**Breeding Bird Monitoring Protocol for the Heartland Inventory and Monitoring Network**

**Standard Operation Procedure 6: Data Management**

**Version 4.00 (09/01/2022)**

**Revision History Log:**

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| --- | --- | --- | --- | --- | --- |
| Previous Version # | Revision Date | Author | Changes Made | Reason for Change | New Version # |
| 1.01 | May 2008 | D.G. Peitz | Entire document | Edited to reflect that bird monitoring has been expanded to ten additional network parks | 2.00 |
| 2.00 | May 2019 | D.G. Peitz  G. A. Rowell | Edited to clarify conversion of our database to SQL Server; Updated throughout to NRR format. | Updates reflect the conversion of the bird database from Access to an online SQL database. Made SOP NRSS compliant. | 3.00 |
| 3.00 | Sept 2022 | G. A. Rowell, D. G. Peitz | New HTLN Breeding Bird IRMA application | App migration to IRMA. | 4.0 |
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This Standard Operating Procedure describes procedures for managing the Heartland Inventory and Monitoring Network database for breeding bird communities. Specifically, this document addresses procedures for data entry, verification, validation, export to outside systems, security, and availability.

**Data Model**

The data object relationships in the Heartland Inventory and Monitoring Network Landbird database are shown in Figure 6.1. The database is a point count design with continuous distance and with detailed vegetation information. Vegetation profile data are collected to the nearest sampling season (year) while bird observations are collected to the nearest minute interval.



Weather

Bird

Observations

Sampling Period and Location

**Bird Data**

**Habitat**

Slope and Aspect



Vegetation Type

Tree Tally

Canopy Height

Canopy Cover

Basal Area

Ground Cover

Foliar Cover

Horizontal Vegetative Structure

Vertical Vegetative Structure

Location Only

(Permanent Features)

Plot

Subplot

Sampling Period and Location

Plot

Subplot

**Figure 6.1**. Data model for Heartland Inventory and Monitoring Network breeding bird database.

**Field Data Preparation**

Quality assurance and quality control procedures related to data recording are important components of any project. Sampling data, for example sampling intervals, site conditions, species plot count data and vegetation profile data (where collected), are recorded and checked for completeness either before leaving a site or within 24 hours of data recording. This will aid in verification and validation of the data after entry into the database. To prevent the complete loss of field form data due to unforeseen circumstances (i.e., fire or flood in the workplace), field sheets are scanned into a computer and electronic copies of the data sheets stored on the Heartland Inventory and Monitoring Network server located at Wilson’s Creek National Battlefield, Republic, MO. This will ensure that at least one copy of the field sheets is available for data entry and verification.

**HTLN\_Landbirds Database – IRMA application (frontend)**

The HTLN\_Landbirds database is part of the NPS IRMA system. Open a web browser, preferably MS Edge and navigate to the IRMA home page here:

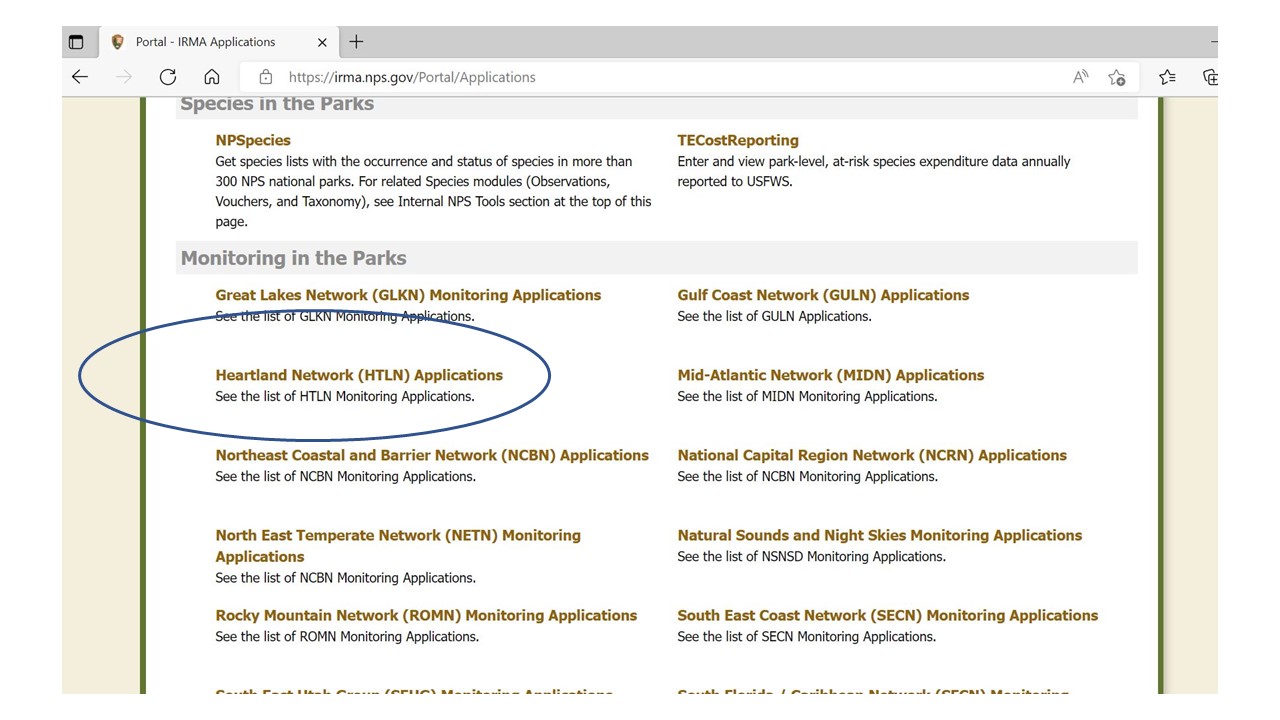
<https://irma.nps.gov/Portal/>

Be sure you are either on the NPS domain (at an NPS park) or using the Pulse Secure VPN from a remote site. To find the HTLN\_Landbirds from the IRMA home page. Click on the “More Applications” text on the IRMA homepage (see Figure 6.2 and 6.3).

Graphical user interface, website

Description automatically generated

**Figure 6.2.** – Navigating to the HTLN\_BreedingBirds database: Step 1- IRMA home page.



**Figure 6.3.** – Navigating to the HTLN\_BreedingBirds database: Step 2- See the bottom of the IRMA applications page.

Users must be given permissions to use the HTLN\_Landbirds Database by the IRMA systems administrators (contact the Fort Collins I&M Office for details). The URL for the application is

<https://irma.nps.gov/HTLN/Landbirds/>

**Data entry**

Prior to doing any data entry, a new record in the SamplingPeriod table must be created for each park x season. The most important column in the sampling period table is the PeriodID. This value is required. It has a fixed format that consists of three pieces of information: the park, the project and the date of the first day of the field season at a given park. For example, the PeriodID value of ‘WICRTweety2022Jun21’ consists of

1. the park code, for example ‘WICR’ for Wilson’s Creek,
2. the 6 letter project code which for breeding birds is always ‘Tweety’,
3. and the date of the first day of the field season, for example, ‘2022Jun21’. Note that the month is always expressed as three letters.

Creating a Sampling Period record, including the sampling period is accomplished by opening the sampling period form and simply creating a new record (Figure 6.4).

