**Variables**

**ID:** Numeric ID number for the Access Database.

**ID\_#:** Unique identifier for each participant. ID was used to label surveys, saliva, and any GPS and camera data. The first letter corresponds to the site (ie. O= Owyhees; F=Foothills), and the second letter to the recreation type (O= OHV; B=Mountain biker; H=Hiker/walker). The digits correspond to a running number of participants throughout the entire study.

**DATE:** YYYYMMDD

**DAY\_WEEK:** Monday=1, Sunday=7

**REC\_DENSITY:** Weekdays, when recreational density is lower =1. Weekends, when recreational density is higher =2. Weekdays include (Mon-Fri). Weekends include (Sat-Sun).

**START\_TEMP:** Air temperature in Celsius at the beginning of the recreational activity. If weather data was supplied on the hour, any start time between 00-30 minutes was included in the hour. Any start time between 30-59 minutes was included in the next hour. (ie. 10:00AM weather data was used for a recreational start time of 10:25AM. 11:00AM data was used for a start time of 10:40AM).

**END\_TEMP:** Air temperature in Celsius at the end of the recreational activity. If weather data was supplied on the hour, any start time between 00-30 minutes was included in the hour. Any start time between 30-59 minutes was included in the next hour. (ie. 10:00AM weather data was used for a recreational end time of 10:25AM. 11:00AM data was used for an end time of 10:40AM).

**AVG\_TEMP:** Averaged air temperature in Celsius during the recreational activity. The average is calculated using all hourly temperatures during the recreational trip.

**TOTAL\_PRECIP:** The total accumulated precipitation (in mm) that occurred during the recreational activity. The total is calculated by subtracting the end precipitation by the starting precipitation accumulation.

**START\_WIND:** The wind speed (in m/s) at the beginning of the recreational activity. If weather data was supplied on the hour, any start time between 00-30 minutes was included in the hour. Any start time between 30-59 minutes was included in the next hour. (ie. 10:00AM weather data was used for a recreational start time of 10:25AM. 11:00AM data was used for a start time of 10:40AM).

**END\_WIND:** The wind speed (in m/s) at the end of the recreational activity. If weather data was supplied on the hour, any start time between 00-30 minutes was included in the hour. Any start time between 30-59 minutes was included in the next hour. (ie. 10:00AM weather data was used for a recreational end time of 10:25AM. 11:00AM data was used for an end time of 10:40AM).**AVG\_WIND:** The average wind speed (m/s) of the duration of the recreational activity calculated by finding the average of all hourly averaged wind speeds. Recreation start times between the first of the hour to the half an hour were rounded down, and recreation times from 31 minutes onward were rounded up (eg. 10:00am average wind speed was used for a 10:20am start time, and a 11:00a average wind speed was used for a 10:35am start time).

**AVG\_WIND:** The average wind speed (in m/s) during the recreational activity. The average is calculated using all hourly wind speed measurements during the recreational trip.

