Wildlife Insights Data Dictionary - Private Downloads

The tables below provide descriptions for fields included in the Wildlife Insights data download files as well as potential values. The images.csv for image projects is slightly different than the images.csv for sequence projects.

Projects.csv Column Names	Definition	Values List
project_id	An internal identification for the project.	
project_name	A name that identifies the project.	
project_short_name	A short name that identifies the project.	
project_objectives	The goals of the project.	
project_species	If the study's objective is to focus on single or multiple species.	Individual, Multiple
project_species_individual	If the study focuses on an individual species, which species?	
project_sensor_layout	The sensor layout or sampling design within the study area.	Systematic, Randomized, Convenience, Targeted, Unknown
project_sensor_layout_targeted_type	If the sensor layout is targeted, what wildlife sign or other feature was used?	
project_bait_use	If sensors were baited at all or some of the deployment locations.	Yes, Some, No
project_bait_type	If sensors were baited, what bait was used?	None, Scent, Meat, Visual, Acoustic, Other
project_stratification	If sensors are distributed along different habitat types, legal zones (e.g. protected area vs. not protected) or other biophysical features (e.g. elevation, rainfall, etc.)?	Yes, No
project_stratification_type	If sensors are stratified, the strata is listed here.	
project_sensor_method	If sampling is based on motion sensor detection, time lapse, or both.	Sensor Detection, Time Lapse, Both
project_individual_animals	If marked individuals (or identified individuals) are part of this project.	Yes, No
project_blank_images	If blank images were removed from this dataset	Yes, Some, No
project_sensor_cluster	If sensors setup in pairs or clusters (groups of sensors).	Yes, No
project_admin	The name of the project administrator.	
project_admin_email	The email of the project administrator.	
project_admin_organization	The parent organization of the project.	
country_code	The country where the project is located, reported as a 3-letter ISO code.	Three letter ISO codes are available here.
embargo	Length of embargo in months.	0-24
initiative_id	Unique ID generated by Wildlife Insights for an initiative.	
metadata_license	The license assigned to the project metadata. Metadata includes all the information in this data dictionary along with any derived products that come from it.	CC0, CC-BY
image_license	The license assigned to the project media (i.e., images).	CC0, CC-BY, CC-BY-NC
data_citation	A suggested citation for the project that includes the authors, an ARK link to the project page and the date the project was last updated.	
count_optional	Indicates whether the data provider recorded count of objects in an image. The count is recorded in the images.csv as *number_of_objects*. If True, the count field was made optional in the project. If False, the count field was recorded.	True, False
project_type	Defines whether identifications within the project occured at the image or sequence level.	Image, Sequence

Cameras.csv Column Names	Definition	Values List
project_id	An internal identification for the project.	
project_name	A name that identifies the project.	
camera_id	An internal identification for a camera trap	
camera_name	An internal identification for a camera trap	
make	Manufacturer of the camera	
model	The model of the camera	
serial_number	The serial number of the camera trap.	
year_purchased	The date the camera was purchased.	
camera_remarks	Remarks about the camera.	

Deployments.csv Column Names	Definition	Values List
project_id	An internal identification for the project.	
project_name	A name that identifies the project.	
deployment_id	A unique identifier for the camera deployment (within the project).	
placename	A name for the location.	
longitude	Longitude of Location in decimal degrees using datum WGS84.	
latitude	Latitude of Location in decimal degrees using datum WGS84.	
start_date	The date the camera was activated and starting recorded observations. This also marks the date a new SD card was inserted into a camera that is continuously operating (YYYY-MM-DD).	
end_date	The date the camera was picked up OR the date the SD card was retrieved (YYYY-MM-DD).	
bait_type	Type of bait (if any) that was used with the camera deployment.	None, Scent, Meat, Visual, Acoustic, Other
bait_description	Text field to describe baiting method and Other bait type if necessary	
feature_type	Type of feature (if any) that the camera deployment is associated with.	None, Road paved, Road dirt, Trail hiking, Trail game, Road underpass, Road overpass, Road bridge, Culvert, Burrow, Nest site, Carcass, Water source, Fruiting tree, Other
feature_type_methodology	Text field to describe details about a feature type.	
camera_id	An internal identification for a camera trap.	
camera_name	A user defined name for a camera trap.	
quiet_period	Time specified between shutter triggers when activity in the sensor will not trigger the shutter. Specified in seconds.	
camera_functioning	Details the status of the camera after the named deployment.	Camera Functioning, Unknown Failure,Vandalism, Theft,Memory Card,Film Failure,Camera Hardware Failure,Wildlife Damage
sensor_height	The height at which the sensor was deployed.	Chest height, Knee height, Canopy,Unknown, Other
height_other	Text field to describe sensor height if "other" is selected.	free text only when 'other' selected for Height or Angle
sensor_orientation	The angle at which the sensor was deployed .	Parallel, Pointed Downward, Varies, Unknown,Other