Graphical user interface, application

Description automatically generated

**Figure 6.4.** – New sampling periods can be created using the ‘Sampling Periods’ form under the ‘Main’ menu.

New observers’ names and initials are maintained in the database’s contacts list. From the web app, go to ‘lists’ on the top menu and select ‘Contacts’. Project participants can be added and edited from this form (Figure 6.5)

Graphical user interface, table

Description automatically generated

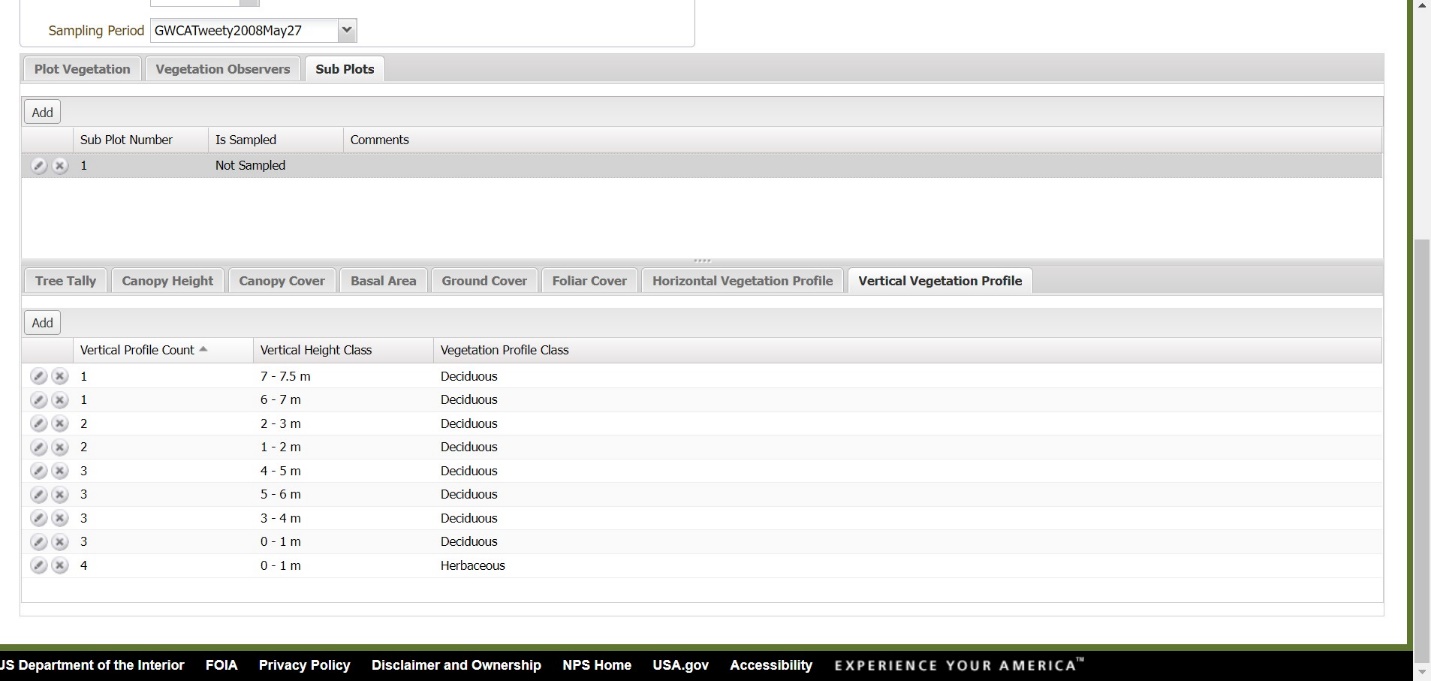
**Figure 6.5.** – New observers can be added to HTLN\_Landbirds application through the contacts form under the ‘List Maintenance’ menu category.

Data entry is accomplished by filling out the online forms such as site conditions and bird observations (Figure 6.6) while habitat data is entered separately using several available habitat forms (Figure 6.7).

