

Date:

9/16/18

Survey location:

Quinn's Pond

**DEMOGRAPHIC DATA**

If you are uncomfortable answering any of these questions, you may leave them blank.

1. Do you consent to participate in this research study?  
☒ Yes  
☐ No – If you do not consent to participate, please do not complete this survey
2. What is your age?  
Fill in the blank 44
3. Which gender do you identify with?  
☒ A woman  
☐ A man  
☐ Other \_\_\_\_\_
4. What racial or ethnic group best describes you?  
☒ White / Caucasian  
☐ Hispanic or Latino  
☐ Black or African American  
☐ Native American / American Indian or Alaskan Native  
☐ Asian / Pacific Islander  
☐ Other \_\_\_\_\_
5. What is the ZIP Code where you currently live?  
Fill in the blank 83706
6. What is the highest degree or level of school you completed? If currently enrolled, highest degree received.  
☐ 8th grade or less  
☐ Some high school, no diploma  
☐ High school graduate, diploma or GED  
☐ Some college, no degree  
☐ Associates degree  
☒ Bachelor's degree  
☐ Master's degree  
☐ Ph.D, M.D., J.D. or similar
7. What is your total household income, including income from all members of your family, in 2017 before taxes? This figure should include salaries, wages, pensions, dividends, interest, and all other income.  
☐ \$25,000 or less  
☐ \$25,000 to \$49,999  
☐ \$50,000 to \$74,999  
☐ \$75,000 to \$99,999  
☐ \$100,000 or more

## ACTIVITY DATA

8. Would you say that in general your health is:

- ☐ Excellent
- ☒ Good
- ☐ Fair
- ☐ Poor

9. During summer of 2018, have you engaged in any outdoor activities, such as hiking, biking, fishing, gardening, running, or any other outdoor activity?

- ☒ Yes – Please list the activities walking & hiking
- ☐ No (skip to question 11)

10. During the summer of 2018, how often would you say you've engaged in the outdoor activities you've listed above?

- ☒ Daily
- ☐ A few times per week
- ☐ Once per week
- ☐ Less than once per week, but more than once per month
- ☐ Rarely – A few times during the summer
- ☐ Never

## AIR QUALITY NOTIFICATION

11. During the summer of 2018, have you ever received an air quality notification message suggesting you avoid outside activity?

- ☐ Yes
- ☒ No

12. Do you ever seek out information related to wildfire and smoke notifications?

- ☒ a. Yes
- ☐ b. No (if you answered no to both questions 11 and 12, please skip to question 15)

13. Which source do you use to find wildfire smoke notifications? [Check all that apply]

- ☒ Social media (like Facebook, Instagram, Twitter)
- ☐ Television
- ☐ Online news sources
- ☐ Newspapers
- ☐ Friends or Family
- ☒ Personal observation
- ☐ State agencies such as Department of Environmental Quality website
- ☐ Idaho Smoke Information Blog
- ☐ Federal sources such as AIRnow.gov website
- ☐ Dynamic road sign displays (such as the signs on I-184 or I-84)
- ☐ Other \_\_\_\_\_

14. In a smoky week in summer 2018, about how many days did you look online (either on a computer, tablet, or smartphone) for smoke-related information, such as air quality, smoke forecasts, or health notices?
- ☐ 0 days
  - ☐ 1 days
  - ☒ 2 days
  - ☐ 3 days
  - ☐ 4-5 days
  - ☐ 6-7 days.
15. During summer of 2018, did you *ever* reduce your outside activities due to wildfire smoke?
- ☒ Yes
  - ☐ No
  - ☐ Not applicable
16. During summer of 2018, think of the *longest* period of consecutive days you reduced or eliminated your outdoor activities due to a smoke event. How many consecutive days did you reduce or eliminate activity?
- ☐ 0 days
  - ☒ 1 to 2 days
  - ☐ 3 days
  - ☐ 4 days
  - ☐ 5 days
  - ☐ 6 days and more
17. What is the *minimum* air quality index rating that would cause you to reduce your outdoor activity on a particular day?
- ☐ Green – Good
  - ☐ Yellow – Moderate
  - ☐ Orange – Unhealthy for Sensitive Groups
  - ☒ Red – Unhealthy
  - ☐ Purple – Very Unhealthy
  - ☐ Maroon – Hazardous
  - ☐ I am not familiar with this rating
18. What is the *minimum* air quality index rating that would cause you to eliminate your outdoor activity on a particular day?
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  - ☐ I am not familiar with this rating

19. If you decided to limit your outdoor activity during a smoke event, what type of information motivated your decision to do so? [Check all that apply]

- ☐ Smoke-related health problem statistics
- ☒ Air quality information
- ☐ Smoke forecasts
- ☒ Your own visual observation (seeing the smoke outside)
- ☐ Wildfire information
- ☐ Advice from your doctor
- ☐ Advice from family and friends

20. What type of message could motivate / motivated you to take action to mitigate the risk of issues related to wildfire smoke, such as staying indoors or leaving the area? [Check all that apply]

- ☒ Text message
- ☐ Phone call
- ☐ Social media message
- ☐ Online message
- ☐ Message seen on television
- ☒ Emergency alerts
- ☒ Contact from family or friends

21. What was the *content* of the message(s) that motivated you to take this action to mitigate the negative health impacts of wildfire smoke? [Check all that apply]

- ☒ A short message warning about the risk (1 line of text)
- ☒ A short message warning about the risk that included health or other statistics
- ☒ A short statement (roughly 1 paragraph)
- ☒ A visual infographic or picture
- ☐ An online Q&A session (Facebook Live or Instagram Live)
- ☐ A video
- ☐ A conversation (either online, via phone, or in person)

22. When would receiving a smoke warning message be most likely to impact your decision to limit or avoid outdoor activities *that same day*?

- ☒ I would prefer to know the day before
- ☐ Early morning (before 9 AM)
- ☐ Late morning (9 AM – noon)
- ☐ Afternoon (Noon – 5 PM)
- ☐ Evening (5 PM or later)

23. Will you take preventive actions to reduce smoke-related health impacts in the future?

- ☐ Yes – Please list the actions you might take \_\_\_\_\_
- ☐ No
- ☒ Not sure

## NATURAL HAZARD QUESTIONS

24. Do you consider wildfire smoke events a natural hazard?

- ☒ Yes
- ☐ No
- ☐ Not sure

25. As a public health threat, are wildfire smoke events more important, less important, or about as important as other natural disasters, such as hurricanes or tornadoes?

- ☒ Much less severe/important
- ☐ Somewhat less severe/important
- ☐ About as severe/important
- ☐ Somewhat more severe/important
- ☐ Much more severe/important

26. Would you consider evacuating your home only because of the wildfire smoke?

- ☐ Yes, I have done this in the past.
- ☐ Yes, I would consider it
- ☒ No
- ☐ Prefer not to answer

## HEALTH QUESTIONS

27. Have you, or anyone in your household, experienced wildfire smoke-related illness?

- ☐ Yes
- ☒ No
- ☐ Not sure

28. Did you have any of the following symptoms during or a few days after one of the smoke events in the summer of 2018 in the Boise area / Treasure Valley? [Check all that apply]

- ☒ Wheezing or whistling in the chest
- ☐ Itchy or watery eyes
- ☐ Irritated eyes
- ☐ Sneezing or a runny or blocked nose
- ☒ Dry irritated nose / sinuses
- ☐ A sore or irritated throat
- ☐ A cold
- ☒ A dry cough at night
- ☒ A dry cough first thing in the morning
- ☐ A dry cough at other times of the day
- ☐ A wet cough (congestion in the chest or phlegm production)
- ☐ Bronchitis
- ☐ An asthma attack
- ☒ Headaches
- ☐ Fatigue

29. Did you use/do any of the following to help with any symptoms during the smoke event? [Check all that apply]

- ☐ Take medication
- ☐ Wear a mask to protect your lungs
- ☒ Take long showers
- ☐ Visit a doctor or nurse
- ☐ Visit a doctor's office for asthma or smoke-related lung issues
- ☒ Use a personal air filtration system in your home or office
- ☐ Go to buildings that have air filtration systems like the mall or public library
- ☐ Miss work due to health problems

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☒ Yes  
☐ No – If you do not consent to participate, please do not complete this survey
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Fill in the blank 34
3. Which gender do you identify with?  
☒ A woman  
☐ A man  
☐ Other \_\_\_\_\_
4. What racial or ethnic group best describes you?  
☒ White / Caucasian  
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☐ Asian / Pacific Islander  
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Fill in the blank 83642
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- ☐ Somewhat more severe/important
- ☐ Much more severe/important

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**DEMOGRAPHIC DATA**

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1. Do you consent to participate in this research study?  
☒ Yes  
☐ No – If you do not consent to participate, please do not complete this survey
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Fill in the blank 35
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☒ A woman  
☐ A man  
☐ Other \_\_\_\_\_
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Fill in the blank 83716
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9. During summer of 2018, have you engaged in any outdoor activities, such as hiking, biking, fishing, gardening, running, or any other outdoor activity?
- ☒ Yes – Please list the activities hiking, walking, swimming
  - ☐ No (skip to question 11)
10. During the summer of 2018, how often would you say you've engaged in the outdoor activities you've listed above?
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Fill in the blank 35

3. Which gender do you identify with?

☐ A woman☒ A man☐ Other \_\_\_\_\_

4. What racial or ethnic group best describes you?

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5. What is the ZIP Code where you currently live?

Fill in the blank 14526

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- ☒ Yes – Please list the activities boating, golf, running
  - ☐ No (skip to question 11)
10. During the summer of 2018, how often would you say you've engaged in the outdoor activities you've listed above?
- ☐ Daily
  - ☒ A few times per week
  - ☐ Once per week
  - ☐ Less than once per week, but more than once per month
  - ☐ Rarely – A few times during the summer
  - ☐ Never

## AIR QUALITY NOTIFICATION

11. During the summer of 2018, have you ever received an air quality notification message suggesting you avoid outside activity?
- ☐ Yes
  - ☒ No
12. Do you ever seek out information related to wildfire and smoke notifications?
- ☐ a. Yes
  - ☒ b. No (if you answered no to both questions 11 and 12, please skip to question 15)
13. Which source do you use to find wildfire smoke notifications? [Check all that apply]
- ☐ Social media (like Facebook, Instagram, Twitter)
  - ☐ Television
  - ☐ Online news sources
  - ☐ Newspapers
  - ☐ Friends or Family
  - ☐ Personal observation
  - ☐ State agencies such as Department of Environmental Quality website
  - ☐ Idaho Smoke Information Blog
  - ☐ Federal sources such as AIRnow.gov website
  - ☐ Dynamic road sign displays (such as the signs on I-184 or I-84)
  - ☐ Other \_\_\_\_\_

14. In a smoky week in summer 2018, about how many days did you look online (either on a computer, tablet, or smartphone) for smoke-related information, such as air quality, smoke forecasts, or health notices?
- ☐ 0 days
  - ☐ 1 days
  - ☐ 2 days
  - ☐ 3 days
  - ☐ 4-5 days
  - ☐ 6-7 days.
15. During summer of 2018, did you *ever* reduce your outside activities due to wildfire smoke?
- ☐ Yes
  - ☐ No
  - ☒ Not applicable
16. During summer of 2018, think of the *longest* period of consecutive days you reduced or eliminated your outdoor activities due to a smoke event. How many consecutive days did you reduce or eliminate activity?
- ☒ 0 days
  - ☐ 1 to 2 days
  - ☐ 3 days
  - ☐ 4 days
  - ☐ 5 days
  - ☐ 6 days and more
17. What is the *minimum* air quality index rating that would cause you to reduce your outdoor activity on a particular day?
- ☐ Green – Good
  - ☐ Yellow – Moderate
  - ☐ Orange – Unhealthy for Sensitive Groups
  - ☐ Red – Unhealthy
  - ☐ Purple – Very Unhealthy
  - ☐ Maroon – Hazardous
  - ☒ I am not familiar with this rating
18. What is the *minimum* air quality index rating that would cause you to eliminate your outdoor activity on a particular day?
- ☐ Green – Good
  - ☐ Yellow – Moderate
  - ☐ Orange – Unhealthy for Sensitive Groups
  - ☐ Red – Unhealthy
  - ☐ Purple – Very Unhealthy
  - ☐ Maroon – Hazardous
  - ☒ I am not familiar with this rating

19. If you decided to limit your outdoor activity during a smoke event, what type of information motivated your decision to do so? [Check all that apply]

- ☐ Smoke-related health problem statistics
- ☐ Air quality information
- ☐ Smoke forecasts
- ☐ Your own visual observation (seeing the smoke outside)
- ☐ Wildfire information
- ☐ Advice from your doctor
- ☐ Advice from family and friends

20. What type of message could motivate / motivated you to take action to mitigate the risk of issues related to wildfire smoke, such as staying indoors or leaving the area? [Check all that apply]

- ☒ Text message
- ☐ Phone call
- ☐ Social media message
- ☐ Online message
- ☐ Message seen on television
- ☒ Emergency alerts
- ☐ Contact from family or friends

21. What was the *content* of the message(s) that motivated you to take this action to mitigate the negative health impacts of wildfire smoke? [Check all that apply]

- ☐ A short message warning about the risk (1 line of text)
- ☐ A short message warning about the risk that included health or other statistics
- ☐ A short statement (roughly 1 paragraph)
- ☐ A visual infographic or picture
- ☐ An online Q&A session (Facebook Live or Instagram Live)
- ☐ A video
- ☐ A conversation (either online, via phone, or in person)

22. When would receiving a smoke warning message be most likely to impact your decision to limit or avoid outdoor activities *that same day*?

