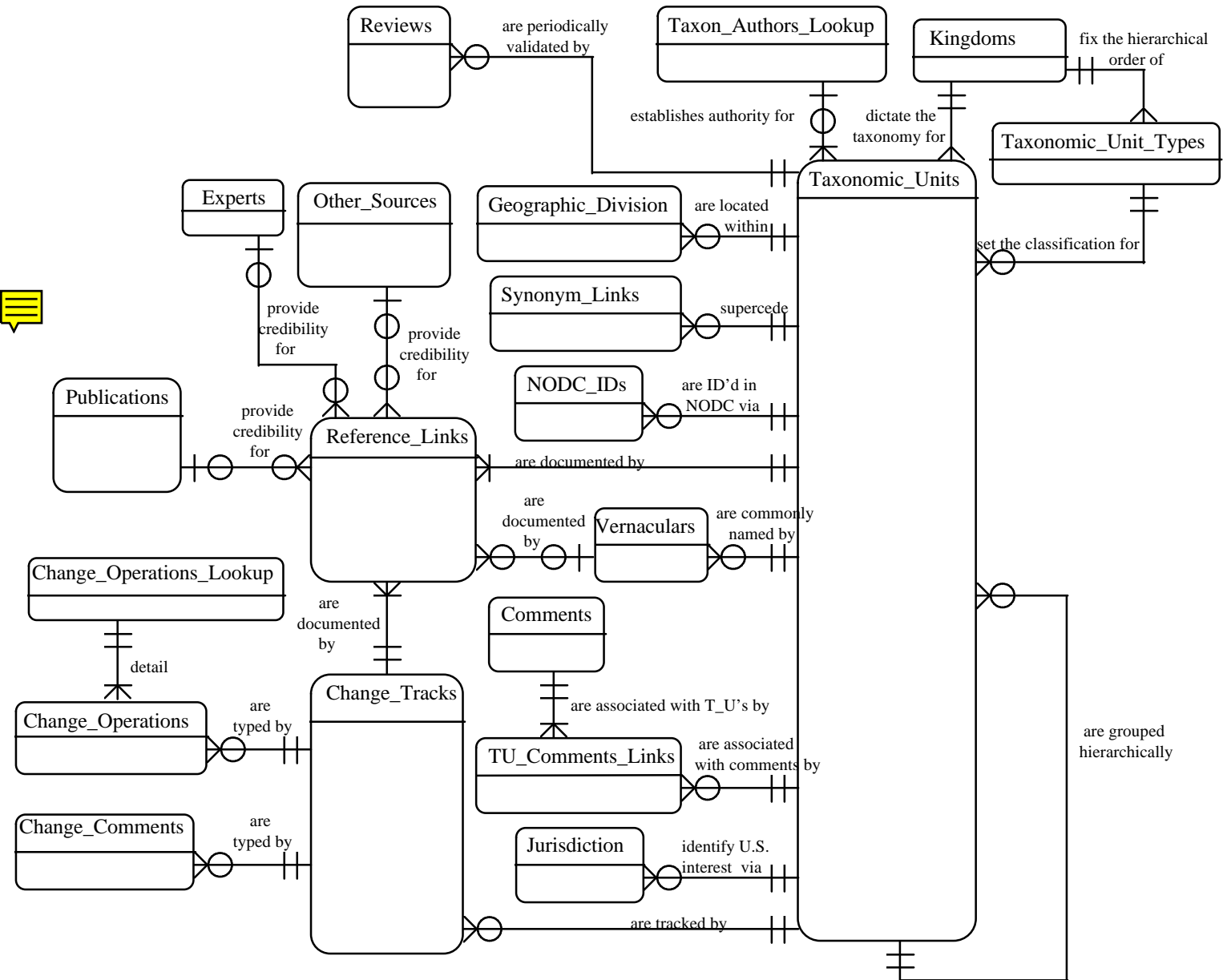


Integrated Taxonomic Information System (ITIS) Database Physical Model

Click on an entity to view keydata definition and defined elements.



Click on an element to view its definition.



Table Name: **Reviews**

Description:

@1 tsn +

@2 review_start_date +

review_end_date +

review_reason +

reviewer +

review_comment +

update_date

Definition:

Descriptions of evaluations, either periodic or requested, undertaken to add credence to the data supported by the ITIS.

ELEMENTS

Name: **tsn**

Element Size:

Table: **Taxonomic_Units**

Display Picture:

Data Type: **SERIAL**

Informix Name: **tsn**

Nullness: **NOT NULL UNIQUE**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

A taxonomic serial number will be assigned for occurrences of Taxonomic Units at each level of the hierarchy through genus; at lower levels a tsn will be assigned to polynomial occurrences.

Description: **Taxonomic Serial Number. The unique identifier for an occurrence of Taxonomic Units.**



Return to the ITIS Database Physical Model

Name: **review_start_date** Element Size: **10** Table: **Reviews**
Display Picture: **DD/MM/YYYY** Data Type: **DATE** Informix Name: **review_start_date**
Nullness: **NOT NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **The date on which the review of an occurrence of Taxonomic Units was undertaken.**

Name: **review_end_date** Element Size: **10** Table: **Reviews**
Display Picture: **DD/MM/YYYY** Data Type: **DATE** Informix Name: **review_end_date**
Nullness: **NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **The date on which the review of an occurrence of Taxonomic Units was deemed complete.**

Name: **review_reason** Element Size: **25** Table: **Reviews**
Display Picture: Data Type: **VARCHAR** Informix Name: **review_reason**
Nullness: **NOT NULL**
Values List: **TWG recommendation**
Periodic
Outside request
Data Source: **CHOICE LIST**
Validation Rules:
Description: **An indication of the purpose for which a review of an occurrence of Taxonomic Units was undertaken.**

Name: **reviewer** Element Size: **100** Table: **Reviews**
Display Picture: Data Type: **VARCHAR** Informix Name: **reviewer**
Nullness: **NOT NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **The person to whom the Taxonomic Work Group delegated the task of reviewing an occurrence of Taxonomic Units.**

Name: **review_comment** Element Size: **500** Table: **Reviews**
Display Picture: Data Type: **TEXT** Informix Name: **review_comment**
Nullness: **NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **A general comment associated with the review of a Taxonomic Unit's occurrence.**

Definitions for the elements in the entity *Reviews* -- page 3 of 3

Name: **update_date**

Element Size: **8**

Table: **All Tables**

Display Picture: **mm/dd/yy**

Data Type: **DATE**

Informix Name: **update_date**

Nullness: **NOT NULL**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **The date on which a record is modified. The purpose of this element is to provide assistance to those downloading data on a periodic basis.**



Return to the ITIS Database Physical Model

Click on an element to view its definition.



Table Name: **Taxon_Authors_Lookup**

Description:

@1 taxon_author_id +
taxon_author +
update_date +
@2 kingdom_id +

Definition:

Reference to authors of taxons for the Plant kingdom, and authors and dates of taxons for the Animal kingdom.