![Graphical user interface

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RCoRXhpZgAATU0AKgAAAAgABAE7AAIAAAASAAAISodpAAQAAAABAAAIXJydAAEAAAAkAAAQfOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJvd2VsbCwgR2FyZXRoIEEuAAAB6hwABwAACAwAAAhuAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Miuy+HvxJ1DwFqDeWv2zS7ji5sXbCycYyM5wf5964rpSVfPcjlPR/iD8VD4s0y20PQ9OTRtDt8EWiEHew6E4AAA9BXnmRTOtJQpWDluKTkk0daPpSVBYUUUdKACigUvTrQBfi1GOOFEaJiVABIxTxqsf8Azyf9KzaK745hXirJ/gczwtJu5pf2rH/zyf8ASq15di6CBUK7c9aq9qKmpja1WDhJ6McMPThLmQtJ9aKK4joCiiigAooooAKKKKACgUtJmgAozRR1oAKKKKACijvijNABRRmigAozS9KSgANFL1pKACl60fSkoAKKKOlABRQKXp1oASilooASijtRQAtJ9aKKACiiigAooooAKKKKACgUtJmgAozRR1oAKKKKACijvijNABRRmigAozS9KSgANFL1pKACl60fSkoAKKKOlABRQKXp1oASilooASijtRQAtJ9aKKACiiigAooooAKKKKACgUtJmgAozRR1oAKKKKACijvijNABRRmigAozS9KSgANFL1pKACl60fSkoAKKKOlABRQKXp1oASilooASijtRQAtJ9aKKACiiigAooooAKKKKACgUtJmgAozRR1oA6Pwfe6HZavaSatp95c3C3KtFLHOPKQ8bS0O0NJhucCRM9K6230ibS/i74g1fxHcx6gnh55NQuJ1Xas82cwqB2Jdl+XP8JHOK47TvGut6Xa2sNnLZj7GCLaWXTreWWH5i3yyuhdcMSRg8Z4xSP4pkbwjd6P5UjXOoXou76+knLtcBQdqEEZ4YlickkmgC74L1fULj4iaZ5t5Ntv8AV7ea6QOQsz+cGBZRwcEkj0zVHXbSW/8AiBqVnbLumuNUlijHqzSkD9TWVYX1xpmo297ZSeVc20qyxPtB2upyDg8Hkd6nt9c1C18QLrcE4XUVuPtImManEmd27aRt684xigDpPiHMLjxdD4c0hfNtNFRNMtUjHMkgP7xsd2aQt9eKteLrC51HxPpHgXw/H9qfSYRZKkZG2S5b553z2G4nJPQJ7VzugeIxpXi+LX9Qtf7Snjla4CNJ5YaY5KueD0Y7scZxUGmeJNV0fXzrWn3Xl6gWcmZ40k3FwQ2VYEHIY9R3oA6nUNR0bw1oI8JaZeDUpLi+in1fUIwRAfL4EUXdlBJO/jOOBg10zeb/AMNWb23ALfCTPTEQhzn6bP0rzW+8U3+oWb2txb6SkcgGWt9HtIXHfh0jDD8DUx8ceIW0sWBvwY1tvsgl+zx+f5Gc+V5+3zNnbbuxjjGOKANjSNA02KR/Fnie4NtoX2x/slvCmZtRZWyUjU8Kg6M54GcDJ6V1tL74keLtX1y8mh02yDm6v7yYkx2kROFHAy7YwqqOWPpyRQg8ba1BpVpppawuLSyDLbJd6XbXBiDNuIDSRseSc9aW18b63Zrepbtp6w37RtcW50u1MLlM7T5Zj2DGT0A55oAm8Z+IbLVm03TdDjmTSNHtvs1sbjAkmJYs8rAcAsT05wAK5nrWhqmuXWsCIXUVjH5ZO37Jp8FtnPr5SLu6d84rOoAKKKOlABWzpVxNcaTd6WJXK7hdRxbjt3KCGwvTO05z6JWMKfFLJbzJLE7JIhDKynkEd6AOx8HaXPqF3cSWHiaz8P3sCgxyXd2bYSA5DASDoRxx3zXR/E7VrO40Hw1pUmr2+va1p8MovtTt5DIrBmBSPf8Ax4HGfbPUmvPxqFhdfNewyW0p+89soZWPrsJGPwOPYUG80yDDQx3F2/YTqIkB9wrEke2RQAXh+z6EkTjD3UwlA9EQMoP0JZv++TWRU11dS3lw09w2529BgADgADsAOMVDQB//2Q==)

**Figure 6.6.** Data entry form for bird observations and site information.



**Figure 6.7.** Data entry form for habitat including canopy details where trees are present and foliar and ground cover.