- ☒ I would prefer to know the day before
- ☐ Early morning (before 9 AM)
- ☐ Late morning (9 AM – noon)
- ☐ Afternoon (Noon – 5 PM)
- ☐ Evening (5 PM or later)

23. Will you take preventive actions to reduce smoke-related health impacts in the future?

- ☐ Yes – Please list the actions you might take \_\_\_\_\_
- ☒ No
- ☐ Not sure

**NATURAL HAZARD QUESTIONS**

24. Do you consider wildfire smoke events a natural hazard?

- ☒ Yes
- ☐ No
- ☐ Not sure

25. As a public health threat, are wildfire smoke events more important, less important, or about as important as other natural disasters, such as hurricanes or tornadoes?

- ☐ Much less severe/important
- ☐ Somewhat less severe/important
- ☒ About as severe/important
- ☐ Somewhat more severe/important
- ☐ Much more severe/important

26. Would you consider evacuating your home only because of the wildfire smoke?

- ☐ Yes, I have done this in the past.
- ☐ Yes, I would consider it
- ☒ No
- ☐ Prefer not to answer

**HEALTH QUESTIONS**

27. Have you, or anyone in your household, experienced wildfire smoke-related illness?

- ☐ Yes
- ☒ No
- ☐ Not sure

28. Did you have any of the following symptoms during or a few days after one of the smoke events in the summer of 2018 in the Boise area / Treasure Valley? [Check all that apply]

- ☐ Wheezing or whistling in the chest
- ☐ Itchy or watery eyes
- ☐ Irritated eyes
- ☐ Sneezing or a runny or blocked nose
- ☐ Dry irritated nose / sinuses
- ☐ A sore or irritated throat
- ☐ A cold
- ☐ A dry cough at night
- ☐ A dry cough first thing in the morning
- ☐ A dry cough at other times of the day
- ☐ A wet cough (congestion in the chest or phlegm production)
- ☐ Bronchitis
- ☐ An asthma attack
- ☐ Headaches
- ☐ Fatigue

---

29. Did you use/do any of the following to help with any symptoms during the smoke event? [Check all that apply]

- ☐ Take medication
- ☐ Wear a mask to protect your lungs
- ☐ Take long showers
- ☐ Visit a doctor or nurse
- ☐ Visit a doctor's office for asthma or smoke-related lung issues
- ☐ Use a personal air filtration system in your home or office
- ☐ Go to buildings that have air filtration systems like the mall or public library
- ☐ Miss work due to health problems



Date:

Survey location:

**DEMOGRAPHIC DATA**

If you are uncomfortable answering any of these questions, you may leave them blank.

1. Do you consent to participate in this research study?

☒ Yes☐ No – If you do not consent to participate, please do not complete this survey

2. What is your age?

Fill in the blank 46

3. Which gender do you identify with?

☒ A woman☐ A man☐ Other \_\_\_\_\_

4. What racial or ethnic group best describes you?

☒ White / Caucasian☐ Hispanic or Latino☐ Black or African American☐ Native American / American Indian or Alaskan Native☐ Asian / Pacific Islander☐ Other \_\_\_\_\_

5. What is the ZIP Code where you currently live?

Fill in the blank 83712

6. What is the highest degree or level of school you completed? If currently enrolled, highest degree received.

☐ 8th grade or less☐ Some high school, no diploma☐ High school graduate, diploma or GED☐ Some college, no degree☐ Associates degree☒ Bachelor's degree☐ Master's degree☐ Ph.D, M.D., J.D. or similar

7. What is your total household income, including income from all members of your family, in 2017 before taxes? This figure should include salaries, wages, pensions, dividends, interest, and all other income.

☐ \$25,000 or less☐ \$25,000 to \$49,999☐ \$50,000 to \$74,999☐ \$75,000 to \$99,999☒ \$100,000 or more

## ACTIVITY DATA

8. Would you say that in general your health is:

- ☒ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

9. During summer of 2018, have you engaged in any outdoor activities, such as hiking, biking, fishing, gardening, running, or any other outdoor activity?

- ☒ Yes – Please list the activities biking
- ☐ No (skip to question 11)

10. During the summer of 2018, how often would you say you've engaged in the outdoor activities you've listed above?

- ☐ Daily
- ☒ A few times per week
- ☐ Once per week
- ☐ Less than once per week, but more than once per month
- ☐ Rarely – A few times during the summer
- ☐ Never

## AIR QUALITY NOTIFICATION

11. During the summer of 2018, have you ever received an air quality notification message suggesting you avoid outside activity?

- ☐ Yes
- ☒ No

12. Do you ever seek out information related to wildfire and smoke notifications?

- ☐ a. Yes
- ☒ b. No (if you answered no to both questions 11 and 12, please skip to question 15)

13. Which source do you use to find wildfire smoke notifications? [Check all that apply]

- ☐ Social media (like Facebook, Instagram, Twitter)
- ☐ Television
- ☐ Online news sources
- ☐ Newspapers
- ☒ Friends or Family
- ☐ Personal observation
- ☐ State agencies such as Department of Environmental Quality website
- ☐ Idaho Smoke Information Blog
- ☐ Federal sources such as AIRnow.gov website
- ☐ Dynamic road sign displays (such as the signs on I-184 or I-84)
- ☐ Other AA

14. In a smoky week in summer 2018, about how many days did you look online (either on a computer, tablet, or smartphone) for smoke-related information, such as air quality, smoke forecasts, or health notices?
- ☒ 0 days
  - ☐ 1 days
  - ☐ 2 days
  - ☐ 3 days
  - ☐ 4-5 days
  - ☐ 6-7 days.
15. During summer of 2018, did you *ever* reduce your outside activities due to wildfire smoke?
- ☐ Yes
  - ☒ No
  - ☐ Not applicable
16. During summer of 2018, think of the *longest* period of consecutive days you reduced or eliminated your outdoor activities due to a smoke event. How many consecutive days did you reduce or eliminate activity?
- ☒ 0 days
  - ☐ 1 to 2 days
  - ☐ 3 days
  - ☐ 4 days
  - ☐ 5 days
  - ☐ 6 days and more
17. What is the *minimum* air quality index rating that would cause you to reduce your outdoor activity on a particular day?
- ☐ Green – Good
  - ☐ Yellow – Moderate
  - ☐ Orange – Unhealthy for Sensitive Groups
  - ☐ Red – Unhealthy
  - ☐ Purple – Very Unhealthy
  - ☐ Maroon – Hazardous
  - ☒ I am not familiar with this rating
18. What is the *minimum* air quality index rating that would cause you to eliminate your outdoor activity on a particular day?
- ☐ Green – Good
  - ☐ Yellow – Moderate
  - ☐ Orange – Unhealthy for Sensitive Groups
  - ☐ Red – Unhealthy
  - ☐ Purple – Very Unhealthy
  - ☐ Maroon – Hazardous
  - ☒ I am not familiar with this rating

19. If you decided to limit your outdoor activity during a smoke event, what type of information motivated your decision to do so? [Check all that apply]

- ☐ Smoke-related health problem statistics
- ☐ Air quality information
- ☐ Smoke forecasts
- ☐ Your own visual observation (seeing the smoke outside)
- ☐ Wildfire information
- ☐ Advice from your doctor
- ☒ Advice from family and friends

20. What type of message could motivate / motivated you to take action to mitigate the risk of issues related to wildfire smoke, such as staying indoors or leaving the area? [Check all that apply]

- ☐ Text message
- ☐ Phone call
- ☐ Social media message
- ☐ Online message
- ☐ Message seen on television
- ☒ Emergency alerts
- ☐ Contact from family or friends

21. What was the *content* of the message(s) that motivated you to take this action to mitigate the negative health impacts of wildfire smoke? [Check all that apply]

- ☐ A short message warning about the risk (1 line of text)
- ☒ A short message warning about the risk that included health or other statistics
- ☐ A short statement (roughly 1 paragraph)
- ☐ A visual infographic or picture
- ☐ An online Q&A session (Facebook Live or Instagram Live)
- ☐ A video
- ☐ A conversation (either online, via phone, or in person)

22. When would receiving a smoke warning message be most likely to impact your decision to limit or avoid outdoor activities *that same day*?

- ☐ I would prefer to know the day before
- ☒ Early morning (before 9 AM)
- ☐ Late morning (9 AM – noon)
- ☐ Afternoon (Noon – 5 PM)
- ☐ Evening (5 PM or later)

23. Will you take preventive actions to reduce smoke-related health impacts in the future?

- ☐ Yes – Please list the actions you might take \_\_\_\_\_
- ☐ No
- ☒ Not sure

## NATURAL HAZARD QUESTIONS

24. Do you consider wildfire smoke events a natural hazard?

- ☐ Yes  
☐ No  
☒ Not sure

25. As a public health threat, are wildfire smoke events more important, less important, or about as important as other natural disasters, such as hurricanes or tornadoes?

- ☐ Much less severe/important  
☐ Somewhat less severe/important  
☒ About as severe/important  
☐ Somewhat more severe/important  
☐ Much more severe/important

26. Would you consider evacuating your home only because of the wildfire smoke?

- ☐ Yes, I have done this in the past.  
☒ Yes, I would consider it  
☐ No  
☐ Prefer not to answer

## HEALTH QUESTIONS

27. Have you, or anyone in your household, experienced wildfire smoke-related illness?

- ☐ Yes  
☒ No  
☐ Not sure

28. Did you have any of the following symptoms during or a few days after one of the smoke events in the summer of 2018 in the Boise area / Treasure Valley? [Check all that apply]

- ☐ Wheezing or whistling in the chest  
☐ Itchy or watery eyes  
☐ Irritated eyes  
☐ Sneezing or a runny or blocked nose  
☐ Dry irritated nose / sinuses  
☒ A sore or irritated throat  
☐ A cold  
☐ A dry cough at night  
☐ A dry cough first thing in the morning  
☐ A dry cough at other times of the day  
☐ A wet cough (congestion in the chest or phlegm production)  
☐ Bronchitis  
☐ An asthma attack  
☐ Headaches  
☐ Fatigue

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29. Did you use/do any of the following to help with any symptoms during the smoke event? [Check all that apply]

- ☐ Take medication
- ☐ Wear a mask to protect your lungs
- ☐ Take long showers
- ☐ Visit a doctor or nurse
- ☐ Visit a doctor's office for asthma or smoke-related lung issues
- ☐ Use a personal air filtration system in your home or office
- ☐ Go to buildings that have air filtration systems like the mall or public library
- ☐ Miss work due to health problems

Date:

Survey location:

**DEMOGRAPHIC DATA**

If you are uncomfortable answering any of these questions, you may leave them blank.