**SITE:** The site where all data was collected (ie. Owyhees or Foothills)

**SITE\_CODE:** Number corresponding to each field site.

1= Owyhees

2= Foothills

**LOCATION:** The trailhead at which data was collected and the participant’s trip began.

**LOC\_CODE:** Number corresponding to each sampled trailhead

1=Hemingway

2=Rabbit

3=Camel’s Back

**START\_TIME:** Time participant left for their recreational activity.

**END\_TIME:** Time participant returned from their recreational activity.

**DURATION:** Elapsed time between START\_TIME and END\_TIME in minutes.

**SALIVA:** Whether the participant gave saliva samples before and after their trip.

0= No saliva

1= Saliva sample taken

**CORT\_DENSA:** The optical density of cortisol before the recreational activity.

**CORT\_DENSB:** The optical density of cortisol after the recreational activity.

**CORT\_CONA:** The cortisol concentration (μg/dL) before the recreational activity.

**CORT\_CONB:** The cortisol concentration (μg/dL) after the recreational activity.

**TEST\_DENSA:** The optical density of testosterone before the recreational activity.

**TEST\_DENSB:** The optical density of testosterone after the recreational activity.

**TEST\_CONA:** The testosterone concentration (μg/dL) before the recreational activity.

**TEST\_CONB:** The testosterone concentration (μg/dL) after the recreational activity.

**SURVEY:** Whether the participant filled out a survey after returning from their recreational activity.

0= No survey

1= Survey

**GPS:** Whether a GPS unit tracked the participant’s recreational trip.

0= No GPS information

1= GPS information available

**HIGH\_VEG:** The total area (m2) of high vegetation cover the participant walked through using a 100m buffer.

**HIGH\_PROP:** The proportion of high vegetative cover the participant walked through using a 100m buffer.

**MED\_VEG:** The total area (m2) of medium vegetation cover the participant walked through using a 100m buffer.

**MED\_PROP:** The proportion of medium vegetative cover the participant walked through using a 100m buffer.

**LOW\_VEG:** The total area (m2) of low vegetation cover the participant walked through using a 100m buffer.

**LOW\_PROP:** The proportion of low vegetative cover the participant walked through using a 100m buffer.

**NO\_VEG:** The total area (m2) of no/barren vegetation cover the participant walked through using a 100m buffer.

**NO\_PROP:** The proportion of no/barren vegetative cover the participant walked through using a 100m buffer.

**WATER:** The total area (m2) of water the participant walked near using a 100m buffer.

**WAT\_PROP:** The proportion of water the participant walked near using a 100m buffer.

**URBAN:** The total area (m2) of urban area the participant walked through using a 100m buffer.

**URB\_PROP:** The proportion of urban cover the participant walked through using a 100m buffer.

**RIPARIAN:** The total area (m2) of riparian area the participant walked through using a 100m buffer.

**RIP\_PROP:** The proportion of riparian cover the participant walked through using a 100m buffer.

**CAMERA:** Whether a participant used a digital camera and took photographs while out recreating.

0= No camera taken

1= Camera taken

**CAMERA\_TIME:** The time the photo was taken if the participant took a digital camera.

**CAMERA\_XCOR:** The x-coordinate of where the photo was taken if the participant took both a digital camera and a GPS device.

**CAMERA\_YCOR:** The y-coordinate of where the photo was taken if the participant took both a digital camera and a GPS device.

**CAM\_ANIMAL:** Whether an animal is present or absent in a submitted photograph.

0= No animals present

1= Wildlife present

2= Domesticated animals present

3= Both wildlife and domesticated animals present

**CAM\_PEOPLE:** Whether people are present or absent in a submitted photograph

0= No people

1= 1-2 people

2= 3+ people

**CAM\_VEG:** Whether vegetation is present or absent in a submitted photograph.

0= No vegetation

1= Shrubs present

2= Trees present

3= Both are present

4= Other

**CAM\_WATER:** Whether water is present or absent in a submitted photograph

0= No water

1= Water is present

**CAM\_TRAIL:** Whether a trail is present or absent in a submitted photograph

0= No trail depicted

1= Narrow trail is depicted

2= Wide trail is depicted

**CAM\_STRUC:** Whether architectural structures are present or absent in a submitted photograph

0= No architectural structures

1= Bridge is present

2= Fence is present

3= Other

**CAM\_VIEW:** What views were present in the photograph. Views refer to any photograph taken from above, or from far away to have an obvious background with no single foreground.

0= No view

1= City view

2= Mountain view

3= Other view

**REC\_TYPE:** Type of recreational activity the participant participated in.

1= Hiking/Walking

2= Mountain Biking

3= OHV

**GROUP?:** The total number of other participating individuals in a group, excluding the participant.

**TIMES\_HIKED?:** The survey taker’s answer to the survey question “In the last 30 days, how many times have you hiked?

**TIMES\_BIKED?:** The survey taker’s answer to the survey question “In the last 30 days, how many times have you mountain biked?”

**TIMES\_OHV?:** The survey taker’s answer to the survey question “In the last 30 days, how many times have you OHVed?”

**NUM\_PEOPLE:** The survey taker’s answer to the survey question “How many people did you recreate with today?”

**TRAIL:** Survey taker’s response to what trails they used that day.

**NUM\_WILDLIFE:** Numbers correspond to the total number of wildlife species participants saw based on their answer to the survey question “Please list any wildlife you saw while out recreating”.

**BIRDS:** Numbers correspond to the number of bird species the participant listed in their answer to the survey question “Please list any wildlife you saw while out recreating”

**MAMMALS:** Numbers correspond to the number of mammal species the participant listed in their answer to the survey question “Please list any wildlife you saw while out recreating”

**HERPTILES:** Numbers correspond to the number of amphibian or reptile species the participant listed in their answer to the survey question “Please list any wildlife you saw while out recreating”

**INSECTS:** Numbers correspond to the number of insect species the participant listed in their answer to the survey question “Please list any wildlife you saw while out recreating”

**PLANTS:** Numbers correspond to the number of plant species the participant listed in their answer to the survey question “Please list any wildlife you saw while out recreating”

**RECOG\_ANIM:** Survey taker’s response to the survey question “How many animal species did you recognize while out recreating today?”

**RECOG\_PLANT:** Survey taker’s response to the survey question “How many plant species did you recognize while out recreating?”