**HTLN\_Landbirds Database – SQL Server database (backend)**

The breeding bird monitoring database is implemented in Microsoft SQL Server. It is called HTLN\_Landbirds. The production version is currently housed on the following WASO SQL Server instance:

**Inp2300sql01\ntwk**

A local copy of SQL Server 2019 Express (free version) or more recent version is necessary to view the database backend (see Appendix 6.1 for installation notes). Once the SQL Server Express installation is successful, you will need to install the latest version of SQL Server Management Studio (shown in Figure 6.8 and Figure 6.9)

The database backend is read-only and can be used to download data for QA/QC and analysis. The user interface for SQL Server Management Studio is intuitive but it requires some basic knowledge of SQL in order to download data. Fortunately, the primary and foreign key naming conventions in all of the tables are very consistent, making SQL JOINs straightforward. Furthermore, SQL scripts are saved to the user’s local computer by default so that they can easily be reused. Some examples of SQL scripts and their associated data are given in Appendix 6.2.

When SQL Server Management Studio is opened, it will immediately ask which SQL Server instance should be used. Connect to the instance **Inp2300sql01\ntwk** as shown in Figure 6.8.

Graphical user interface, application

Description automatically generated

**Figure 6.8.** Connecting to the IRMA production instance from SQL Server Management Studio (SSMS). Step 1 – Connect to the SQL Server instance **Inp2300sql01\ntwk**

After you have connected to the SQL Server instance, locate the HTLN\_Landbirds database in the explorer window on the left, and try out the connection by running some SQL queries (see Figure 6.9).

**Graphical user interface, text, application

Description automatically generated**

**Figure 6.9** - Running a SQL query in SSMS.

Click on any table and view the columns. The primary key in *every* table is called ID. The foreign keys in every table are called <table>ID. This notation will be used frequently when writing SELECT scripts (see Appendix 6.2 for a complete example).

**Data Verification**

Data verification immediately follows data entry. Computer records are verified for accuracy against paper field data sheets. Hard copy of data records should be used in the verification against field data to minimize proof-reading error. Compare the output directly with original field data sheets to identify missing, mismatched, or redundant records. The verification step should be completed by staff other than those doing data entry, if at all possible. Following verification, the project manager should recheck 10% of the records. The verification and recheck steps should be repeated until no errors are discovered

Procedures:

1. Open SQL Server Management Studio and connect to the IRMA instance.
2. Create a new query or open an existing one to SELECT the data needing verification.
3. Execute the query.
4. Select all from the Results tab and paste it into Excel. Names of columns will need to be designated afterwards. Check the record count in Excel to see that it matches the results in SQL Server Management Studio.
5. Recheck 10% of records. If errors are detected, repeat steps 2 and 3.

**Data Validation**

Data validation involves the application of business rules and checking the accuracy of data against outside controls or specifications. Four types of data validation are used with the breeding bird database. They are:

* + Explicit primary – foreign keys
  + No nulls for any column on all tables
  + Nominal data are restricted to pick lists / combo boxes
  + Reasonable values for continuous attribute data

Referential Integrity

Referential integrity is a property of the relationships between database tables. Referential integrity is created by imposing rules or “constraints” on the relationships between key fields. A key can be either a primary key or a foreign key depending upon what rules are assigned to it. Primary key values must be unique and cannot be null. Each value in a foreign key must be derived from the domain of its related primary key. Referential constraints prevent dangling references between rows of related tables. Furthermore, they reduce the chance of inadvertent record deletions.

Nominal data

Nominal data is controlled during the data-entry process by limiting data-entry to pre-determined values using pick list and combo-box controls on forms. Examples of nominal data include species, ground cover type, foliar cover type and vegetation type.

