

North American Bird Banding Program Data Requests 2022

Metadata:

- Identification_Information
- Data_Quality_Information
- Spatial_Data_Organization_Information
- Spatial_Reference_Information
- Entity_and_Attribute_Information
- Distribution_Information
- Metadata_Reference_Information

Identification_Information:

Citation:

Citation_Information:

*Originator:*Celis-Murillo, Antonio

*Originator:*Malorodova, Margarita

*Originator:*Nakash, Elaine

*Publication_Date:*20220711

Title:

North American Bird Banding Program Data Requests 2022

*Geospatial_Data_Presentation_Form:*digital data (CSV)

Publication_Information:

*Publication_Place:*Laurel, MD

*Publisher:*U.S. Geological Survey

Online_Linkage:https://www.pwrc.usgs.gov/bbl/Bander_portal/login/main_login.php

Description:

Abstract:

The North American Bird Banding Program is directed in the United States by the U.S. Geological Survey (USGS) Bird Banding Laboratory (BBL), Eastern Ecological Science Center at the Patuxent Research Refuge (EESC) and in Canada by the Bird Banding Office (BBO), Environment and Climate Change Canada (ECCC). The respective banding offices have similar functions and policies and use the same bands, reporting forms and data formats. Data contributors are US and Canadian bird banding permit holders: federal, state, tribal, local government, non-government agencies, business, university and avocational biologists. Bird banders capture wild birds and mark them with a metal leg band with a unique 9-digit number. Extra markers may be added. Attributes of a bird such as age, sex, condition, molt and morphometrics may be taken before the bird is released. This long-term dataset is made up of over 76 million bird banding records with over 1,000 species, and over 5 million encounter records with nearly 800 species. Federal bands are used on species included in the Migratory Bird Treaty Act (MBTA). Banding, encounter and recapture records are available for years 1960 to 2022. The data is curated at BBL on a daily basis, therefore each yearly version may differ from previous releases. The BBL produces one data release annually, beginning in 2020. Each yearly release is available for request. Data quality is

established by contributors submitting their data. Incoming data must pass automatic validation rules to meet quality standards, and in some cases additional validation is conducted by staff at BBL and BBO. It is imperative to understand the codes used by the BBL and BBO. In early days of storage space restrictions for electronic data, an efficient system of codes was developed. Some examples include: bird status code, coordinate precision, inexact date, minimum age at encounter. BBL terminology is important as well: an encounter refers to a sighting or direct encounter with a banded or auxiliary-marked bird by any person; recapture denotes a banded bird recaptured during banding operations; recovery refers a harvested gamebird. Please cite as: Celis-Murillo A, M Malorodova, E Nakash. 2022 North American Bird Banding Data Request 2022. U.S. Geological Survey, Eastern Ecological Science Center at the Patuxent Research Refuge.

Purpose:

Bird banding data may be used to study avian movements and distribution, wildlife diseases, longevity and demography. Data are also used for developing effective science, management and conservation practices of gamebirds and songbirds.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

*Beginning_Date:*1960

*Ending_Date:*2022

Currentness_Reference:

ground condition

Status:

*Progress:*In work

*Maintenance_and_Update_Frequency:*Annually

Spatial_Domain:

*Location:*Global extent with a focus on North America, U.S. Territories. Central America, Caribbean islands, South Pacific islands. 98% of banding records are located in NW quadrant of earth.

Bounding_Coordinates:

West_Bounding_Coordinate:-180.0

*East_Bounding_Coordinate:*180.0

*North_Bounding_Coordinate:*90.0

South_Bounding_Coordinate:-90.0

Keywords:

Theme:

*Theme_Keyword_Thesaurus:*USGS Thesaurus

*Theme_Keyword:*Aves

*Theme_Keyword:*bird banding

*Theme_Keyword:*migratory species

*Theme_Keyword:*capturing (animals)

*Theme_Keyword:*tagging

*Theme_Keyword:*natural resource management

Place:

*Place_Keyword_Thesaurus:*Geographic Names Information System (GNIS)

