	14	5.3
MT	7	4	5	9	11	24	37	2	5.4

4d) Prescribed fire reduces the risk of large wildfires near my community in the future

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	4	3	3	7	14	23	46	2	5.8
CA	2	4	2	6	17	24	42	3	5.8
OR	5	3	3	4	14	21	48	2	5.8
SC	0	3	1	8	10	20	52	5	6.1
MT	6	2	3	8	12	25	43	1	5.7

4e) Prescribed fire saves money by reducing the cost of fighting a wildfire

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	6	3	3	11	12	19	38	6	5.5
CA	7	3	4	11	13	21	35	6	5.4
OR	5	3	3	12	14	14	43	7	5.6
SC	2	1	1	13	10	21	42	10	5.9
MT	8	3	4	11	12	22	36	4	5.4

4f) Prescribed fire reduces scenic quality

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	13	11	12	24	15	11	11	4	4.0
CA	12	8	11	26	17	13	10	4	4.1
OR	12	13	15	21	12	11	12	4	3.9
SC	8	8	10	27	17	9	12	10	4.2
MT	17	12	12	24	14	11	10	1	3.8

4g) Prescribed fire creates more smoke in the short-term, but less smoke over time

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	5	3	3	18	14	22	26	10	5.2
CA	6	2	3	17	15	23	25	8	5.2
OR	4	3	2	22	12	20	29	9	5.3
SC	2	1	3	16	14	20	25	19	5.5
MT	6	4	5	16	16	23	24	7	5.1

SECTION 2: IMPACTS OF PRESCRIBED FIRE AND SMOKE

5) Prescribed fire near my community would result in...

Prescribed fire near my community would result in negative impacts to the scenery

5.1a) Likelihood

	VERY UNLIKELY			NEUTRAL		VERY LIKELY	
	1	2	3	4	5	6	7
Total	14	12	10	22	18	11	12
CA	12	12	8	24	19	13	12
OR	12	12	11	21	21	9	12
SC	12	12	7	27	19	11	12
MT	18	12	13	20	14	12	13

5.2a) Severity of impact

	NO IMPACT			MODERATE		VERY SEVERE	
	1	2	3	4	5	6	7
Total	12	20	15	29	14	5	5
CA	10	19	17	28	17	5	4
OR	8	21	15	34	10	5	7
SC	16	14	12	31	16	4	7
MT	16	21	15	27	13	4	6

Prescribed fire near my community would result in reduced tourism and recreation visits

5.1b) Likelihood

	VERY UNLIKELY			NEUTRAL		VERY LIKELY	
	1	2	3	4	5	6	7
Total	23	18	11	19	12	8	8
CA	17	21	12	21	12	10	7
OR	19	18	11	22	15	8	7
SC	24	16	11	20	13	8	8
MT	31	17	10	14	10	7	10

5.2b) Severity of impact

	No IMPACT	MODERATE			VERY SEVERE		
	1	2	3	4	5	6	7
Total	24	24	12	21	9	6	5
CA	20	28	14	19	10	5	3
OR	8	21	15	34	10	5	7
SC	27	22	11	21	7	7	5
MT	29	22	11	18	7	5	7

Prescribed fire near my community would result in reduced opportunities for me to participate in recreation activities

5.1c) Likelihood

	VERY UNLIKELY			NEUTRAL		VERY LIKELY	
	1	2	3	4	5	6	7
Total	32	18	10	17	9	6	7
CA	29	21	10	19	8	6	6
OR	33	17	11	19	7	6	7
SC	29	16	10	19	13	7	6
MT	35	18	10	14	9	5	9

5.2c) Severity of impact

	No IMPACT	MODERATE				VERY SEVERE	
	1	2	3	4	5	6	7
Total	34	22	11	17	7	4	5
CA	33	24	12	20	5	3	4
OR	31	22	11	19	8	5	4
SC	37	18	12	16	7	5	4
MT	35	22	10	14	7	4	7

Prescribed fire near my community would result in loss of wildlife habitat

5.1d) Likelihood

	VERY UNLIKELY			NEUTRAL		VERY LIKELY	
	1	2	3	4	5	6	7
Total	22	17	12	19	10	9	11
CA	18	15	12	23	12	8	12
OR	19	18	15	19	11	7	13
SC	12	12	13	19	15	15	14
MT	32	19	10	16	7	8	7

5.2d) Severity of impact

	No IMPACT	MODERATE				VERY SEVERE	
	1	2	3	4	5	6	7
Total	21	20	16	22	9	5	8
CA	20	21	14	23	11	4	8
OR	17	20	17	24	7	7	7
SC	12	17	18	23	12	7	12
MT	29	20	14	19	8	4	6

Prescribed fire near my community would result in damage to private property

5.1e) Likelihood

	VERY UNLIKELY			NEUTRAL		VERY LIKELY	
	1	2	3	4	5	6	7
Total	17	17	15	20	14	9	8
CA	14	14	17	19	17	10	10
OR	14	18	12	23	16	8	9
SC	24	17	10	21	10	10	8
MT	18	20	17	17	12	10	6

5.2e) Severity of impact

	No IMPACT	MODERATE			VERY SEVERE		
	1	2	3	4	5	6	7
Total	15	20	15	22	11	9	9
CA	14	19	16	19	13	10	8
OR	14	19	12	28	12	8	8
SC	22	23	15	15	9	7	9
MT	13	20	17	23	10	8	9

Prescribed fire near my community would result in risk of fire going out of control

5.1f) Likelihood

	VERY UNLIKELY			NEUTRAL		VERY LIKELY	
	1	2	3	4	5	6	7
Total	6	10	14	19	20	15	15
CA	3	8	13	17	24	16	19
OR	5	8	15	22	22	15	12
SC	14	10	15	22	13	15	10
MT	6	13	14	15	19	15	18

5.2f) Severity of impact

	No IMPACT	MODERATE				VERY SEVERE	
	1	2	3	4	5	6	7
Total	6	12	12	19	16	14	21
CA	4	11	10	17	18	14	26
OR	4	11	10	23	16	17	19
SC	14	16	12	16	16	10	16
MT	5	12	16	20	15	13	20