ELEMENTS

Name: **taxon_author_id**

Element Size:

Table: **Taxon_Authors_Lookup**

Display Picture:

Data Type: **SERIAL**

Informix Name: **taxon_author_id**

Nullness: **NOT NULL UNIQUE**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **A unique identifier for the author(s) of a taxonomic name.**

Name: **kingdom_id**

Element Size:

Table: **Kingdoms**

Display Picture:

Data Type: **SERIAL**

Informix Name: **kingdom_id**

Nullness: **NOT NULL UNIQUE**

Values List: **1 (Monera)**

2 (Protista)

3 (Plantae)

4 (Fungi)

5 (Animalia)

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **A unique identifier for the highest level of the taxonomic hierarchy structure.**



Return to the ITIS Database Physical Model

Name: **taxon_author** Element Size: **100** Table: **Taxon_Authors_Lookup**
Display Picture: Data Type: **VARCHAR** Informix Name: **taxon_author**
Nullness: **NOT NULL** Values List:
Data Source: **CHOICE LIST/USER ENTERED**
Validation Rules: **For authorities associated with the animal kingdom, the author(s) and the actual date of the publication in which the author(s) first described the taxon are required. For authorities associated with the plant kingdom, only author(s) is/are required. Note: Initially, authors/dates may not be available for all records**
Description: **The author(s) associated with the name of a taxon.**

Name: **update_date** Element Size: **8** Table: **All Tables**
Display Picture: **mm/dd/yy** Data Type: **DATE** Informix Name: **update_date**
Nullness: **NOT NULL** Values List:
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **The date on which a record is modified. The purpose of this element is to provide assistance to those downloading data on a periodic basis.**

 **Return to the ITIS Database Physical Model**

Click on an element to view its definition.



Table Name: **Kingdoms**

Description:

**@1 kingdom_id +
kingdom_name +**

Definition:

The highest rank in the taxonomic hierarchical structure.

ELEMENTS

Name: **kingdom_id**

Display Picture:

Nullness: **NOT NULL UNIQUE**

Values List: **1 (Monera)**

2 (Protista)

3 (Plantae)

4 (Fungi)

5 (Animalia)

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **A unique identifier for the highest level of the taxonomic hierarchy structure.**

Element Size:

Data Type: **SERIAL**

Table: **Kingdoms**

Informix Name: **kingdom_id**

Name: **kingdom_name**

Display Picture:

Nullness: **NOT NULL**

Values List: **Monera**

Protista

Plantae

Fungi

Animalia

Data Source: **CHOICE LIST**

Validation Rules:

Description: **The label associated with the highest level of the taxonomic hierarchy structure.**

Element Size: **10**

Data Type: **CHAR**

Table: **Kingdoms**

Informix Name: **kingdom_name**



Return to the ITIS Database Physical Model

Click on an element to view its definition.

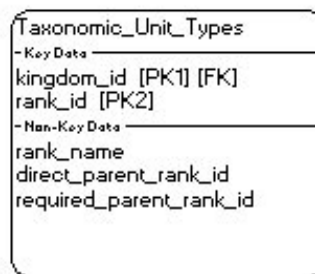


Table Name: **Taxonomic_Unit_Types**

Description:

@1 kingdom_id +
@2 rank_id +
rank_name +
direct_parent_rank_id +
required_parent_rank_id

Definition:

Defines the levels associated with the taxonomic hierarchical structure and establishes the rank order for an occurrence of the Taxonomic Units.

ELEMENTS

Name: **kingdom_id**

Display Picture:

Nullness: **NOT NULL UNIQUE**

Values List: **1 (Monera)**

2 (Protista)

3 (Plantae)

4 (Fungi)

5 (Animalia)

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **A unique identifier for the highest level of the taxonomic hierarchy structure.**

Element Size:

Data Type: **SERIAL**

Table: **Kingdoms**

Informix Name: **kingdom_id**

Name: **rank_id**

Display Picture:

Nullness: **NOT NULL UNIQUE**

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **A unique identifier for a specific level within the taxonomic hierarchy.**

Element Size:

Data Type: **SERIAL**

Table: **Taxonomic_Unit_Types**

Informix Name: **rank_id**

Values List:



Return to the ITIS Database Physical Model

Name: **rank_name** Element Size: **15** Table: **Taxonomic_Unit_Types**
Display Picture: Data Type: **CHAR** Informix Name: **rank_name**

Nullness: **NOT NULL**

Values List: **Kingdom**
 Subkingdom
 Division
 Subdivision
 Phylum
 Subphylum
 Superclass
 Class
 Subclass
 Infraclass
 Superorder
 Order
 Suborder
 Infraorder
 Superfamily
 Family
 Subfamily
 Tribe
 Subtribe
 Genus
 Subgenus
 Section
 Subsection
 Species
 Subspecies
 Variety
 Subvariety
 Forma
 Subforma

Data Source: **CHOICE LIST**

Validation Rules:

Description: **The label associated with the specific level of a taxonomic hierarchy.**

Name: **direct_parent_rank_id** Element Size: Table: **Taxonomic_Unit_Types**
Display Picture: Data Type: **SMALLINT** Informix Name: **direct_parent_rank_id**
Nullness: **NOT NULL** Values List:

Data Source: **CHOICE LIST**

Validation Rules:

Description: **The unique identifier for the rank of the closest parent of an occurrence of Taxonomic Units as defined by the kingdom's rank rules.**

Name: **required_parent_rank_id** Element Size: Table: **Taxonomic_Unit_Types**
Display Picture: Data Type: **SMALLINT** Informix Name: **req_parent_rank_id**
Nullness: **NOT NULL** Values List:
Data Source: **CHOICE LIST**
Validation Rules:
Description: **The unique identifier for the closest, required parent of an occurrence of Taxonomic Units as established by the respective kingdom's rank rules.**

 **Return to the ITIS Database Physical Model**

Click on an element to view its definition.

Taxonomic_Units	
- Key Data -	
tsn	[PK1]
- Non-Key Data -	
unit_ind1	
unit_name1	
unit_ind2	
unit_name2	
unit_ind3	
unit_name3	
unit_ind4	
unit_name4	
unnamed_taxon_ind	
usage	
unacceptability_reason	
taxonomic_credibility_rating	
taxonomic_completeness_rating	
currency_rating	
phylo_sort_sequence	
initial_time_stamp	
parent_tsn.tsn	[FK]
taxon_author_id	[FK]
hybrid_author_id.taxon_author_id	[FK]
kingdom_id	[FK]
rank_id	[FK]
update_date	

Table Name: **Taxonomic_Units**

Description:

@1 tsn +
unit_ind1 +
unit_name1 +
unit_ind2 +
unit_name2 +
unit_ind3 +
unit_name3 +
unit_ind4 +
unit_name4 +
unnamed_taxon_ind +
usage +
unacceptability_reason +
taxonomic_credibility_rating +
taxonomic_completeness_rating +
currency_rating +
phylo_sort_sequence +
initial_time_stamp +
parent_tsn +
taxon_author_id +
hybrid_author_id +
kingdom_id +
rank_id +
update_date



Definition:

Legal taxon name and associated attributes for levels of taxonomic hierarchy structure from kingdom to genus; below genus, binomials/polynomials are identified.

ELEMENTS

Name: **tsn** Element Size: Table: **Taxonomic_Units**
Display Picture: Data Type: **SERIAL** Informix Name: **tsn**
Nullness: **NOT NULL UNIQUE** Values List:
Data Source: **SYSTEM GENERATED**

Validation Rules:

A taxonomic serial number will be assigned for occurrences of Taxonomic Units at each level of the hierarchy through genus; at lower levels a tsn will be assigned to polynomial occurrences.