1. Do you consent to participate in this research study?  
☒ Yes  
☐ No – If you do not consent to participate, please do not complete this survey
2. What is your age?  
Fill in the blank 47
3. Which gender do you identify with?  
☐ A woman  
☒ A man  
☐ Other \_\_\_\_\_
4. What racial or ethnic group best describes you?  
☒ White / Caucasian *European Decent There is no such thing as white*  
☐ Hispanic or Latino  
☐ Black or African American  
☐ Native American / American Indian or Alaskan Native  
☐ Asian / Pacific Islander  
☐ Other \_\_\_\_\_
5. What is the ZIP Code where you currently live?  
Fill in the blank 83704
6. What is the highest degree or level of school you completed? If currently enrolled, highest degree received.  
☐ 8th grade or less  
☐ Some high school, no diploma  
☐ High school graduate, diploma or GED  
☐ Some college, no degree  
☐ Associates degree  
☐ Bachelor's degree  
☐ Master's degree  
☒ Ph.D, M.D., J.D. or similar
7. What is your total household income, including income from all members of your family, in 2017 before taxes? This figure should include salaries, wages, pensions, dividends, interest, and all other income.  
☐ \$25,000 or less  
☐ \$25,000 to \$49,999  
☐ \$50,000 to \$74,999  
☐ \$75,000 to \$99,999  
☒ \$100,000 or more

## ACTIVITY DATA

8. Would you say that in general your health is:

- ☐ Excellent
- ☒ Good
- ☐ Fair
- ☐ Poor

9. During summer of 2018, have you engaged in any outdoor activities, such as hiking, biking, fishing, gardening, running, or any other outdoor activity?

- ☒ Yes – Please list the activities
- ☐ No (skip to question 11)

*swimming Hiking Biking Rafting*  
*gardening whitewater kayaking*

10. During the summer of 2018, how often would you say you've engaged in the outdoor activities you've listed above?

- ☒ Daily
- ☐ A few times per week
- ☐ Once per week
- ☐ Less than once per week, but more than once per month
- ☐ Rarely – A few times during the summer
- ☐ Never

## AIR QUALITY NOTIFICATION

11. During the summer of 2018, have you ever received an air quality notification message suggesting you avoid outside activity?

- ☒ Yes
- ☐ No

12. Do you ever seek out information related to wildfire and smoke notifications?

- ☒ a. Yes
- ☐ b. No (if you answered no to both questions 11 and 12, please skip to question 15)

13. Which source do you use to find wildfire smoke notifications? [Check all that apply]

- ☒ Social media (like Facebook, Instagram, Twitter)
- ☐ Television
- ☒ Online news sources
- ☐ Newspapers
- ☐ Friends or Family
- ☒ Personal observation
- ☒ State agencies such as Department of Environmental Quality website
- ☐ Idaho Smoke Information Blog
- ☐ Federal sources such as AIRnow.gov website
- ☐ Dynamic road sign displays (such as the signs on I-184 or I-84)
- ☐ Other \_\_\_\_\_

*not as reliable in my opinion*



14. In a smoky week in summer 2018, about how many days did you look online (either on a computer, tablet, or smartphone) for smoke-related information, such as air quality, smoke forecasts, or health notices?

- ☐ 0 days
- ☐ 1 days
- ☐ 2 days
- ☐ 3 days
- ☐ 4-5 days
- ☐ 6-7 days.

☒ daily

15. During summer of 2018, did you *ever* reduce your outside activities due to wildfire smoke?

- ☒ Yes
- ☐ No
- ☐ Not applicable

16. During summer of 2018, think of the *longest* period of consecutive days you reduced or eliminated your outdoor activities due to a smoke event. How many consecutive days did you reduce or eliminate activity?

- ☐ 0 days
- ☐ 1 to 2 days
- ☐ 3 days
- ☐ 4 days
- ☐ 5 days
- ☐ 6 days and more

17. What is the *minimum* air quality index rating that would cause you to reduce your outdoor activity on a particular day?

- ☐ Green – Good
- ☐ Yellow – Moderate
- ☐ Orange – Unhealthy for Sensitive Groups
- ☐ Red – Unhealthy
- ☒ Purple – Very Unhealthy
- ☒ Maroon – Hazardous
- ☐ I am not familiar with this rating

or 7/8 depends

18. What is the *minimum* air quality index rating that would cause you to eliminate your outdoor activity on a particular day?

- ☐ Green – Good
- ☐ Yellow – Moderate
- ☐ Orange – Unhealthy for Sensitive Groups
- ☐ Red – Unhealthy
- ☐ Purple – Very Unhealthy
- ☐ Maroon – Hazardous
- ☐ I am not familiar with this rating

If I gotta do it a wet bandana and I do it.

19. If you decided to limit your outdoor activity during a smoke event, what type of information motivated your decision to do so? [Check all that apply]

- ☐ Smoke-related health problem statistics
- ☐ Air quality information
- ☐ Smoke forecasts
- ☐ Your own visual observation (seeing the smoke outside)
- ☐ Wildfire information
- ☐ Advice from your doctor
- ☐ Advice from family and friends

me → ~~no~~ my throat has been raw since 2 days after it started.

20. What type of message could motivate / motivated you to take action to mitigate the risk of issues related to wildfire smoke, such as staying indoors or leaving the area? [Check all that apply]

- ☒ Text message
- ☐ Phone call
- ☒ Social media message
- ☒ Online message
- ☐ Message seen on television
- ☒ Emergency alerts
- ☒ Contact from family or friends

21. What was the *content* of the message(s) that motivated you to take this action to mitigate the negative health impacts of wildfire smoke? [Check all that apply]

- ☐ A short message warning about the risk (1 line of text)
- ☐ A short message warning about the risk that included health or other statistics
- ☐ A short statement (roughly 1 paragraph)
- ☐ A visual infographic or picture
- ☐ An online Q&A session (Facebook Live or Instagram Live)
- ☐ A video
- ☐ A conversation (either online, via phone, or in person)

myself when my throat hurt... Bad!

22. When would receiving a smoke warning message be most likely to impact your decision to limit or avoid outdoor activities *that same day*?

- ☒ I would prefer to know the day before
- ☒ Early morning (before 9 AM)
- ☐ Late morning (9 AM – noon)
- ☐ Afternoon (Noon – 5 PM)
- ☐ Evening (5 PM or later)

23. Will you take preventive actions to reduce smoke-related health impacts in the future?

- ☒ Yes – Please list the actions you might take Bring wet bandana
- ☐ No
- ☐ Not sure

## NATURAL HAZARD QUESTIONS

24. Do you consider wildfire smoke events a natural hazard?

- ☐ Yes  
☒ No  
☐ Not sure

*Human caused mainly,*

25. As a public health threat, are wildfire smoke events more important, less important, or about as important as other natural disasters, such as hurricanes or tornadoes?

- ☐ Much less severe/important  
☐ Somewhat less severe/important  
☐ About as severe/important  
☐ Somewhat more severe/important  
☒ Much more severe/important

*Global warming is human caused  
 we did it! we need to fix it*

26. Would you consider evacuating your home only because of the wildfire smoke?

- ☐ Yes, I have done this in the past.  
☐ Yes, I would consider it  
☒ No  
☐ Prefer not to answer

## HEALTH QUESTIONS

27. Have you, or anyone in your household, experienced wildfire smoke-related illness?

- ☒ Yes  
☐ No  
☐ Not sure

28. Did you have any of the following symptoms during or a few days after one of the smoke events in the summer of 2018 in the Boise area / Treasure Valley? [Check all that apply]

- ☒ Wheezing or whistling in the chest  
☒ Itchy or watery eyes  
☒ Irritated eyes  
☒ Sneezing or a runny or blocked nose  
☒ Dry irritated nose / sinuses  
☒ A sore or irritated throat  
☐ A cold  
☒ A dry cough at night  
☒ A dry cough first thing in the morning  
☒ A dry cough at other times of the day  
☐ A wet cough (congestion in the chest or phlegm production)  
☐ Bronchitis  
☐ An asthma attack  
☒ Headaches  
☒ Fatigue

29. Did you use/do any of the following to help with any symptoms during the smoke event? [Check all that apply]

- ☒ Take medication
- ☒ Wear a mask to protect your lungs
- ☒ Take long showers
- ☐ Visit a doctor or nurse
- ☐ Visit a doctor's office for asthma or smoke-related lung issues
- ☐ Use a personal air filtration system in your home or office
- ☐ Go to buildings that have air filtration systems like the mall or public library
- ☐ Miss work due to health problems

Date: 9/6/18  
Survey location:

### DEMOGRAPHIC DATA

If you are uncomfortable answering any of these questions, you may leave them blank.

1. Do you consent to participate in this research study?  
☒ Yes  
☐ No – If you do not consent to participate, please do not complete this survey
2. What is your age?  
Fill in the blank 47
3. Which gender do you identify with?  
☐ A woman  
☒ A man  
☐ Other \_\_\_\_\_
4. What racial or ethnic group best describes you?  
☒ White / Caucasian  
☐ Hispanic or Latino  
☐ Black or African American  
☐ Native American / American Indian or Alaskan Native  
☐ Asian / Pacific Islander  
☐ Other \_\_\_\_\_
5. What is the ZIP Code where you currently live?  
Fill in the blank 83714
6. What is the highest degree or level of school you completed? If currently enrolled, highest degree received.  
☐ 8th grade or less  
☐ Some high school, no diploma  
☐ High school graduate, diploma or GED  
☐ Some college, no degree  
☐ Associates degree  
☐ Bachelor's degree  
☒ Master's degree  
☐ Ph.D, M.D., J.D. or similar
7. What is your total household income, including income from all members of your family, in 2017 before taxes? This figure should include salaries, wages, pensions, dividends, interest, and all other income.  
☐ \$25,000 or less  
☐ \$25,000 to \$49,999  
☐ \$50,000 to \$74,999  
☐ \$75,000 to \$99,999  
☒ \$100,000 or more

## ACTIVITY DATA

8. Would you say that in general your health is:

- ☐ Excellent
- ☒ Good
- ☐ Fair
- ☐ Poor

9. During summer of 2018, have you engaged in any outdoor activities, such as hiking, biking, fishing, gardening, running, or any other outdoor activity?

- ☒ Yes – Please list the activities Swimming, walking
- ☐ No (skip to question 11)

10. During the summer of 2018, how often would you say you've engaged in the outdoor activities you've listed above?

- ☐ Daily
- ☒ A few times per week
- ☒ Once per week
- ☐ Less than once per week, but more than once per month
- ☐ Rarely – A few times during the summer
- ☐ Never

## AIR QUALITY NOTIFICATION

11. During the summer of 2018, have you ever received an air quality notification message suggesting you avoid outside activity?

- ☒ Yes
- ☐ No

12. Do you ever seek out information related to wildfire and smoke notifications?

- ☒ a. Yes
- ☐ b. No (if you answered no to both questions 11 and 12, please skip to question 15)

13. Which source do you use to find wildfire smoke notifications? [Check all that apply]

- ☒ Social media (like Facebook, Instagram, Twitter)
- ☒ Television
- ☒ Online news sources
- ☐ Newspapers
- ☒ Friends or Family
- ☒ Personal observation
- ☐ State agencies such as Department of Environmental Quality website
- ☐ Idaho Smoke Information Blog
- ☒ Federal sources such as AIRnow.gov website
- ☐ Dynamic road sign displays (such as the signs on I-184 or I-84)
- ☐ Other \_\_\_\_\_

14. In a smoky week in summer 2018, about how many days did you look online (either on a computer, tablet, or smartphone) for smoke-related information, such as air quality, smoke forecasts, or health notices?

- ☐ 0 days
- ☒ 1 days
- ☐ 2 days
- ☐ 3 days
- ☐ 4-5 days
- ☐ 6-7 days.

15. During summer of 2018, did you *ever* reduce your outside activities due to wildfire smoke?

- ☒ Yes
- ☐ No
- ☐ Not applicable

16. During summer of 2018, think of the *longest* period of consecutive days you reduced or eliminated your outdoor activities due to a smoke event. How many consecutive days did you reduce or eliminate activity?

- ☐ 0 days
- ☐ 1 to 2 days
- ☐ 3 days
- ☐ 4 days
- ☐ 5 days
- ☒ 6 days and more

17. What is the *minimum* air quality index rating that would cause you to reduce your outdoor activity on a particular day?

- ☐ Green – Good
- ☐ Yellow – Moderate
- ☒ Orange – Unhealthy for Sensitive Groups
- ☐ Red – Unhealthy
- ☐ Purple – Very Unhealthy
- ☐ Maroon – Hazardous
- ☐ I am not familiar with this rating

18. What is the *minimum* air quality index rating that would cause you to eliminate your outdoor activity on a particular day?