Prescribed fire near my community would result in increased soil erosion

5.1g) Likelihood

	VERY UNLIKELY			NEUTRAL		VERY LIKELY	
	1	2	3	4	5	6	7
Total	13	13	11	22	19	12	9
CA	10	8	14	21	23	13	10
OR	10	15	11	26	18	11	9
SC	22	15	10	22	16	10	4
MT	15	15	9	20	19	12	10

5.2g) Severity of impact

	No IMPACT	MODERATE				VERY SEVERE	
	1	2	3	4	5	6	7
Total	13	17	14	26	15	8	7
CA	11	14	15	27	18	10	6
OR	9	18	16	29	13	8	7
SC	24	15	12	23	13	6	7
MT	13	19	14	25	15	8	8

Prescribed fire near my community would result in economic loss of useable timber

5.1h) Likelihood

	VERY UNLIKELY			NEUTRAL		VERY LIKELY	
	1	2	3	4	5	6	7
Total	17	15	11	19	12	11	15
CA	17	15	12	21	12	12	12
OR	17	16	12	20	13	8	15
SC	16	17	10	27	11	9	9
MT	19	14	9	13	12	13	19

5.2h) Severity of impact

	No IMPACT	MODERATE			VERY SEVERE		
	1	2	3	4	5	6	7
Total	18	19	12	19	12	8	11
CA	19	15	16	22	14	8	5
OR	18	21	14	16	11	9	10
SC	19	21	10	26	10	4	10
MT	17	20	9	17	13	8	16

Prescribed fire near my community would result in contamination of drinking water

5.1i) Likelihood

	VERY UNLIKELY			NEUTRAL		VERY LIKELY	
	1	2	3	4	5	6	7
Total	27	17	12	22	10	6	7
CA	24	20	11	20	12	7	7
OR	30	16	13	25	8	3	5
SC	27	15	10	24	9	7	7
MT	27	18	11	19	10	8	7

5.2i) Severity of impact

	No IMPACT	MODERATE			VERY SEVERE		
	1	2	3	4	5	6	7
Total	28	20	13	19	7	5	7
CA	25	20	12	19	11	6	6
OR	32	20	13	20	5	5	5
SC	28	19	11	19	7	5	10
MT	26	21	15	18	7	5	7

5cont.) In order to compare responses to the above question 5 “ Prescribed fire near my community would likely result in...,” the following tables represent the mean of the responses.

	Negative impacts to the scenery		Reduced tourism and recreation visits		Reduced opportunities for me to participate in recreation activities		Loss of wildlife habitat		Damage to private property	
	Likelihood	Severity	Likelihood	Severity	Likelihood	Severity	Likelihood	Severity	Likelihood	Severity
Total	4.0	3.5	3.4	3.0	3.0	2.7	3.5	3.3	3.6	3.6
CA	4.1	3.5	3.4	3.0	3.0	2.6	3.7	3.3	3.8	3.6
OR	4.1	3.6	3.2	3.1	3.0	2.8	3.6	3.3	3.7	3.6
SC	4.1	3.6	3.4	3.0	3.2	2.7	4.1	3.7	3.4	3.3
MT	3.8	3.3	3.2	3.0	2.9	2.8	3.0	2.9	3.4	3.6

	Risk of fire going out of control		Increased soil erosion		Economic loss of useable timber		Contamination of drinking water	
	Likelihood	Severity	Likelihood	Severity	Likelihood	Severity	Likelihood	Severity
Total	4.4	4.5	3.9	3.6	3.9	3.6	3.1	3.0
CA	4.7	4.8	4.2	3.8	3.8	3.4	3.2	3.1
OR	4.4	4.6	4.0	3.7	3.8	3.5	2.9	2.8
SC	3.9	4.0	3.4	3.3	3.6	3.4	3.2	3.1
MT	4.4	4.4	3.9	3.6	4.0	3.8	3.2	3.0

6. Smoke near my community would result in...

Smoke near my community would result in negative impacts to the scenery

6.1a) Likelihood

	VERY UNLIKELY			NEUTRAL		VERY LIKELY	
	1	2	3	4	5	6	7
Total	15	14	9	18	13	15	14
CA	12	14	10	17	16	15	15
OR	14	16	8	19	14	18	10
SC	17	13	6	17	13	17	17
MT	17	13	10	20	11	13	16

6.2a) Severity of impact

	No IMPACT	MODERATE			VERY SEVERE		
	1	2	3	4	5	6	7
Total	16	17	13	22	14	9	10
CA	14	13	15	22	19	8	8
OR	14	19	14	23	12	10	8
SC	20	16	7	22	16	8	10
MT	17	18	14	22	10	8	12

Smoke near my community would result in reduced tourism and recreation visits

6.1b) Likelihood

	VERY UNLIKELY			NEUTRAL		VERY LIKELY	
	1	2	3	4	5	6	7
Total	20	14	10	16	16	12	12
CA	15	13	12	17	15	14	14
OR	20	15	9	17	16	12	11
SC	29	13	6	13	22	10	8
MT	20	16	9	16	14	12	13

6.2b) Severity of impact

	No IMPACT	MODERATE			VERY SEVERE		
	1	2	3	4	5	6	7
Total	20	17	12	21	13	8	10
CA	14	16	15	20	15	11	10
OR	21	15	13	23	12	8	9
SC	28	16	4	20	20	4	9
MT	19	19	13	20	11	6	12

Smoke near my community would result in reduced opportunities for me to participate in recreation activities

6.1c) Likelihood

	VERY UNLIKELY			NEUTRAL		VERY LIKELY	
	1	2	3	4	5	6	7
Total	25	17	8	15	12	10	14
CA	20	15	11	18	11	12	12
OR	20	15	9	17	16	12	11
SC	22	17	3	18	13	13	13
MT	27	18	8	13	10	9	15

6.2c) Severity of impact

	NO IMPACT		MODERATE			VERY SEVERE	
	1	2	3	4	5	6	7
Total	25	16	11	18	10	8	11
CA	19	17	15	21	11	10	7
OR	30	14	7	19	10	9	11
SC	26	13	8	22	13	7	12
MT	27	19	12	14	8	6	15

Smoke near my community would result in negative impact to my family's health

6.1d) Likelihood

	VERY UNLIKELY			NEUTRAL		VERY LIKELY	
	1	2	3	4	5	6	7
Total	12	13	9	16	15	16	19
CA	11	15	6	18	17	16	17
OR	13	13	7	14	18	13	21
SC	11	11	10	16	13	20	18
MT	12	14	11	16	11	16	20

