

This Lake Data table lists all identified grebe breeding lakes and their characteristics and will be a static table.							
column_name	current_column_name	description	value types	example	example2	comment	priority
lakeid	(none, Evan will generate it when creating new table!)	unique identifier for grebe breeding lakes in this project, all lowercase.	all lowercase, unique text value, "aech_" + 00000	"aech_00002"	"aech_00113"	"Aech" is short for <i>Aechmophorus</i> , the genus for these 2 grebe species (just in case in the future we end up adding other waterbird nesting locations).	1
title	LAKE	human readable title for the lake (or group of lakes!)	text	"Bottle Hollow Reservoir"	"Malheur National Wildlife Region"	sometimes includes localized regions or complex of lakes (example2). using the term "title" because title is used in web templates for a lot of values, it will be much easier to use.	1
state_province	STATE	state or province	text, official two letter abbreviation, separate multiple values with ";"	"UT"	"AB"	example2 is Canada abbreviations. AB = Alberta, BC = British Columbia, MB = Manitoba, SK = Saskatchewan. just use two letter abbreviations as there is no over lap with use states.	1
HydroLake_ID	HydroLake ID	unique ID of this lake in the HydroLake global lakes database for additional data of interest	number	"112114"			1
GReND_ID	GReND ID	unique ID of this lake in the GReND database of dams and reservoirs for additional data of interest	number	"483"			1
latitude	(none, will be generated)	latitude decimal coordinates	number with varied decimal places	"34.8666"		data in Summary Table	1
longitude	(none, will be generated)	longitude decimal coordinates	negative number with varied decimal places	"-110.554"		data in Summary Table	1
surface_area_km2	SIZE of WATERBODY (km2)	surface area in km2	number	"264"		data in Summary Table	2
reservoir_nonreservoir	RESERVOIR or NATURAL BODY	reservoir or non-reservoir	text, controlled vocab: reservoir, non-reservoir	"reservoir"	"non-reservoir"	data in Summary Table. We decided to go with the term "non-reservoir" versus "lake" or "natural"	1
date_dam_completion	DATE of DAM COMPLETION	year of dam completion	number	"1984"		data in Summary Table	1
motorboat_restriction	MOTORBOAT RESTRICTION (none, partial, entire)	motorboat restrictions	text, controlled vocab: none, partial, entire	"none"	"partial"	data in Summary Table	2
motorboat_restriction_notes		additional notes about motorboat restrictions	text	"no wake zone at north end"			
primary_emergent_veg	PRIMARY EMERGENT PLANT SPECIES on LAKE	primary emergent vegetation as common name and/or scientific name	text	"bulrush (<i>Scirpus sp.</i>)"		data in Summary Table	2

primary_veg_for_nesting	PRIMARY EMERGENT PLANT SPECIES on LAKE USED FOR GREBE NESTING	primary emergent vegetation as common name and/or scientific name	text	"cattail (<i>Typha sp.</i>)"		data in Summary Table	2
management_agency	MANAGEMENT AGENCY	management agency/agencies of the lake	text, list. separate multiple agencies with ","; semicolon	"Idaho Department of Fish and Game, U.S. Bureau of Reclamation"		data in Summary Table	2
lake_use	(none, will be generated)	lake use according to management agency/agencies and/or lake/dam database	text, separate multiple uses with ","; semicolon: fisheries; flood control; hydropower; irrigation; oil and gas extraction; other; recreation; water supply; wildlife	"water supply, irrigation, recreation"		data in Summary Table	2
region_associations	(none, will be generated)	any regional associations (watershed, basin, river, mountain range, National Wildlife Refuge, Tribal Land, First Nations Land, etc.)	text, list. separate multiple associations with ","; semicolon	"Klamath Basin, Klamath Marsh National Wildlife Refuge"		data in Summary Table	2
ecoregion	(none, will be generated)	ecoregion according to EPA (level 1 or level 2). As reference: https://www.epa.gov/eco-research/ecoregions-north-america	text, list. separate multiple ecoregions with ","; semicolon	"Northwestern Forested Mountains"			2
designations	(none, will be generated)	designations for wetland or protection such as Ramsar, Important Bird Area (IBA), Bird Conservation Region (BCR), etc.	text, list. separate multiple ecoregions with ","; semicolon	"Ramsar site"			2
comments	(none, will be generated)	additional information about the lake	text	"Swan Lake was the site of a proposed hydroelectric facility. Water is drawn from the Swan Lake Valley for irrigation."		data in Summary Table	1
adults_max	(none, will be generated)	maximum count of adults	number, possibly inequality symbol or text	"100"	">100"	same comment as in min_adult	1
year_max_adults	(none, will be generated)	year of maximum count of adults	number, possibly some text	"2008"	"2006-2008"	same comment as in year_min_adult	1
most_recent_adults	(none, will be generated)	most recent count of adults	number, possibly inequality symbol or text	"100"	">100"	same comment as in min_adult	1
year_most_recent_adults	(none, will be generated)	year of most recent count of adults	number, possibly some text	"2008"	"2006-2008"	same comment as in year_min_adult	1
max_nests	(none, will be generated)	maximum count of nests	number, possibly inequality symbol or text	"100"	">100"	same comment as in min_adult	2
year_max_nests	(none, will be generated)	year of maximum count of nests	number, possibly some text	"2008"	"2006-2008"	same comment as in year_min_adult	2
most_recent_nests	(none, will be generated)	most recent count of nests	number, possibly inequality symbol or text	"100"	">100"	same comment as in min_adult	2
year_most_recent_nests	(none, will be generated)	year of most recent count of nests	number, possibly some text	"2008"	"2006-2008"	same comment as in year_min_adult	2
max_chicks	(none, will be generated)	maximum count of chicks	number, possibly inequality symbol or text	"100"	">100"	same comment as in min_adult	2
year_max_chicks	(none, will be generated)	year of maximum count of chicks	number, possibly some text	"2008"	"2006-2008"	same comment as in year_min_adult	2
most_recent_chicks	(none, will be generated)	most recent count of chicks	number, possibly inequality symbol or text	"100"	">100"	same comment as in min_adult	2
year_most_recent_chicks	(none, will be generated)	year of most recent count of chicks	number, possibly some text	"2008"	"2006-2008"	same comment as in year_min_adult	2