- ☐ Green – Good
- ☐ Yellow – Moderate
- ☐ Orange – Unhealthy for Sensitive Groups
- ☒ Red – Unhealthy
- ☐ Purple – Very Unhealthy
- ☐ Maroon – Hazardous
- ☐ I am not familiar with this rating

19. If you decided to limit your outdoor activity during a smoke event, what type of information motivated your decision to do so? [Check all that apply]

- ☐ Smoke-related health problem statistics
- ☒ Air quality information
- ☒ Smoke forecasts
- ☒ Your own visual observation (seeing the smoke outside)
- ☐ Wildfire information
- ☐ Advice from your doctor
- ☐ Advice from family and friends

20. What type of message could motivate / motivated you to take action to mitigate the risk of issues related to wildfire smoke, such as staying indoors or leaving the area? [Check all that apply]

- ☐ Text message
- ☐ Phone call
- ☐ Social media message
- ☒ Online message
- ☒ Message seen on television
- ☒ Emergency alerts
- ☒ Contact from family or friends

21. What was the *content* of the message(s) that motivated you to take this action to mitigate the negative health impacts of wildfire smoke? [Check all that apply]

- ☒ A short message warning about the risk (1 line of text)
- ☐ A short message warning about the risk that included health or other statistics
- ☐ A short statement (roughly 1 paragraph)
- ☐ A visual infographic or picture
- ☐ An online Q&A session (Facebook Live or Instagram Live)
- ☐ A video
- ☐ A conversation (either online, via phone, or in person)

22. When would receiving a smoke warning message be most likely to impact your decision to limit or avoid outdoor activities *that same day*?

- ☒ I would prefer to know the day before
- ☐ Early morning (before 9 AM)
- ☐ Late morning (9 AM – noon)
- ☐ Afternoon (Noon – 5 PM)
- ☐ Evening (5 PM or later)

23. Will you take preventive actions to reduce smoke-related health impacts in the future?

- ☒ Yes – Please list the actions you might take
- ☐ No
- ☐ Not sure

*Decrease @ Gump*  
*Watch for warning*



## NATURAL HAZARD QUESTIONS

24. Do you consider wildfire smoke events a natural hazard?

- ☒ Yes
- ☐ No
- ☐ Not sure

25. As a public health threat, are wildfire smoke events more important, less important, or about as important as other natural disasters, such as hurricanes or tornadoes?

- ☒ Much less severe/important
- ☐ Somewhat less severe/important
- ☐ About as severe/important
- ☐ Somewhat more severe/important
- ☐ Much more severe/important

26. Would you consider evacuating your home only because of the wildfire smoke?

- ☐ Yes, I have done this in the past.
- ☒ Yes, I would consider it
- ☐ No
- ☐ Prefer not to answer

## HEALTH QUESTIONS

27. Have you, or anyone in your household, experienced wildfire smoke-related illness?

- ☐ Yes
- ☒ No
- ☐ Not sure

28. Did you have any of the following symptoms during or a few days after one of the smoke events in the summer of 2018 in the Boise area / Treasure Valley? [Check all that apply]

- ☐ Wheezing or whistling in the chest
- ☒ Itchy or watery eyes
- ☒ Irritated eyes
- ☒ Sneezing or a runny or blocked nose
- ☒ Dry irritated nose / sinuses
- ☐ A sore or irritated throat
- ☒ A cold
- ☒ A dry cough at night
- ☐ A dry cough first thing in the morning
- ☐ A dry cough at other times of the day
- ☐ A wet cough (congestion in the chest or phlegm production)
- ☐ Bronchitis
- ☐ An asthma attack
- ☐ Headaches
- ☒ Fatigue

29. Did you use/do any of the following to help with any symptoms during the smoke event? [Check all that apply]

N/A

- ☐ Take medication
- ☐ Wear a mask to protect your lungs
- ☐ Take long showers
- ☐ Visit a doctor or nurse
- ☐ Visit a doctor's office for asthma or smoke-related lung issues
- ☐ Use a personal air filtration system in your home or office
- ☐ Go to buildings that have air filtration systems like the mall or public library
- ☐ Miss work due to health problems

Date:

Survey location:

**DEMOGRAPHIC DATA**

If you are uncomfortable answering any of these questions, you may leave them blank.

1. Do you consent to participate in this research study?  
☒ Yes  
☐ No – If you do not consent to participate, please do not complete this survey
2. What is your age?  
Fill in the blank 38
3. Which gender do you identify with?  
☒ A woman  
☐ A man  
☐ Other \_\_\_\_\_
4. What racial or ethnic group best describes you?  
☒ White / Caucasian  
☐ Hispanic or Latino  
☐ Black or African American  
☐ Native American / American Indian or Alaskan Native  
☐ Asian / Pacific Islander  
☐ Other \_\_\_\_\_
5. What is the ZIP Code where you currently live?  
Fill in the blank 83702
6. What is the highest degree or level of school you completed? If currently enrolled, highest degree received.  
☐ 8th grade or less  
☐ Some high school, no diploma  
☐ High school graduate, diploma or GED  
☐ Some college, no degree  
☐ Associates degree  
☒ Bachelor's degree  
☐ Master's degree  
☐ Ph.D, M.D., J.D. or similar
7. What is your total household income, including income from all members of your family, in 2017 before taxes? This figure should include salaries, wages, pensions, dividends, interest, and all other income.  
☐ \$25,000 or less  
☐ \$25,000 to \$49,999  
☐ \$50,000 to \$74,999  
☐ \$75,000 to \$99,999  
☒ \$100,000 or more

## ACTIVITY DATA

8. Would you say that in general your health is:
- ☒ Excellent
  - ☐ Good
  - ☐ Fair
  - ☐ Poor
9. During summer of 2018, have you engaged in any outdoor activities, such as hiking, biking, fishing, gardening, running, or any other outdoor activity?
- ☒ Yes – Please list the activities camping, walking
  - ☐ No (skip to question 11)
10. During the summer of 2018, how often would you say you've engaged in the outdoor activities you've listed above?
- ☒ Daily
  - ☐ A few times per week
  - ☐ Once per week
  - ☐ Less than once per week, but more than once per month
  - ☐ Rarely – A few times during the summer
  - ☐ Never

## AIR QUALITY NOTIFICATION

11. During the summer of 2018, have you ever received an air quality notification message suggesting you avoid outside activity?
- ☐ Yes
  - ☒ No
12. Do you ever seek out information related to wildfire and smoke notifications?
- ☒ a. Yes
  - ☐ b. No (if you answered no to both questions 11 and 12, please skip to question 15)
13. Which source do you use to find wildfire smoke notifications? [Check all that apply]
- ☒ Social media (like Facebook, Instagram, Twitter)
  - ☐ Television
  - ☒ Online news sources
  - ☐ Newspapers
  - ☐ Friends or Family
  - ☒ Personal observation
  - ☒ State agencies such as Department of Environmental Quality website
  - ☒ Idaho Smoke Information Blog
  - ☒ Federal sources such as AIRnow.gov website
  - ☐ Dynamic road sign displays (such as the signs on I-184 or I-84)
  - ☐ Other \_\_\_\_\_

14. In a smoky week in summer 2018, about how many days did you look online (either on a computer, tablet, or smartphone) for smoke-related information, such as air quality, smoke forecasts, or health notices?

- ☐ 0 days
- ☐ 1 days
- ☒ 2 days
- ☐ 3 days
- ☐ 4-5 days
- ☐ 6-7 days.

15. During summer of 2018, did you *ever* reduce your outside activities due to wildfire smoke?

- ☒ Yes
- ☐ No
- ☐ Not applicable

16. During summer of 2018, think of the *longest* period of consecutive days you reduced or eliminated your outdoor activities due to a smoke event. How many consecutive days did you reduce or eliminate activity?

- ☐ 0 days
- ☒ 1 to 2 days
- ☐ 3 days
- ☐ 4 days
- ☐ 5 days
- ☐ 6 days and more

17. What is the *minimum* air quality index rating that would cause you to reduce your outdoor activity on a particular day?

- ☐ Green – Good
- ☒ Yellow – Moderate
- ☐ Orange – Unhealthy for Sensitive Groups
- ☐ Red – Unhealthy
- ☐ Purple – Very Unhealthy
- ☐ Maroon – Hazardous
- ☐ I am not familiar with this rating

18. What is the *minimum* air quality index rating that would cause you to eliminate your outdoor activity on a particular day?

- ☐ Green – Good
- ☐ Yellow – Moderate
- ☒ Orange – Unhealthy for Sensitive Groups
- ☐ Red – Unhealthy
- ☐ Purple – Very Unhealthy
- ☐ Maroon – Hazardous
- ☐ I am not familiar with this rating

19. If you decided to limit your outdoor activity during a smoke event, what type of information motivated your decision to do so? [Check all that apply]

- ☐ Smoke-related health problem statistics
- ☐ Air quality information
- ☐ Smoke forecasts
- ☒ Your own visual observation (seeing the smoke outside)
- ☐ Wildfire information
- ☐ Advice from your doctor
- ☐ Advice from family and friends

20. What type of message could motivate / motivated you to take action to mitigate the risk of issues related to wildfire smoke, such as staying indoors or leaving the area? [Check all that apply]

- ☒ Text message
- ☐ Phone call
- ☐ Social media message
- ☐ Online message
- ☐ Message seen on television
- ☐ Emergency alerts
- ☐ Contact from family or friends

21. What was the *content* of the message(s) that motivated you to take this action to mitigate the negative health impacts of wildfire smoke? [Check all that apply]

- ☐ A short message warning about the risk (1 line of text)
- ☐ A short message warning about the risk that included health or other statistics
- ☐ A short statement (roughly 1 paragraph)
- ☒ A visual infographic or picture
- ☐ An online Q&A session (Facebook Live or Instagram Live)
- ☐ A video
- ☐ A conversation (either online, via phone, or in person)

22. When would receiving a smoke warning message be most likely to impact your decision to limit or avoid outdoor activities *that same day*?

- ☐ I would prefer to know the day before
- ☐ Early morning (before 9 AM)
- ☒ Late morning (9 AM – noon)
- ☐ Afternoon (Noon – 5 PM)
- ☐ Evening (5 PM or later)

23. Will you take preventive actions to reduce smoke-related health impacts in the future?

- ☐ Yes – Please list the actions you might take \_\_\_\_\_
- ☐ No
- ☒ Not sure

## NATURAL HAZARD QUESTIONS

24. Do you consider wildfire smoke events a natural hazard?

- ☒ Yes
- ☐ No
- ☐ Not sure

25. As a public health threat, are wildfire smoke events more important, less important, or about as important as other natural disasters, such as hurricanes or tornadoes?

- ☐ Much less severe/important
- ☐ Somewhat less severe/important
- ☒ About as severe/important
- ☐ Somewhat more severe/important
- ☐ Much more severe/important

26. Would you consider evacuating your home only because of the wildfire smoke?

- ☐ Yes, I have done this in the past.
- ☐ Yes, I would consider it
- ☒ No
- ☐ Prefer not to answer

## HEALTH QUESTIONS

27. Have you, or anyone in your household, experienced wildfire smoke-related illness?

- ☐ Yes
- ☒ No
- ☐ Not sure

28. Did you have any of the following symptoms during or a few days after one of the smoke events in the summer of 2018 in the Boise area / Treasure Valley? [Check all that apply]

- ☒ Wheezing or whistling in the chest
- ☐ Itchy or watery eyes
- ☒ Irritated eyes
- ☐ Sneezing or a runny or blocked nose
- ☒ Dry irritated nose / sinuses
- ☐ A sore or irritated throat
- ☒ A cold
- ☒ A dry cough at night
- ☐ A dry cough first thing in the morning
- ☒ A dry cough at other times of the day
- ☐ A wet cough (congestion in the chest or phlegm production)
- ☐ Bronchitis
- ☐ An asthma attack
- ☒ Headaches
- ☒ Fatigue

---

29. Did you use/do any of the following to help with any symptoms during the smoke event? [Check all that apply]

- ☐ Take medication
- ☐ Wear a mask to protect your lungs
- ☒ Take long showers
- ☐ Visit a doctor or nurse
- ☐ Visit a doctor's office for asthma or smoke-related lung issues
- ☐ Use a personal air filtration system in your home or office
- ☐ Go to buildings that have air filtration systems like the mall or public library
- ☐ Miss work due to health problems



Date: 9-6-18  
Survey location: QUINNS pond

### DEMOGRAPHIC DATA

If you are uncomfortable answering any of these questions, you may leave them blank.