6.2d) Severity of impact

	No IMPACT		MODERATE			VERY SEVERE	
	1	2	3	4	5	6	7
Total	12	15	12	18	14	12	17
CA	12	13	14	20	16	12	13
OR	13	14	13	16	16	10	19
SC	14	14	8	20	10	20	15
MT	11	19	11	17	12	10	19

Smoke near my community would result in negative impact to my health

6.1e) Likelihood

	VERY UNLIKELY			NEUTRAL		VERY LIKELY	
	1	2	3	4	5	6	7
Total	15	14	9	16	14	14	18
CA	12	13	7	18	15	15	19
OR	17	13	7	15	18	13	17
SC	13	13	11	16	13	18	15
MT	15	16	11	16	10	12	20

6.2e) Severity of impact

	No IMPACT		MODERATE			VERY SEVERE	
	1	2	3	4	5	6	7
Total	15	17	11	18	12	12	16
CA	12	13	13	22	12	14	14
OR	16	15	12	17	13	13	14
SC	14	14	8	20	10	20	15
MT	16	21	11	15	11	7	19

Smoke near my community would result in reduced ability to accomplish activities on my property

6.1f) Likelihood

	VERY UNLIKELY			NEUTRAL		VERY LIKELY	
	1	2	3	4	5	6	7
Total	30	17	8	15	8	11	11
CA	29	16	9	16	9	12	10
OR	32	19	9	12	11	7	11
SC	24	13	9	16	10	16	12
MT	33	17	7	15	4	11	13

6.2f) Severity of impact

	No IMPACT	MODERATE				VERY SEVERE	
	1	2	3	4	5	6	7
Total	31	17	9	16	9	8	9
CA	29	18	10	18	12	7	7
OR	33	18	9	16	9	7	8
SC	16	17	11	17	9	17	15
MT	34	18	9	14	5	8	12

Smoke near my community would result in negative impacts to my ability to work

6.1g) Likelihood

	VERY UNLIKELY			NEUTRAL		VERY LIKELY	
	1	2	3	4	5	6	7
Total	42	15	8	15	6	6	8
CA	39	18	9	17	5	4	8
OR	45	14	8	15	8	4	6
SC	43	11	11	13	9	9	5
MT	41	17	7	13	5	8	10

6.2g) Severity of impact

	No IMPACT	MODERATE				VERY SEVERE	
	1	2	3	4	5	6	7
Total	42	17	9	14	6	6	7
CA	40	20	7	15	9	3	6
OR	44	14	8	18	3	7	6
SC	43	13	13	12	7	6	6
MT	41	18	10	11	5	7	10

Smoke near my community would result in negative impacts to my travel - road closures and/or car accidents

6.1f) Likelihood

	VERY UNLIKELY			NEUTRAL			VERY LIKELY	
	1	2	3	4	5	6	7	
Total	23	23	9	17	12	8	8	
CA	26	25	7	17	10	7	8	
OR	26	20	9	16	13	8	7	
SC	11	18	12	16	16	15	11	
MT	23	25	8	18	12	5	9	

6.2f) Severity of impact

	NO IMPACT		MODERATE			VERY SEVERE	
	1	2	3	4	5	6	7
Total	24	22	11	17	10	8	8
CA	25	23	12	16	10	7	6
OR	28	17	10	16	13	8	8
SC	15	21	9	20	12	14	10
MT	25	24	11	19	7	6	8

6 cont.) In order to compare responses to the above question 5 “Smoke near my community would likely result in...,” the following tables represent the mean of the responses.

	Negative impacts to the scenery		Reduced tourism and recreation visits		Reduced opportunities for me to participate in recreation activities		Negative impact to my family’s health		Negative impact to my health	
	Likeliness	Severity	Likeliness	Severity	Likeliness	Severity	Likeliness	Severity	Likeliness	Severity
Total	4.0	3.7	3.8	3.5	3.6	3.4	4.3	4.1	4.1	3.9
CA	4.2	3.8	4.0	3.8	3.7	3.5	4.3	4.0	4.3	4.1
OR	4.0	3.6	3.8	3.5	3.5	3.4	4.3	4.1	4.1	3.9
SC	4.1	3.6	3.5	3.4	3.7	3.5	4.4	4.2	4.1	4.0
MT	4.0	3.6	3.8	3.5	3.5	3.3	4.3	4.1	4.0	3.8

	Reduced ability to accomplish activities on my property		Negative impacts to my ability to work		Negative impacts to my travel - road closures and/or car accidents	
	Likeliness	Severity	Likeliness	Severity	Likeliness	Severity
Total	3.3	3.2	2.8	2.7	3.3	3.2
CA	3.3	3.1	2.8	2.7	3.1	3.1
OR	3.2	3.0	2.6	2.7	3.3	3.2
SC	3.7	3.5	2.8	2.7	4.0	3.7
MT	3.2	3.1	2.9	2.8	3.2	3.1

SECTION 3: SMOKE ORIGIN AND ACCEPTABILITY

7) Smoke may come from different types of fires and impact people in different ways. In the last 5 years have you experienced smoke issues? If yes, what was the source (can mark more than one source).

<i>Have you or anyone in your household experienced...</i>	YES	DIDN'T KNOW THE SOURCE	FROM PRESCRIBED FIRES	FROM WILDFIRE	FROM AGRICULTURAL BURNS	PILE/ DEBRIS BURNS	FROM WOOD STOVES
7a) ... unpleasant odors from smoke?							
Total	78	13	46	61	25	56	35
CA	84	12	43	80	23	54	28
OR	70	11	44	61	42	53	47
SC	72	27	44	37	9	46	14
MT	79	10	53	55	20	53	40
7b) ... discomfort from smoke?							
Total	59	11	40	61	20	39	25
CA	67	6	29	80	14	35	17
OR	59	10	36	57	34	38	36
SC	47	26	38	32	11	39	18
MT	57	11	46	59	18	46	28
7c) ... a road closure or delay due to smoke?							
Total	35	9	38	74	11	7	3
CA	43	5	32	82	8	8	3
OR	34	9	45	70	21	6	2
SC	45	14	40	60	11	5	5
MT	28	9	36	77	7	9	1