Description: **Taxonomic Serial Number. The unique identifier for an occurrence of Taxonomic Units.**

Name: **unit_ind1** Element Size: **1** Table: **Taxonomic_Units**
Display Picture: Data Type: **CHAR** Informix Name: **unit_ind1**
Nullness: **NULL** Values List: **X**
Data Source: **CHOICE LIST**

Validation Rules: **Applicable to the kingdom Plantae.**

Description: **Indicator of an occurrence of a plant hybrid at the generic level.**

Name: **unit_name1** Element Size: **35** Table: **Taxonomic_Units**
Display Picture: Data Type: **CHAR** Informix Name: **unit_name1**
Nullness: **NOT NULL** Values List:
Data Source: **USER ENTERED**

Validation Rules: **For monomials this will be the only name field entered. For binomials/polynomials, this field will be used for the first part of the name. The names in this position require the initial letter to be capitalized.**

Description: **The singular or first part of a scientifically accepted label for an occurrence of Taxonomic Units.**

Name: **unit_ind2** Element Size: **1** Table: **Taxonomic_Units**
Display Picture: Data Type: **CHAR** Informix Name: **unit_ind2**
Nullness: **NULL** Values List: **X**
Data Source: **CHOICE LIST** Validation Rules:

Description: **A category indicator positioned between the first and second parts of a binomial/polynomial taxonomic name.**



Return to the ITIS Database Physical Model

Name: **unit_name2** Element Size: **35** Table: **Taxonomic_Units**
Display Picture: Data Type: **VARCHAR** Informix Name: **unit_name2**
Nullness: **NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules: **For binomials, this will be the last field populated for the name. For trinomials and quadrinomials, this will be the second position populated.**
Description: **The second part of a scientifically accepted label for a binomial/polynomial occurrence of Taxonomic Units.**

Name: **unit_ind3** Element Size: **4** Table: **Taxonomic_Units**
Display Picture: Data Type: **CHAR** Informix Name: **unit_ind3**
Nullness: **NULL**
Values List: **ssp.**
 var.
 f.
 x
Data Source: **CHOICE LIST**
Validation Rules: **This element applies only to the kingdom Plantae.**
Description: **A category indicator located within a polynomial taxonomic name.**

Name: **unit_name3** Element Size: **35** Table: **Taxonomic_Units**
Display Picture: Data Type: **VARCHAR** Informix Name: **unit_name3**
Nullness: **NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules: **For trinomials this field will be populated with the last part of the taxonomic name. For quadrinomials and hybrid formulas this field will be populated with the third part of the name.**
Description: **The third portion of a scientifically accepted label for a polynomial occurrence of Taxonomic Units.**

Name: **unit_ind4** Element Size: **4** Table: **Taxonomic_Units**
Display Picture: Data Type: **CHAR** Informix Name: **unit_ind4**
Nullness: **NULL**
Values List: **var.**
 f.
Data Source: **CHOICE LIST**
Validation Rules: **Applicable to the Plant kingdom.**
Description: **A category indicator located within a polynomial taxonomic name.**

Name: **unit_name4** Element Size: **35** Table: **Taxonomic_Units**
Display Picture: Data Type: **VARCHAR** Informix Name: **unit_name4**
Nullness: **NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules: **This is the final position populated for quadrinomials or hybrid formulas.**
Description: **The fourth part of a scientifically accepted label for a polynomial occurrence of Taxonomic Units.**

Name: **unnamed_taxon_ind** Element Size: **1** Table: **Taxonomic_Units**
Display Picture: Data Type: **CHAR** Informix Name: **unnamed_taxon_ind**
Nullness: **NULL** Values List: **Y = Unnamed taxon**
Data Source: **CHOICE LIST**
Validation Rules: **This field will need to populated only when an occurrence of Taxonomic Units possesses a non-standard name.**
Description: **Indicator for occurrences of Taxonomic Units whose names represent unnamed taxa and are therefore not standard taxonomic names.**

Name: **usage** Element Size: **12** Table: **Taxonomic_Units**
Display Picture: Data Type: **VARCHAR** Informix Name: **usage**
Nullness: **NOT NULL**
Values List: **accepted (plant)**
 not accepted (plant)
 valid (animal)
 invalid (animal)
Data Source: **CHOICE LIST**
Validation Rules: **Choice lists are dependent upon the values associated with a kingdom.**
Description: **Current standing of an occurrence of Taxonomic Units.**

 **Return to the ITIS Database Physical Model**

Name: **unacceptability_reason** Element Size: **24** Table: **Taxonomic_Units**
Display Picture: Data Type: **VARCHAR** Informix Name: **unaccept_reason**
Nullness: **NULL**

Values List: **Animal and Plant:**

database artifact	Plant:
misspelling	excluded
nomen nudem	homonym
	horticultural
	illegitimate
Animal:	invalid
incertae sedis	misapplied
junior homonym	nomen invalidum
junior synonym	nomina utique rejicienda
nomen dubium	orthographic variant
	other, see comments
	pro parte
	synonym

Data Source: **CHOICE LIST**

Validation Rules: **This element is required when usage is set to not accepted (plants) or invalid (animals). Only those reasons for a particular kingdom should be displayed.**

Description: **The cause for an occurrence of Taxonomic Units being identified as not accepted/invalid under the usage element.**

Name: **taxonomic_credibility_rating** Element Size: **40** Table: **Taxonomic_Units**
Display Picture: Data Type: **CHAR** Informix Name: **credibility_rating**
Nullness: **NULL**

Values List: **No review; non-peer reviewed source**
No review; untreated NODC data
Minimum taxonomic/nomenclature review
TWG standards met

Data Source: **CHOICE LIST**

Validation Rules: **This element will be populated for all occurrences of the Taxonomic Units table. This element is entered by the TWG.**

Description: **A subjective rating designation as determined by the Taxonomic Work Group reflecting the level of review and the perceived level of accuracy for an occurrence of Taxonomic Units and its associated attributes.**



Return to the ITIS Database Physical Model

Name: **taxonomic_completeness_rating** Element Size: **10** Table: **Taxonomic_Units**
Display Picture: Data Type: **CHAR** Informix Name: **completeness_rating**
Nullness: **NULL**

Values List: **unknown**
partial
complete

Data Source: **CHOICE LIST**

Validation Rules: **This element will be populated for occurrences of the Taxonomic Units table for which the rank is genus or above. Different ratings may occur for different rank levels. This element is populated by the TWG.**

Description: **A rating designation reflecting the extent of taxonomic completeness for a group.**

Name: **currency_rating** Element Size: **7** Table: **Taxonomic_Units**
Display Picture: Data Type: **CHAR** Informix Name: **currency_rating**

Nullness: **NOT NULL**

Values List: **unknown**
A specific date; e.g. 1993

Data Source: **USER ENTERED**

Validation Rules: **This element will be populated for rows within the Taxonomic Units table for which the taxon's rank is genus or above. Different ratings may occur at different rank levels.**

Description: **A rating designation reflecting the year of revision/source for a group.**

Name: **phylo_sort_sequence** Element Size: Table: **Taxonomic_Units**
Display Picture: Data Type: **SMALLINT** Informix Name: **phylo_sort_seq**
Nullness: **NULL** Values List:

Data Source: **CHOICE LIST**

Validation Rules: **This field is required for ranks from kingdom to order inclusive.**

Description: **A sequence for an occurrence of Taxonomic Units with ranks between kingdom and order, inclusive, that will allow output to be displayed in phylogenetic order.**

Name: **initial_time_stamp** Element Size: **12** Table: **Taxonomic_Units**
Display Picture: **ddmmyyhhmmss** Data Type: **DATETIME** Informix Name: **initial_time_stamp**
Nullness: **NOT NULL** Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **Date and time at which an occurrence of Taxonomic Units is initially loaded into the ITIS database.**

 **Return to the ITIS Database Physical Model**

Name: **parent_tsn** Element Size: Table: **Taxonomic_Units**
Display Picture: Data Type: **INTEGER** Informix Name: **parent_tsn**
Nullness: **NOT NULL** Values List:
Data Source: **CHOICE LIST**
Validation Rules: **The parent must previously exist in the database or must be concurrently input with the subject Taxonomic Unit record.**
Description: **The taxonomic serial number for the direct parent of the subject occurrence of Taxonomic Units.**