orientation_other	Text field to describe sensor angle if "other" is selected.	free text only when 'other' selected for Height or Angle
plot_treatment	A parcel of land defined by a specific function, property, or purpose. Examples include types of agriculture and different stages of controlled burns.	
plot_treatment_description	General description of the plot treatment.	
detection_distance	Maximum distance at which a camera triggered, as tested during deployment, measured in meters.	
subproject_name	A name for a logical grouping of deployments within a project. Subprojects are similar to Events and Arrays, but do not necessarily need to be grouped by time or theme.	
subproject_design	Text field to describe subproject design methods.	
event_name	Camera trap arrays can be grouped into sampling 'events' (not to be confused with events of animal detection by camera traps). There are many uses for an event and it is designed to be flexibly used. Common events could be seasons (wet and dry), months, years or other types of logical groupings when field sampling occurs.	
event_description	A description that defines the events.	
event_type	A broader category for types of events. For example, some projects may put sensors out using different sampling designs in the wet season vs the dry season. This is a 'Seasonal' event type and will make grouping data together for data management.	
recorded_by	The person installing the camera.	
fuzzed	Indicator if exact locations are obscured (=True) or if exact locations are provided (=False). This field is only included in public downloads.	True, False
deployment_remarks	Remarks about the deployment	
location_remarks	Remarks about the location	

Images.csv for IMAGE projects

Column Names	Definition	Values List
project_id	An internal identification for the project.	
deployment_id	Unique identifier for the camera deployment (within the project).	
image_id	Unique identifier for the image (within the project) generated by Wildlife Insights.	
filename	The original filename of the image.	
location	\A link to the image in Google Cloud Storage. This can be converted into a link by replacing 'gs://' with 'https://console.cloud.google.com/storage/browser/'	
is_blank	Is the image blank? Yes=1; No=0.	0, 1
identified_by	Name of the person who identified the photo. This will be marked as Computer Vision if the image has not been reviewed by project staff but has been identified by the AI model.	
wi_taxon_id	A permanent ID that is inherent to the Wildlife Insights Global Taxonomy.	Reference WI Global Taxonomy table, available here: https://github.com/ConservationInternational/Wildlife-Insights---Data-Migration/tree/master/WI_Global_Taxonomy or in this table https://wildlifeinsights
class	Latin name for a Class.	
order	Latin name for Order.	
family	Latin name for Family.	
genus	Latin name for a Genus in the image.	
species	Latin name for a species in the image.	

common_name	Common name for a species in the image. Any identifications that are not wildlife (ex. cars, bycycles, etc) and types of humans (park staff, hunter,etc) are listed here.	https://wildlifeinsights-taxonomy-ewutmovdfa-uc.a.run.app/
uncertainty	The uncertainty for the image identification by the photo identifier. This field is currently only available for historical data recorded outside of Wildlife Insights.	Absolutely sure, Pretty sure, Not sure, Don't know, Other
timestamp	Date and time the image was taken (YYYY-MM-DD HH:MM:SS)	
number_of_objects	Number of animals per species in the image. Note: if an image has multiple species or individuals, each species or individual will require a separate record. For example, an image has 2 deer and 1 racoon. There will be one record with deer in the taxonomy fields and number of animals =2 and another record with raccoon in the taxonomy fields and number of animals=1.	
age	Age of animal.	Adult, Juvenile, Unknown, Mixed
sex	Sex of animal.	Male, Female, Unknown, Mixed
animal_recognizable	Is the animal individually recognizable?	True, False
individual_id	The individual animal ID.	
individual_animal_notes	Notes about the animal and/or the image itself. Note that this maps to the field 'Remarks' in the User Interface.	
behavior	Notes about the behavior of the animal.	
highlighted	Selected if the image was marked as a favorite. Favorite=True, not favorite=False.	True, False
markings	Distinct markings or dominant color of the animal. This	
cv_confidence	The computer vision model's confidence in the prediction	0-100%
license	License assigned to the image. Any reuse of the image must follow the license terms.	CC0, CC-BY-4.0, CC-BY-NC
bounding_boxes	Relative coordinates of one or more bounding boxes in the image. It will be in the format "{\"{\\\"detectionBox\\\": [ymin, xmin, ymax, xmax]}\"}". For example if the bounding box is this "{\"{\\\"detectionBox\\\": [0.421915054,0.63586086,0.647126615,0.780591547]}\"}" and the image size is 1080 pixels high x 1920 pixels wide, then the actual coordinates of the bounding box are ymin = 455.7 pixels, xmin = 1220.8 pixels, ymax = 698.9 pixels and xmax = 1498.7 pixels. If there are several bounding boxes in an image, there will be several "{\"{\\\"detectionBox\\\[coordinates]}\"}" separated by commas. The text is formated as JSON.	"{\"{\\\"detectionBox\\\":[ymin, xmin, ymax, xmax]}\"}"