7d) ...evacuation from your home or office due to smoke?	YES	DIDN'T KNOW THE SOURCE	FROM PRESCRIBED FIRES	FROM WILDFIRE	FROM AGRICULTURAL BURNS	PILE/ DEBRIS BURNS	FROM WOOD STOVES
Total	7	6	22	77	6	6	6
CA	13	0	12	97	3	3	0
OR	3	33	50	17	17	17	33
SC	3	0	50	0	25	25	50
MT	7	1	2	6	1	1	1
7e) ... personal property damage due to smoke?							
Total	3	24	32	44	8	24	16
CA	2	0	0	2	0	0	0
OR	3	38	50	13	13	25	38
SC	3	20	0	60	0	40	0
MT	3	1	2	2	1	1	1
7f) ... personal health effects from smoke?							
Total	27	14	44	58	25	37	33
CA	28	14	47	78	21	28	17
OR	27	9	36	52	36	35	51
SC	16	35	22	26	4	39	0
MT	33	4	18	19	8	15	12

8a) Smoke from a wildfire that managers are attempting to suppress is acceptable

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	4	3	4	16	11	22	36	4	5.6
CA	6	2	5	15	12	22	33	4	5.5
OR	4	4	5	18	10	21	34	4	5.5
SC	3	2	1	17	13	21	36	7	5.8
MT	4	4	4	14	10	24	39	3	5.7

8b) Smoke from a prescribed fire that is ignited by managers on public lands is acceptable

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	9	6	10	19	14	20	21	2	4.7
CA	9	5	11	19	16	19	17	4	4.6
OR	9	6	11	18	13	22	19	2	4.7
SC	4	6	8	21	14	20	24	3	5.0
MT	10	6	9	17	15	19	22	1	4.7

8c) Smoke from a naturally-ignited fire (such as lightning) on public lands that is allowed to burn is acceptable

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	10	8	9	20	14	17	19	3	4.5
CA	8	10	10	18	18	16	16	5	4.5
OR	9	8	11	20	13	18	18	2	4.5
SC	8	8	4	26	12	20	19	3	4.7
MT	13	7	9	20	12	16	21	3	4.4

8d) Smoke from burning a pile of vegetation debris is acceptable

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	10	10	10	21	15	16	17	2	4.4
CA	9	13	7	21	17	17	14	3	4.3
OR	10	9	12	20	15	15	17	2	4.4
SC	10	10	10	22	13	17	15	3	4.3
MT	11	8	10	21	15	15	19	1	4.4

8e) Smoke from a fire that is ignited by land owners on private lands (e.g., refuse pile) is acceptable

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	10	10	11	22	14	16	16	2	4.3
CA	11	13	9	20	14	18	13	2	4.2
OR	11	7	14	22	14	15	15	2	4.3
SC	10	10	16	23	11	12	14	2	4.1
MT	8	9	10	22	14	18	19	1	4.6

8f) Smoke from a fire used to prepare fields for agricultural production is acceptable

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	8	8	8	22	11	20	19	3	4.6
CA	9	11	9	22	12	16	16	4	4.4
OR	10	6	9	23	11	21	17	2	4.6
SC	3	6	5	27	11	23	21	5	5.0
MT	7	8	9	19	11	20	23	4	4.7

9a) Smoke is not important to me

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	30	15	12	19	7	9	7	3.1
CA	30	15	12	20	7	10	6	3.1
OR	31	15	12	20	8	7	7	3.1
SC	33	14	9	21	7	9	7	3.1
MT	29	14	14	18	7	10	8	3.2

9b) When I notice smoke, I can usually figure out its source

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	4	4	6	15	20	28	22	5.1
CA	5	3	6	15	22	27	21	5.1
OR	4	6	6	11	22	30	21	5.1
SC	5	7	5	22	22	25	14	4.8
MT	3	3	6	16	17	30	25	5.3

9c) The type of fire (i.e. wildfire, prescribed, agricultural) influences my willingness to accept smoke

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	9	6	6	22	15	23	20	4.7
CA	7	4	5	23	16	23	22	4.9
OR	8	8	7	23	17	24	14	4.6
SC	9	6	7	25	13	22	18	4.6
MT	11	7	5	19	14	22	23	4.7

9d) Private landowners don't do enough to manage their smoke

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	11	10	9	34	13	13	10	4.1
CA	9	9	10	31	15	16	10	4.2
OR	10	11	7	39	11	12	9	4.0
SC	4	5	11	39	10	17	14	4.5
MT	16	12	8	31	14	11	8	3.8

9e) Smoke from prescribed burns is a necessary inconvenience

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	7	4	6	16	17	24	25	5.1
CA	6	4	7	20	17	23	23	5.0
OR	8	5	6	15	18	24	24	5.0
SC	4	2	7	19	13	30	25	5.2
MT	9	3	5	13	19	21	29	5.1

9f) Smoke is acceptable if it results in healthier forests

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	5	3	4	16	15	26	31	5.4
CA	3	3	2	17	17	28	28	5.4
OR	6	0	4	19	12	27	31	5.4
SC	2	0	5	16	17	25	35	5.6
MT	7	5	5	12	14	24	32	5.2

9g) I do not worry about smoke

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	24	12	9	18	10	13	14	3.7
CA	27	11	8	25	8	10	11	3.5
OR	19	15	10	19	12	9	15	3.8
SC	32	10	12	14	10	14	9	3.4
MT	24	12	8	15	9	17	16	3.9

SECTION 4: KNOWLEDGE, COMMUNICATION, AND TRUST

The below table represents the mean ratings for questions 10 and 11 and the mean difference between the two ratings for each respondent.

10.) Rate your current knowledge about smoke emissions. Using a scale of zero to 100 where zero means knowing nothing and 100 means knowing everything that could possibly be known about smoke emissions, please indicate your level of knowledge about smoke emissions.

11) We would like you to estimate how much knowledge you would need in order to have a comfortable understanding of smoke emissions. You might feel you need the same, more, or possibly even less information about this topic than you indicated in the previous question. Using the scale of zero (knowing nothing) to 100 (knowing everything possible), how much information would be sufficient for you?