Name: **taxon_author_id** Element Size: Table: **Taxon_Authors_Lookup**
Display Picture: Data Type: **SERIAL** Informix Name: **taxon_author_id**
Nullness: **NOT NULL UNIQUE** Values List:
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **A unique identifier for the author(s) of a taxonomic name.**

Name: **hybrid_author_id** Element Size: Table: **Taxonomic_Units**
Display Picture: Data Type: **INTEGER** Informix Name: **hybrid_author_id**
Nullness: **NULL** Values List:
Data Source: **CHOICE LIST/USER ENTERED**
Validation Rules:
Description: **The unique identifier for the author(s) of a taxonomic name which has been identified as the second part of a hybrid formula.**

Name: **kingdom_id** Element Size: Table: **Kingdoms**
Display Picture: Data Type: **SERIAL** Informix Name: **kingdom_id**
Nullness: **NOT NULL UNIQUE**
Values List: **1 (Monera)**
 2 (Protista)
 3 (Plantae)
 4 (Fungi)
 5 (Animalia)
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **A unique identifier for the highest level of the taxonomic hierarchy structure.**

 **Return to the ITIS Database Physical Model**

Name: **rank_id** Element Size: Table: **Taxonomic_Unit_Types**
Display Picture: Data Type: **SERIAL** Informix Name: **rank_id**
Nullness: **NOT NULL UNIQUE** Values List:
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **A unique identifier for a specific level within the taxonomic hierarchy.**

Name: **update_date** Element Size: **8** Table: **All Tables**
Display Picture: **mm/dd/yy** Data Type: **DATE** Informix Name: **update_date**
Nullness: **NOT NULL** Values List:
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **The date on which a record is modified. The purpose of this element is to provide assistance to those downloading data on a periodic basis.**

 **Return to the ITIS Database Physical Model**



Table Name: **Experts**

Description:

@1 expert_id_prefix +

@2 expert_id +

expert +

exp_comment +

update_date

Definition:

A taxonomist who is the responsible source for an occurrence of Taxonomic Units being recognized by and added to the ITIS, or for changes being made to an occurrence of Taxonomic Units existing in the ITIS database.

ELEMENTS

Name: **expert_id_prefix**

Element Size: **3**

Table: **Experts**

Display Picture:

Data Type: **CHAR**

Informix Name: **expert_id_prefix**

Nullness: **NOT NULL WITH DEFAULT**

Values List: **EXP**

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **A prefix attached to a serial number to identify the record as existing in Experts.**

Name: **expert_id**

Element Size:

Table: **Experts**

Display Picture:

Data Type: **SERIAL**

Informix Name: **expert_id**

Nullness: **NOT NULL UNIQUE**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **The unique identifier established for a specific expert in the field of taxonomy whose work is being utilized by the ITIS.**



Return to the ITIS Database Physical Model

Definitions for the elements in the entity *Experts* -- page 2 of 2

Name: **expert** Element Size: **100** Table: **Experts**
Display Picture: Data Type: **VARCHAR** Informix Name: **expert**
Nullness: **NOT NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **The name of the taxonomic expert providing credence to the taxonomy, nomenclature or attributes of a Taxonomic Unit's occurrence for the ITIS.**

Name: **exp_comment** Element Size: **500** Table: **Experts**
Display Picture: Data Type: **TEXT** Informix Name: **exp_comment**
Nullness: **NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **Remarks noted by or associated with a taxonomic expert who is providing credence to the taxonomy, nomenclature or attributes of a Taxonomic Unit's occurrence.**

Name: **update_date** Element Size: **8** Table: **All Tables**
Display Picture: **mm/dd/yy** Data Type: **DATE** Informix Name: **update_date**
Nullness: **NOT NULL** Values List:
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **The date on which a record is modified. The purpose of this element is to provide assistance to those downloading data on a periodic basis.**

 **Return to the ITIS Database Physical Model**

Click on an element to view its definition.

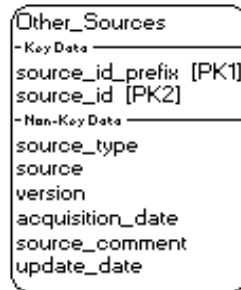


Table Name: **Other_Sources**

Description:

**@1 source_id_prefix +
@2 source_id +
source_type +
source +
version +
acquisition_date +
source_comment +
update_date**

Definition:

References, other than persons or publications, that provide data for or add to the knowledge base of the ITIS.

ELEMENTS

Name: **source_id_prefix**

Element Size: **3**

Table: **Other_Sources**

Display Picture:

Data Type: **CHAR**

Informix Name: **source_id_prefix**

Nullness: **NOT NULL WITH DEFAULT**

Values List: **SRC**

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **A prefix attached to a serial id to identify the record as an Other Source.**

Name: **source_id**

Element Size:

Table: **Other_Sources**

Display Picture:

Data Type: **SERIAL**

Informix Name: **source_id**

Nullness: **NOT NULL UNIQUE**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **The unique identifier for a supplier of information, other than a person or publication, lending credence to the establishment of or changes to an occurrence of Taxonomic Units.**



Return to the ITIS Database Physical Model

Definitions for the elements in the entity *Other_Sources* -- page 2 of 3

Name: **source_type** Element Size: **10** Table: **Other_Sources**
Display Picture: Data Type: **CHAR** Informix Name: **source_type**
Nullness: **NOT NULL** Values List:
Data Source: **CHOICE LIST/USER ENTERED**
Validation Rules:
Description: **The designation of the kind of supplier providing information to the ITIS (other than a person or publication); e.g. database.**

Name: **source** Element Size: **64** Table: **Other_Sources**
Display Picture: Data Type: **VARCHAR** Informix Name: **source**
Nullness: **NOT NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **The name of the supplier of information, other than a person or publication, to the ITIS. Examples include NODC, PLANTS, BIOTA, ZOO Record, etc.**

Name: **version** Element Size: **10** Table: **Other_Sources**
Display Picture: Data Type: **CHAR** Informix Name: **version**
Nullness: **NOT NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **Number, date or other identifying characteristic of the source which indicates the functionality and/or data at a point in time in the life of the system, database, etc.**

Name: **acquisition_date** Element Size: **10** Table: **Other_Sources**
Display Picture: **DD/MM/YYYY** Data Type: **DATE** Informix Name: **acquisition_date**
Nullness: **NOT NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules: **If the day or month are missing, they should default to 01.**
Description: **The date on which ITIS acquired the data it is utilizing from a source other than a publication or expert.**

Name: **source_comment** Element Size: **500** Table: **Other_Sources**
Display Picture: Data Type: **TEXT** Informix Name: **source_comment**
Nullness: **NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **Remarks associated with the provider of information to the ITIS (other than a person or publication).**

 **Return to the ITIS Database Physical Model**

Definitions for the elements in the entity *Other_Sources* -- page 3 of 3

Name: **update_date** Element Size: **8** Table: **All Tables**
Display Picture: **mm/dd/yy** Data Type: **DATE** Informix Name: **update_date**
Nullness: **NOT NULL** Values List:
Data Source: **SYSTEM GENERATED**
Validation Rules:

Description: **The date on which a record is modified. The purpose of this element is to provide assistance to those downloading data on a periodic basis.**

 **Return to the ITIS Database Physical Model**

Click on an element to view its definition.

