

## Behavioral Observation Exports

Data recorded in Behavioral Observation projects can be exported for manual data analysis through your Admin section. Data is exported to a CSV file that can be opened by Microsoft Excel and any statistical software. The exported data is in a “long” format, with a limited number of columns for your project variables, and many rows for each unique behavior entry.

Example data export showing a subset of column fields.

SessionID	DateTime	Channel Type	Focal Name	All Occurrence Value	Frame Number	Interval Channel Value	Space Use Coordinate X	Space Use Coordinate Y	Question: Temperature(F)	Question: Crowd Size
22670	8/13/2015 11:47	All Occurrence	Lenny	Enrichment Interaction						
22670	8/13/2015 11:42	Interval	Lenny		1	Feed/ Forage/ Drink	460	152	80	6 to 10
22670	8/13/2015 11:43	Interval	Lenny		2	Inactive	416	162	80	6 to 10

**Session Detail Variables**—these variables provide information on the session and project details.

- **SessionID**—unique session identifier
- **Configuration Name**—project configuration name
- **Observer**—name of session observer
- **DeviceID**—unique device identifier
- **Session Start Time**—start time for the session
- **DateTime**—date and time of the behavior entry
- **Date**—date session was recorded
- **Time**—time of the behavior entry
- **Year**—year session was recorded
- **Month**—month session was recorded
- **Hour**—hour session was recorded
- **Project Animals**—list of project animals
- **Duration**—session duration in minutes
- **Grid Size**—grid size (row x column) for the space use map
- **Image Size**—image size (pixels) for the space use map
- **Notes**—session notes

**Behavior Data Variables**—these variables represent the behavior data you recorded. Some variables will depend on your specific project configuration (shown with asterisks below).

- **Channel Type**— type of behavior channel
- **Focal Name**—focal individual animal name
- **All Occurrence Value\***—recorded behavior name
- **Frame Number\***—interval number in the session
- **Interval/ Continuous Channel Name\***—channel name
- **Interval/ Continuous Channel Value\***—recorded behavior name
- **Continuous Channel Duration (sec)\***—duration of the continuous behavior bout
- **Interval/ Continuous Channel Behavior Modifier\***—list of behavior modifier values recorded
- **Interval/ Continuous Channel Social Modifier\***—list of social modifiers recorded
- **Space Use Grid/ Coordinate X\***—the grid column/ coordinate value recorded
- **Space Use Grid/ Coordinate Y\***—the grid row/ coordinate value recorded

### Special Considerations

- **Missing Interval Data**—missed intervals during a session are shown in the export as a row with blank behavior data
- **Observations with No Recorded Data**—sessions that had no behavior recorded are included in the export as a blank row

**Additional Questions Data Variables**—These variables provide the data from any Additional Questions recorded at start of the session.

- **Question: Additional Question 1\***—recorded question response

## Generating Reports in ZooMonitor

ZooMonitor features built-in reports to allow you to quickly visualize your Behavioral Observation project data. Three report types are available: Heat Map, Behavior Budget, and Target Behavior reports. Data can optionally be filtered by multiple criteria to generate reports to address specific behavior questions. Reports can be saved as a PNG image file.

**Inactive Studies**—check this box to view any previously deactivated studies

**Available Channel Types**—choose the channel type of the behavior data you'd like to visualize (available options are based on the project's configuration)

**Available Report Types**—choose a Heat Map for interval data, Behavior Budget report for interval or continuous data, or a Target Behavior report for any channel type

**Customize Heat Map**—if a Heat Map report is selected, you can customize the color and size of location points

### Reporting

☐ Include Inactive Studies?

Study: Pygmy Hippo Exhibit - ZooMonitor Volunteer

Select a Channel Type:

Interval

Select an available report:

Heat Map

CUSTOMIZE HEAT MAP

RUN

CLEAR CRITERIA

#### Optional Filters

 Dates

 Times

 Additional Questions

 Behaviors

 Animals

 Observers

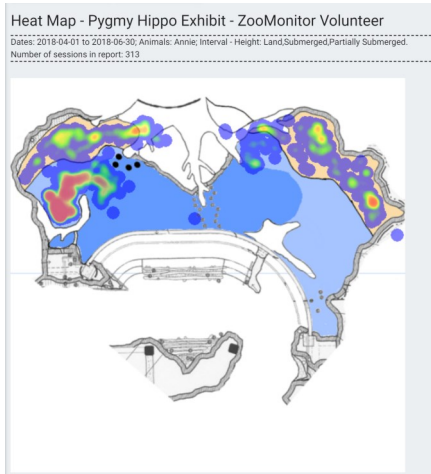
### Optional Filters

You can optionally filter your report by specific criteria:

- **Dates**—date range or relative date ranges (e.g. last month)
- **Times**—time range of session start times
- **Additional Questions**—any values for questions you record at the start of a session. This can include numeric ranges for number questions like Temperature or Crowd Size
- **Behaviors**—any behaviors of the selected channel type
- **Animals**—any focal animal in the project

## Report Types Available in ZooMonitor

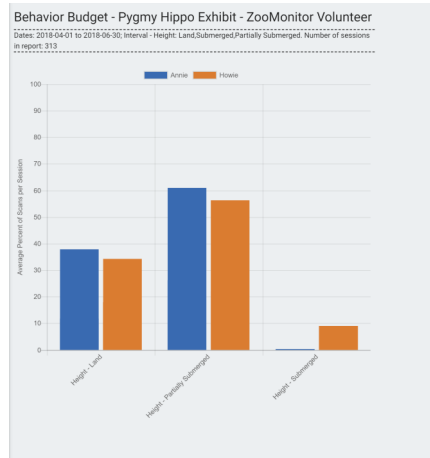
### Heat Map



**Aggregates space use data into hotspots to show habitat preferences**

Channel Type: Interval

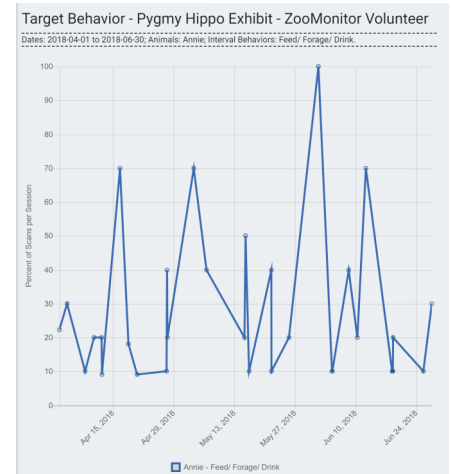
### Behavior Budget



**Displays the average percent of observed time to show time budgets**

Channel Types: Interval, Continuous

### Target Behavior



**Displays the daily percent of observed time to show behavior trends**

Channel Types: Interval, Continuous, All Occurrence