	10)	11)	
	SELF-ASSESSED KNOWLEDGE OF SMOKE	KNOWLEDGE OF SMOKE WANTED	DIFFERENCE
Total	58.9	66.1	7.6
CA	58.1	67.1	9.1
OR	58.7	63.5	5.0
SC	54.5	67.1	12.6
MT	61.3	67	6.1

12) Please rate yourself on the following scale

	NOT IMPORTANT		MODERATELY IMPORTANT			EXTREMELY IMPORTANT		MEAN
	1	2	3	4	5	6	7	
12a) Environmental consequences are given top priority								
TOTAL	2	4	6	22	19	24	23	5.2
CA	3	5	5	20	21	25	21	5.1
OR	2	6	8	21	19	24	21	5.0
SC	0	1	3	22	15	27	32	5.6
MT	3	3	6	25	18	23	22	5.1
12b) Economic consequences are given top priority								
TOTAL	2	3	6	25	21	25	18	5.1
CA	3	3	5	26	24	21	17	5.0
OR	2	5	7	22	20	25	19	5.0
SC	0	1	8	25	24	27	15	5.1
MT	2	3	5	25	20	26	19	5.1
12c) Actions help support the local economy								
TOTAL	2	2	4	20	23	28	22	5.3
CA	2	2	7	24	22	26	18	5.1
OR	2	1	2	15	28	31	21	5.4
SC	1	1	3	27	24	28	17	5.2
MT	2	3	3	18	19	28	27	5.4
12d) The decision results in management activities that maintain or restore ecological conditions								
TOTAL	1	3	6	18	21	28	23	5.3
CA	2	2	4	21	21	31	18	5.2
OR	1	4	9	15	21	27	23	5.3
SC	1	1	2	19	22	27	28	5.6
MT	2	3	7	18	21	25	25	5.3

12e) The decision maintains forest access for recreation	1	2	3	4	5	6	7	
TOTAL	2	2	5	16	19	27	28	5.4
CA	2	2	7	16	20	27	26	5.3
OR	2	2	5	15	19	27	31	5.5
SC	1	2	4	22	26	27	17	5.2
MT	3	1	5	14	17	28	33	5.6
12f) When scientists play a role by reviewing management objectives	1	2	3	4	5	6	7	
TOTAL	5	5	7	23	21	22	16	4.8
CA	5	5	8	23	18	24	16	4.8
OR	4	6	7	23	21	21	19	4.9
SC	2	2	1	23	27	25	19	5.2
MT	8	7	8	24	21	20	13	4.5
12g) How the decision affects my personal property	1	2	3	4	5	6	7	
TOTAL	3	2	5	16	12	26	36	5.5
CA	3	2	6	15	12	31	32	5.5
OR	4	4	6	16	10	26	33	5.4
SC	3	1	2	20	12	24	37	5.6
MT	3	1	4	14	13	22	42	5.7

13) Trust in agencies

	Federal Forest Agencies (U.S. Forest Service, BLM)							MEAN
	POOR		MODERATE			EXCELLENT		
	1	2	3	4	5	6	7	
13.1a) How would you generally rate the agencies for how well they manage public forests in your area?								
TOTAL	13	9	10	23	23	17	5	4.1
CA	13	9	13	22	20	17	5	4.0
OR	14	8	12	22	26	13	5	4.0
SC	1	3	2	24	26	34	10	5.1
MT	16	12	10	24	21	15	2	3.7
13.1b) How would you generally rate the agencies for specifically reducing fire risk?								
TOTAL	10	10	11	25	21	17	6	4.1
CA	14	10	13	23	21	13	6	3.9
OR	8	8	14	27	19	18	6	4.2
SC	0	3	4	27	24	31	11	5.1
MT	13	13	10	25	21	13	4	3.8
13.1c) How would you generally rate the agencies for managing smoke?								
TOTAL	10	7	9	32	22	13	6	4.1
CA	12	8	11	32	19	11	6	4.0
OR	10	3	10	35	26	12	5	4.2
SC	3	6	4	28	29	20	9	4.7
MT	11	10	10	33	18	13	5	3.9

	State or Local Forest Agencies (State Dept. of Forestry)							
	POOR	MODERATE				EXCELLENT	MEAN	
	1	2	3	4	5	6	7	
13.2a) How would you generally rate the agencies for how well they manage public forests in your area?								
TOTAL	8	7	10	27	22	19	7	4.4
CA	9	9	10	26	21	18	7	4.2
OR	6	5	9	28	26	17	9	4.5
SC	2	2	3	25	21	36	11	5.1
MT	11	9	12	27	21	15	4	4.0
13.2b) How would you generally rate the agencies for specifically reducing fire risk?								
TOTAL	7	8	11	28	22	16	8	4.3
CA	10	9	12	23	26	13	7	4.2
OR	6	6	12	31	19	16	9	4.4
SC	0	4	7	23	23	31	12	5.1
MT	8	11	11	32	21	12	4	4.0
13.2c) How would you generally rate the agencies for managing smoke?								
TOTAL	8	8	12	30	22	14	7	4.2
CA	10	9	12	29	22	11	6	4.0
OR	8	4	11	32	24	13	9	4.3
SC	3	5	5	26	28	23	11	4.8
MT	9	10	14	30	17	14	6	4.0

Q14) Trust in natural resource organizations is essential to the success of forest management programs. Please indicate your level of trust in the following agencies to make good decisions about smoke management.

14a) Your local Forest Service staff in state

	NO TRUST		MODERATE TRUST				FULL TRUST	DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	6	7	7	24	18	19	7	12	4.4
CA	6	7	9	27	18	14	7	13	4.3
OR	6	7	7	22	22	20	6	10	4.5
SC	0	1	1	16	18	28	13	22	5.4
MT	9	10	8	25	15	19	6	8	4.2

14b) Your local county air quality district (only asking in California)

	NO TRUST		MODERATE TRUST				FULL TRUST	DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
CA	7	9	11	30	17	12	4	10	4.0

14c) State Department of Forestry

	NO TRUST		MODERATE TRUST				FULL TRUST	DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	4	5	6	23	19	20	9	14	4.6
CA	7	5	9	25	20	15	8	11	4.4
OR	3	5	6	23	22	22	7	11	4.7
SC	0	0	2	14	18	32	15	20	5.5
MT	5	8	6	26	17	17	7	15	4.4

14d) Private landowners

	NO TRUST		MODERATE TRUST				FULL TRUST	DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	7	14	17	27	12	9	3	10	3.7
CA	9	15	16	27	10	9	3	11	3.6
OR	6	14	20	25	13	8	4	11	3.7
SC	7	16	14	27	12	6	3	14	3.6
MT	6	12	15	29	14	12	4	7	3.9