1. Do you consent to participate in this research study?  
☒ Yes  
☐ No – If you do not consent to participate, please do not complete this survey
2. What is your age?  
Fill in the blank 27
3. Which gender do you identify with?  
☒ A woman  
☐ A man  
☐ Other \_\_\_\_\_
4. What racial or ethnic group best describes you?  
☒ White / Caucasian  
☐ Hispanic or Latino  
☐ Black or African American  
☐ Native American / American Indian or Alaskan Native  
☐ Asian / Pacific Islander  
☐ Other \_\_\_\_\_
5. What is the ZIP Code where you currently live?  
Fill in the blank 83705
6. What is the highest degree or level of school you completed? If currently enrolled, highest degree received.  
☐ 8th grade or less  
☐ Some high school, no diploma  
☐ High school graduate, diploma or GED  
☐ Some college, no degree  
☒ Associates degree  
☐ Bachelor's degree  
☐ Master's degree  
☐ Ph.D, M.D., J.D. or similar
7. What is your total household income, including income from all members of your family, in 2017 before taxes? This figure should include salaries, wages, pensions, dividends, interest, and all other income.  
☐ \$25,000 or less  
☒ \$25,000 to \$49,999  
☐ \$50,000 to \$74,999  
☐ \$75,000 to \$99,999  
☐ \$100,000 or more

## ACTIVITY DATA

8. Would you say that in general your health is:

- ☒ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

9. ~~During summer of 2018, have you engaged in any outdoor activities, such as hiking, biking, fishing, gardening, running, or any other outdoor activity?~~

- ☒ Yes – Please list the activities kayaking
- ☐ No (skip to question 11)

10. During the summer of 2018, how often would you say you've engaged in the outdoor activities you've listed above?

- ☐ ~~Daily~~
- ☒ A few times per week
- ☐ Once per week
- ☐ Less than once per week, but more than once per month
- ☐ Rarely – A few times during the summer
- ☐ Never

## AIR QUALITY NOTIFICATION

11. During the summer of 2018, have you ever received an air quality notification message suggesting you avoid outside activity?

- ☐ Yes
- ☒ No

12. Do you ever seek out information related to wildfire and smoke notifications?

- ☐ a. Yes
- ☒ b. No (if you answered no to both questions 11 and 12, please skip to question 15)

13. Which source do you use to find wildfire smoke notifications? [Check all that apply]

- ☐ Social media (like Facebook, Instagram, Twitter)
- ☐ Television
- ☐ Online news sources
- ☐ Newspapers
- ☒ Friends or Family
- ☒ Personal observation
- ☐ State agencies such as Department of Environmental Quality website
- ☐ Idaho Smoke Information Blog
- ☐ Federal sources such as AIRnow.gov website
- ☐ Dynamic road sign displays (such as the signs on I-184 or I-84)
- ☐ Other \_\_\_\_\_

14. In a smoky week in summer 2018, about how many days did you look online (either on a computer, tablet, or smartphone) for smoke-related information, such as air quality, smoke forecasts, or health notices?

- ☒ 0 days  
☐ 1 days  
☐ 2 days  
☐ 3 days  
☐ 4-5 days  
☐ 6-7 days.

15. During summer of 2018, did you *ever* reduce your outside activities due to wildfire smoke?

- ☐ Yes  
☒ No  
☐ Not applicable

16. During summer of 2018, think of the *longest* period of consecutive days you reduced or eliminated your outdoor activities due to a smoke event. How many consecutive days did you reduce or eliminate activity?

- ☒ 0 days  
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- ☐ Green – Good  
☐ Yellow – Moderate  
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☐ Red – Unhealthy  
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18. What is the *minimum* air quality index rating that would cause you to eliminate your outdoor activity on a particular day?

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19. If you decided to limit your outdoor activity during a smoke event, what type of information motivated your decision to do so? [Check all that apply]

- ☐ Smoke-related health problem statistics
- ☒ Air quality information
- ☐ Smoke forecasts
- ☒ Your own visual observation (seeing the smoke outside)
- ☐ Wildfire information
- ☒ Advice from your doctor
- ☒ Advice from family and friends

20. What type of message could motivate / motivated you to take action to mitigate the risk of issues related to wildfire smoke, such as staying indoors or leaving the area? [Check all that apply]

- ☒ Text message
- ☐ Phone call
- ☐ Social media message
- ☐ Online message
- ☐ Message seen on television
- ☐ Emergency alerts
- ☒ Contact from family or friends

21. What was the *content* of the message(s) that motivated you to take this action to mitigate the negative health impacts of wildfire smoke? [Check all that apply]

- ☒ A short message warning about the risk (1 line of text)
- ☐ A short message warning about the risk that included health or other statistics
- ☐ A short statement (roughly 1 paragraph)
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- ☒ Late morning (9 AM – noon)
- ☐ Afternoon (Noon – 5 PM)
- ☐ Evening (5 PM or later)

23. Will you take preventive actions to reduce smoke-related health impacts in the future?

- ☒ Yes – Please list the actions you might take \_\_\_\_\_
- ☐ No
- ☐ Not sure

## NATURAL HAZARD QUESTIONS

24. Do you consider wildfire smoke events a natural hazard?

- ☒ Yes  
☐ No  
☐ Not sure

25. As a public health threat, are wildfire smoke events more important, less important, or about as important as other natural disasters, such as hurricanes or tornadoes?

- ☐ Much less severe/important  
☐ Somewhat less severe/important  
☒ About as severe/important  
☐ Somewhat more severe/important  
☐ Much more severe/important

26. Would you consider evacuating your home only because of the wildfire smoke?

- ☐ Yes, I have done this in the past.  
☐ Yes, I would consider it  
☒ No  
☐ Prefer not to answer

## HEALTH QUESTIONS

27. Have you, or anyone in your household, experienced wildfire smoke-related illness?

- ☐ Yes  
☒ No  
☐ Not sure

28. Did you have any of the following symptoms during or a few days after one of the smoke events in the summer of 2018 in the Boise area / Treasure Valley? [Check all that apply]

- ☐ Wheezing or whistling in the chest  
☐ Itchy or watery eyes  
☐ Irritated eyes  
☐ Sneezing or a runny or blocked nose  
☐ Dry irritated nose / sinuses  
☐ A sore or irritated throat  
☐ A cold  
☐ A dry cough at night  
☐ A dry cough first thing in the morning  
☐ A dry cough at other times of the day  
☐ A wet cough (congestion in the chest or phlegm production)  
☐ Bronchitis  
☐ An asthma attack  
☒ Headaches  
☐ Fatigue

29. Did you use/do any of the following to help with any symptoms during the smoke event? [Check all that apply]

- ☒ Take medication
- ☐ Wear a mask to protect your lungs
- ☐ Take long showers
- ☐ Visit a doctor or nurse
- ☐ Visit a doctor's office for asthma or smoke-related lung issues
- ☐ Use a personal air filtration system in your home or office
- ☐ Go to buildings that have air filtration systems like the mall or public library
- ☐ Miss work due to health problems

Date:

9/6/18

Survey location:

**DEMOGRAPHIC DATA**

If you are uncomfortable answering any of these questions, you may leave them blank.

1. Do you consent to participate in this research study?  
☒ Yes  
☐ No – If you do not consent to participate, please do not complete this survey
2. What is your age?  
Fill in the blank 55
3. Which gender do you identify with?  
☐ A woman  
☒ A man  
☐ Other \_\_\_\_\_
4. What racial or ethnic group best describes you?  
☒ White / Caucasian  
☐ Hispanic or Latino  
☐ Black or African American  
☐ Native American / American Indian or Alaskan Native  
☐ Asian / Pacific Islander  
☐ Other \_\_\_\_\_
5. What is the ZIP Code where you currently live?  
Fill in the blank 83704
6. What is the highest degree or level of school you completed? If currently enrolled, highest degree received.  
☐ 8th grade or less  
☐ Some high school, no diploma  
☐ High school graduate, diploma or GED  
☐ Some college, no degree  
☐ Associates degree  
☒ Bachelor's degree  
☐ Master's degree  
☐ Ph.D, M.D., J.D. or similar
7. What is your total household income, including income from all members of your family, in 2017 before taxes? This figure should include salaries, wages, pensions, dividends, interest, and all other income.  
☐ \$25,000 or less  
☐ \$25,000 to \$49,999  
☐ \$50,000 to \$74,999  
☐ \$75,000 to \$99,999  
☒ \$100,000 or more

## ACTIVITY DATA

8. Would you say that in general your health is:
- ☒ Excellent
  - ☐ Good
  - ☐ Fair
  - ☐ Poor
9. During summer of 2018, have you engaged in any outdoor activities, such as hiking, biking, fishing, gardening, running, or any other outdoor activity?
- ☒ Yes – Please list the activities Boating, Hiking, Biking
  - ☐ No (skip to question 11)
10. During the summer of 2018, how often would you say you've engaged in the outdoor activities you've listed above?
- ☒ Daily
  - ☐ A few times per week
  - ☐ Once per week
  - ☐ Less than once per week, but more than once per month
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## AIR QUALITY NOTIFICATION

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- ☐ a. Yes
  - ☒ b. No (if you answered no to both questions 11 and 12, please skip to question 15)
13. Which source do you use to find wildfire smoke notifications? [Check all that apply]
- ☐ Social media (like Facebook, Instagram, Twitter)
  - ☐ Television
  - ☐ Online news sources
  - ☐ Newspapers
  - ☐ Friends or Family
  - ☐ Personal observation
  - ☐ State agencies such as Department of Environmental Quality website
  - ☐ Idaho Smoke Information Blog
  - ☐ Federal sources such as AIRnow.gov website
  - ☐ Dynamic road sign displays (such as the signs on I-184 or I-84)
  - ☐ Other \_\_\_\_\_



14. In a smoky week in summer 2018, about how many days did you look online (either on a computer, tablet, or smartphone) for smoke-related information, such as air quality, smoke forecasts, or health notices?

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- ☐ Purple – Very Unhealthy
- ☐ Maroon – Hazardous
- ☐ I am not familiar with this rating

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- ☐ Orange – Unhealthy for Sensitive Groups
- ☐ Red – Unhealthy
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- ☐ Smoke-related health problem statistics
- ☒ Air quality information
- ☐ Smoke forecasts
- ☐ Your own visual observation (seeing the smoke outside)
- ☐ Wildfire information
- ☐ Advice from your doctor
- ☐ Advice from family and friends

20. What type of message could motivate / motivated you to take action to mitigate the risk of issues related to wildfire smoke, such as staying indoors or leaving the area? [Check all that apply]

- ☐ Text message
- ☐ Phone call
- ☒ Social media message
- ☐ Online message
- ☐ Message seen on television
- ☐ Emergency alerts
- ☐ Contact from family or friends

21. What was the *content* of the message(s) that motivated you to take this action to mitigate the negative health impacts of wildfire smoke? [Check all that apply]

- ☐ A short message warning about the risk (1 line of text)
- ☒ A short message warning about the risk that included health or other statistics
- ☐ A short statement (roughly 1 paragraph)
- ☐ A visual infographic or picture
- ☐ An online Q&A session (Facebook Live or Instagram Live)
- ☐ A video
- ☐ A conversation (either online, via phone, or in person)

22. When would receiving a smoke warning message be most likely to impact your decision to limit or avoid outdoor activities *that same day*?

- ☐ I would prefer to know the day before
- ☒ Early morning (before 9 AM)
- ☐ Late morning (9 AM – noon)
- ☐ Afternoon (Noon – 5 PM)
- ☐ Evening (5 PM or later)

23. Will you take preventive actions to reduce smoke-related health impacts in the future?

- ☐ Yes – Please list the actions you might take \_\_\_\_\_
- ☒ No
- ☐ Not sure

## NATURAL HAZARD QUESTIONS

24. Do you consider wildfire smoke events a natural hazard?

- ☒ Yes
- ☐ No
- ☐ Not sure

25. As a public health threat, are wildfire smoke events more important, less important, or about as important as other natural disasters, such as hurricanes or tornadoes?

