The National Park Service
Inventory & Monitoring

NPSpecies Database Dictionary

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INTRODUCTION

The National Park Service (NPS) Service-wide Inventory and Monitoring Program is funding the development of a species database to document the occurrence of vertebrates and vascular plants in national park units with significant natural resources. The Service-wide program has begun to compile existing verifiable information from national databases and institutions, such as museums and herbariums. Funding will be provided to parks to supplement this initial draft compilation of existing information with local records and voucher specimens, and additional funding will be provided for targeted field investigations to begin after data gaps and priorities have been identified by each park.

The initial development of the Species Database was based on the recommendations of the September 1993 Biological Inventory Database Development Workshop held in Chapel Hill, North Carolina. Subsequent advances in database development and internet technology have been incorporated into the currently proposed database structure. Key features of the Species Database will be as follows:

- The goal of high quality, legally and biologically defensible data will be pursued.
- All records will show the source and quality of information.
- Standardized nomenclature and taxonomy will be used based on the interagency Integrated Taxonomic Information System (ITIS) to allow consistency and compatibility of data nationwide and to allow for future changes in taxonomy (see http://www.itis.usda.gov/plantproj/itis/index.html for more information on ITIS).
- The database will be easily accessed and used, but will incorporate various levels of security to prevent the release of species' locations that would endanger exploited species.

The master copy of the NPSpecies database will be a web-based Oracle database with different levels of access for different individuals. This database will eventually be linked to the Natural Resource Bibliography. NPSpecies will be a synonomized checklist of vertebrates and vascular plants in each park, with certain categorical information such as federal and state legal status, TNC Global Rank, documentation source, abundance, and whether the species is native, invasive or cultivated (see detailed description of database fieldnames below). The database has tables to contain more detailed information on voucher specimens or documented observations of species such as when and where they were collected, where voucher specimens are stored, etc. The database will allow export of locations and other information from voucher specimens and

observations to Arcview GIS. The Service-wide I&M Program will fund the development of the synonomized checklist and initial population of records in the Vouchers and Observations tables that document the occurrence of species in parks. However, inclusion of additional data from wildlife observation cards, research studies, and other sources is optional and each park will be responsible for populating the database with that type of information.

A Microsoft Access version of NPSpecies is being developed by the Service-wide I&M Program to be distributed to each park. Parks will be able to modify the structure of the database and make various enhancements to suit their specific needs, as long as certain core information can be provided annually to the Service-wide program to update the master, web-based version of the database. Thus, each park has the option of using either the web-based version or the park-distributed version of the database.

The following are several examples of how park managers, interpreters, scientists, and the public may use the database:

- Park managers can get an up-to-date, documented listing of all vertebrates and vascular plants in their park, including information on legal status, whether they are native or exotic, abundance, and other basic information.
- Park interpreters can use the list to update species checklists for the park.
- By clicking on a species name, the database will show which other parks the species occurs in so that distributions of species can be determined. For example, which parks have a particular invasive species?
- The link to the Natural Resource Bibliography will allow parks to take advantage of studies and reports done by other parks on a particular species. This is expected to be a particularly useful and cost-effective feature.
- The link to the Specimen/Observation database will allow parks to identify where voucher specimens are stored, and the coordinates where the specimens were collected.
- Locations of animals and plants in the Specimen/Observation database can be exported to Arcview GIS to produce distribution maps.
- The Specimen/Observation database will contain important historical records for species no longer found in a park.
- The database will allow parks and outside scientists to do analyses of various biodiversity and exotic species issues.
- The database would be an important source of information for a future "State of the Parks" report, and would allow the NPS to report to Congress and the public on the status of species occurring in national parks.

DEFINITIONS OF FIELDS AND VALUES

PARK-SPECIES FORM (for data entry)

Park Code 4-character park code.

Park Administrative Unit Park Administrative Unit - This is an optional field that will allow some parks to identify whether a species occurs in different units of the park, such as on different islands or in different park units for park complexes.

TSN ITIS Taxonomic Serial Number. All taxonomic information and synonyms will be tied to the Integrated Taxonomic Information System through the TSN. Full taxonomic information, such as Scientific name, Common Name, Genus, Family, Order, Class, etc. as well as the taxonomic authority and all common name and scientific name synonyms will be provided with the same database structure used by ITIS.

ITIS Recognized Names The scientific and common (or vernacular) name(s) recognized by ITIS.

Preferred Local Name(s) The database allows parks to enter a preferred alternate scientific name or common name of a species in addition to the accepted ITIS name.   When reports are generated (e.g., list of exotic species in the park), the database will first check to see if there is a preferred local name to include in the report, and otherwise will use the accepted ITIS name.

Park Status Status of each species in each park.