14e) Forestry consultants who work with private landowners to conduct burns on private lands

	NO TRUST		MODERATE TRUST				FULL TRUST	DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	4	6	9	24	19	15	5	17	4.4
CA	4	8	12	24	17	12	4	18	4.1
OR	4	6	9	29	20	13	4	15	4.3
SC	0	2	7	19	22	22	6	22	4.9
MT	5	7	9	23	19	15	5	16	4.3

14f) State Environmental Protection Agency, Air Resources Board

	NO TRUST		MODERATE TRUST				FULL TRUST	DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	13	10	11	20	15	15	3	13	3.8
CA	16	11	9	22	17	12	2	12	3.7
OR	18	11	12	19	13	16	4	8	3.7
SC	4	3	8	20	19	21	6	19	4.6
MT	12	11	12	20	15	13	3	14	3.8

14g) U.S. Environmental Protection Agency (EPA)

	NO TRUST	MODERATE TRUST					FULL TRUST	DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	22	14	10	18	11	10	4	12	3.3
CA	21	13	10	21	11	9	2	14	3.3
OR	26	11	8	17	15	9	4	11	3.3
SC	7	7	8	16	15	18	11	18	4.5
MT	24	20	11	17	7	8	3	10	3.0

14h) U.S. Federal Agencies (Forest Service, BLM) in Washington, D.C.

	NO TRUST	MODERATE TRUST					FULL TRUST	DON'T KNOW	MEAN
	1	2	3	4	5	6	7		
Total	22	14	10	18	11	10	4	12	3.3
CA	23	9	13	20	11	8	4	13	3.3
OR	21	15	10	17	15	7	5	11	3.4
SC	7	7	6	17	16	18	8	22	4.5
MT	30	18	10	14	8	8	2	10	2.8

15a) Federal agency fire managers provide the best available information about smoke issues

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	10	12	15	40	12	7	4	3.7
CA	11	12	17	40	9	6	5	3.6
OR	10	12	14	42	12	7	4	3.7
SC	6	12	10	44	13	8	7	4.0
MT	12	11	17	36	14	7	3	3.6

15b) Federal agency fire managers provide enough information about smoke so I can decide which actions I should take

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	9	12	14	37	12	9	6	3.8
CA	10	13	17	37	10	7	6	3.7
OR	9	11	12	42	13	9	5	3.9
SC	5	16	15	34	12	11	7	3.9
MT	11	12	15	35	14	9	6	3.8

15c) Federal agency fire managers provide timely information regarding smoke

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	11	13	16	35	12	7	5	3.7
CA	12	11	19	37	9	6	5	3.6
OR	9	13	14	38	13	8	5	3.8
SC	8	14	14	38	11	10	6	3.8
MT	13	15	16	30	13	7	5	3.6

15d) State agency fire managers provide the best available information about smoke issues

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	8	10	12	38	18	10	4	4.0
CA	9	10	17	38	15	8	4	3.8
OR	6	10	12	39	17	11	5	4.1
SC	5	13	6	32	22	12	8	4.2
MT	9	8	11	40	20	10	2	3.9

15e) State agency fire managers provide enough information about smoke so I can decide which actions I should take

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	8	10	14	36	16	10	6	4.0
CA	9	10	18	37	12	8	6	3.8
OR	6	10	12	38	17	12	6	4.1
SC	7	11	12	27	18	15	10	4.2
MT	8	10	13	38	18	10	3	3.9

15f) State agency fire managers provide timely information regarding smoke

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	9	11	14	35	15	10	5	3.9
CA	10	13	16	35	13	8	5	3.7
OR	5	12	12	37	14	13	7	4.1
SC	8	10	12	34	14	14	9	4.1
MT	10	10	14	36	19	9	2	3.8

16a) If I wanted to, I could easily locate information about smoke emissions

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	9	11	11	25	19	14	12	4.2
CA	11	13	11	21	18	13	14	4.2
OR	9	9	12	27	18	15	10	4.2
SC	7	13	11	28	20	13	9	4.2
MT	7	9	10	26	19	15	13	4.4

16b) It is hard for me to find useful information about smoke emissions

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	13	16	16	32	11	9	4	3.6
CA	14	14	16	30	11	8	5	3.6
OR	12	15	15	33	13	9	4	3.6
SC	10	13	16	37	7	10	5	3.7
MT	14	19	15	30	10	9	4	3.4

16c) I intend to find out more about smoke

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	8	10	8	46	13	9	5	4.0
CA	6	9	9	43	15	12	6	4.1
OR	11	14	6	44	12	8	4	3.7
SC	4	7	9	45	13	12	10	4.3
MT	9	8	8	51	12	7	4	3.9

16d) I don't need to look for any more information about smoke

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	12	15	12	38	7	10	8	3.7
CA	15	17	10	37	5	10	7	3.6
OR	14	13	14	37	5	11	7	3.7
SC	13	16	13	36	9	7	6	3.6
MT	8	14	11	39	8	9	10	3.9

16e) Seeking additional information about smoke would be a productive use of my time

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	13	15	10	34	13	10	6	3.7
CA	11	18	8	32	9	13	8	3.8
OR	15	13	13	31	16	9	4	3.6
SC	10	16	9	27	15	11	13	4.0
MT	15	14	9	39	11	8	4	3.6

16f) People whose opinions I value expect me to be knowledgeable about smoke

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	17	16	9	37	7	8	6	3.5
CA	15	17	13	35	6	9	5	3.5
OR	17	21	7	36	7	7	5	3.3
SC	19	10	14	35	7	10	6	3.5
MT	17	14	6	41	9	7	6	3.6

16g) My friends and family think it is important to learn more about smoke emissions

	STRONGLY DISAGREE		NEUTRAL			STRONGLY AGREE		MEAN
	1	2	3	4	5	6	7	
Total	16	16	9	38	8	8	4	3.5
CA	16	16	10	35	8	10	4	3.5
OR	17	18	9	36	10	6	4	3.4
SC	16	16	9	33	10	7	10	3.6
MT	14	15	9	44	6	9	3	3.5

17) Has your trust in Forest Agencies changed over time because of smoke management issues?