Continuous data

Validation of continuous data requires the attention of the project manager. Knowledge of the ecological system is necessary to determine what constitutes a reasonable quantitative value for a particular parameter. The data can be exported to a statistical package for quantitative evaluation. Although analysis might be conducted on trimmed distributions, the complete dataset should always be retained to identify possible sources of error.

Procedures:

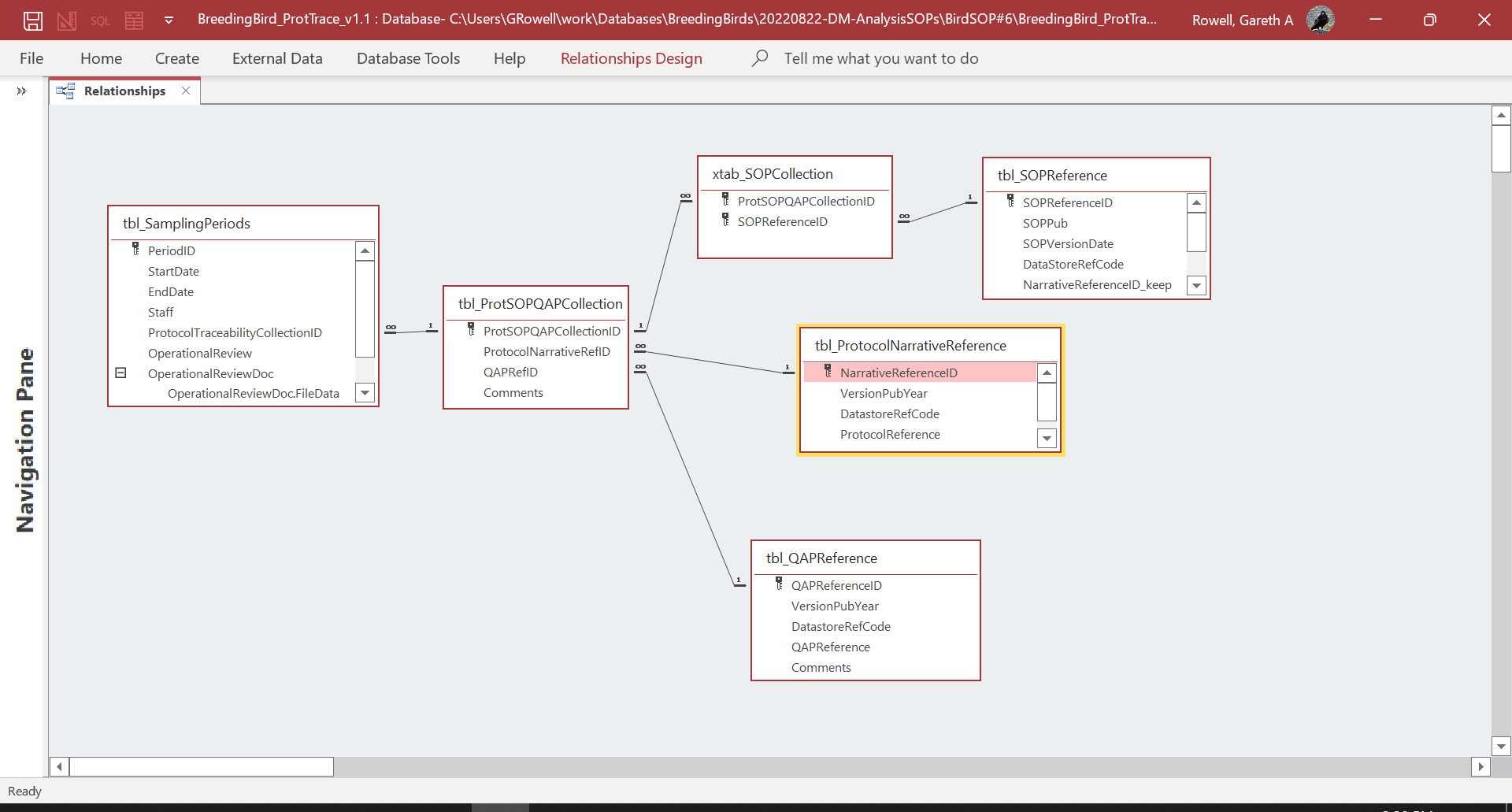
1. Export the datasets of interest (see Exporting Data below).
2. Import the data into a spreadsheet or statistical package.
3. Calculate descriptive statistics such as mean, median, standard deviation, range, and sample size. Plot a histogram and identify outlier values.
4. Extreme individual values may indicate recording or data-entry errors.