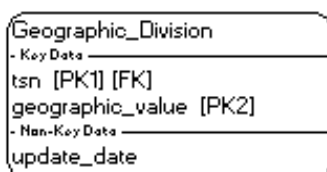


Table Name: **Geographic_Divison**

Description:

@1 tsn +

@2 geographic_value +

update_date

Definition:

Geographic association for the referenced occurrence in Taxonomic Units.

ELEMENTS

Name: **tsn**

Element Size:

Table: **Taxonomic_Units**

Display Picture:

Data Type: **SERIAL**

Informix Name: **tsn**

Nullness: **NOT NULL UNIQUE**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

A taxonomic serial number will be assigned for occurrences of Taxonomic Units at each level of the hierarchy through genus; at lower levels a tsn will be assigned to polynomial occurrences.

Description: **Taxonomic Serial Number. The unique identifier for an occurrence of Taxonomic Units.**

Name: **geographic_value**

Element Size: **40**

Table: **Geographic_Division**

Display Picture:

Data Type: **VARCHAR**

Informix Name: **geographic_value**

Nullness: **NOT NULL**

Values List:

Data Source: **CHOICE LIST**

Validation Rules: **North America - the United States (excluding Hawaii), Canada and Greenland**

Middle America - US-Mexico border south to Colombia-Panama border (Mexico, Guatemala, Belize, El Salvador, Honduras, Nicaragua, Costa Rica, Panama).

Caribbean - the islands of the Caribbean: Bahamas, Puerto Rico, Cuba, Virgin Islands (UK & US), Jamaica, Haiti, Cayman Islands, Dominican Republic, Trinidad-Tobago, the Lesser Antilles including Aruba, Curacao, the Leeward Islands (Antigua-Barbuda, Anguilla, Aves, Guadeloupe,

Montserrat, Antilles, St. Kitts-Nevis, St. Martin-St Barthelemy) and the Windward Islands (Barbados, Donimica, Grenada, Martinique, St. Lucia, St. Vincent) and Bermuda.

South America - from the Panama-Columbia border south (Columbia, Venezuela, Guyana, Surinam, French Guiana, Brazil, Ecuador, Peru, Bolivia, Paraguay, Uruguay, Argentina, Chile) including the adjacent islands of the Galapagos, Falklands, San Felix, Trindade, Fernando de Noronha and Juan Fernandez Islands.

Europe & Northern Asia (excluding China) - Europe (Portugal, Spain, the Azores, and Madeira islands, France, Luxembourg, Belgium, Netherlands, Germany, Switzerland, Denmark, Finland, Sweden, Norway, Austria, Italy, Greece, Turkey, Cyprus, Poland, Czech Republic, Republic of Slovakia, Romania, Hungary, Bulgaria, Albania, Yugoslavia (Serbian Republic and the Republic of Monte Negro), Macedonia, Slovenia, Croatia, Bosnia), the United Kingdom (Scotland, Wales, England and Northern Ireland), Ireland, Iceland, Russia and the newly independent states of the former Soviet Union (Georgia, Azerbaijain, Turkmenistan, Uzbekistan, Tajikistan, Kyrgyzstan, Kazakhstan, Ukraine, Belarus, Lithuania, Latvia, Estonia), the Arabian Peninsula (Israel, Lebanon, Jordan, Syria, Saudi Arabia, Yemen, South Yemen, Oman, United Arab Emirates, Kuwait, Bahrain), the Middle East (Iraq, Iran, Afghanistan), and Mongolia.

Africa - the continent of Africa (Morocco, Algeria, Libya, Egypt, Mauritania, Mali, Niger, Chad, Sudan, Ethiopia, Somalia, Senegal, the Gambia, Guinea Bissau, Guinea, Burkina, Sierra Leone, Liberia, Ivory Coast, Ghana, Togo, Benin, Nigeria, Cameroon, Central African Republic, Uganda, Kenya, Rwanda, Burundi, Zaire, Congo, Gabon, Angola, Zambia, Malawi, Tanzania, Mozambique, Zimbabwe, Namibia, Botswana, Swaziland, Republic of South Africa, Lesotho) including Madagascar, the Seychelles, Mauritius, and the Comers islands off the south east coast of Africa and the islands of Sao Tome, Principe, Canaries, Cape Verde, Ascension, St. Helena, and Tristan de Cunha off the west coast of Africa.

Southern Asia - China, Pakistan, India, Sri Lanka, the Maldives, Nepal, Bhutan, Bangladesh, Burma, North Korea, South Korea, Japan, Thailand, Laos, Cambodia, Viet Nam, Malaysia, Taiwan, the Philippines, Borneo, Indonesia, Singapore.

Australia - Australia including Tasmania, Macquarie, Lord Howe, and Norfolk Island, the Island of New Guinea including Irian Jaya and Papua New Guinea, the Bismarck Archipelago, Solomon Islands, New Hebrides (Vanuatu), New Caledonia, New Zealand including Chatham, Bounty, Antipodes, Aukland and Campbell islands.

Oceania - the Pacific islands - Micronesia, Polynesia, Palau, Guam, Truk, Marshall Islands, Kiribati, Midway Islands, Fiji, Tonga, Samoa, Cook Islands, Tuamotu, Line Islands, Tokelau, Tuvalu, Phoenix Islands, Easter Island, the Marqueses, Tahiti, the Hawaiian Islands.

Antarctica/Southern Ocean - Antarctic Continent and islands, and ocean below 40 degrees South latitude, not including the tip of South America or Australia.



Eastern Atlantic Ocean - marine habitats along the western coast of Europe and Africa to the Mid-Atlantic Ridge, including the Mediterranean and Caspian Seas, and littoral habitats along the continental coasts and inclusive islands.

Western Atlantic Ocean - marine habitats west of the Mid-Atlantic Ridge to the eastern shore of North, Middle, and South America including the waters of the Caribbean and Gulf of Mexico and littoral habitats along the continental coasts and inclusive islands.

Indo-West Pacific - marine habitats of the Indian Ocean including the Red Sea and the Persian Gulf and the Western Pacific Ocean west to and including the waters around Hawaii and Easter Island.

East Pacific - marine habitats in the Western Pacific east of Hawaii and Easter Island to and including the littoral habitats of the west coasts of North, Middle and South America and the associated off shore islands out to the Galapagos.

Description: **Label given to a geographic division as identified by the Taxonomic Work Group.**

Name: **update_date**

Element Size: **8**

Table: **All Tables**

Display Picture: **mm/dd/yy**

Data Type: **DATE**

Informix Name: **update_date**

Nullness: **NOT NULL**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **The date on which a record is modified. The purpose of this element is to provide assistance to those downloading data on a periodic basis.**



Return to the ITIS Database Physical Model

Definitions for the entity *Synonym_Links* and its elements -- page 1 of 2

Click on an element to view its definition.

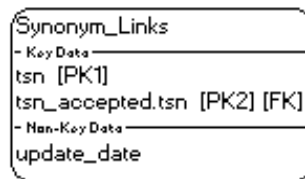


Table Name: **Synonym_Links**

Description:

@1 tsn +

@2 tsn_accepted +

update_date

Definition:

A mechanism to provide the link between an accepted taxonomic name and alternates or predecessors to it.

ELEMENTS

Name: **tsn**

Element Size:

Table: **Taxonomic_Units**

Display Picture:

Data Type: **SERIAL**

Informix Name: **tsn**

Nullness: **NOT NULL UNIQUE**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

A taxonomic serial number will be assigned for occurrences of Taxonomic Units at each level of the hierarchy through genus; at lower levels a tsn will be assigned to polynomial occurrences.