*Place_Keyword:*North America

*Place_Keyword:*South America

*Place_Keyword:*Africa

*Place_Keyword:*Asia

*Place_Keyword:*Antarctica

*Place_Keyword:*Europe

*Place_Keyword:*Oceania

Tools:

*tooldesc:*Bander Portal data request.

toolacc:

onlink:https://www.pwrc.usgs.gov/bbl/Bander_portal/login/main_login.php

*toolinst:*Bander Portal data request. User must first create an account in the bander portal. In main menu, select Data > Data Request. Dataset may be searched by release year and species (common or scientific name). Three request types are available: banding data only, banding data with related encounters (if any), and encounters data (related banding data are included).

toolcont:

Contact_Information:

Contact_Person_Primary:

*Contact_Person:*Margarita Malorodova

*Contact_Organization:*U.S. Geological Survey

*Contact_Position:*IT Specialist

Contact_Address:

*Address_Type:*mailing and physical

*Address:*12100 Beech Forest Road

*City:*Laurel

*State_or_Province:*MD

*Postal_Code:*20708

*Country:*US

*Contact_Voice_Telephone:*301-497-5824

Contact_Electronic_Mail_Address:mmalorodova@usgs.gov

Taxonomy:

Keywords/Taxon:

*Taxonomic_Keyword_Thesaurus:*USGS Biocomplexity Thesaurus

*Taxonomic_Keywords:*Birds

taxonsys:

classsys:

classcit:

Citation_Information:

*Originator:*R. Terry Chesser, Kevin J. Burns, Carla Cicero, Jon L. Dunn, Andrew W. Kratter, Irby J. Lovette, Pamela C. Rasmussen, J. V. Remsen, Jr., James D. Rising, Douglas F. Stotz, and Kevin Winker

*Publication_Date:*2015

Title:

Fifty-sixth Supplement to the American Ornithologists' Union Check-list of North American Birds

*Geospatial_Data_Presentation_Form:*ONLINE_REFERENCE

Publication_Information:

*Publication_Place:*Chicago, IL

*Publisher:*American Ornithological Society

Online_Linkage:<https://doi.org/10.1642/AUK-15-73.1>

classsys:

classcit:

Citation_Information:

*Originator:*Gill, F & D Donsker (Eds)

*Publication_Date:*2016

Title:

IOC World Bird List (v 6.3)

*Geospatial_Data_Presentation_Form:*ONLINE_REFERENCE

Publication_Information:

*Publication_Place:*Cleveland, OH

*Publisher:*International Ornithologists Union

Online_Linkage:<http://worldbirdnames.org/>

idref:

Citation_Information:

*Originator:*Pyle, Peter

*Publication_Date:*2008

Title:

Identification Guide to North American Birds, Parts I and II

*Geospatial_Data_Presentation_Form:*digital data (CSV)

Publication_Information:

*Publication_Place:*Point Reyes Station, CA

*Publisher:*Slate Creek Press

idref:

Citation_Information:

*Originator:*Sibley, David

*Publication_Date:*2000

Title:

The Sibley Guide to Birds

*Geospatial_Data_Presentation_Form:*digital data (CSV)

Publication_Information:

*Publication_Place:*New York, NY

*Publisher:*Alfred A. Knopf

ider:

Contact_Information:

Contact_Person_Primary:

*Contact_Person:*Bird Banding Laboratory

*Contact_Organization:*U.S. Geological Survey

Contact_Address:

*Address_Type:*mailing and physical

*Address:*12100 Beech Forest Road

*City:*Laurel

*State_or_Province:*MD

*Postal_Code:*20708

*Country:*United States

*Contact_Voice_Telephone:*301-497-5500

Contact_Electronic_Mail_Address:bbl@usgs.gov

ider:

Contact_Information:

Contact_Person_Primary:

*Contact_Person:*BBO staff

Contact_Organization:ECCC Bird Banding Office

Contact_Address:

Address_Type:mailing and physical

Address:National Wildlife Research Centre, Carleton University, 1125 Colonel By Drive (Raven Rd)