**IDENTIFY\_ANIM:** Survey taker’s response to the survey question “How comfortable do you feel at identifying wildlife?” 1= Not comfortable, 6= Very comfortable

**IDENTIFY\_PLANT:** Survey taker’s response to the survey question “How comfortable do you feel at identifying plants?” 1= Not comfortable, 6= Very comfortable

**KNOW\_AREA:** Survey taker’s response to the survey question “How well do you know this recreational area and its trail system” 1=Not well, 6= Very well.

**BEAUTIFUL:** Survey taker’s response to the survey question “How beautiful did you find the landscape in which you recreated in today?” 1=Not beautiful 6=Very beautiful

**PEACEFUL:** Survey taker’s response to the survey question “How peaceful did you find the landscape in which you recreated in today?” 1=Not peaceful 6=Very peaceful

**SCENIC:** Survey taker’s response to the survey question “How scenic did you find the landscape in which you recreated in today?” 1=Not scenic 6=Very scenic

**WILD:** Survey taker’s response to the survey question “How wild did you find the landscape in which you recreated in today?” 1=Not wild 6=Very wild

**POSTIVE:** Numbers correspond to the category in which the survey responder’s open-question answer was grouped into for the survey question “What was your most positive experience during your recreational activity?”

0= None listed/ Left blank

1= Being with friends/family

2= Good trails

3= Relaxing, peaceful, silent atmosphere

4= Good weather

5= Great views

6= Being outside

7= Beautiful scenery

8= Seeing wildlife

9= Gaining skills

10= Exercise

11= Going fast

12= Dogs

13= Other

**NEGATIVE:** Numbers correspond to the category in which the survey responder’s open-question answer was grouped into for the survey question “What was your most negative experience during your recreational activity?” 0= Nothing listed/left blank

1= No negative experience

2= Falling, wrecking, tripping

3= Bad weather

4= Bad trail conditions or closed trails

5= Popped tires

6= Rude recreationists

7= Crowded trails

8= Sharing the trails

9= Dogs

10= Physical discomfort (sandy, thirsty, tired, etc)

11= Trash (including dog poop)

12= Wildlife interactions

13= Other

**SELF\_STRESS:** Survey taker’s response to the survey question “How do you feel after your recreational experience today?” 1=Not stressed, 5= Very stressed

­**MEET\_PEOP:** Survey taker’s response to the survey question on how important meeting new people who enjoy similar things is during today’s activity. 1=Not important, 5=Very important

**ENJOY\_ENVIRO:** Survey taker’s response to the survey question on how important enjoying the natural environment is during today’s activity. 1=Not important, 5=Very important

**CHALLENGE\_DEVELOP:** Survey taker’s response to the survey question on how important challenging yourself/developing skills is during today’s activity. 1=Not important, 5=Very important

**SOLITUDE:** Survey taker’s response to the survey question on how important enjoying solitude/getting away from it all is during today’s activity. 1=Not important, 5=Very important

**VIEW\_WILDLIFE:** Survey taker’s response to the survey question on how important viewing and appreciating wildlife is during today’s activity. 1=Not important, 5=Very important

**FRIEND\_FAMILY:** Survey taker’s response to the survey question on how important sharing time with friends and family is during today’s activity. 1=Not important, 5=Very important

**REC\_IMPACT:** Survey taker’s response to the survey question “How do you think recreationists and recreational activity affect wildlife?” 1=Positively, 3=No effect, 5= Negatively

**HIKE\_IMPACT:** Survey taker’s response to how impactful hiking is on wildlife. 1=Least impactful 5=Most impactful

**BIKE\_IMPACT:** Survey taker’s response to how impactful mountain biking is on wildlife. 1=Least impactful 5=Most impactful

**OHV\_IMPACT:** Survey taker’s response to how impactful OHV riding is on wildlife. 1=Least impactful 5=Most impactful

**BIRD\_IMPACT:** Survey taker’s response to how impactful birding is on wildlife. 1=Least impactful 5=Most impactful

**RUN\_IMPACT:** Survey taker’s response to how impactful running is on wildlife. 1=Least impactful 5=Most impactful

**REC\_PLACE:** Survey taker’s response to the survey question on how important it is that the recreational area provides a place for recreational activities 1=Not important, 5=Very important

**CONTACT\_NATURE:** Survey taker’s response to the survey question on how important it is that the recreational area provides opportunities to know and contact nature 1=Not important, 5=Very important

**CULTURE:** Survey taker’s response to the survey question on how important it is that the recreational area provides cultural significance/ sense of place and identity 1=Not important, 5=Very important