Description: **Taxonomic Serial Number. The unique identifier for an occurrence of Taxonomic Units.**

Name: **tsn_accepted**

Element Size:

Table: **Synonym_Links**

Display Picture:

Data Type: **INTEGER**

Informix Name: **tsn_accepted**

Nullness: **NOT NULL**

Values List:

Data Source: **USER ENTERED**

Validation Rules:

Description: **The taxonomic serial number assigned to the accepted occurrence of Taxonomic Units to which a synonym is associated.**



Return to the ITIS Database Physical Model

Definitions for the elements in the entity *Synonym_Links* -- page 2 of 2

Name: **update_date**

Element Size: **8**

Table: **All Tables**

Display Picture: **mm/dd/yy**

Data Type: **DATE**

Informix Name: **update_date**

Nullness: **NOT NULL**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **The date on which a record is modified. The purpose of this element is to provide assistance to those downloading data on a periodic basis.**



Return to the ITIS Database Physical Model

Click on an element to view its definition.

Publications	
- Key Data -	
publication_id_prefix	[PK1]
publication_id	[PK2]
- Non-Key Data -	
reference_author	
title	
publication_name	
listed_pub_date	
actual_pub_date	
publisher	
pub_place	
isbn	
issn	
pages	
pub_comment	
update_date	

Table Name: **Publications**

Description:

@1 publication_id_prefix +

@2 publication_id +

reference_author +

title +

publication_name +

listed_pub_date +

actual_pub_date +

publisher +

pub_place +

isbn +

issn +

pages +

pub_comment +

update_date

Definition:

Printed references that are taxonomically significant for additions or changes to occurrences of the Taxonomic_Units table and/or associated data, or that provide credibility for approved vernacular names.



Return to the ITIS Database Physical Model

ELEMENTS

Name: **publication_id_prefix** Element Size: **3** Table: **Publications**
Display Picture: Data Type: **CHAR** Informix Name: **pub_id_prefix**
Nullness: **NOT NULL WITH DEFAULT** Values List: **PUB**
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **A prefix attached to a serial number to associate the record with the Publications table.**

Name: **publication_id** Element Size: Table: **Publications**
Display Picture: Data Type: **SERIAL** Informix Name: **publication_id**
Nullness: **NOT NULL UNIQUE** Values List:
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **The unique identifier of a printed reference.**

Name: **reference_author** Element Size: **100** Table: **Publications**
Display Picture: Data Type: **VARCHAR** Informix Name: **reference_author**
Nullness: **NOT NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **Writer(s) of a printed reference.**

Name: **title** Element Size: **255** Table: **Publications**
Display Picture: Data Type: **VARCHAR** Informix Name: **title**
Nullness: **NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **The identifying name given an article contained in a printed reference.**

Name: **publication_name** Element Size: **255** Table: **Publications**
Display Picture: Data Type: **VARCHAR** Informix Name: **publication_name**
Nullness: **NOT NULL** Values List:
Data Source: **CHOICE LIST/USER ENTERED**
Validation Rules:
Description: **The identifying title of the printed reference, including volume and number, if applicable.**

Name: **listed_pub_date** Element Size: **10** Table: **Publications**
Display Picture: **DD/MM/YYYY** Data Type: **DATE** Informix Name: **listed_pub_date**
Nullness: **NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **The date printed on a journal or other printed reference.**

Name: **actual_pub_date** Element Size: **10** Table: **Publications**
Display Picture: **DD/MM/YYYY** Data Type: **DATE** Informix Name: **actual_pub_date**
Nullness: **NOT NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules: **This date should be later than or equal to the listed date if such is populated. It should also correspond to the date associated with the taxon_author if this is the reference in which the subject taxon is described. If the day or month are missing, they should default to 01.**
Description: **The true date on which a journal or other written reference was published. It may or may not correspond with the publication's listed date.**

Name: **publisher** Element Size: **80** Table: **Publications**
Display Picture: Data Type: **VARCHAR** Informix Name: **publisher**
Nullness: **NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **Producer of a printed reference.**

Name: **pub_place** Element Size: **40** Table: **Publications**
Display Picture: Data Type: **VARCHAR** Informix Name: **pub_place**
Nullness: **NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **Location of the publisher of a printed reference.**

Name: **isbn** Element Size: **16** Table: **Publications**
Display Picture: Data Type: **VARCHAR** Informix Name: **isbn**
Nullness: **NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **The ISBN number of a book cited; older publications and some foreign books do not have assigned ISBN numbers.**

Definitions for the elements in the entity *Publications* -- page 4 of 4

Name: **issn** Element Size: **16** Table: **Publications**
Display Picture: Data Type: **VARCHAR** Informix Name: **issn**
Nullness: **NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **The ISSN number of a journal cited; older journals and some foreign publications do not have assigned ISSN numbers.**

Name: **pages** Element Size: **15** Table: **Publications**
Display Picture: Data Type: **VARCHAR** Informix Name: **pages**
Nullness: **NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **Page numbers within a printed reference to which the specific citation refers.**

Name: **pub_comment** Element Size: **500** Table: **Publications**
Display Picture: Data Type: **TEXT** Informix Name: **pub_comment**
Nullness: **NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **Remarks associated with the printed reference cited.**

Name: **update_date** Element Size: **8** Table: **All Tables**
Display Picture: **mm/dd/yy** Data Type: **DATE** Informix Name: **update_date**
Nullness: **NOT NULL** Values List:
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **The date on which a record is modified. The purpose of this element is to provide assistance to those downloading data on a periodic basis.**

 **Return to the ITIS Database Physical Model**

Click on an element to view its definition.

Reference_Links
- Key Data
tsn [PK1] [FK]
documentation_id_prefix.expert_id_prefix [PK2] [FK]
documentation_id.expert_id [PK3] [FK]
- Non-Key Data
original_desc_ind
initial_itis_desc_ind
change_track_id [FK]
vernacular_name [FK]
update_date

Table Name: **Reference_Links**

Description:

@1 tsn +
@2 documentation_id_prefix.expert_id_prefix +
@3 documentation_id.expert_id +
original_desc_ind +
initial_itis_desc_ind +
change_track_id +
vernacular_name +
update_date

Definition:

An intersection table that provides a link between occurrences of Taxonomic Units, Vernaculars, or Change_Tracks, and occurrences of Publications, Experts, or Other_Sources.

ELEMENTS

Name: tsn	Element Size:	Table: Taxonomic_Units
Display Picture:	Data Type: SERIAL	Informix Name: tsn
Nullness: NOT NULL UNIQUE		Values List:
Data Source: SYSTEM GENERATED		

Validation Rules:

A taxonomic serial number will be assigned for occurrences of Taxonomic Units at each level of the hierarchy through genus; at lower levels a tsn will be assigned to polynomial occurrences.