western_clarks_both	(none, will be generated)	was Western grebe, Clark's grebe, or both surveyed? enter as Western, Clark's or Both (# Clark's/# Western) or (# Clark's/# Western/# unidentified or intermediate). Include year if given.	text and numbers	"Clark's (1993), Western (2001), Both: Clark's/Western (14/50) in 2002"	"Western"	will manually enter, this can get wonky	2
survey_type	(none, will be generated)	type of survey method: shore, boat, air, drone, or combination of any of these	text, possible list	"shore, boat"			1
survey_time_period	(none, will be generated)	survey time period as: YYYY Month Date of first survey, YYYY Month Date of last survey. Enter just YYYY if no month/date provided.	text and numbers	"4 July 2007, 8 August 2010"	"2002, 2005"		1
frequency_survey	(none, will be generated)	number of times surveyed per year if known	number	"3"			2
most_common_threats_repc	(none, will be generated)	threats to breeding and nesting grebes reported by researchers on that specific lake	text	"low water level, lack of nesting habitat"			1
citations	(none, will be generated)	citations	text	"Ivey, G. 2004. Waterbird atlas....."			1

This Lake Data Sources table lists sources of information for lakes, one source per row, linked to the lake using the "lakeid" from the grebe-lake-table										
column_name	current_column_name	description	value types	example	example2	comment	priority			
lakeid	(none, will be generated)	this corresponds to one or more lakeid's from the lake table, for which this source relates to (copied from the grebe-lake-table)	text, copied from lake table	"aech_00002"	"aech_00113"					
title_lake	Lake	name of lake (copied from "title"	text	"Mud Lake"		this is "title" column in grebe-lake-table				
title	(none, will be generated)	title of the resource	text							
link	(none, will be generated)	a full URL to the resource	url	https://www.conservation.org/en-us/get-involved/how-to-help/places-we-protect/williamson-river-delta/						
citation	(none, will be generated)	full citation of source (if necessary)	text							
archive_link	(to be generated)	web archived version of the web	url							

This Grebe Data table lists all identified grebe breeding lakes and all surveys and will be an updateable table							
column_name	current_column_name	description	value types	example	example2	comment	priority
surveyid	(none, will be generated)	unique value identifying the survey item in the collection	"aech_" + "svy_" + 00000	"aech_svy_00132"			1
lakeid	(none, will be generated)	this corresponds to one or more lakeid's from the lake table	text, copied from lake table	"aech_00002"	"aech_00113"	"Aech" is short for <i>Aechmophorus</i> , the genus for these 2 grebe species.	1
min_adults	# ADULTS MINIMUM	minimum count of adults	number, possibly inequality symbol or text	"100"	">100"	ideally just a number, but there may be a greater/equal than #, descriptive words, or number/word combo, according to the data source. Those may need to be manually entered.	1
year_min_adults	YEAR (# ADULTS MINIMUM)	year of minimum count of adults	number, possibly some text	"2008"	"2006-2008"	ideally just a number, but there may be a greater/equal than #, descriptive words, or number/word combo, according to the data source. Those may need to be manually entered.	1
max_adults_range	RANGE OF # ADULTS MAXIMUM	range of maximum count of adults	text, four categories	"501 to 1000"	">1000"	categories are 1 to 100, 101 to 500, 501 to 1000, >1000	
adults_max	# ADULTS MAXIMUM	maximum count of adults	number, possibly inequality symbol or text	"100"	">100"	same comment as in min_adult	1
year_max_adults	YEAR (# ADULTS MAXIMUM)	year of maximum count of adults	number, possibly some text	"2008"	"2006-2008"	same comment as in year_min_adult	1
most_recent_adults_range	RANGE OF # ADULTS MOST RECENT	range of most recent count of adults	text, four categories	"501 to 1000"	">1000"	categories are 1 to 100, 101 to 500, 501 to 1000, >1000	
most_recent_adults	MOST RECENT COUNT (# ADULTS)	most recent count of adults	number, possibly inequality symbol or text	"100"	">100"	same comment as in min_adult	1
year_most_recent_adults	MOST RECENT COUNT YEAR (# ADULTS)	year of most recent count of adults	number, possibly some text	"2008"	"2006-2008"	same comment as in year_min_adult	1
min_nests	# NESTS MINIMUM	minimum count of nests	number, possibly inequality symbol or text	"100"	">100"	same comment as in min_adult	2
year_min_nests	YEAR (# NESTS MINIMUM)	year of minimum count of nests	number, possibly some text	"2008"	"2006-2008"	same comment as in year_min_adult	2
max_nests_range	RANGE OF # NESTS MAXIMUM	range of maximum count of nests	text, four categories	"501 to 1000"	">1000"	categories are 1 to 100, 101 to 500, 501 to 1000, >1000	
max_nests	# NESTS MAXIMUM	maximum count of nests	number, possibly inequality symbol or text	"100"	">100"	same comment as in min_adult	2
year_max_nests	YEAR (# NESTS MAXIMUM)	year of maximum count of nests	number, possibly some text	"2008"	"2006-2008"	same comment as in year_min_adult	2

