

Supplemental Material

This supplemental material contains descriptions and relationships of tables found within the Agricultural Wetlands Systematic Map database. The systematic map database stores information from studies conducted on the effects of agricultural intensification on birds using agricultural wetlands. The table descriptions and entity-relationship found in this document can be used to understand what data are stored in the database and how the tables are related to each other. The data from this systematic map are contained in the file *Agricultural_Wetlands_Systematic_Map_v1.xlsx*.

Table S1. *Descriptions of tables found in the Agricultural Wetlands Systematic Map database.*

Table Name	Description
Papers	General information unique to each study, including citation information, years the study was conducted, etc.
Countries	Countries studies were conducted in with their associated continent.
Measure_of_AI	Information associated with each aspect of agricultural intensification measured for a study and the associated effect on birds measured.
Type_of_AI	Aspects of intensification measured. Decodes the AI.ID field in the Measure of AI table.
Specific_Locality	The most specific location given for each study site in a given study.
Crop_Paper_Join	An association table to facilitate the many-to-many relationship between crop types and studies.
Crops	Crop type each study was conducted in. Decodes the Crop.ID field in the Crop_Paper_Join table.
Research_Funding	Information associated with agencies funding each study.
Birds	Information associated with bird species or guilds data were collected for.
Bird_Join	An association table to facilitate the many-to-many relationship between bird species or guild and the study that collected data for them.

Table S2. Fields names with their data types and descriptions within the Papers table.

Field	Data Type	Description
Paper.ID	Numeric	Primary key field for the Papers table.
Title	Character	Title of the article.
Authors	Character	Authors listed for the article.
Pub.Year	Numeric	Year the article was published.
Language	Character	Language the article was published in.
Study.Years	Character	Years in which the study was conducted.
Start.Year	Numeric	First year in which the study was conducted.
End.Year	Numeric	Last year in which the study was conducted.
Source	Character	Source for the article (e.g. journal name, conference name).
Volume	Numeric	Volume number for the publication the article was printed in.
Issue	Character	Issue number for the publication the article was printed in.
Pages	Character	Page numbers of the article from its source material.
Type	Character	Publication type of the article (e.g. journal article, thesis).
Information	Character	Any other information relevant to the article, such as English translations of non-English titles or thesis chapters that contain the data.

Table S3. Fields names with their data types and descriptions within the Countries table. This table allows for records of papers that contained data from multiple countries.

Field	Data Type	Description
Country.ID	Numeric	Primary key for the countries table.
Country	Character	Name of the country.
Continent	Character	Continent of the country.

Table S4. Fields names with their data types and descriptions within the Measure_of_AI table.

Field	Data Type	Description
Treat.ID	Numeric	Primary key for the Measure of AI table.
Paper.ID	Numeric	Foreign key for the Papers table.
AI.ID	Numeric	Foreign key for the Type of AI table.
Treat.Measurement	Character	The way the aspect of intensification was quantified.
Type.Effect	Character	The category of effect on birds that was studied.
Measure.Effect	Character	The way the effect on birds was quantified.

Table S5. Fields names with their data types and descriptions within the Type_of_AI table.

Field	Data Type	Description
AI.ID	Numeric	Primary field for the Type of AI table.
Type.Intensification	Character	The category of agricultural intensification studied.

Table S6. Fields names with their data types and descriptions within the *Specific_Locality* table.

Field	Data Type	Description
Local.ID	Numeric	Primary key for the Specific Locality table.
Specific.Locality	Character	The name given for the location of the study site.
Paper.ID	Numeric	Foreign key for the Papers table.
Country.ID	Numeric	Foreign key for the Countries table.
Lat	Character	Latitude of the study site, if given.
Long	Character	Longitude of the study site, if given.
Country.Sub	Character	Subdivision of the country (e.g. state, province, etc.) that the field site was located in.

Table S7. Fields names with their data types and descriptions within the Crop_Paper_Join table.

Field	Data Type	Description
CrPa.ID	Numeric	Primary key for the Crop Paper Join table.
Paper.ID	Numeric	Foreign key for the Papers table.
Crop.ID	Numeric	Foreign key for the Crops table.

Table S8. Fields names with their data types and descriptions within the Crop table.

Field	Data Type	Description
Crop.ID	Numeric	Primary key for the Crops table.
Crop	Character	Name of the agricultural product produced at a study stie.

Table S9. Fields names with their data types and descriptions within the *Research_Funding* table.

Field	Data Type	Description
Fund.ID	Numeric	Primary key for the Research_Funding table.
Paper.ID	Numeric	Foreign key for the Papers table.
Agency	Character	Agency which provided funding for the study.
Type	Character	Type of agency (e.g. governmental department, nongovernmental organization).
Interest	Character	Interests of the funding agency (e.g. water, agriculture).

Table S10. Fields names with their data types and descriptions within the Birds table.

Field	Data Type	Description
Bird.ID	Numeric	Primary key for the Birds table.
Com.Name	Character	Common name for the bird species, as listed in the International Ornithologists' Union bird list ¹ .
Order	Character	The taxonomic order for the bird species, as listed in the International Ornithologists' Union bird list.
Family	Character	The taxonomic family for the bird species, as listed in the International Ornithologists' Union bird list.
Genus	Character	The genus for the bird species, as listed in the International Ornithologists' Union bird list.
Species	Character	The species epithet for the bird species, as listed in the International Ornithologists' Union bird list.
Status	Character	The global conservation status for the bird species, as listed by the IUCN ² .

¹ Gill F, D Donsker & P Rasmussen (Eds). 2019. IOC World Bird List (v.9.2), doi: 10.14344/IOC.ML.10.1. <<https://www.worldbirdnames.org/ioc-lists/master-list-2/>>

² IUCN 2019. The IUCN Red List of Threatened Species. Version 2019-3. <<https://www.iucnredlist.org>>

Table S11. Fields names with their data types and descriptions within the Bird_Join table.

Field	Data Type	Description
BTJoin.ID	Numeric	Primary key for the Bird_Join table.
Treat.ID	Numeric	Foreign key for the Measure of AI table.
Bird.ID	Numeric	Foreign key for the Birds table.

Figure S1. An entity-relationship diagram for the Agricultural Wetlands Systematic Map database, showing the relationships between all tables in the systematic map.