- ☒ Much less severe/important
- ☐ Somewhat less severe/important
- ☐ About as severe/important
- ☐ Somewhat more severe/important
- ☐ Much more severe/important

26. Would you consider evacuating your home only because of the wildfire smoke?

- ☐ Yes, I have done this in the past.
- ☐ Yes, I would consider it
- ☒ No
- ☐ Prefer not to answer

## HEALTH QUESTIONS

27. Have you, or anyone in your household, experienced wildfire smoke-related illness?

- ☐ Yes
- ☒ No
- ☐ Not sure

28. Did you have any of the following symptoms during or a few days after one of the smoke events in the summer of 2018 in the Boise area / Treasure Valley? [Check all that apply]

- ☐ Wheezing or whistling in the chest
- ☐ Itchy or watery eyes
- ☒ Irritated eyes
- ☐ Sneezing or a runny or blocked nose
- ☐ Dry irritated nose / sinuses
- ☐ A sore or irritated throat
- ☐ A cold
- ☐ A dry cough at night
- ☐ A dry cough first thing in the morning
- ☐ A dry cough at other times of the day
- ☐ A wet cough (congestion in the chest or phlegm production)
- ☐ Bronchitis
- ☐ An asthma attack
- ☐ Headaches
- ☐ Fatigue

---

29. Did you use/do any of the following to help with any symptoms during the smoke event? [Check all that apply]

- ☐ Take medication
- ☐ Wear a mask to protect your lungs
- ☐ Take long showers
- ☐ Visit a doctor or nurse
- ☐ Visit a doctor's office for asthma or smoke-related lung issues
- ☐ Use a personal air filtration system in your home or office
- ☐ Go to buildings that have air filtration systems like the mall or public library
- ☐ Miss work due to health problems

Date: 9/6/18

Survey location: Quinn's Pond Boise

**DEMOGRAPHIC DATA**

If you are uncomfortable answering any of these questions, you may leave them blank.

1. Do you consent to participate in this research study?  
☒ Yes  
☐ No – If you do not consent to participate, please do not complete this survey
2. What is your age?  
Fill in the blank 3
3. Which gender do you identify with?  
☒ A woman  
☐ A man  
☐ Other \_\_\_\_\_
4. What racial or ethnic group best describes you?  
☒ White / Caucasian  
☐ Hispanic or Latino  
☐ Black or African American  
☐ Native American / American Indian or Alaskan Native  
☐ Asian / Pacific Islander  
☐ Other \_\_\_\_\_
5. What is the ZIP Code where you currently live?  
Fill in the blank 83714
6. What is the highest degree or level of school you completed? If currently enrolled, highest degree received.  
☐ 8th grade or less  
☐ Some high school, no diploma  
☐ High school graduate, diploma or GED  
☐ Some college, no degree  
☐ Associates degree  
☐ Bachelor's degree  
☒ Master's degree  
☐ Ph.D, M.D., J.D. or similar
7. What is your total household income, including income from all members of your family, in 2017 before taxes? This figure should include salaries, wages, pensions, dividends, interest, and all other income.  
☐ \$25,000 or less  
☐ \$25,000 to \$49,999  
☐ \$50,000 to \$74,999  
☐ \$75,000 to \$99,999  
☒ \$100,000 or more

## ACTIVITY DATA

8. Would you say that in general your health is:
- ☒ Excellent
  - ☐ Good
  - ☐ Fair
  - ☐ Poor
9. During summer of 2018, have you engaged in any outdoor activities, such as hiking, biking, fishing, gardening, running, or any other outdoor activity?
- ☒ Yes – Please list the activities swimming, walking
  - ☐ No (skip to question 11)
10. During the summer of 2018, how often would you say you've engaged in the outdoor activities you've listed above?
- ☐ Daily
  - ☐ A few times per week
  - ☒ Once per week
  - ☐ Less than once per week, but more than once per month
  - ☐ Rarely – A few times during the summer
  - ☐ Never

## AIR QUALITY NOTIFICATION

11. During the summer of 2018, have you ever received an air quality notification message suggesting you avoid outside activity?
- ☐ Yes
  - ☒ No
12. Do you ever seek out information related to wildfire and smoke notifications?
- ☒ a. Yes
  - ☐ b. No (if you answered no to both questions 11 and 12, please skip to question 15)
13. Which source do you use to find wildfire smoke notifications? [Check all that apply]
- ☐ Social media (like Facebook, Instagram, Twitter)
  - ☐ Television
  - ☒ Online news sources
  - ☐ Newspapers
  - ☒ Friends or Family
  - ☐ Personal observation
  - ☐ State agencies such as Department of Environmental Quality website
  - ☐ Idaho Smoke Information Blog
  - ☐ Federal sources such as AIRnow.gov website
  - ☐ Dynamic road sign displays (such as the signs on I-184 or I-84)
  - ☐ Other \_\_\_\_\_

14. In a smoky week in summer 2018, about how many days did you look online (either on a computer, tablet, or smartphone) for smoke-related information, such as air quality, smoke forecasts, or health notices?
- ☐ 0 days
  - ☒ 1 days
  - ☐ 2 days
  - ☐ 3 days
  - ☐ 4-5 days
  - ☐ 6-7 days.
15. During summer of 2018, did you *ever* reduce your outside activities due to wildfire smoke?
- ☒ Yes
  - ☐ No
  - ☐ Not applicable
16. During summer of 2018, think of the *longest* period of consecutive days you reduced or eliminated your outdoor activities due to a smoke event. How many consecutive days did you reduce or eliminate activity?
- ☐ 0 days
  - ☐ 1 to 2 days
  - ☐ 3 days
  - ☐ 4 days
  - ☐ 5 days
  - ☒ 6 days and more
17. What is the *minimum* air quality index rating that would cause you to reduce your outdoor activity on a particular day?
- ☐ Green – Good
  - ☐ Yellow – Moderate
  - ☒ Orange – Unhealthy for Sensitive Groups
  - ☐ Red – Unhealthy
  - ☐ Purple – Very Unhealthy
  - ☐ Maroon – Hazardous
  - ☐ I am not familiar with this rating
18. What is the *minimum* air quality index rating that would cause you to eliminate your outdoor activity on a particular day?
- ☐ Green – Good
  - ☐ Yellow – Moderate
  - ☐ Orange – Unhealthy for Sensitive Groups
  - ☒ Red – Unhealthy
  - ☐ Purple – Very Unhealthy
  - ☐ Maroon – Hazardous
  - ☐ I am not familiar with this rating

19. If you decided to limit your outdoor activity during a smoke event, what type of information motivated your decision to do so? [Check all that apply]

- ☐ Smoke-related health problem statistics
- ☒ Air quality information
- ☐ Smoke forecasts
- ☐ Your own visual observation (seeing the smoke outside)
- ☐ Wildfire information
- ☐ Advice from your doctor
- ☒ Advice from family and friends

20. What type of message could motivate / motivated you to take action to mitigate the risk of issues related to wildfire smoke, such as staying indoors or leaving the area? [Check all that apply]

- ☒ Text message
- ☒ Phone call
- ☒ Social media message
- ☒ Online message
- ☒ Message seen on television
- ☒ Emergency alerts
- ☒ Contact from family or friends

21. What was the *content* of the message(s) that motivated you to take this action to mitigate the negative health impacts of wildfire smoke? [Check all that apply]

- ☐ A short message warning about the risk (1 line of text)
- ☐ A short message warning about the risk that included health or other statistics
- ☐ A short statement (roughly 1 paragraph)
- ☒ A visual infographic or picture
- ☐ An online Q&A session (Facebook Live or Instagram Live)
- ☐ A video
- ☒ A conversation (either online, via phone, or in person)

22. When would receiving a smoke warning message be most likely to impact your decision to limit or avoid outdoor activities *that same day*?

- ☐ I would prefer to know the day before
- ☒ Early morning (before 9 AM)
- ☐ Late morning (9 AM – noon)
- ☐ Afternoon (Noon – 5 PM)
- ☐ Evening (5 PM or later)

23. Will you take preventive actions to reduce smoke-related health impacts in the future?

- ☒ Yes – Please list the actions you might take *reduce outdoor activities*  
*install filters*  
*run air purifiers*
- ☐ No
- ☐ Not sure



## NATURAL HAZARD QUESTIONS

24. Do you consider wildfire smoke events a natural hazard?
- ☒ Yes
  - ☐ No
  - ☐ Not sure
25. As a public health threat, are wildfire smoke events more important, less important, or about as important as other natural disasters, such as hurricanes or tornadoes?
- ☐ Much less severe/important
  - ☐ Somewhat less severe/important
  - ☒ About as severe/important
  - ☐ Somewhat more severe/important
  - ☐ Much more severe/important
26. Would you consider evacuating your home only because of the wildfire smoke?
- ☐ Yes, I have done this in the past.
  - ☒ Yes, I would consider it
  - ☐ No
  - ☐ Prefer not to answer

## HEALTH QUESTIONS

27. Have you, or anyone in your household, experienced wildfire smoke-related illness?
- ☐ Yes
  - ☐ No
  - ☒ Not sure
28. Did you have any of the following symptoms during or a few days after one of the smoke events in the summer of 2018 in the Boise area / Treasure Valley? [Check all that apply]
- ☐ Wheezing or whistling in the chest
  - ☒ Itchy or watery eyes
  - ☒ Irritated eyes
  - ☒ Sneezing or a runny or blocked nose
  - ☒ Dry irritated nose / sinuses
  - ☒ A sore or irritated throat
  - ☒ A cold
  - ☐ A dry cough at night
  - ☐ A dry cough first thing in the morning
  - ☐ A dry cough at other times of the day
  - ☐ A wet cough (congestion in the chest or phlegm production)
  - ☐ Bronchitis
  - ☐ An asthma attack
  - ☐ Headaches
  - ☐ Fatigue

---

29. Did you use/do any of the following to help with any symptoms during the smoke event? [Check all that apply]

- ☒ Take medication *allergy*
- ☐ Wear a mask to protect your lungs
- ☒ Take long showers
- ☐ Visit a doctor or nurse
- ☐ Visit a doctor's office for asthma or smoke-related lung issues
- ☒ Use a personal air filtration system in your home or office
- ☐ Go to buildings that have air filtration systems like the mall or public library
- ☐ Miss work due to health problems

Date:

Survey location:

**DEMOGRAPHIC DATA**

If you are uncomfortable answering any of these questions, you may leave them blank.

1. Do you consent to participate in this research study?

☒ Yes☐ No – If you do not consent to participate, please do not complete this survey

2. What is your age?

Fill in the blank 33

3. Which gender do you identify with?

☐ A woman☒ A man☐ Other \_\_\_\_\_

4. What racial or ethnic group best describes you?

☒ White / Caucasian☐ Hispanic or Latino☐ Black or African American☐ Native American / American Indian or Alaskan Native☐ Asian / Pacific Islander☐ Other \_\_\_\_\_

5. What is the ZIP Code where you currently live?

Fill in the blank 83616

6. What is the highest degree or level of school you completed? If currently enrolled, highest degree received.

☐ 8th grade or less☐ Some high school, no diploma☐ High school graduate, diploma or GED☒ Some college, no degree☐ Associates degree☐ Bachelor's degree☐ Master's degree☐ Ph.D, M.D., J.D. or similar

7. What is your total household income, including income from all members of your family, in 2017 before taxes? This figure should include salaries, wages, pensions, dividends, interest, and all other income.

☐ \$25,000 or less☐ \$25,000 to \$49,999☐ \$50,000 to \$74,999☐ \$75,000 to \$99,999☒ \$100,000 or more

## ACTIVITY DATA

8. Would you say that in general your health is:

- ☒ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

9. During summer of 2018, have you engaged in any outdoor activities, such as hiking, biking, fishing, gardening, running, or any other outdoor activity?

- ☒ Yes – Please list the activities Lifeboarding Rafting, Cycling
- ☐ No (skip to question 11)

10. During the summer of 2018, how often would you say you've engaged in the outdoor activities you've listed above?

- ☐ Daily
- ☒ A few times per week
- ☐ Once per week
- ☐ Less than once per week, but more than once per month
- ☐ Rarely – A few times during the summer
- ☐ Never

## AIR QUALITY NOTIFICATION

11. During the summer of 2018, have you ever received an air quality notification message suggesting you avoid outside activity?