most_recent_nests_range	RANGE OF # NESTS MOST RECENT	range of most recent count of nests	text, four categories	"501 to 1000"	">1000"	categories are 1 to 100, 101 to 500, 501 to 1000, >1000	
most_recent_nests	MOST RECENT COUNT (# NESTS)	most recent count of nests	number, possibly inequality symbol or text	"100"	">100"	same comment as in min_adult	2
year_most_recent_nests	MOST RECENT COUNT DATE (# NESTS)	year of most recent count of nests	number, possibly some text	"2008"	"2006-2008"	same comment as in year_min_adult	2
min_chicks	# CHICKS MINIMUM	minimum count of chicks	number, possibly inequality symbol or text	"100"	">100"	same comment as in min_adult	2
year_min_chicks	YEAR (# CHICKS MINIMUM)	year of minimum count of chicks	number, possibly some text	"2008"	"2006-2008"	same comment as in year_min_adult	2
max_chicks_range	RANGE OF # CHICKS MAXIMUM	range of maximum count of chicks	text, four categories	"501 to 1000"	">1000"	categories are 1 to 100, 101 to 500, 501 to 1000, >1000	
max_chicks	# CHICKS MAXIMUM	maximum count of chicks	number, possibly inequality symbol or text	"100"	">100"	same comment as in min_adult	2
year_max_chicks	YEAR (# CHICKS MAXIMUM)	year of maximum count of chicks	number, possibly some text	"2008"	"2006-2008"	same comment as in year_min_adult	2
most_recent_chicks_range	RANGE OF # CHICKS MOST RECENT	range of most recent count of chicks	text, four categories	"501 to 1000"	">1000"	categories are 1 to 100, 101 to 500, 501 to 1000, >1000	
most_recent_chicks	MOST RECENT COUNT (# CHICKS)	most recent count of chicks	number, possibly inequality symbol or text	"100"	">100"	same comment as in min_adult	2
year_most_recent_chicks	MOST RECENT COUNT DATE (# CHICKS)	year of most recent count of chicks	number, possibly some text	"2008"	"2006-2008"	same comment as in year_min_adult	2
western_clarks_both	(none, will be generated)	was Western grebe, Clark's grebe, or both surveyed? enter as Western, Clark's or Both (# Clark's/# Western) or (# Clark's/# Western/# unidentified or intermediate). Include year if given.	text and numbers	"Clark's (1993), Western (2001), Both: Clark's/Western (14/50) in 2002"	"Western"	will manually enter, this can get wonky	2
survey_type	(none, will be generated)	type of survey method: shore, boat, air, drone, or combination of any of these	text, possible list	"shore, boat"			1
survey_time_period	SURVEY TIME PERIOD (DATE of 1st SURVEY, DATE of LAST SURVEY)	survey time period as: YYYY Month Date of first survey, YYYY Month Date of last survey. Enter just YYYY if no month/date provided.	text and numbers	"4 July 2007, 8 August 2010"	"2002, 2005"		1
frequency_survey	FREQUENCY of SURVEY: (# of TIMES per YEAR)	number of times surveyed per year if known	number	"3"			2
duration_study	DURATION of STUDY (# of YEARS)	number of years surveyed in this study	number	"5"			2
most_common_threats	(none, will be generated)	threats to this lake in no particular order	text, list	"water level too low, lack of/poor nest habitat"		will need to manually compile this	1

citations	CITATION	citations	text	"Ivey, G. 2004. Waterbird atlas....."			1
data_source_type	TYPE OF PAPER (PEER- REVIEWED, THESIS, REPORT, FACTSHEET, POPULAR ARTICLE, etc.)	type of data source (peer- reviewed article, thesis, report, factsheet, etc.)	text	"report"			1
survey_comment	COMMENT	comments on the survey	text	"observer multiplied nest #s by 2 to estimate adult #."			1