Description: **Taxonomic Serial Number. The unique identifier for an occurrence of Taxonomic Units.**



Return to the ITIS Database Physical Model

Definitions for the elements in the entity *Reference_Links* -- page 2 of 3

Name: **documentation_id_prefix** Element Size: **3** Table: **Reference_Links**
Display Picture: Data Type: **CHAR** Informix Name: **doc_id_prefix**
Nullness: **NOT NULL** Values List: **EXP PUB SRC**
Data Source: **USER ENTERED**
Validation Rules:
Description: **A designation affixed to the documentation_id identifying the reference as a publication, expert or other source.**

Name: **documentation_id** Element Size: **6** Table: **Reference_Links**
Display Picture: Data Type: **INTEGER** Informix Name: **documentation_id**
Nullness: **NOT NULL** Values List:
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **The serial portion of the identifier created for either the Publications table, the Experts table or the Other_Sources table used with the documentation_id_prefix to provide the reference link with an instance from the Taxonomic_Units table.**

Name: **expert_id_prefix** Element Size: **3** Table: **Experts**
Display Picture: Data Type: **CHAR** Informix Name: **expert_id_prefix**
Nullness: **NOT NULL WITH DEFAULT** Values List: **EXP**
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **A prefix attached to a serial number to identify the record as existing in Experts.**

Name: **original_desc_ind** Element Size: **1** Table: **Reference_Links**
Display Picture: Data Type: **CHAR** Informix Name: **original_desc_ind**
Nullness: **NULL** Values List: **If selected, the indicator will be set to true.**
Data Source: **CHOICE LIST**
Validation Rules:
Description: **Indicator used to identify that this occurrence represents the reference of the original description, when available.**

Name: **initial_itis_desc_ind** Element Size: **1** Table: **Reference_Links**
Display Picture: Data Type: **CHAR** Informix Name: **init_itis_desc_ind**
Nullness: **NULL** Values List: **If selected, the indicator will be set to true.**
Data Source: **CHOICE LIST**
Validation Rules:
Description: **Indicator used to identify the reference(s) that serve as the reason for an occurrence of Taxonomic Units being recognized by or added to the ITIS where the original reference is unavailable.**

Definitions for the elements in the entity *Reference_Links* -- page 3 of 3

Name: **change_track_id** Element Size: Table: **Change_Tracks**
Display Picture: Data Type: **SERIAL** Informix Name: **change_track_id**
Nullness: **NOT NULL UNIQUE** Values List:
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **The unique identifier assigned to a change made to an occurrence of Taxonomic Units.**

Name: **vernacular_name** Element Size: **80** Table: **Vernaculars**
Display Picture: Data Type: **VARCHAR** Informix Name: **vernacular_name**
Nullness: **NOT NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **A common name associated with an occurrence of Taxonomic Units.**

Name: **update_date** Element Size: **8** Table: **All Tables**
Display Picture: **mm/dd/yy** Data Type: **DATE** Informix Name: **update_date**
Nullness: **NOT NULL** Values List:
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **The date on which a record is modified. The purpose of this element is to provide assistance to those downloading data on a periodic basis.**

 **Return to the ITIS Database Physical Model**

Definitions for the entity *NODC_IDs* and its elements -- page 1 of 2

Click on an element to view its definition.



Table Name: **NODC_IDs**

Description:

@1 tsn +

@2 nadc_id

update_date

Definition:

A mechanism for maintaining the association between the NODC data applications and the ITIS database to support users' needs.

ELEMENTS

Name: **tsn**

Element Size:

Table: **Taxonomic_Units**

Display Picture:

Data Type: **SERIAL**

Informix Name: **tsn**

Nullness: **NOT NULL UNIQUE**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

A taxonomic serial number will be assigned for occurrences of Taxonomic Units at each level of the hierarchy through genus; at lower levels a tsn will be assigned to polynomial occurrences.

Description: **Taxonomic Serial Number. The unique identifier for an occurrence of Taxonomic Units.**

Name: **nadc_id**

Element Size: **12**

Table: **NODC_IDs**

Display Picture:

Data Type: **CHAR**

Informix Name: **nadc_id**

Nullness: **NOT NULL**

Values List:

Data Source: **USER ENTERED**

Validation Rules:

Description: **An identifier previously assigned to an occurrence of Taxonomic Units by the National Oceanographic Data Center.**



Return to the ITIS Database Physical Model

Definitions for the entity *NODC_IDs* and its elements -- page 2 of 2

Name: **update_date**

Element Size: **8**

Table: **All Tables**

Display Picture: **mm/dd/yy**

Data Type: **DATE**

Informix Name: **update_date**

Nullness: **NOT NULL**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **The date on which a record is modified. The purpose of this element is to provide assistance to those downloading data on a periodic basis.**



Return to the ITIS Database Physical Model

Click on an element to view its definition.



Table Name: **Vernaculars**

Description:

@1 tsn +

@2 vernacular_name +

language +

approved_ind +

update_date +

Definition:

Common names associated with an accepted occurrence in Taxonomic Units.

ELEMENTS

Name: **tsn**

Element Size:

Table: **Taxonomic_Units**

Display Picture:

Data Type: **SERIAL**

Informix Name: **tsn**

Nullness: **NOT NULL UNIQUE**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

A taxonomic serial number will be assigned for occurrences of Taxonomic Units at each level of the hierarchy through genus; at lower levels a tsn will be assigned to polynomial occurrences.

Description: **Taxonomic Serial Number. The unique identifier for an occurrence of Taxonomic Units.**

Name: **vernacular_name**

Element Size: **80**

Table: **Vernaculars**

Display Picture:

Data Type: **VARCHAR**

Informix Name: **vernacular_name**

Nullness: **NOT NULL**

Values List:

Data Source: **USER ENTERED**

Validation Rules:

Description: **A common name associated with an occurrence of Taxonomic Units.**



Return to the ITIS Database Physical Model

Definitions for the entity *Vernaculars* and its elements -- page 2 of 2

Name: **language** Element Size: **15** Table: **Vernaculars**
Display Picture: Data Type: **VARCHAR** Informix Name: **language**
Nullness: **NULL** Values List:
Data Source: **CHOICE LIST/USER ENTERED**
Validation Rules:
Description: **Native language from which the vernacular name originates; e.g. American, English, Russian, Spanish, etc.**

Name: **approved_ind** Element Size: **1** Table: **Vernaculars**
Display Picture: Data Type: **CHAR** Informix Name: **approved_ind**
Nullness: **NULL**
Values List: **If selected, the indicator will be set to true.**
Data Source: **CHOICE LIST**
Validation Rules: **If the approved_ind is set to true, then the reference identifying the vernacular must be entered.**
Description: **Designation identifying those vernacular names authorized for use by regulation, statute, etc.**

Name: **update_date** Element Size: **8** Table: **All Tables**
Display Picture: **mm/dd/yy** Data Type: **DATE** Informix Name: **update_date**
Nullness: **NOT NULL** Values List:
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **The date on which a record is modified. The purpose of this element is to provide assistance to those downloading data on a periodic basis.**

 **Return to the ITIS Database Physical Model**

Click on an element to view its definition.

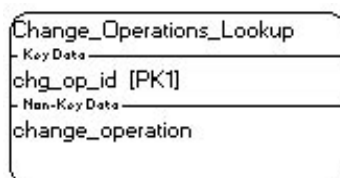


Table Name: **Change_Operations_Lookup**

Description:

**@1 chg_op_id +
change_operation**

Definition:

Reference providing the descriptions of valid ITIS change operations.

ELEMENTS

Name: **chg_op_id**

Element Size:

Table: **Change_Operations**

Display Picture:

Data Type: **SERIAL**

Informix Name:

Nullness: **NOT NULL UNIQUE**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **The unique identifier for a change operation.**

Name: **change_operation**

Element Size: **25**

Table: **Change_Operations_Lookup**

Display Picture:

Data Type: **VARCHAR**

Informix Name: **change_operation**

Nullness: **NOT NULL**

Values List: **Name Change**

Rank Change

Parent Change

Authority Change

Usage Change

Data Source: **CHOICE LIST**

Validation Rules:

Description: **A description of the type of change being recorded for an occurrence of Taxonomic Units.**



Return to the ITIS Database Physical Model

Definitions for the entity *Comments* and its elements -- page 1 of 2

Click on an element to view its definition.

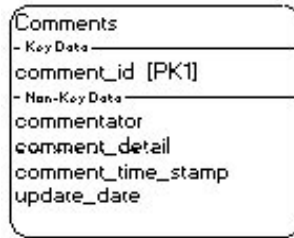


Table Name: **Comments**

Description:

**@1 comment_id +
commentator +
comment_detail +
comment_time_stamp +
update_date**

Definition:

A mechanism for recording history or detail deemed important for an occurrence(s) of Taxonomic Units.