**Protocol Traceability**

Protocol traceability is a collection of tables containing information about protocol documents. It was developed so that PeriodIDs in the Sampling Periods table can be associated with the correct protocol narrative and SOPs. For the breeding bird protocol, this information is maintained in a separate MS Access database called BreedingBird\_ProtTrace\_v1.1.accdb located here:

N:\HTLN\Databases\BreedingBirds

The table relationships are shown in Figure 6.10.



**Figure 6.10** – Protocol traceability tables linking protocol reference documents with the Sampling Period table.

**Operational Review**

The Sampling Period table stored in the protocol traceability database (see section above) also contains a checkbox and an attachment field to store copies of operational reviews. An operational review should be completed at the end of each field season. The project lead should indicate in the protocol sampling period table that the operational review has completed for each sampling period. The table also allows copies of the operational review to be attached directly to the table.

**Metadata and Dataset Packaging for Distribution**

The NPS Inventory and Monitoring Division requires that datasets be exported into machine readable data packages which include complete EML metadata. Following annual reporting, the complete validated dataset for HTLN\_Landbirds should be exported to .csv format and an updated metadata file that meets EML specifications will be published along the data. Data packages should be attached to standalone references in IRMA (<https://irma.nps.gov/DataStore>). Detailed guidance for developing the publishable dataset can be found in the following links

<https://irma.nps.gov/DataStore/Reference/Profile/2260267>

[https://eml.ecoinformatics.org/](https://eml.ecoinformatics.org/%09)

[The exact references for the Protocol narrative and the data package will be included here after the DOI has been assigned to the revised protocol by Fagen]

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**Appendix 6.1.** Notes on Microsoft SQL Server Express installation

A local copy of SQL Server Express Version 19 or more recent is required in order to connect with the remote IRMA SQL Server instance. The Heartland Inventory and Monitoring Network Landbird Database backend is located on the IRMA SQL Server instance. SQL Server Express software is free. Authentication is based on the Windows user, so no login information is required. Go to the official Microsoft site to download SQL Server Express. There are instructions for installing the software on the Microsoft site, be sure to read them. There are also many tutorials at other sites. Do the install slowly and carefully. *Be sure appropriate administrative permissions are in place before beginning*. Plan to spend an hour or so on the install if this is the first time. There will normally be plenty of disk space and memory, and the prerequisite .net framework software will already be installed. SQL Server Management Studio (SSMS) should also be installed separately.

<https://www.microsoft.com/en-us/sql-server/sql-server-editions-express>

For later versions of SQL Server Express, specify the “Express Advanced” version after the initial install executable is downloaded.

**Appendix 6.2.** Examples of SQL for downloading data.

Example 1. SELECT command for site conditions and bird observations at TAPR and results.