- ☐ Yes
- ☒ No

12. Do you ever seek out information related to wildfire and smoke notifications?

- ☐ a. Yes
- ☒ b. No (if you answered no to both questions 11 and 12, please skip to question 15)

13. Which source do you use to find wildfire smoke notifications? [Check all that apply]

- ☐ Social media (like Facebook, Instagram, Twitter)
- ☐ Television
- ☐ Online news sources
- ☐ Newspapers
- ☐ Friends or Family
- ☐ Personal observation
- ☐ State agencies such as Department of Environmental Quality website
- ☐ Idaho Smoke Information Blog
- ☐ Federal sources such as AIRnow.gov website
- ☐ Dynamic road sign displays (such as the signs on I-184 or I-84)
- ☐ Other \_\_\_\_\_

14. In a smoky week in summer 2018, about how many days did you look online (either on a computer, tablet, or smartphone) for smoke-related information, such as air quality, smoke forecasts, or health notices?
- ☐ 0 days
  - ☐ 1 days
  - ☐ 2 days
  - ☐ 3 days
  - ☐ 4-5 days
  - ☐ 6-7 days.
15. During summer of 2018, did you *ever* reduce your outside activities due to wildfire smoke?
- ☐ Yes
  - ☒ No
  - ☐ Not applicable
16. During summer of 2018, think of the *longest* period of consecutive days you reduced or eliminated your outdoor activities due to a smoke event. How many consecutive days did you reduce or eliminate activity?
- ☒ 0 days
  - ☐ 1 to 2 days
  - ☐ 3 days
  - ☐ 4 days
  - ☐ 5 days
  - ☐ 6 days and more
17. What is the *minimum* air quality index rating that would cause you to reduce your outdoor activity on a particular day?
- ☐ Green – Good
  - ☐ Yellow – Moderate
  - ☐ Orange – Unhealthy for Sensitive Groups
  - ☐ Red – Unhealthy
  - ☐ Purple – Very Unhealthy
  - ☐ Maroon – Hazardous
  - ☒ I am not familiar with this rating
18. What is the *minimum* air quality index rating that would cause you to eliminate your outdoor activity on a particular day?
- ☐ Green – Good
  - ☐ Yellow – Moderate
  - ☐ Orange – Unhealthy for Sensitive Groups
  - ☐ Red – Unhealthy
  - ☐ Purple – Very Unhealthy
  - ☐ Maroon – Hazardous
  - ☒ I am not familiar with this rating

19. If you decided to limit your outdoor activity during a smoke event, what type of information motivated your decision to do so? [Check all that apply]

- ☐ Smoke-related health problem statistics
- ☐ Air quality information
- ☐ Smoke forecasts
- ☒ Your own visual observation (seeing the smoke outside)
- ☐ Wildfire information
- ☐ Advice from your doctor
- ☐ Advice from family and friends

20. What type of message could motivate / motivated you to take action to mitigate the risk of issues related to wildfire smoke, such as staying indoors or leaving the area? [Check all that apply]

- ☒ Text message *or alert*
- ☐ Phone call
- ☐ Social media message
- ☐ Online message
- ☐ Message seen on television
- ☐ Emergency alerts
- ☐ Contact from family or friends

21. What was the *content* of the message(s) that motivated you to take this action to mitigate the negative health impacts of wildfire smoke? [Check all that apply]

- ☒ A short message warning about the risk (1 line of text)
- ☐ A short message warning about the risk that included health or other statistics
- ☐ A short statement (roughly 1 paragraph)
- ☐ A visual infographic or picture
- ☐ An online Q&A session (Facebook Live or Instagram Live)
- ☐ A video
- ☐ A conversation (either online, via phone, or in person)

22. When would receiving a smoke warning message be most likely to impact your decision to limit or avoid outdoor activities *that same day*?

- ☒ I would prefer to know the day before
- ☐ Early morning (before 9 AM)
- ☐ Late morning (9 AM – noon)
- ☐ Afternoon (Noon – 5 PM)
- ☐ Evening (5 PM or later)

23. Will you take preventive actions to reduce smoke-related health impacts in the future?

- ☒ Yes – Please list the actions you might take *Reduce exposure*
- ☐ No
- ☐ Not sure

## NATURAL HAZARD QUESTIONS

24. Do you consider wildfire smoke events a natural hazard?

- ☒ Yes
- ☐ No
- ☐ Not sure

25. As a public health threat, are wildfire smoke events more important, less important, or about as important as other natural disasters, such as hurricanes or tornadoes?

- ☐ Much less severe/important
- ☒ Somewhat less severe/important
- ☐ About as severe/important
- ☐ Somewhat more severe/important
- ☐ Much more severe/important

26. Would you consider evacuating your home only because of the wildfire smoke?

- ☐ Yes, I have done this in the past.
- ☐ Yes, I would consider it
- ☒ No
- ☐ Prefer not to answer

## HEALTH QUESTIONS

27. Have you, or anyone in your household, experienced wildfire smoke-related illness?

- ☐ Yes
- ☒ No
- ☐ Not sure

28. Did you have any of the following symptoms during or a few days after one of the smoke events in the summer of 2018 in the Boise area / Treasure Valley? [Check all that apply]

- ☐ Wheezing or whistling in the chest
- ☐ Itchy or watery eyes
- ☐ Irritated eyes
- ☐ Sneezing or a runny or blocked nose
- ☐ Dry irritated nose / sinuses
- ☐ A sore or irritated throat
- ☐ A cold
- ☐ A dry cough at night
- ☐ A dry cough first thing in the morning
- ☐ A dry cough at other times of the day
- ☐ A wet cough (congestion in the chest or phlegm production)
- ☐ Bronchitis
- ☐ An asthma attack
- ☐ Headaches
- ☐ Fatigue

*none*

29. Did you use/do any of the following to help with any symptoms during the smoke event? [Check all that apply]

- ☐ Take medication
- ☐ Wear a mask to protect your lungs
- ☐ Take long showers
- ☐ Visit a doctor or nurse
- ☐ Visit a doctor's office for asthma or smoke-related lung issues
- ☐ Use a personal air filtration system in your home or office
- ☐ Go to buildings that have air filtration systems like the mall or public library
- ☐ Miss work due to health problems

*none*



Date:

Survey location:

**DEMOGRAPHIC DATA**

If you are uncomfortable answering any of these questions, you may leave them blank.

1. Do you consent to participate in this research study?

☒ Yes☐ No – If you do not consent to participate, please do not complete this survey

2. What is your age?

Fill in the blank 20

- 3.. Which gender do you identify with?

☒ A woman☐ A man☐ Other \_\_\_\_\_

4. What racial or ethnic group best describes you?

☒ White / Caucasian☐ Hispanic or Latino☐ Black or African American☐ Native American / American Indian or Alaskan Native☐ Asian / Pacific Islander☐ Other \_\_\_\_\_

5. What is the ZIP Code where you currently live?

Fill in the blank 83704

6. What is the highest degree or level of school you completed? If currently enrolled, highest degree received.

☐ 8th grade or less☐ Some high school, no diploma☒ High school graduate, diploma or GED☐ Some college, no degree☐ Associates degree☐ Bachelor's degree☐ Master's degree☐ Ph.D, M.D., J.D. or similar

7. What is your total household income, including income from all members of your family, in 2017 before taxes? This figure should include salaries, wages, pensions, dividends, interest, and all other income.

☒ \$25,000 or less☐ \$25,000 to \$49,999☐ \$50,000 to \$74,999☐ \$75,000 to \$99,999☐ \$100,000 or more

## ACTIVITY DATA

8. Would you say that in general your health is:

- ☒ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

9. During summer of 2018, have you engaged in any outdoor activities, such as hiking, biking, fishing, gardening, running, or any other outdoor activity?

- ☒ Yes – Please list the activities swimming
- ☐ No (skip to question 11)

10. During the summer of 2018, how often would you say you've engaged in the outdoor activities you've listed above?

- ☐ Daily
- ☒ A few times per week
- ☐ Once per week
- ☐ Less than once per week, but more than once per month
- ☐ Rarely – A few times during the summer
- ☐ Never

## AIR QUALITY NOTIFICATION

11. During the summer of 2018, have you ever received an air quality notification message suggesting you avoid outside activity?

- ☒ Yes
- ☐ No

12. Do you ever seek out information related to wildfire and smoke notifications?

- ☐ a. Yes
- ☒ b. No (if you answered no to both questions 11 and 12, please skip to question 15)

13. Which source do you use to find wildfire smoke notifications? [Check all that apply]

- ☒ Social media (like Facebook, Instagram, Twitter)
- ☐ Television
- ☐ Online news sources
- ☐ Newspapers
- ☒ Friends or Family
- ☒ Personal observation
- ☐ State agencies such as Department of Environmental Quality website
- ☐ Idaho Smoke Information Blog
- ☐ Federal sources such as AIRnow.gov website
- ☐ Dynamic road sign displays (such as the signs on I-184 or I-84)
- ☐ Other Radio

14. In a smoky week in summer 2018, about how many days did you look online (either on a computer, tablet, or smartphone) for smoke-related information, such as air quality, smoke forecasts, or health notices?

- ☒ 0 days
- ☐ 1 days
- ☒ 2 days
- ☐ 3 days
- ☐ 4-5 days
- ☐ 6-7 days.

15. During summer of 2018, did you *ever* reduce your outside activities due to wildfire smoke?

- ☒ Yes
- ☐ No
- ☐ Not applicable

16. During summer of 2018, think of the *longest* period of consecutive days you reduced or eliminated your outdoor activities due to a smoke event. How many consecutive days did you reduce or eliminate activity?

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17. What is the *minimum* air quality index rating that would cause you to reduce your outdoor activity on a particular day?

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- ☒ Orange – Unhealthy for Sensitive Groups
- ☐ Red – Unhealthy
- ☐ Purple – Very Unhealthy
- ☐ Maroon – Hazardous
- ☐ I am not familiar with this rating

18. What is the *minimum* air quality index rating that would cause you to eliminate your outdoor activity on a particular day?

- ☐ Green – Good
- ☐ Yellow – Moderate
- ☐ Orange – Unhealthy for Sensitive Groups
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- ☐ Smoke-related health problem statistics
- ☐ Air quality information
- ☐ Smoke forecasts
- ☐ Your own visual observation (seeing the smoke outside)
- ☐ Wildfire information
- ☐ Advice from your doctor
- ☐ Advice from family and friends

20. What type of message could motivate / motivated you to take action to mitigate the risk of issues related to wildfire smoke, such as staying indoors or leaving the area? [Check all that apply]

- ☐ Text message
- ☐ Phone call
- ☐ Social media message
- ☐ Online message
- ☐ Message seen on television
- ☐ Emergency alerts
- ☐ Contact from family or friends

21. What was the *content* of the message(s) that motivated you to take this action to mitigate the negative health impacts of wildfire smoke? [Check all that apply]

- ☐ A short message warning about the risk (1 line of text)
- ☐ A short message warning about the risk that included health or other statistics
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- ☐ An online Q&A session (Facebook Live or Instagram Live)
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22. When would receiving a smoke warning message be most likely to impact your decision to limit or avoid outdoor activities *that same day*?

- ☐ I would prefer to know the day before
- ☐ Early morning (before 9 AM)
- ☐ Late morning (9 AM – noon)
- ☐ Afternoon (Noon – 5 PM)
- ☐ Evening (5 PM or later)

23. Will you take preventive actions to reduce smoke-related health impacts in the future?

- ☐ Yes – Please list the actions you might take \_\_\_\_\_
- ☐ No
- ☐ Not sure

## NATURAL HAZARD QUESTIONS

24. Do you consider wildfire smoke events a natural hazard?
- ☐ Yes
  - ☐ No
  - ☐ Not sure
25. As a public health threat, are wildfire smoke events more important, less important, or about as important as other natural disasters, such as hurricanes or tornadoes?
- ☐ Much less severe/important
  - ☐ Somewhat less severe/important
  - ☐ About as severe/important
  - ☐ Somewhat more severe/important
  - ☐ Much more severe/important
26. Would you consider evacuating your home only because of the wildfire smoke?
- ☐ Yes, I have done this in the past.
  - ☐ Yes, I would consider it
  - ☐ No
  - ☐ Prefer not to answer

## HEALTH QUESTIONS

27. Have you, or anyone in your household, experienced wildfire smoke-related illness?
- ☐ Yes
  - ☐ No
  - ☐ Not sure
28. Did you have any of the following symptoms during or a few days after one of the smoke events in the summer of 2018 in the Boise area / Treasure Valley? [Check all that apply]
- ☐ Wheezing or whistling in the chest
  - ☐ Itchy or watery eyes
  - ☐ Irritated eyes
  - ☐ Sneezing or a runny or blocked nose
  - ☐ Dry irritated nose / sinuses
  - ☐ A sore or irritated throat
  - ☐ A cold
  - ☐ A dry cough at night
  - ☐ A dry cough first thing in the morning
  - ☐ A dry cough at other times of the day
  - ☐ A wet cough (congestion in the chest or phlegm production)
  - ☐ Bronchitis
  - ☐ An asthma attack
  - ☐ Headaches
  - ☐ Fatigue

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29. Did you use/do any of the following to help with any symptoms during the smoke event? [Check all that apply]

- ☐ Take medication
- ☐ Wear a mask to protect your lungs
- ☐ Take long showers
- ☐ Visit a doctor or nurse
- ☐ Visit a doctor's office for asthma or smoke-related lung issues
- ☐ Use a personal air filtration system in your home or office
- ☐ Go to buildings that have air filtration systems like the mall or public library
- ☐ Miss work due to health problems

Date: 9.10.18

Survey location:

**DEMOGRAPHIC DATA**

If you are uncomfortable answering any of these questions, you may leave them blank.