City:Ottawa

State_or_Province:ON

Postal_Code:K1A 0H3

Country:Canada

Contact_Voice_Telephone:613-998-0309

Contact_Electronic_Mail_Address:BBO_CWS@ec.gc.ca

taxonpro:expert advice;;identification keys

taxoncom:Taxonomic revisions by the American Ornithological Society (AOS) have resulted in many changes in bird classification over the past several decades. The Banding Offices acknowledge these changes and use common names assigned by AOS. AOS discontinued species numbers with the 7th edition of the checklist, and BBL continues to use numbers from the 6th edition with modifications. However, BBL maintains common names and species numbers where AOS has combined formerly acknowledged species. For a list of BBL species designations with 4-character alpha and numeric codes, and scientific and common names, refer to the species.csv lookup table included with the data release bundle for a particular year/version.

taxongen:Most birds are identified to species in the data, some to subspecies. For some species, there is an "unidentified" category, to be used only for truly unidentifiable or intergrade individuals - not in place of subspecific designation. For the most part, federal bands are used on species included in the Migratory Bird Treaty Act (MBTA). The taxa for which we have included formerly recognized species are: Townsend's Shearwater, Green-winged Teal, Snow Goose, Canada Goose, Brant, Tundra Swan, Great Blue Heron, Red-tailed Hawk, Northern Flicker, Savannah Sparrow, Seaside Sparrow, White-crowned Sparrow, Dark-eyed Junco, Yellow-rumped Warbler, and Palm Warbler. Some bird species are not banded with federal bands, and therefore are not represented in this dataset. These include gallinaceous birds (quail, turkey, grouse), and rock dove, or introduced species.

Taxonomic_Classification:

Taxon_Rank_Name:Kingdom

Taxon_Rank_Value:Animalia

Taxonomic_Classification:

Taxon_Rank_Name:Order

Taxon_Rank_Value:Aves

Access_Constraints:none

Use_Constraints:

none

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person:Antonio Celis-Murillo

Contact_Organization:U.S. Geological Survey

Contact_Position:Bird Banding Laboratory Manager

Contact_Address:

Address_Type:mailing and physical
Address:12100 Beech Forest Road
City:Laurel
State_or_Province:MD
Postal_Code:20708
Country:US
Contact_Voice_Telephone:301-497-5808
Contact_Electronic_Mail_Address:acelis-murillo@usgs.gov

Data_Set_Credit:

ECCC Bird Banding Office; bird banders, those reporting banded birds

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

Attribute accuracy varies according to contributor. Quality control validation checks occur in data submission applications (desktop and web-based), and all incoming data are filtered in processes developed in the laboratory information management system. Values failing automatic filters are reviewed by BBL staff and communicated to the original contributors for corrections or confirmations. Obfuscated locations: Prior to data release, locations for sensitive species and gamebird species are masked and generalized to a larger area. Sensitive species include diurnal raptors, US Threatened & Endangered, and Canadian Species at Risk Act (SARA) species. All banding and encounter records for sensitive species are released at a 10-minute block coordinate precision. Gamebirds include waterfowl, cranes, rails, woodcock, doves, crows and ravens. All gamebird bandings are released at a 1-degree block coordinate precision, and encounters are released at coordinate precisions as originally provided. Descriptions may be found in coordinates precision.csv lookup table included with the data release bundle for a particular year/version. Inexact dates: Banding and encounter date fields are text-formatted and may contain inexact date codes such as 41, 82, 99. Descriptions may be found in the inexact_dates.csv lookup table.