Present	Species' occurrence in park is documented and assumed to be extant.
Historic	Species' historical occurrence in the park is documented, but recent investigations indicate that the species is now probably absent.
Probably Present	Park is within species' range and contains appropriate habitat. Documented occurrences of the species in the adjoining region of the park give reason to suspect that it probably occurs within the park. The degree of probability may vary within this category, including species that range from common to rare.
Unconfirmed	Included for the park based on weak ("unconfirmed record") or no evidence, giving minimal indication of the species' occurrence in the park.
False Report	Species previously reported to occur within the park, but current evidence indicates that the report was based on a misidentification, a taxonomic concept no longer accepted, or some other similar problem of interpretation.

Park Status Details   Additional details for park status; for example if one of the above codes does not offer a complete description or elaboration is desired.

Abundance   The current abundance of each species in each park. Park Status as above must be either "Present" or "Probably Present".

Abundant   Animals: May be seen daily, in suitable habitat and season, and counted in relatively large numbers. Plants: Large number of individuals; wide ecological amplitude or occurring in habitats covering a large portion of the park.

Common   Animals: May be seen daily, in suitable habitat and season, but not in large numbers. Plants: Large numbers of individuals predictably occurring in commonly encountered habitats but not those covering a large portion of the park.

Uncommon   Animals: Likely to be seen monthly in appropriate season/habitat. May be locally common. Plants: Few to moderate numbers of individuals; occurring either sporadically in commonly encountered habitats or in uncommon habitats.

Rare   Animals: Present, but usually seen only a few times each year. Plants: Few individuals, usually restricted to small areas of rare habitat.

Occasional   Occurs in the park at least once every few years, but not necessarily every year. Applicable to plants only.

Unknown   Abundance unknown.

Abundance Details   Additional details for abundance; for example if one of the above codes does not offer a complete description or elaboration is desired.

Residency   Current residency classification for each animal species in each park. Park Status as above must be either "Present" or "Probably Present".

Breeder   Population reproduces in the park.

Resident   A significant population is maintained in the park for more than two months each year, but it is not known to breed there.

Migratory   Migratory species that occurs in park approximately two months or less each year and does not breed there.

Vagrant   Park is outside of the species' usual range.

Unknown   Residency status in park is unknown.

Residency Details   Additional details for residency; for example if one of the above codes does not offer a complete description or elaboration is desired.

Nativity   Nativity classification for each species in each park. Park Status as defined above must be either "Present" or "Probably Present".

Native	The species is native to the park (either endemic or indigenous), or if the Park Status is "Probably Present" as defined above, the species would be native to the park if it were eventually confirmed in the park.
Non-Native	The species is not native to the park (neither endemic nor indigenous), or if the Park Status is "Probably Present" as defined above, the species would not be native to the park if it were eventually confirmed in the park. Persistent plant populations (as defined below) that reproduce are also considered non-native.
Unknown	Nativity classification in park is unknown.

Cultivation Cultivation classification (if applicable) for each non-native plant species in each park.

Cultivated	A non-native species that is currently cultivated in the park.
Persistent	A non-native species that persists in the park (either reproducing or non-reproducing) from a previous cultivation.

Weedy Yes/No field for plant species only. Plant species are considered "weedy" or "invasive" if they (a) occur almost exclusively in disturbed habitats, (b) relatively recently occupied natural habitats in competition with native species, or (c) occur across a broad range of ecological conditions.

Nativity Details Additional details for origin, for example if one of the above codes does not offer a complete description.

Data Source The source of the status, abundance, residency, nativity, cultivation, and/or weedy data. For data initially entered by the NPSpecies development/data team, the value will identify the data object (reference, digital file, etc.) submitted by the Park to the I&M office. Parks may update this field as individual records are updated or verified.

Comments General comments regarding this species in this park.

Entered By Name of last person to enter or update the park-species record.

Entered Date Date when park-species record was most recently updated.

Graphic Links Link to digital photograph or drawing of the species for informational purposes.

Changes Log Explanation of what was changed and why to log the history of changes to the database. This feature will be activated after the initial database has been developed and distributed to each park.

VOUCHERS AND OBSERVATIONS FORM (for data entry)

Park Code 4-character Park Code

Park Administrative Unit Park Administrative Unit (optional - see PARK-SPECIES FORM).

TSN Taxonomic Serial Number linked to ITIS (see PARK-SPECIES FORM).

ITIS Accepted Scientific Name Scientific name accepted by ITIS.

ITIS Accepted Common Name(s) Common, or vernacular name(s) recognized by ITIS.

Access Level Security level based on the sensitivity of this particular specimen or observation record.

Public No access restrictions
NPS Only Restricted to National Park Service Employees
Sensitive Restricted to specified individuals

Specimen ID Identification number of voucher specimen (ID number provided by the repository, as contrasted with the collection number provided by the collector).