	DECREASED	INCREASED	NOT CHANGED
Total	18	77	5
CA	23	73	4
OR	14	83	3
SC	7	85	7
MT	23	72	5

18) Has your acceptance of the use of prescribed fire changed because of smoke management issues?

	DECREASED	INCREASED	NOT CHANGED
Total	14	78	8
CA	18	74	9
OR	13	79	8
SC	3	87	10
MT	16	77	7

19) There are many sources of information about smoke and we'd like to know which sources are the best. You may encounter these information sources when gathering general information about fire and smoke, or when seeking information about specific planned or ongoing smoke events. Please circle "Yes" to all information sources you have used to receive fire or smoke-related information, and then indicate how useful that source was*. If you've had no experience with that source, please circle "No" and move on to the next question.

* note: those that had no experience but still marked a usefulness rating were excluded.

19a) Informational brochures

	EXPERIENCE	USEFUL					MEAN
		NOT	SLIGHTLY			VERY	
		1	2	3	4	5	
Total	32	2	11	38	28	21	3.5
CA	32	0	11	37	27	25	3.7
OR	27	3	14	33	29	21	3.5
SC	21	0	4	42	38	15	3.7
MT	41	3	12	40	25	20	3.5

19b) TV and radio public service messages

	EXPERIENCE	USEFUL					MEAN
		NOT	SLIGHTLY			VERY	
		1	2	3	4	5	
Total	68	2	10	32	34	22	3.6
CA	77	2	14	27	34	23	3.6
OR	70	1	8	37	31	23	3.7
SC	72	1	2	25	46	26	3.9
MT	57	4	11	38	29	18	3.5

19c) Newspapers/ Magazines

	EXPERIENCE	USEFUL					MEAN
		NOT	SLIGHTLY			VERY	
		1	2	3	4	5	
Total	63	2	11	37	35	15	3.5
CA	65	1	13	36	35	15	3.5
OR	66	3	10	39	32	16	3.5
SC	50	2	9	23	47	19	3.7
MT	64	3	11	41	32	13	3.4

19d) Newsletters

	EXPERIENCE	USEFUL					MEAN
		NOT	SLIGHTLY			VERY	
		1	2	3	4	5	
Total	22	3	13	31	33	19	3.5
CA	20	2	11	23	30	34	3.8
OR	18	0	17	37	29	17	3.5
SC	19	4	0	25	63	8	3.7
MT	27	5	17	35	29	14	3.3

19e) Flyers or door-hangers

	EXPERIENCE	USEFUL					MEAN
		NOT	SLIGHTLY			VERY	
			1	2	3		
Total	11	11	11	25	24	29	3.5
CA	13	3	7	24	34	31	3.8
OR	7	20	20	40	7	13	2.7
SC	12	13	7	27	40	13	3.3
MT	11	12	12	18	15	42	3.6

19f) Government public meetings

	EXPERIENCE	USEFUL					MEAN
		NOT	SLIGHTLY			VERY	
			1	2	3		
Total	17	9	15	25	31	20	3.4
CA	17	3	27	22	27	22	3.4
OR	15	12	12	21	39	15	3.3
SC	5	0	33	33	33	0	3.0
MT	23	12	9	28	28	22	3.4

19g) Conversations with agency staff

	EXPERIENCE	USEFUL					MEAN
		NOT	SLIGHTLY			VERY	
			1	2	3		
Total	26	5	6	30	31	28	3.7
CA	26	3	9	24	31	33	3.8
OR	22	2	6	30	38	24	3.8
SC	11	8	0	31	31	31	3.8
MT	37	6	6	32	28	28	3.6

19h) Billboards and road signs

	EXPERIENCE	USEFUL					MEAN
		NOT	SLIGHTLY			VERY	
		1	2	3	4	5	
Total	50	2	9	32	30	26	3.7
CA	48	3	7	35	37	18	3.6
OR	55	1	8	39	24	29	3.7
SC	53	0	7	25	41	28	3.9
MT	47	5	13	28	26	28	3.6

19i) Visitor center/ interpretive signs

	EXPERIENCE	USEFUL					MEAN
		NOT	SLIGHTLY			VERY	
		1	2	3	4	5	
Total	32	4	7	29	35	24	3.7
CA	33	3	11	24	41	21	3.7
OR	29	7	4	33	31	24	3.6
SC	27	0	6	18	44	32	4.0
MT	37	5	6	34	31	25	3.7

19j) Educational workshops

	EXPERIENCE	USEFUL					MEAN
		NOT	SLIGHTLY			VERY	
		1	2	3	4	5	
Total	11	3	5	23	33	36	3.9
CA	9	0	10	38	19	33	3.8
OR	12	0	0	24	40	36	4.1
SC	10	0	0	18	55	27	4.1
MT	14	8	8	16	29	39	3.8

19k) General web pages

	EXPERIENCE	USEFUL					MEAN
		NOT	SLIGHTLY			VERY	
		1	2	3	4	5	
Total	24	1	8	32	37	22	3.7
CA	30	0	9	41	33	17	3.6
OR	22	0	10	35	33	22	3.7
SC	19	4	8	25	42	21	3.7
MT	24	1	6	23	42	28	3.9

19l) Forest Agency web pages

	EXPERIENCE	USEFUL					MEAN
		NOT	SLIGHTLY			VERY	
		1	2	3	4	5	
Total	22	3	7	30	33	27	3.7
CA	24	0	7	37	33	22	3.7
OR	19	2	5	24	37	32	3.9
SC	16	5	11	16	32	37	3.8
MT	26	5	7	32	31	25	3.6

19m) Environmental Protection Agency website

	EXPERIENCE	USEFUL					MEAN
		NOT	SLIGHTLY			VERY	
		1	2	3	4	5	
Total	12	8	9	27	29	26	3.6
CA	14	3	3	39	26	29	3.7
OR	8	12	24	35	12	18	3.0
SC	11	0	0	23	46	31	4.1
MT	13	13	11	16	34	26	3.5

19n) State air quality website

	EXPERIENCE	USEFUL					MEAN
		NOT	SLIGHTLY			VERY	
		1	2	3	4	5	
Total	21	3	7	32	33	25	3.7
CA	20	7	0	38	38	18	3.6
OR	21	4	11	28	23	34	3.7
SC	12	0	7	29	36	29	3.9
MT	26	1	8	32	35	23	3.7