Logical_Consistency_Report:

Incoming data must pass through 50 logical filters before processing into database. A few examples of logical accuracy tests include: Band numbers reported by banders must match band numbers issued to the permit. For a particular band number, species reported at time of original banding must match any subsequent encounters for that band number (species mismatch filter). A bird cannot be re-trapped if an encounter record with a present condition of 'dead' already exists in the database. Terminal encounters in database: If present condition is one of unknown-removed (02), dead-unknown (03), dead-left on bird (04), dead-removed (05), alive/released-removed (08), alive/in captivity-removed (11), alive/unknown-removed (14); and count above is 0, count the number of records in the band history table with this band number, band event type =3 (encounter), present condition one of dead-unknown (03), dead-left on bird (04), dead-removed (05); and latest possibility for inexact date earlier than the earliest possibility for inexact date of this record. If count>0, then assign "2nd terminal encounter in database" (Enc Error ID 5= true) and enc error group D (duplicate).

Completeness_Report:

Data set is considered complete for the information presented, as described in the abstract. Data not provided in this set include original banding prior to 1960, records marked as hidden due to unresolved errors and original bandings marked as hidden. Users are advised to read the rest of the metadata record carefully for additional details.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Accuracy varies widely. Google Earth, Google Maps may be used by BBL staff to confirm locations. Data contributors are contacted by BBL staff to resolve accuracy of horizontal locations.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

No formal positional accuracy tests were conducted.

Lineage:

Method:

*Methodology_Type:*Field

*Methodology_Description:*Methods are unknown for individual contributors, unless part of a standard project such as Monitoring Avian Productivity and Survivorship (MAPS) protocol, or guidelines established by the BBL North American Bird Banding Manual, North American Banding Council (NABC) manuals (nabanding.net/other-publications/), or other published accepted methods.

Process_Step:

Process_Description:

Banding data are collected in the field on behalf of permitted bird banders by the banders themselves or their assistants. Data were originally recorded on paper sheets (schedules) and sent to BBL where they were entered by staff into a database. Beginning in 2006, a series of desktop applications were developed by BBO and BBL for banders to validate and submit formatted banding and recapture records. As of 2022, the application most widely used is Bandit version 4.0. Data text files are created in Bandit, submitted to BBL and processed in to the main database where the records are subjected to a second more stringent round of validations. Encounters and re-sightings of banded birds are reported on the web at reportband.gov by members of the public, bird banders, or government officials. Encounter records are validated and formatted on the website, and are processed directly into the main BBL database. Records failing any validation rules are reviewed by BBL staff and resolved through communications with the banders or finders.

*Process_Date:*2022

Spatial_Data_Organization_Information:

Indirect_Spatial_Reference_Method:

Google Maps API, Google Earth, GeoNames, Geographic Names Index System (GNIS) are used to assign coordinates based on location descriptions. A modified version of GeoNames is maintained at BBL. Prior to digital data format, USGS topographic maps were used to locate data (7.5-minute quadrangle and 1:250k series).

*Direct_Spatial_Reference_Method:*Point

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

*Latitude_Resolution:*1.0E-5

*Longitude_Resolution:*1.0E-5

*Geographic_Coordinate_Units:*Decimal degrees

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

*Entity_Type_Label:*NABBP_Web_Data_Request_2022

Entity_Type_Definition:

Once a year data are retrieved from NABBP database and stored as a static dataset to be used in the data request page. Each year's data are provided as .csv files (comma-delimited with header, UTF8 encoded, no quotes). To translate coded values a set of files with lookup tables is provided along with data results package. Band numbers and bander permit numbers are obfuscated. There are two event types: bandings and encounters. Encounters are derived from two different record sources, encounters and recaptures. Bird species names in encounter records are verbatim, as reported by finder. Encounter species may have been reported as unknown. Certain codes are specific to banding records (for example bird status, extra_info, age, sex) and some codes are specific to encounters (how obtained, present condition, minimum age at encounter). Minimum age at encounter is calculated from age of bird at banding to date of encounter. Banding or encounter locations from United States or Canada include subdivisions (state/province); all other countries are reported as country only. Restrictions are applied to protect exact locations of gamebirds and sensitive species. Gamebirds, as defined in lookup table species.csv have locations generalized to country, state or 1-degree block. For raptors and endangered species, locations are generalized to a 10-minute block minimum resolution. All other species locations have coordinate precisions as reported.