Specimen Location Acronym, Name and address of herbarium, museum, or other location where voucher specimen is stored.

Documented Name Latin or common name that was used when the species was collected or observed (the name on the original record).

Date Date of observation or collection.

Time Time of observation or collection (24-hour clock).

Observer Name of observer or collector.

Observer Number Collection number provided by collector, if available. This is a standard datum cited in botanical studies.

Location Concise description of collection site within the park, or location given on specimen label for historical specimens.

Latitude Latitude in decimal degrees.

Longitude Longitude in decimal degrees.

UTMX UTM X coordinate (easting).

UTMY   UTM Y coordinate (northing).

UTM Zone   UTM Zone of x,y coordinates for observation.

Datum   Datum for location information (e.g., NAD27, NAD83).

Location Quality   Accuracy of the location coordinates.

     High   Location determined by GPS or accurately mapped; coordinates are probably within 50 m of true location.
     Medium   Coordinates probably within 500 m of true location.
     Low   Coordinates probably within 1000 m of true location.
     Poor   Coordinates are a guess, and represent only a general location for the specimen or observation.

Habitat   Description of habitat where observation or collection was made.

Elevation   Elevation where observation or collection was made.

Elevation Units   Units for elevation (feet or meters)

Comments   General comments for this record.

Data Source   The source of the voucher or observation data. For data initially entered by the NPSpecies development/data team, the value will identify the data object (reference, digital file, etc.) submitted by the Park to the I&M office. Parks may update this field as individual records are updated or verified.

Entered By   Name of last person to enter or update the species record.

Entered Date   Date when species record was most recently updated.

Graphic Links   Link to digital photographs for this voucher or observation record.

Changes Log   Explanation of what was changed and why to log the history of changes to the database. This will be implemented after the initial database has been developed and distributed.

REFERENCES FORM (for data entry)

NRBib ID   Reference code that links (or will link) this record to the NPS NRBib database.

Citation   Citation or description that will facilitate eventual linking to the NPS NRBib database.

Access Level   Security level based on the sensitivity of this particular specimen or observation record.

    Public   No access restrictions
    NPS Only   Restricted to National Park Service Employees
    Sensitive   Restricted to specified individuals

Park Code   4-character Park Code

Park Administrative Unit   Park Administrative Unit (optional - see PARK-SPECIES FORM).

TSN   Taxonomic Serial Number linked to ITIS (see PARK-SPECIES FORM).

Changes Log   Explanation of what was changed and why to log the history of changes to the database. This will be implemented after the initial database has been developed and distributed.

SPECIES STATUS FORMS (for viewing)

Federal Population   Designated federal population for each listed species. For example, the Gray Wolf is threatened in Minnesota, experimental in portions of several states, and endangered for all other locations of the contiguous lower 48 states.

Federal Status   Designated federal status for each listed species.

    LE   Listed endangered
    LE(S/A)   Listed endangered (similarity of appearance)
    LT   Listed threatened
    LT(S/A)   Listed threatened (similarity of appearance)
    LN   Listed noxious.
    PE   Proposed endangered
    PT   Proposed threatened
    PDL   Proposed for delisting
    C   Candidate
    XN   Experimental non-essential population

State Status   Legal status for each species listed in each state. Status codes differ by state.

TNC Global Rank   The Nature Conservancy global rank for each listed species.

    GX   Presumed extinct - Believed to be extinct throughout its range.
    GH   Possibly extinct - Known only from historical occurrences, but further searching needed.

G1	Critically Imperiled - Typically 5 or fewer occurrences or <1000 individuals or <2000 acres or <10 stream miles.
G2	Imperiled - Typically 6 to 20 occurrences or 1000-3000 individuals or 2000-10000 acres or 10-50 stream miles.
G3	Vulnerable - Very rare and local throughout its range or found only in a restricted range (even if abundant at some locations), or vulnerable to extinction or elimination because of other factors.
G4	Apparently Secure - Uncommon but not rare (although it may be rare in parts of its range, particularly on the periphery), and usually widespread, but possible cause for some concern. Typically more than 100 occurrences and more than 10000 individuals.
G5	Secure - Common, widespread, and abundant. Not vulnerable in most of its range. Typically with considerably more than 100 occurrences and more than 10000 individuals.
GU	Unrankable - Lack of information or conflicting information about status or trends.
G?	Unranked - Global rank not yet assessed.

TABLE DESCRIPTIONS AND FIELD STRUCTURES

Table: tblAbundance_LU Abundance classification for each species in each park.

Name	Type	Size
AbundanceID	Number (Byte)	1
Abundance	Text	50
AbundanceText	Memo	-

Table: tblAdminUnit Administrative units.