Images.csv for SEQUENCE projects

Column Names	Definition	Values List
project_id	An internal identification for the project.	
deployment_id	Unique identifier for the camera deployment (within the project).	
image_id	Unique identifier for the image (within the project) generated by Wildlife Insights.	
filename	The original filename of the image.	
sequence_id	Unique identifier for the sequence (within the project) generated by Wildlife Insights.	
location	A link to the image in Google Cloud Storage. This can be converted into a link by replacing 'gs://' with 'https://console.cloud.google.com/storage/browser/'	

wi_taxon_id	A permanent ID that is inherent to the Wildlife Insights Global Taxonomy.	Reference WI Global Taxonomy table, available here: https://github.com/ConservationInternational/Wildlife-Insights----Data-Migration/tree/master/WI_Global_Taxonomy or in this table https://wildlifeinsights-taxonomy-ewutmovdfa-uc.a.run.app/
class	Latin name for a Class.	
order	Latin name for Order.	
family	Latin name for Family.	
genus	Latin name for a Genus in the image.	
species	Latin name for a species in the image.	
common_name	Common name for a species in the image. Any identifications that are not wildlife (ex. cars, bycycles, etc) and types of humans (park staff, hunter,etc) are listed here.	
timestamp	Date and time the image was taken	
bounding_boxes	Relative coordinates of one or more bounding boxes in the image. It will be in the format "{\"{\\\"detectionBox\\\": [ymin, xmin, ymax, xmax]}\"}". For example if the bounding box is this "{\"{\\\"detectionBox\\\": [0.421915054,0.63586086,0.647126615,0.780591547]}\"}" and the image size is 1080 pixels high x 1920 pixels wide, then the actual coordinates of the bounding box are ymin = 455.7 pixels, xmin = 1220.8 pixels, ymax = 698.9 pixels and xmax = 1498.7 pixels. If there are several bounding boxes in an image, there will be several "{\"{\\\"detectionBox\\\[coordinates]}\"}" separated by commas. The text is formated as JSON.	"{\"{\\\"detectionBox\\\":[ymin, xmin, ymax, xmax]}\"}"

Sequences.csv Column names	**Definition**	**Values List**
project_id	An internal identification for the project.	
deployment_id	Unique identifier for the camera deployment (within the project).	
sequence_id	Unique identifier for the sequence (within the project) generated by Wildlife Insights.	
is_blank	Is the image blank? Yes=1; No=0.	0, 1
identified_by	Name of the person who identified the photo. This will be marked as Computer Vision if the image has not been reviewed by project staff but has been identified by the AI model.	
wi_taxon_id	A permanent ID that is inherent to the Wildlife Insights Global Taxonomy.	Reference WI Global Taxonomy table, available here: https://github.com/ConservationInternational/Wildlife-Insights----Data-Migration/tree/master/WI_Global_Taxonomy or in this table https://wildlifeinsights-taxonomy-ewutmovdfa-uc.a.run.app/
class	Latin name for a Class.	
order	Latin name for Order.	
family	Latin name for Family.	
genus	Latin name for a Genus in the image.	
species	Latin name for a species in the image.	
common_name	Common name for a species in the image. Any identifications that are not wildlife (ex. cars, bycycles, etc) and types of humans (park staff, hunter,etc) are listed here.	
uncertainty	The uncertainty for the image identification by the photo identifier.	Absolutely sure, Pretty sure, Not sure, Don't know, Other
start_time	Date and time a single image was taken (if project type = image) OR the date and time of the first image in a sequence (if project type=sequence).	
end_time	The date and time of the last image within a sequence.	
group_size	Number of animals per species in the sequence. Note: if a sequence has multiple species or individuals, each species or individual will require a separate record.	
age	Age of animal.	Adult, Juvenile, Unknown, Mixed

sex	Sex of animal.	Male, Female, Unknown, Mixed
animal_recognizable	Is the animal individually recognizable?	True, False
individual_id	The individual animal ID.	
individual_animal_notes	Notes about the animal and/or the image itself.	
behavior	Notes about the animal and/or the image itself. Note that this maps to the field 'Remarks' in the User Interface.	
highlighted	Notes about the behavior of the animal.	True, False
markings	Distinct markings or dominant color of the animal.	
cv_confidence	The computer vision model's confidence in the prediction	0-100%
license	License assigned to the image. Any reuse of the image must follow the license terms.	CC0, CC-BY-4.0, CC-BY-NC