Entity_Type_Definition_Source:

North American Bird Banding Program

Attribute:

*Attribute_Label:*band

Attribute_Definition:

Twelve-digit alphanumeric identifier representing individual federal metal band on bird at time of data retrieval. Band number is obfuscated.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

*Range_Domain_Minimum:*B00066660530

*Range_Domain_Maximum:*B99953318979

Attribute:

*Attribute_Label:*original_band

Attribute_Definition:

Original band, usually (for original banding) is same as band. Twelve-digit alphanumeric identifier representing individual federal metal band attached to bird at time of original banding. Band number is obfuscated.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

*Range_Domain_Minimum:*B00066660530

*Range_Domain_Maximum:*B99953318979

Attribute:

*Attribute_Label:*other_bands

Attribute_Definition:

Twelve-digit alphanumeric identifier representing other federal metal bands on bird at some point in its life. Bands may be replaced during the lifetime of a bird. All bands associated with this bird other than this band are included here. Band number is obfuscated.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

*Range_Domain_Minimum:*B00111076840

*Range_Domain_Maximum:*B99794803929

Attribute:

*Attribute_Label:*event_type

Attribute_Definition:

Two event types: B-Banding, E-Encounter. Definition of encounter here includes record sources for both encounters and recaptures.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Enumerated_Domain:

*Enumerated_Domain_Value:*B

Enumerated_Domain_Value_Definition:

original banding

Enumerated_Domain_Value_Definition_Source:

Producer defined

Attribute_Domain_Values:

Enumerated_Domain:

*Enumerated_Domain_Value:*E

Enumerated_Domain_Value_Definition:

encounter or recapture events

Enumerated_Domain_Value_Definition_Source:

Producer defined

Attribute:

*Attribute_Label:*event_date

Attribute_Definition:

Text in format mm/dd/yyyy. Event date for a banding record is the date of release. Event date for encounter and recapture records is the date of capture or

observation. May include inexact date values. See lookup table inexact_dates.csv for definitions.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

*Range_Domain_Minimum:*01/01/1960

*Range_Domain_Maximum:*99/99/2022

Attribute:

*Attribute_Label:*event_day

Attribute_Definition:

Day of month bird was banded, recaptured or encountered. It may include inexact day values. See lookup table inexact_dates.csv for definitions.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

*Range_Domain_Minimum:*01

*Range_Domain_Maximum:*99

Attribute:

*Attribute_Label:*event_month

Attribute_Definition:

This is the month a bird was banded, recaptured or encountered. It may include inexact month values. See lookup table inexact_dates.csv for definitions.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

*Range_Domain_Minimum:*01

*Range_Domain_Maximum:*99

Attribute:

*Attribute_Label:*event_year

Attribute_Definition:

Year bird was banded, recaptured or encountered.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

*Range_Domain_Minimum:*1960

*Range_Domain_Maximum:*2022

Attribute:

*Attribute_Label:*iso_country

Attribute_Definition:

Two-letter abbreviation of country for bird banding release location, country of capture for encounters and recapture location. Country designations are described in lookup table country_state.csv.

Attribute_Definition_Source:

ISO-3166

Attribute_Domain_Values:

Codeset_Domain:

*Codeset_Name:*ISO 3166-1 alpha 2 (2-letter country codes)

Codeset_Source:<https://www.iso.org/iso-3166-country-codes.html>

Attribute:

*Attribute_Label:*iso_subdivisions

Attribute_Definition:

Five-character code for US and Canada, empty for others. For example US-MD, CA-ON. For bandings, country subdivision represents location of bird release. For encounters and recaptures, subdivision represents location of bird capture. US and Canada only are subdivided to state and province. See lookup table country_state.csv.