Name	Type	Size
ParkCode	Text	4
AdminUnitID	Number (Long)	4
AdminUnit	Text	50

Table: tblAdminUnitStates States in each administrative unit.

Name	Type	Size
ParkCode	Text	4
AdminUnitID	Number (Long)	4
StateCode	Text	2

Table: tblCultivation_LU Cultivation classification for each species in each park.

Name	Type	Size
CultivationCode	Text	1
Cultivation	Text	50
CultivationText	Memo	-

Table: tblFederalPopulationParks Federally listed populations in each park.

Name	Type	Size
ParkCode	Text	4
TSN	Number (Long)	4
PopulationID	Number (Long)	4

Table: tblFederalPopulations Federally listed populations.

Name	Type	Size
TSN	Number (Long)	4
PopulationID	Number (Long)	4
StatusCode	Text	10

Table: tblFederalPopulations_LU Population description for federally listed species.

Name	Type	Size
PopulationID	Number (Long)	4
PopulationText	Memo	-

Table: tblFederalStatus_LU Status classification for federally listed species.

Name	Type	Size
StatusCode	Text	10
StatusText	Text	50

Table: tblGlobalRank Globally listed species.

Name	Type	Size
TSN	Number (Long)	4
TncGlobalRank	Text	10

Table: tblGlobalRank_LU Global rank classification.

Name	Type	Size
TNCGlobalRank	Text	10
RankText	Text	20

Table: tblGraphicLinks Link to graphic files.

Name	Type	Size
GraphicLinkID	Number (Long)	4
ParkCode	Text	4
TSN	Number (Long)	4
GraphicLink	OLE Object	-

Table: tblKingdoms ITIS Kingdom classification.

Name	Type	Size
kingdom_id	Number (Integer)	2
kingdom_name	Text	10
update_date	Date/Time	8

Table: tblLocQual_LU Location quality for each voucher or observation.

Name	Type	Size
LocQualID	Number (Byte)	1
LocQual	Text	50
LocQualText	Memo	-

Table: tblNativity_LU Nativity classification for each species in each park.

Name	Type	Size
NativityID	Number (Byte)	1
Nativity	Text	10
NativityText	Memo	-

Table: tblNPSpecies Species occurrence for each park.

Name	Type	Size
ParkCode	Text	4
TSN	Number (Long)	4
ParkStatusID	Number (Byte)	1
StatusDetails	Text	255
AbundanceID	Number (Byte)	1

AbundanceDetails	Text	255
ResidencyID	Number (Byte)	1
ResidencyDetails	Text	255
NativityID	Number (Byte)	1
NativityDetails	Text	255
CultivationCode	Text	1
Weedy	Yes/No	1
Comments	Memo	-
DataSource	Text	255
EnteredBy	Text	50
EnteredDate	Date/Time	8

Table: tblNPSppAdminUnits Species occurrence for each administrative unit in each park.

Name	Type	Size
ParkCode	Text	4
TSN	Number (Long)	4
AdminUnitID	Number (Long)	4
ParkStatusID	Number (Byte)	1
StatusDetails	Text	255
AbundanceID	Number (Byte)	1
AbundanceDetails	Text	255
ResidencyID	Number (Byte)	1
ResidencyDetails	Text	255
NativityID	Number (Byte)	1
NativityDetails	Text	255
CultivationCode	Text	1
Weedy	Yes/No	1
Comments	Memo	-
DataSource	Text	255
EnteredBy	Text	50
EnteredDate	Date/Time	8

Table: tblNRBib References from NRBib database.

Name	Type	Size
NRBibRecordID	Number (Long)	4
NRBibID	Text	50
Reference	Memo	-
Sensitivity	Number (Byte)	1

Table: tblNRBibLink Species documented for each park in each NRBib reference.

Name	Type	Size
ParkCode	Text	4
TSN	Number (Long)	4
NRBibRecordID	Number (Long)	4
NRBibID	Text	50
DocLatinName	Text	255
DocCommonName	Text	255

Table: tblObservations Observation records for each species in each park.

Name	Type	Size
ObservationRecordID	Number (Long)	4
ParkCode	Text	4
TSN	Number (Long)	4
ParkAdminUnit	Number (Byte)	1
ObservationID	Text	50
DocLatinName	Text	255
Date	Date/Time	8
Time	Date/Time	8
Observer	Text	50
Location	Text	255
Latitude	Number (Single)	4
Longitude	Number (Single)	4
UtmX	Number (Long)	4
UtmY	Number (Long)	4
UtmZone	Number (Long)	4
Datum	Text	50
LocQualID	Number (Byte)	1
Habitat	Text	200
Elevation	Text	20
ElevationUnits	Text	50
Comments	Memo	-
Sensitivity	Number (Byte)	1
DataSource	Text	255
EnteredBy	Text	50
EnteredDate	Date/Time	8
GraphicLinkID	Number (Long)	4

Table: tblParks Information for each park.