**EDUCATION:** Survey taker’s response to the survey question on how important it is that the recreational area provides educational opportunity and significance 1=Not important, 5=Very important

**AESTHETICS:** Survey taker’s response to the survey question on how important it is that the recreational area provides aesthetics and scenic enhancement of the surrounding area 1=Not important, 5=Very important

**WILDLIFE\_HAB:** Survey taker’s response to the survey question on how important it is that the recreational area provides wildlife habitat 1=Not important, 5=Very important

**SPECIES\_CONSERV:** Survey taker’s response to the survey question on how important it is that the recreational area provides species conservation 1=Not important, 5=Very important

**CITY\_MOUNT:** Survey taker’s choice between two landscape photographs depicting a city view and a mountain view.

0= No answer

1= City View (A)

2= Mountain View (B)

**WATER\_TREE:** Survey taker’s choice between two landscape photographs depicting a water and tree view and a tree view.

0= No answer

1= Water/Tree View (A)

2= Tree View (B)

**TREE\_SHRUB:** Survey taker’s choice between two landscape photographs depicting a tree lined trail and a shrub lined trail.

0= No answer

1= Tree Lined (A)

2= Shrub Lined (B)

**NARROW\_WIDE:** Survey taker’s choice between two landscape photographs depicting a narrow and less maintained trail and a wider, more maintained trail.

0= No answer

1= Narrow trail (A)

2= Wide trail (B)

**PEOPLE\_NO:** Survey taker’s choice between two landscape photographs depicting a trail with people and a trail with no people.

0= No answer

1= People (A)

2= No people (B)

**MOST\_SCENIC:** Survey taker’s choice of landscape photograph that they think is the most scenic.

0= No answer

1= Tree Landscape (A)

2= Peopled Landscape (B)

3= Water Landscape (C)

4= City Landscape (D)

5= Shrub Landscape (E)

6= Mountain Landscape (F)

**MOST\_PEACE:** Survey taker’s choice of landscape photograph that they think is the most peaceful.

0= No answer

1= Tree Landscape (A)

2= Peopled Landscape (B)

3= Water Landscape (C)

4= City Landscape (D)

5= Shrub Landscape (E)

6= Mountain Landscape (F)

**MOST\_BEAUTY:** Survey taker’s choice of landscape photograph that they think is the most beautiful.

0= No answer

1= Tree Landscape (A)

2= Peopled Landscape (B)

3= Water Landscape (C)

4= City Landscape (D)

5= Shrub Landscape (E)

6= Mountain Landscape (F)

**MOST\_COMFORT:** Survey taker’s choice of landscape photograph that they think is the most comfortable.

0= No answer

1= Tree Landscape (A)

2= Peopled Landscape (B)

3= Water Landscape (C)

4= City Landscape (D)

5= Shrub Landscape (E)

6= Mountain Landscape (F)

**MOST\_INSPIRE:** Survey taker’s choice of landscape photograph that they think is the most inspiring.

0= No answer

1= Tree Landscape (A)

2= Peopled Landscape (B)

3= Water Landscape (C)

4= City Landscape (D)

5= Shrub Landscape (E)

6= Mountain Landscape (F)

**MOST\_WILD:** Survey taker’s choice of landscape photograph that they think has the most wilderness.

0= No answer

1= Tree Landscape (A)

2= Peopled Landscape (B)

3= Water Landscape (C)

4= City Landscape (D)

5= Shrub Landscape (E)

6= Mountain Landscape (F)

**MOST\_CALM:** Survey taker’s choice of landscape photograph that they think is the most calming.

0= No answer

1= Tree Landscape (A)

2= Peopled Landscape (B)

3= Water Landscape (C)

4= City Landscape (D)

5= Shrub Landscape (E)

6= Mountain Landscape (F)

**MOST\_NATURAL:** Survey taker’s choice of landscape photograph that they think is the most natural.

0= No answer

1= Tree Landscape (A)

2= Peopled Landscape (B)

3= Water Landscape (C)

4= City Landscape (D)

5= Shrub Landscape (E)

6= Mountain Landscape (F)

**LAND\_TYPE:** Survey response to the survey question “What type of landscape did you grow up in?” Numbers correspond to the following landscape types.

1= Desert

2= Mountains

3= Shrublands

4= Forest

5= Grasslands

6= Agricultural farm or rangeland

7= City/Urban

8= Other

**YEARS:** Survey response to the survey question how many years have you lived in Idaho/Boise? Numbers correspond to the number of years.

**AGE:** Age of the participant from survey.

**GENDER:** The numbers correspond to the following genders by survey response.

1= Female

2= Male