19o) State air quality call line

	EXPERIENCE	USEFUL					MEAN
		NOT	SLIGHTLY			VERY	
		1	2	3	4	5	
Total	22	4	11	25	29	32	3.8
CA	20	7	4	20	31	38	3.9
OR	23	0	15	25	26	34	3.8
SC	11	0	8	25	25	42	4.0
MT	28	5	11	28	30	25	3.6

19p) Family/Friends/Relatives

	EXPERIENCE	USEFUL					MEAN
		NOT	SLIGHTLY			VERY	
		1	2	3	4	5	
Total	59	3	10	33	32	22	3.9
CA	65	2	12	30	34	22	3.6
OR	55	2	6	36	37	19	3.7
SC	47	3	10	28	35	23	3.7
MT	63	4	11	36	27	22	3.5

19 cont.) The following table shows the ordered mean ratings of usefulness for each information source. The mean represents the total for all the sites combined.

	Useful?				
	NO 1	2	SOMEWHAT 3	4	VERY 5
	MEAN				
Educational workshops			3.9		
State air quality call line			3.8		
Forest Agency web pages			3.7		
Conversations with agency staff			3.7		
General web pages			3.7		
State air quality website			3.7		
Visitor center/ interpretive signs			3.7		
Billboards and road signs			3.7		
TV and radio public service messages			3.6		
Family/Friends/Relatives			3.6		
Environmental Protection Agency website			3.6		
Informational brochures			3.5		
Newsletters			3.5		
Flyers or door-hangers			3.5		
Newspapers/ Magazines			3.5		
Government public meetings			3.4		

SECTION 5: DEMOGRAPHICS

20) Gender

	MALE	FEMALE
Total	58	42
CA	60	40
OR	58	42
SC	54	46
MT	57	43

21) Age

	AVERAGE AGE
Total	60.8
CA	63.1
OR	60.7
SC	56.7
MT	60.8

22) Race/ethnicity*

Note: More than 1 option could be checked

	BLACK / AFRICAN-AMERICAN	WHITE / CAUCASIAN	AMERICAN INDIAN OR ALASKA NATIVE	HISPANIC, LATINO, OR SPANISH ORIGIN	ASIAN	NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER	OTHER OR UNKNOWN
Total	2	88	3	1	1	0	2
CA	0	89	4	2	0	0	1
OR	1	87	5	2	1	1	1
SC	12	76	1	1	1	0	2
MT	0	93	3	1	0	0	2

23) Income

	LESS THAN \$20,000 PER YEAR	\$20,001 TO \$40,000 PER YEAR	\$40,001 TO \$60,000 PER YEAR	\$60,001 TO \$80,000 PER YEAR	\$80,001 TO \$100,000 PER YEAR	\$100,001 TO \$120,000 PER YEAR	MORE THAN \$120,000 PER YEAR
Total	17	27	19	16	10	6	5
CA	14	23	20	17	14	8	5
OR	21	24	19	18	10	6	3
SC	11	23	20	15	15	8	8
MT	18	34	18	14	6	5	4

24) Education level

	SOME HIGH SCHOOL	HIGH SCHOOL GRADUATE /GED	VOCATIONAL SCHOOL	SOME COLLEGE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	SOME GRADUATE SCHOOL	GRADUATE DEGREE
Total	3	20	5	26	11	19	6	11
CA	2	13	6	30	13	20	8	9
OR	3	22	3	28	9	20	3	14
SC	4	20	1	24	8	24	9	8
MT	3	25	7	22	12	15	6	10

25) (zipcode)

26) How long have you lived in this community?

	AVERAGE YEARS
Total	27.5
CA	26.0
OR	30.1
SC	23.4
MT	28.2

27) Are you a permanent (year round) or part-time resident in this home?

	PERMANENT	PART-TIME OR SEASONAL
Total	97	3
CA	99	1
OR	97	3
SC	100	0
MT	94	6

28) Is your employment or any source of income related to forests?

	YES	NO
Total	18	82
CA	14	86
OR	19	81
SC	8	92
MT	24	76

29) Are you retired?

	YES	NO
Total	52	48
CA	58	42
OR	51	49
SC	39	61
MT	53	47

30) Does the community where you live have a Community Wildfire Protection Plan?

	YES	NO	DON'T KNOW
Total	27	6	67
CA	28	7	65
OR	22	5	73
SC	6	12	81
MT	39	4	58

31) Are you a member of any forest or natural resource community or interest group?

	YES	NO	DON'T KNOW
Total	10	85	5
CA	9	88	3
OR	10	84	5
SC	4	85	11
MT	13	84	3

32) About how far is it from your home to a natural area where a wildfire might burn?

	LESS THAN 1 MILE	1-5MILES	6-10 MILES	MORE THAN 10 MILES	AVERAGE
Total	54	28	9	7	3.4
CA	51	30	2	17	3.6
OR	38	25	27	11	4.8
SC	32	33	16	20	7.2
MT	77	21	0	1	0.6

33) Do you or a member of your household use fire on your own property to manage vegetation?

	YES	NO	DON'T KNOW
Total	38	61	1
CA	41	58	1
OR	27	73	0
SC	20	79	1
MT	53	47	0

34) Do you or a member of your household use fire to burn trash or unwanted debris?

	YES	NO	DON'T KNOW
Total	40	60	0
CA	31	68	0
OR	39	61	0
SC	31	69	0
MT	51	49	0

35) Does your household use a woodstove (not including pellet stoves)?

	YES	NO	DAYS PER WEEK USE STOVE (AVERAGE)
Total	42	58	6.0
CA	45	55	6.0
OR	32	68	5.8
SC	12	88	3.8
MT	61	38	6.3

36) Has your household participated in a woodstove replacement program?

	YES	NO	DON'T KNOW
Total	18	80	2
CA	14	83	3
OR	18	81	1
SC	0	100	0
MT	26	73	2

37) Have you ever been unable to use your woodstove or fireplace due to smoke or air quality?

	YES	NO	DON'T KNOW	DAYS PER WINTER MONTH UNABLE TO USE FIREPLACE BECAUSE AIR QUALITY REASONS
Total	17	81	1	5.7
CA	6	92	2	5.9
OR	39	58	3	9.6
SC	0	100	0	6.5
MT	17	83	0	1.8