Name	Type	Size
PARKCODE	Text	255
PARKNAME	Text	255
ADDRESS1	Text	255
ADDRESS2	Text	255
ADDRESS3	Text	255
CITY	Text	255
STATE	Text	255
ZIPCODE	Text	255
ORGCODE	Text	255
HQTR_PHONE	Text	255
SUPTMGR_PHONE	Text	255
TDD_PHONE	Text	255
FAX_PHONE	Text	255
NPS_EMAIL	Text	255
NPS_AREA	Text	255
AREA_NAME	Text	255
CLUS_NAME	Text	255
COUNTY	Text	255
HOUR_START	Text	255
HOUR_END	Text	255
TIMEZONE	Text	255

DATEAUTH	Text	255
DATEESTB	Text	255
ADMIN_BY	Text	255
TYPE_CODE	Text	255
TYPE_PARK	Text	255
SUPTMGR	Text	255
supmail name	Text	50

Table: tblParkState State within the boundaries of each park.

Name	Type	Size
ParkCode	Text	4
StateCode	Text	2

Table: tblParkStatus_LU Park status for each species in each park.

Name	Type	Size
ParkStatusID	Number (Byte)	1
ParkStatus	Text	50
ParkStatusText	Memo	-

Table: tblPreferredCommonNames Preferred common names for each species in each park.

Name	Type	Size
PreferredCommonNameID	Number (Long)	4
ParkCode	Text	4
TSN	Number (Long)	4
CommonName	Text	80

Table: tblPreferredLatinName Preferred latin name for each species in each park.

Name	Type	Size
ParkCode	Text	4
TSN	Number (Long)	4
PreferredLatinName	Text	255

Table: tblResidency_LU Resiency of each species in each park.

Name	Type	Size
ResidencyID	Number (Byte)	1
Residency	Text	50
ResidencyText	Memo	-

Table: tblStateName_LU State names.

Name	Type	Size
StateCode	Text	50
StateName	Text	20

Table: tblStateStatus State status classifications.

Name	Type	Size
StateCode	Text	2

StateStatus	Text	16
StatusText	Text	255
Comments	Memo	-

Table: tblStateStatusSpecies Species with state status.

Name	Type	Size
StateCode	Text	2
StateStatus	Text	16
TSN	Number (Long)	4

Table: tblSynonymLinks ITIS synonyms for species names.

Name	Type	Size
tsn	Number (Long)	4
tsn_accepted	Number (Long)	4
update_date	Date/Time	8

Table: tblTaxonAuthors_LU ITIS nomenclature authorities.

Name	Type	Size
taxon_author_id	Number (Long)	4
kingdom_id	Number (Integer)	2
taxon_author	Text	100
update_date	Date/Time	8

Table: tblTaxonomicUnits ITIS species names.

Name	Type	Size
tsn	Number (Long)	4
FullLatinName	Text	157
unit_ind1	Text	1
unit_name1	Text	35
unit_ind2	Text	1
unit_name2	Text	35
unit_ind3	Text	7
unit_name3	Text	35
unit_ind4	Text	7
unit_name4	Text	35
unnamed_taxon_ind	Text	1
usage	Text	12
unaccept_reason	Text	24
credibility_rtng	Text	40
completeness_rtng	Text	10
currency_rating	Text	7
phylo_sort_seq	Number (Integer)	2
initial_time_stamp	Date/Time	8
parent_tsn	Number (Long)	4
taxon_author_id	Number (Long)	4
hybrid_author_id	Number (Long)	4
kingdom_id	Number (Integer)	2
rank_id	Number (Integer)	2

update_date	Date/Time	8

Table: tblTaxonomicUnitTypes ITIS rank classification.

| Name	Type	Size
kingdom_id	Number (Integer)	2
rank_id	Number (Integer)	2
rank_name	Text	15
dir_parent_rank_id	Number (Integer)	2
req_parent_rank_id	Number (Integer)	2
update_date	Date/Time	8

Table: tblVernaculars ITIS common names.

Name	Type	Size
tsn	Number (Long)	4
vernacular_name	Text	80
language	Text	15
approved_ind	Text	1
update_date	Date/Time	8

Table: tblVouchers Voucher records for each species in each park.