1. Do you consent to participate in this research study?  
☒ Yes  
☐ No – If you do not consent to participate, please do not complete this survey
2. What is your age?  
Fill in the blank 41
3. Which gender do you identify with?  
☒ A woman  
☐ A man  
☐ Other \_\_\_\_\_
4. What racial or ethnic group best describes you?  
☐ White / Caucasian  
☒ Hispanic or Latino  
☐ Black or African American  
☐ Native American / American Indian or Alaskan Native  
☐ Asian / Pacific Islander  
☐ Other \_\_\_\_\_
5. What is the ZIP Code where you currently live?  
Fill in the blank 93205
6. What is the highest degree or level of school you completed? If currently enrolled, highest degree received.  
☐ 8th grade or less  
☐ Some high school, no diploma  
☐ High school graduate, diploma or GED  
☐ Some college, no degree  
☐ Associates degree  
☒ Bachelor's degree  
☐ Master's degree  
☐ Ph.D, M.D., J.D. or similar
7. What is your total household income, including income from all members of your family, in 2017 before taxes? This figure should include salaries, wages, pensions, dividends, interest, and all other income.  
☐ \$25,000 or less  
☐ \$25,000 to \$49,999  
☐ \$50,000 to \$74,999  
☐ \$75,000 to \$99,999  
☐ \$100,000 or more

## ACTIVITY DATA

8. Would you say that in general your health is:

- ☒ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

9. During summer of 2018, have you engaged in any outdoor activities, such as hiking, biking, fishing, gardening, running, or any other outdoor activity?

- ☒ Yes – Please list the activities mtb, bike, swim, hike, camp
- ☐ No (skip to question 11)

10. During the summer of 2018, how often would you say you've engaged in the outdoor activities you've listed above?

- ☒ Daily
- ☐ A few times per week
- ☐ Once per week
- ☐ Less than once per week, but more than once per month
- ☐ Rarely – A few times during the summer
- ☐ Never

## AIR QUALITY NOTIFICATION

11. During the summer of 2018, have you ever received an air quality notification message suggesting you avoid outside activity?

- ☒ Yes
- ☐ No

12. Do you ever seek out information related to wildfire and smoke notifications?

- ☒ a. Yes
- ☐ b. No (if you answered no to both questions 11 and 12, please skip to question 15)

13. Which source do you use to find wildfire smoke notifications? [Check all that apply]

- ☐ Social media (like Facebook, Instagram, Twitter)
- ☐ Television
- ☒ Online news sources
- ☐ Newspapers
- ☐ Friends or Family
- ☐ Personal observation
- ☐ State agencies such as Department of Environmental Quality website
- ☒ Idaho Smoke Information Blog
- ☒ Federal sources such as AIRnow.gov website
- ☐ Dynamic road sign displays (such as the signs on I-184 or I-84)
- ☐ Other \_\_\_\_\_



14. In a smoky week in summer 2018, about how many days did you look online (either on a computer, tablet, or smartphone) for smoke-related information, such as air quality, smoke forecasts, or health notices?
- ☐ 0 days
  - ☐ 1 days
  - ☐ 2 days
  - ☐ 3 days
  - ☐ 4-5 days
  - ☒ 6-7 days.
15. During summer of 2018, did you *ever* reduce your outside activities due to wildfire smoke?
- ☒ Yes
  - ☐ No
  - ☐ Not applicable
16. During summer of 2018, think of the *longest* period of consecutive days you reduced or eliminated your outdoor activities due to a smoke event. How many consecutive days did you reduce or eliminate activity?
- ☐ 0 days
  - ☐ 1 to 2 days
  - ☐ 3 days
  - ☒ 4 days
  - ☐ 5 days
  - ☐ 6 days and more
17. What is the *minimum* air quality index rating that would cause you to reduce your outdoor activity on a particular day?
- ☐ Green – Good
  - ☐ Yellow – Moderate
  - ☒ Orange – Unhealthy for Sensitive Groups
  - ☐ Red – Unhealthy
  - ☐ Purple – Very Unhealthy
  - ☐ Maroon – Hazardous
  - ☐ I am not familiar with this rating
18. What is the *minimum* air quality index rating that would cause you to eliminate your outdoor activity on a particular day?
- ☐ Green – Good
  - ☐ Yellow – Moderate
  - ☐ Orange – Unhealthy for Sensitive Groups
  - ☒ Red – Unhealthy
  - ☐ Purple – Very Unhealthy
  - ☐ Maroon – Hazardous
  - ☐ I am not familiar with this rating

19. If you decided to limit your outdoor activity during a smoke event, what type of information motivated your decision to do so? [Check all that apply]

- ☐ Smoke-related health problem statistics
- ☐ Air quality information
- ☐ Smoke forecasts
- ☒ Your own visual observation (seeing the smoke outside)
- ☐ Wildfire information
- ☐ Advice from your doctor
- ☐ Advice from family and friends

20. What type of message could motivate / motivated you to take action to mitigate the risk of issues related to wildfire smoke, such as staying indoors or leaving the area? [Check all that apply]

- ☒ Text message
- ☐ Phone call
- ☐ Social media message
- ☐ Online message
- ☐ Message seen on television
- ☒ Emergency alerts
- ☐ Contact from family or friends

21. What was the *content* of the message(s) that motivated you to take this action to mitigate the negative health impacts of wildfire smoke? [Check all that apply]

- ☐ A short message warning about the risk (1 line of text)
- ☒ A short message warning about the risk that included health or other statistics
- ☐ A short statement (roughly 1 paragraph)
- ☐ A visual infographic or picture
- ☐ An online Q&A session (Facebook Live or Instagram Live)
- ☐ A video
- ☐ A conversation (either online, via phone, or in person)

22. When would receiving a smoke warning message be most likely to impact your decision to limit or avoid outdoor activities *that same day*?

- ☐ I would prefer to know the day before
- ☐ Early morning (before 9 AM)
- ☐ Late morning (9 AM – noon)
- ☒ Afternoon (Noon – 5 PM)
- ☐ Evening (5 PM or later)

23. Will you take preventive actions to reduce smoke-related health impacts in the future?

- ☒ Yes – Please list the actions you might take above checked
- ☐ No
- ☐ Not sure

## NATURAL HAZARD QUESTIONS

24. Do you consider wildfire smoke events a natural hazard?

- ☒ Yes
- ☐ No
- ☐ Not sure

25. As a public health threat, are wildfire smoke events more important, less important, or about as important as other natural disasters, such as hurricanes or tornadoes?

- ☐ Much less severe/important
- ☐ Somewhat less severe/important
- ☐ About as severe/important
- ☒ Somewhat more severe/important
- ☐ Much more severe/important

26. Would you consider evacuating your home only because of the wildfire smoke?

- ☐ Yes, I have done this in the past.
- ☐ Yes, I would consider it
- ☒ No
- ☐ Prefer not to answer

## HEALTH QUESTIONS

27. Have you, or anyone in your household, experienced wildfire smoke-related illness?

- ☐ Yes
- ☒ No
- ☐ Not sure

28. Did you have any of the following symptoms during or a few days after one of the smoke events in the summer of 2018 in the Boise area / Treasure Valley? [Check all that apply]

- ☒ Wheezing or whistling in the chest
- ☒ Itchy or watery eyes
- ☒ Irritated eyes
- ☒ Sneezing or a runny or blocked nose
- ☒ Dry irritated nose / sinuses
- ☐ A sore or irritated throat
- ☐ A cold
- ☐ A dry cough at night
- ☐ A dry cough first thing in the morning
- ☐ A dry cough at other times of the day
- ☐ A wet cough (congestion in the chest or phlegm production)
- ☐ Bronchitis
- ☐ An asthma attack
- ☒ Headaches
- ☒ Fatigue

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29. Did you use/do any of the following to help with any symptoms during the smoke event? [Check all that apply]

- ☐ Take medication
- ☐ Wear a mask to protect your lungs
- ☒ Take long showers
- ☐ Visit a doctor or nurse
- ☐ Visit a doctor's office for asthma or smoke-related lung issues
- ☐ Use a personal air filtration system in your home or office
- ☒ Go to buildings that have air filtration systems like the mall or public library
- ☐ Miss work due to health problems

Date: 9-6-18  
Survey location: QVINZ

### DEMOGRAPHIC DATA

If you are uncomfortable answering any of these questions, you may leave them blank.

1. Do you consent to participate in this research study?  
☒ Yes  
☐ No – If you do not consent to participate, please do not complete this survey
2. What is your age?  
Fill in the blank 25
3. Which gender do you identify with?  
☒ A woman  
☐ A man  
☐ Other \_\_\_\_\_
4. What racial or ethnic group best describes you?  
☒ White / Caucasian  
☐ Hispanic or Latino  
☐ Black or African American  
☐ Native American / American Indian or Alaskan Native  
☐ Asian / Pacific Islander  
☐ Other \_\_\_\_\_
5. What is the ZIP Code where you currently live?  
Fill in the blank 83704
6. What is the highest degree or level of school you completed? If currently enrolled, highest degree received.  
☐ 8th grade or less  
☐ Some high school, no diploma  
☐ High school graduate, diploma or GED  
☐ Some college, no degree  
☐ Associates degree  
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☐ Master's degree  
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- ☐ Fair
- ☐ Poor

9. During summer of 2018, have you engaged in any outdoor activities, such as hiking, biking, fishing, gardening, running, or any other outdoor activity?

- ☒ Yes – Please list the activities ALL OF THE ABOVE.
- ☐ No (skip to question 11)

10. During the summer of 2018, how often would you say you've engaged in the outdoor activities you've listed above?

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- ☐ Personal observation
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- ☐ Advice from family and friends

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- ☐ Late morning (9 AM – noon)
- ☐ Afternoon (Noon – 5 PM)
- ☐ Evening (5 PM or later)

23. Will you take preventive actions to reduce smoke-related health impacts in the future?

- ☒ Yes – Please list the actions you might take STAY INSIDE AS MUCH AS POSSIBLE
- ☐ No
- ☐ Not sure



## NATURAL HAZARD QUESTIONS

24. Do you consider wildfire smoke events a natural hazard?

- ☒ Yes
- ☐ No
- ☐ Not sure

25. As a public health threat, are wildfire smoke events more important, less important, or about as important as other natural disasters, such as hurricanes or tornadoes?

- ☐ Much less severe/important
- ☐ Somewhat less severe/important
- ☒ About as severe/important
- ☐ Somewhat more severe/important
- ☐ Much more severe/important

26. Would you consider evacuating your home only because of the wildfire smoke?

- ☐ Yes, I have done this in the past.
- ☐ Yes, I would consider it
- ☒ No
- ☐ Prefer not to answer

## HEALTH QUESTIONS

27. Have you, or anyone in your household, experienced wildfire smoke-related illness?

- ☐ Yes
- ☒ No
- ☐ Not sure

28. Did you have any of the following symptoms during or a few days after one of the smoke events in the summer of 2018 in the Boise area / Treasure Valley? [Check all that apply]

- ☒ Wheezing or whistling in the chest (ASTHMA)
- ☒ Itchy or watery eyes
- ☒ Irritated eyes
- ☒ Sneezing or a runny or blocked nose
- ☒ Dry irritated nose / sinuses
- ☒ A sore or irritated throat
- ☒ A cold
- ☐ A dry cough at night
- ☐ A dry cough first thing in the morning
- ☐ A dry cough at other times of the day
- ☐ A wet cough (congestion in the chest or phlegm production)
- ☐ Bronchitis
- ☐ An asthma attack
- ☐ Headaches
- ☐ Fatigue

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- ☐ Visit a doctor's office for asthma or smoke-related lung issues
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- ☐ Go to buildings that have air filtration systems like the mall or public library
- ☐ Miss work due to health problems