USE HTLN\_LandBirds;

SELECT P.LocationName AS Plot, Right(E.EventName,15) AS EDateTime,

E.Temperature\_C AS Temp\_C, W.Code AS Wind, R.Code AS Precip,

E.Clouds\_pct AS PctCloud, N.Code AS Noise, B.ObservationNumber AS ObsNo, I.Name AS Interval, S.TaxonCode AS AOUCode, B.Distance, D.Code AS DetectType, X.Name AS Sex, A.Name AS Age, B.FlockSize, B.IsPreviousPlot, B.IsFlyover

FROM dbo.BirdSamplingEvent AS E

JOIN dbo.BirdObservation as B

ON E.ID = B.BirdSamplingEventID

JOIN LU.BirdSpecies AS S

ON B.BirdSpeciesID = S.ID

JOIN dbo.Plot AS P

ON E.PlotID = P.ID

JOIN LU.Noise AS N

ON E.NoiseID = N.ID

JOIN LU.Rain AS R

ON E.RainID = R.ID

JOIN LU.Wind AS W

ON E.WindID = W.ID

JOIN LU.Interval AS I

ON B.IntervalID = I.ID

JOIN LU.Sex AS X

ON B.SexID = X.ID

JOIN LU.DetectionType AS D

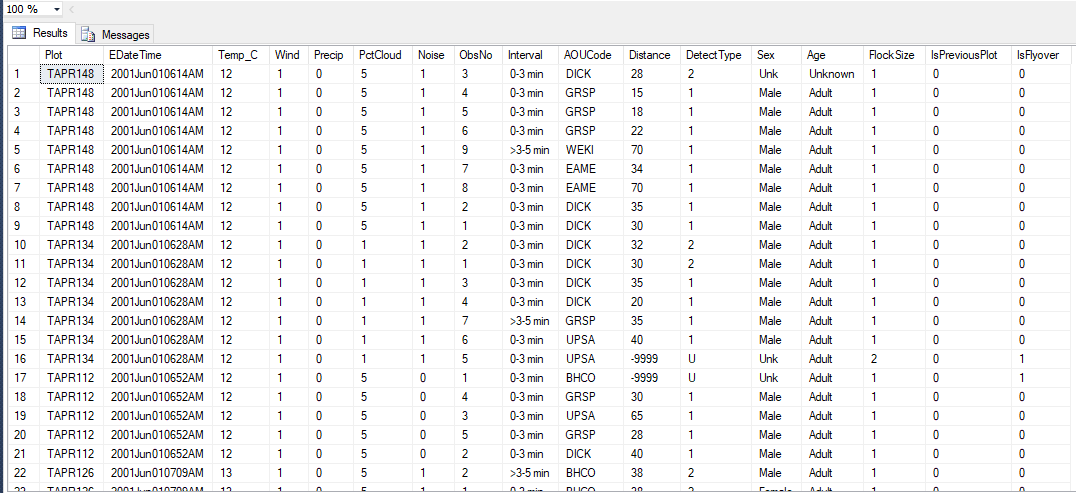
ON B.DetectionTypeID = D.ID

JOIN LU.Age AS A

ON B.AgeID = A.ID

WHERE (LEFT(P.LocationName,4) = 'TAPR')

ORDER Right(E.EventName,15), P.LocationName;



Example 2. SELECT command for Horizontal Distance Profile at TAPR and results of query.

USE HTLN\_LandBirds;

SELECT Right(Left(E.EventDateTime,11),4) AS Year, L.LocationName AS Plot, S.SubPlotNumber AS SubPlot,

X.Name AS Distance, D.Name AS Height, C.Code AS CoverClass

FROM dbo.Plot AS L

JOIN dbo.VegetationSamplingEvent AS E

ON L.ID = E.PlotID

JOIN dbo.SubPlot AS S

ON E.ID = S.VegetationSamplingEventID

JOIN dbo.HorizontalVegetationProfile AS H

ON S.ID = H.SubplotID

JOIN LU.DensityBoardHeightClass AS D

ON D.ID = H.DensityBoardHeightClassID

JOIN LU.DensityBoardCoverClass AS C

ON C.ID = H.DensityBoardCoverClassID

JOIN LU.DensityBoardDistanceClass AS X

ON X.ID = H.DensityBoardDistanceClassID

WHERE (LEFT(L.LocationName,4) = 'TAPR')

ORDER BY Right(Left(E.EventDateTime,11),4), Plot, SubPlot, Distance, Height