Name	Type	Size
VoucherRecordID	Number (Long)	4
ParkCode	Text	4
TSN	Number (Long)	4
ParkAdminUnit	Number (Byte)	1
SpecimenID	Text	50
DocLatinName	Text	255
SpecimenLocation	Text	100
Date	Date/Time	8
Time	Date/Time	8
Observer	Text	50
ObserverNumber	Text	50
Location	Text	100
Latitude	Number (Single)	4
Longitude	Number (Single)	4
UtmX	Number (Long)	4
UtmY	Number (Long)	4
UtmZone	Number (Long)	4
Datum	Text	50
LocQualID	Number (Byte)	1
Habitat	Text	200
Elevation	Text	20
ElevationUnits	Text	50
Comments	Memo	-
Sensitivity	Number (Byte)	1
DataSource	Text	255
EnteredBy	Text	50
EnteredDate	Date/Time	8
GraphicLinkID	Number (Long)	4

CONVERSION FROM NPFAUNA TO NPSpecies

NPFAUNA			NPSpecies		
FIELD NAME	CODE	DESCRIPTION	FIELD NAME	CODE	DESCRIPTION
Presence			ParkStatus		
	0	?		40	Unconfirmed
	1	Present in park		10	Present
	2	Probably present		20	Probably Present
	3	Listed but prob absent		40	Unconfirmed
	4	Extinct in park		20	Historic
	5	Accidental/Anomalous		40	Unconfirmed
	6	Park records unreliable		40	Unconfirmed
	7	Other		40	Unconfirmed
	8	No entry		40	Unconfirmed
Origin			Nativity		
	0	?			*BLANK*
	1	Known only from park		10	Native
	2	No entry			*BLANK*
	3	Widespread native		10	Native
	4	Human Introduction		20	Non-Native
	5	Natural invasion			*BLANK*
	6	Non-native		20	Non-native
	7	Origin unknown		30	Unknown *[add comment]*
	8	Other (see comments)		30	Unknown *[add comment]*
	9	No entry			*BLANK*
Res Status			Residency		
	0	?			*BLANK*
	1	Perm reproducing population		10	Breeder