Attribute_Definition_Source:

ISO 3166-1 country subdivisions

Attribute_Domain_Values:

Codeset_Domain:

*Codeset_Name:*ISO 3166-1 alpha 2 (2-letter country subdivision codes)

Codeset_Source:<https://www.iso.org/iso-3166-country-codes.html>

Attribute:

*Attribute_Label:*lat_dd

Attribute_Definition:

Latitude, decimal degrees. Location of bird banding, recapture or encounter.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:-83.41667

*Range_Domain_Maximum:*82.58333

*Attribute_Units_of_Measure:*decimal degrees

Attribute:

*Attribute_Label:*lon_dd

Attribute_Definition:

Longitude, decimal degrees. Location of bird banding, recapture or encounter record.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:-179.91667

*Range_Domain_Maximum:*180

*Attribute_Units_of_Measure:*decimal degrees

Attribute:

*Attribute_Label:*coordinates_precision_code

Attribute_Definition:

See lookup table coordinates_precision.csv. Includes numeric codes for 13 coordinate precision categories. All banding and encounter records for sensitive species are released at 10-minute block coordinate precision. Game birds include waterfowl, cranes, rails, woodcock, doves, crows and ravens. All bandings are released at 1-degree block coordinate precision, encounters are released at coordinate precisions as originally provided.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

*Range_Domain_Minimum:*0

*Range_Domain_Maximum:*72

Attribute:

*Attribute_Label:*band_type_code

Attribute_Definition:

Two-digit alphanumeric codes and descriptions of band types and closures. See lookup table band_type.csv.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

*Range_Domain_Minimum:*00

*Range_Domain_Maximum:*W5

*Attribute_Units_of_Measure:*Producer defined

Attribute:

*Attribute_Label:*species_name

Attribute_Definition:

Currently accepted common species names for birds in NABBP dataset. Additional designations include dead bird, hybrids and unidentified species. See lookup table species.csv for 4-character alpha codes, 4-digit numeric codes, common and scientific names, recommended band sizes and species group designations for 1065 species of birds.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

*Range_Domain_Minimum:*Black-bellied Whistling-Duck (*Dendrocygna autumnalis*)

*Range_Domain_Maximum:*Pin-tailed Whydah (*Vidua macroura*)

Attribute:

*Attribute_Label:*species_id

Attribute_Definition:

Four-digit BBL numeric code to identify species. Species IDs are defined in lookup table species.csv. Additional designations include dead bird, hybrids and unidentified species. The species.csv lookup table also includes 4-character alpha codes, 4-digit numeric codes, common and scientific names, recommended band sizes, and species group designations for 1065 species of birds.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

*Range_Domain_Minimum:*0000

*Range_Domain_Maximum:*9996

Attribute:

*Attribute_Label:*bird_status

Attribute_Definition:

Bird status is a single-digit numeric code describing aspects of bird or circumstances at time of banding. See lookup table `bird_status.csv` for single-digit numeric codes and descriptions for 8 bird status categories 2-8. ([-] represents dead bird)

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:-

Range_Domain_Maximum:8

Attribute:

*Attribute_Label:*extra_info_code

Attribute_Definition:

Two-digit numeric code used in conjunction with bird status code to describe additional aspects of bird or circumstances at time of banding. See `extra_info.csv` lookup table of two-digit numeric codes for 43 bird status sub-categories.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:--

Range_Domain_Maximum:90

Attribute:

*Attribute_Label:*sex_code

Attribute_Definition:

See `sex.csv` lookup table for alpha codes, numeric codes and descriptions of 5 bird sex categories.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:0

Range_Domain_Maximum:7

Attribute:

*Attribute_Label:*permit

Attribute_Definition:

Eight-digit alphanumeric identifier representing a bird banding permit. Permit numbers are obfuscated.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:P-XXXXX

Range_Domain_Maximum:P9999999

Attribute:

*Attribute_Label:*band_status_code

Attribute_Definition:

See `band_status.csv` lookup table for alphanumeric codes and descriptions of 10 band status categories. Range of values are 0-8, F,X.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

*Range_Domain_Minimum:*0

*Range_Domain_Maximum:*X

Attribute:

*Attribute_Label:*how_obtained_code

Attribute_Definition:

See how_obtained.csv lookup table for 2-digit numeric codes and descriptions of 69 how record was obtained categories. The how_obtained_code describes how a bird was obtained in encounter and recapture records.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