	2	Occ. Reproducing		10	Breeder
	3	Migratory, vagrant or non-reproducing		60	Unknown *[add comment]*
	4	Reproducing status unknown		60	Unknown *[add comment]*
	5	Other(see comments)		60	Unknown *[add comment]*
	6	No entry			*BLANK*
Abundance			Abundance		
	0	Unknown		50	Unknown
	1	Abundant		10	Abundant
	2	Common		20	Common
	3	Uncommon/rare		50	Unknown *[add comment]*
	4	Other		50	Unknown *[add comment]*
	5	No Entry			*BLANK*
Comments			Comments		
		Text			Memo
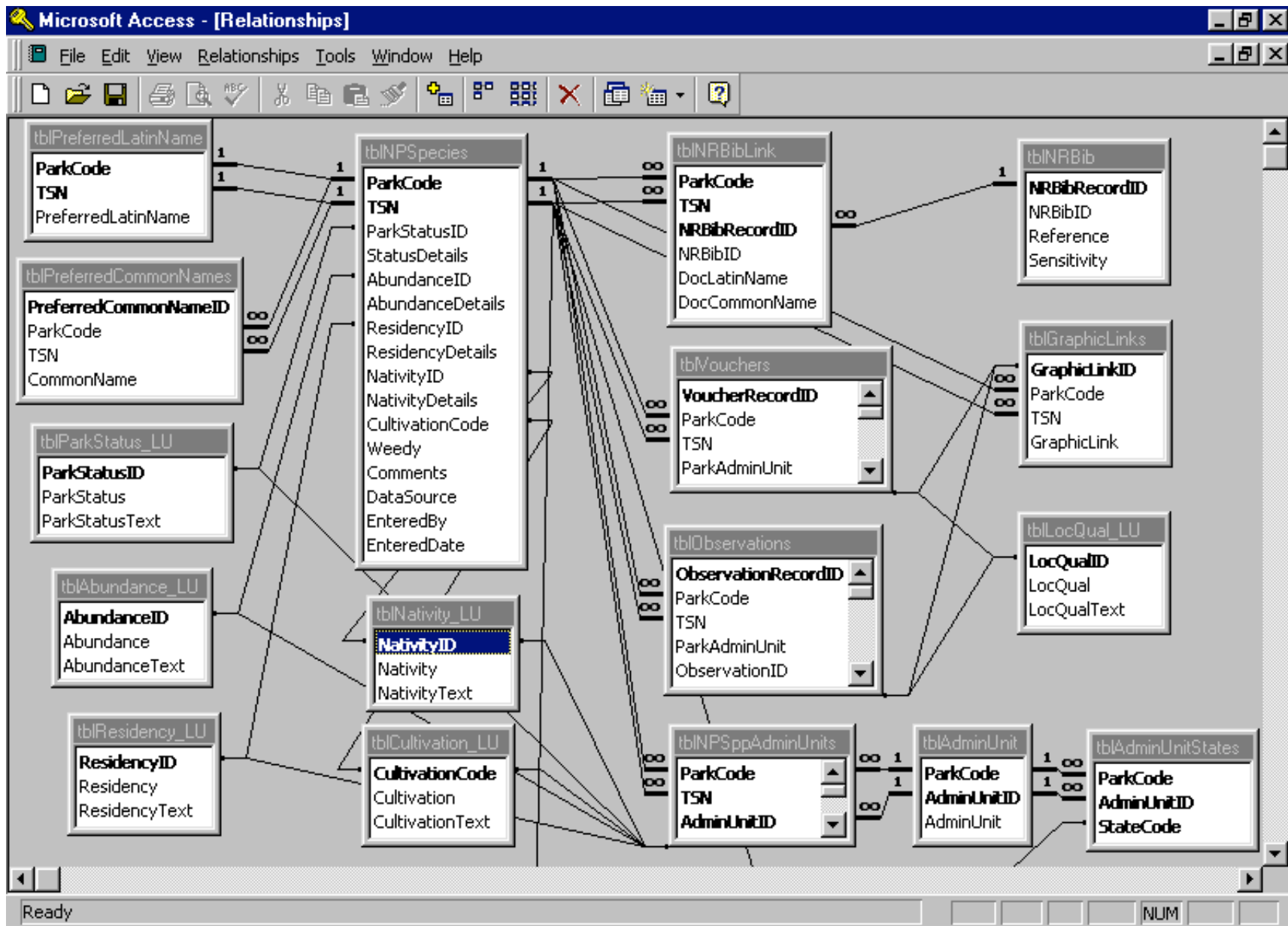
Relationships among end-user data entry tables and related look-up tables.
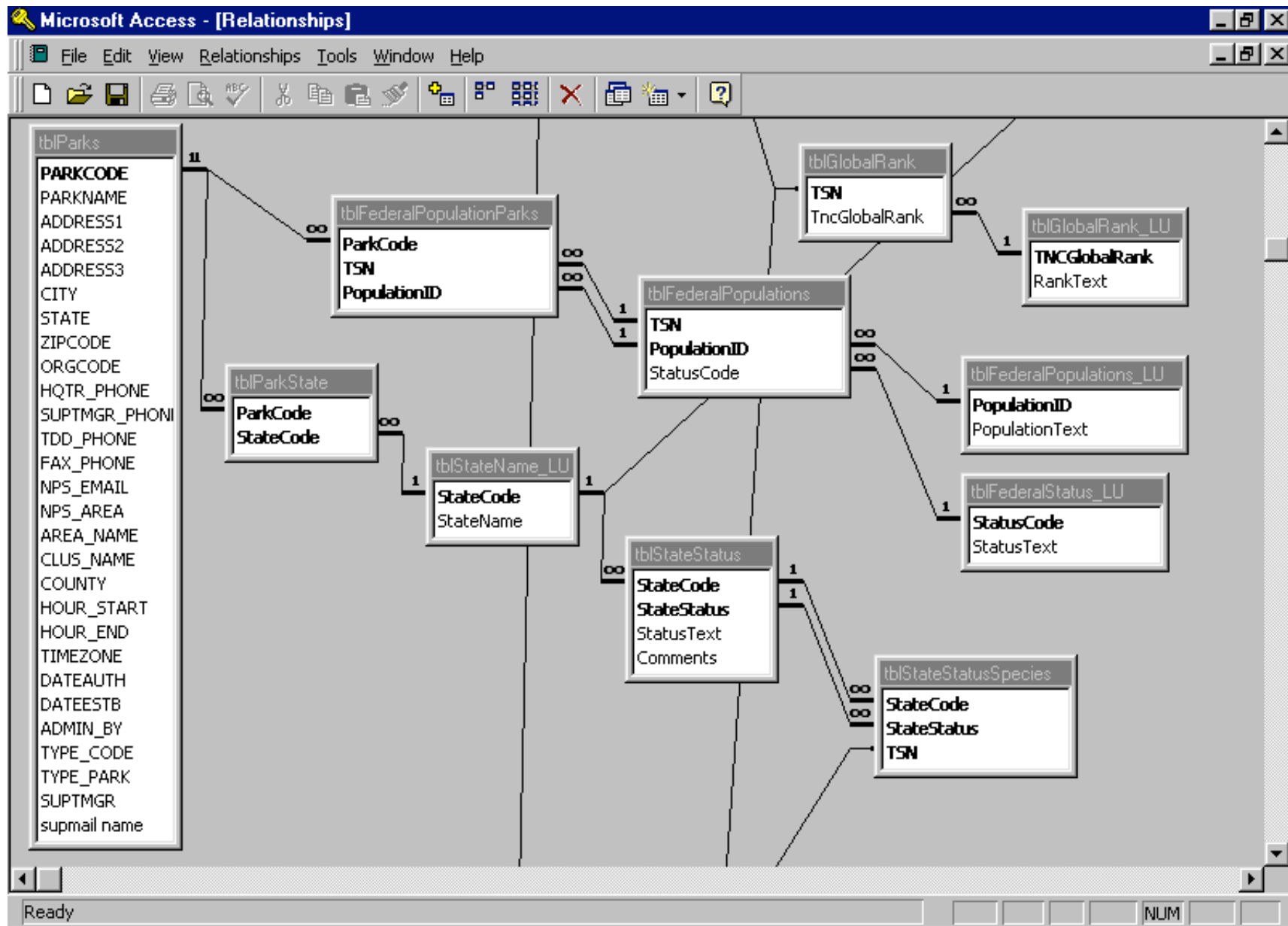
Relationships among parks and species status tables.
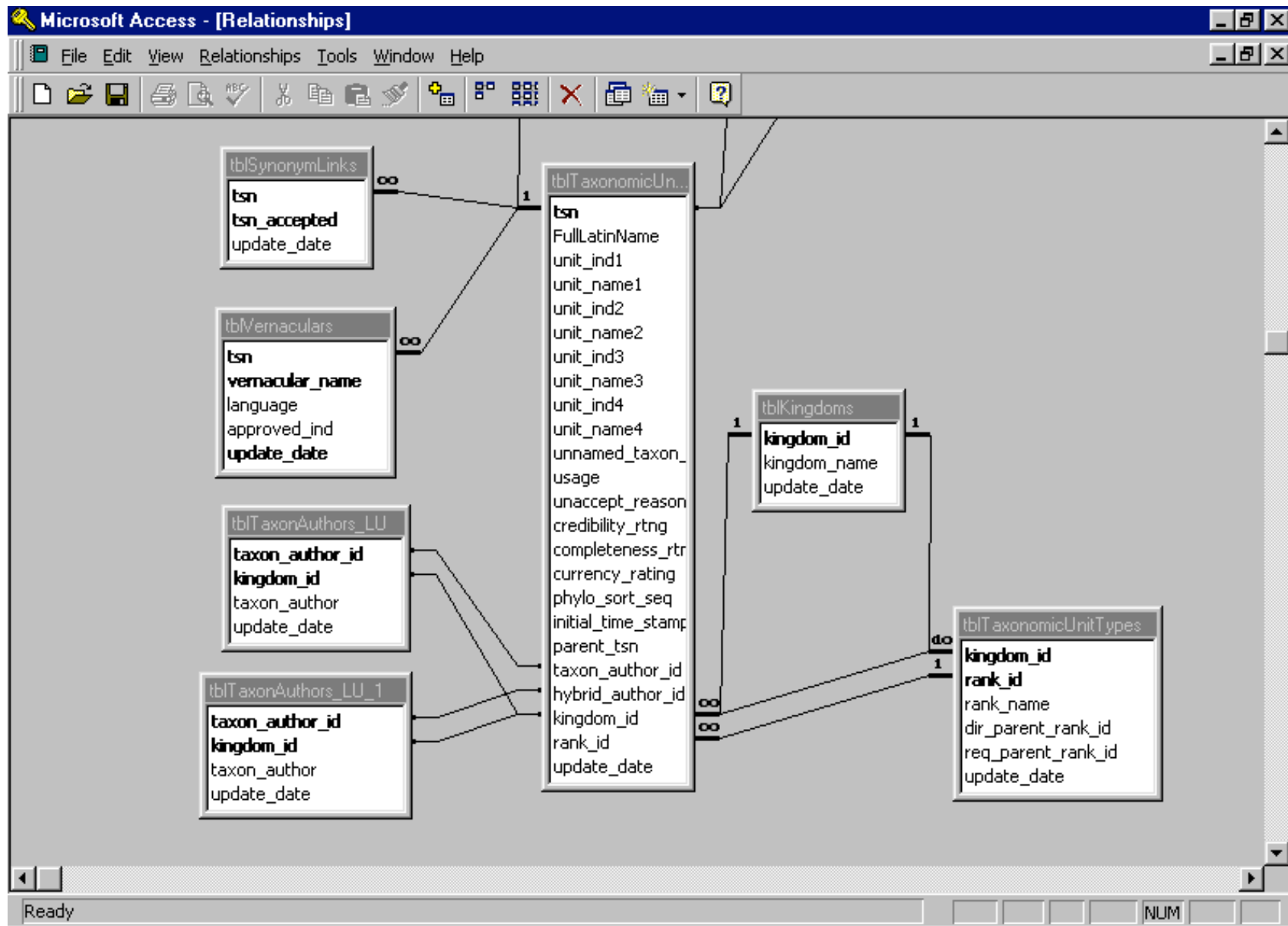
Relationships among ITIS tables.