*Range_Domain_Minimum:*00

*Range_Domain_Maximum:*98

Attribute:

*Attribute_Label:*who_obtained_code

Attribute_Definition:

See who_obtained.csv lookup table for 2-digit numeric codes and descriptions of 10 categories. The who_reported_code describes finder of a bird obtained in encounter and recapture records.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

*Range_Domain_Minimum:*20

*Range_Domain_Maximum:*29

Attribute:

*Attribute_Label:*reporting_method

Attribute_Definition:

See lookup table reporting_method.csv for 2-digit numeric codes and descriptions of 14 categories of reporting methods.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

*Range_Domain_Minimum:*00

*Range_Domain_Maximum:*75

Attribute:

*Attribute_Label:*present_condition

Attribute_Definition:

Present condition refers to condition of bird and condition of band at time of encounter or recapture. See present_condition.csv lookup table for 2-digit numeric codes and descriptions for 15 combinations of present condition.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

*Range_Domain_Minimum:*00

*Range_Domain_Maximum:*14

Attribute:

*Attribute_Label:*min_age_at_enc

Attribute_Definition:

Minimum age of a bird at time of encounter or recapture is calculated using difference of dates between banding and encounter records. Decimal value translates to years and months (e.g. 12.25 = 12 years 3 months).

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum:-0.5

*Range_Domain_Maximum:*56.83

Attribute:

*Attribute_Label:*record_source

Attribute_Definition:

Indicates source of record in NABBP database.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Enumerated_Domain:

*Enumerated_Domain_Value:*B

Enumerated_Domain_Value_Definition:

Banding record source

Enumerated_Domain_Value_Definition_Source:

Producer defined

Attribute_Domain_Values:

Enumerated_Domain:

*Enumerated_Domain_Value:*E

Enumerated_Domain_Value_Definition:

Encounter record source

Enumerated_Domain_Value_Definition_Source:

Producer defined

Attribute_Domain_Values:

Enumerated_Domain:

*Enumerated_Domain_Value:*R

Enumerated_Domain_Value_Definition:

Recapture record source

Enumerated_Domain_Value_Definition_Source:

Producer defined

Attribute:

*Attribute_Label:*species_scientific_name

Attribute_Definition:

Currently accepted scientific names for birds in NABBP dataset. Scientific names are defined in lookup table species.csv. Species.csv also includes 4-character

alpha codes, 4-digit numeric codes, common and scientific names, recommended band sizes, and species group designations for 1065 species of birds.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

*Range_Domain_Minimum:*Dendrocygna autumnalis (Black-bellied Whistling-Duck)

*Range_Domain_Maximum:*Vidua macroura (Pin-tailed Whydah)

Attribute:

*Attribute_Label:*age_code

Attribute_Definition:

See lookup table age.csv for alpha codes, numeric codes and descriptions of 9 bird age categories.

Attribute_Definition_Source:

Producer defined

Attribute_Domain_Values:

Range_Domain:

*Range_Domain_Minimum:*0

*Range_Domain_Maximum:*8

Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

*Contact_Person:*Antonio Celis-Murillo

*Contact_Organization:*U.S. Geological Survey

Contact_Address:

*Address_Type:*mailing and physical

*Address:*12100 Beech Forest Road

*City:*Laurel

*State_or_Province:*MD

*Postal_Code:*20708

*Country:*United States

*Contact_Voice_Telephone:*301-497-5808

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Distribution_Liability:

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Technical_Prerequisites:

Not required.

Metadata_Reference_Information:

*Metadata_Date:*20210922

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

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*Contact_Organization:*U.S. Geological Survey

*Contact_Position:*Bird Banding Laboratory Manager

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Contact_Electronic_Mail_Address:acelis-murillo@usgs.gov

*Metadata_Standard_Name:*FGDC Biological Data Profile of the Content Standard for Digital Geospatial Metadata

*Metadata_Standard_Version:*FGDC-STD-001.1-1999