ELEMENTS

Name: **comment_id**

Element Size:

Table: **Comments**

Display Picture:

Data Type: **SERIAL**

Informix Name: **comment_id**

Nullness: **NOT NULL UNIQUE**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **The unique identifier for remarks associated with an occurrence of Taxonomic Units.**

Name: **commentator**

Element Size: **100**

Table: **Comments**

Display Picture:

Data Type: **VARCHAR**

Informix Name: **commentator**

Nullness: **NULL**

Values List:

Data Source: **USER ENTERED**

Validation Rules:

Description: **The name of the person associated with the comment being provided with regard to an occurrence of Taxonomic Units.**



Return to the ITIS Database Physical Model

Name: **comment_detail** Element Size: **500** Table: **Comments**
Display Picture: Data Type: **TEXT** Informix Name: **comment_detail**
Nullness: **NOT NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **Remarks providing additional information regarding an occurrence of Taxonomic Units.**

Name: **comment_time_stamp** Element Size: **14** Table: **Comments**
Display Picture: **ddmmyyyyhhmmss** Data Type: **DATETIME** Informix Name: **comment_time_stamp**
Nullness: **NOT NULL** Values List:
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **The date and time at which a comment associated with an occurrence of Taxonomic Units is entered.**

Name: **update_date** Element Size: **8** Table: **All Tables**
Display Picture: **mm/dd/yy** Data Type: **DATE** Informix Name: **update_date**
Nullness: **NOT NULL** Values List:
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **The date on which a record is modified. The purpose of this element is to provide assistance to those downloading data on a periodic basis.**

 **Return to the ITIS Database Physical Model**

Click on an element to view its definition.



Table Name: **Change_Operations**

Description:

@1 change_track_id +

@2 change_op_id +

update_date

Definition:

Provides a record of the type(s) of change(s) associated with an occurrence of Taxonomic Units. Where multiple and/or complex changes occur, it will be desirable to refer to Change_Comment for details.

ELEMENTS

Name: **change_track_id**

Element Size:

Table: **Change_Tracks**

Display Picture:

Data Type: **SERIAL**

Informix Name: **change_track_id**

Nullness: **NOT NULL UNIQUE**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **The unique identifier assigned to a change made to an occurrence of Taxonomic Units.**

Name: **chg_op_id**

Element Size:

Table: **Change_Operations**

Display Picture:

Data Type: **SERIAL**

Informix Name:

Nullness: **NOT NULL UNIQUE**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **The unique identifier for a change operation.**

Name: **update_date**

Element Size: **8**

Table: **All Tables**

Display Picture: **mm/dd/yy**

Data Type: **DATE**

Informix Name: **update_date**

Nullness: **NOT NULL**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **The date on which a record is modified. The purpose of this element is to provide assistance to those downloading data on a periodic basis.**



Return to the ITIS Database Physical Model

Definitions for the entity *Change_Comments* and its elements -- page 1 of 2

Click on an element to view its definition.

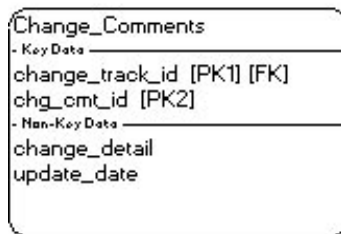


Table Name: **Change_Comments**

Description:

@1 change_track_id +

@2 chg_cmt_id +

change_detail +

update_date

Definition:

Remarks associated with any change made to an occurrence of Taxonomic Units or its associated attributes that provide additional information regarding why the change was made, the impact of the change, etc.

ELEMENTS

Name: **change_track_id**

Element Size:

Table: **Change_Tracks**

Display Picture:

Data Type: **SERIAL**

Informix Name: **change_track_id**

Nullness: **NOT NULL UNIQUE**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **The unique identifier assigned to a change made to an occurrence of Taxonomic Units.**

Name: **chg_cmt_id**

Element Size:

Table: **Change_Comments**

Display Picture:

Data Type: **SERIAL**

Informix Name: **chg_cmt_id**

Nullness: **NOT NULL UNIQUE**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **The unique identifier assigned to an individual remark associated with a change to an occurrence of Taxonomic Units.**



Return to the ITIS Database Physical Model

Definitions for the elements in the entity *Change_Comments* -- page 1 of 2

Name: **change_detail** Element Size: **250** Table: **Change_Comments**
Display Picture: Data Type: **VARCHAR** Informix Name: **change_detail**
Nullness: **NOT NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **Descriptive remarks associated with a change to an occurrence of Taxonomic Units.**

Name: **update_date** Element Size: **8** Table: **All Tables**
Display Picture: **mm/dd/yy** Data Type: **DATE** Informix Name: **update_date**
Nullness: **NOT NULL** Values List:
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **The date on which a record is modified. The purpose of this element is to provide assistance to those downloading data on a periodic basis.**

 **Return to the ITIS Database Physical Model**

Click on an element to view its definition.



Table Name: **Change_Tracks**

Description:

**@1 change_track_id +
old_tsn +
change_reason +
change_initiator +
change_reviewer +
change_certifier +
change_time_stamp +
tsn +
update_date**

Definition:

An audit mechanism for tracking changes made to the taxonomy, nomenclature and/or attributes of an occurrence of Taxonomic Units.

ELEMENTS

Name: **change_track_id**

Element Size:

Table: **Change_Tracks**

Display Picture:

Data Type: **SERIAL**

Informix Name: **change_track_id**

Nullness: **NOT NULL UNIQUE**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **The unique identifier assigned to a change made to an occurrence of Taxonomic Units.**



Return to the ITIS Database Physical Model

Definitions for the elements in the entity *Change_Tracks* -- page 2 of 3

Name: **old_tsn** Element Size: Table: **Change_Tracks**
Display Picture: Data Type: **INTEGER** Informix Name: **old_tsn**
Nullness: **NULL** Values List:
Data Source: **CHOICE LIST**
Validation Rules:
Description: **The taxonomic serial number associated with an occurrence of Taxonomic Units, the changes to which result in the addition or other change to the subject occurrence of Taxonomic Units.**

Name: **change_reason** Element Size: **40** Table: **Change_Tracks**
Display Picture: Data Type: **VARCHAR** Informix Name: **change_reason**
Nullness: **NOT NULL**
Values List: **Taxonomic description**
 Taxonomic revision
 Nomenclatural ruling
 Data entry correction
 Information correction
Data Source: **CHOICE LIST** Validation Rules:
Description: **The basis for requiring a modification to an occurrence of Taxonomic Units or its associated attributes.**

Name: **change_initiator** Element Size: **100** Table: **Change_Tracks**
Display Picture: Data Type: **VARCHAR** Informix Name: **change_initiator**
Nullness: **NOT NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **The person originating a change to an occurrence of Taxonomic Units.**

Name: **change_reviewer** Element Size: **100** Table: **Change_Tracks**
Display Picture: Data Type: **VARCHAR** Informix Name: **change_reviewer**
Nullness: **NOT NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **The person associated with the peer evaluation of change(s) to an occurrence of Taxonomic Units.**

 **Return to the ITIS Database Physical Model**

Name: **change_certifier** Element Size: **100** Table: **Change_Tracks**
Display Picture: Data Type: **VARCHAR** Informix Name: **change_certifier**
Nullness: **NOT NULL** Values List:
Data Source: **USER ENTERED**
Validation Rules:
Description: **The person delegated authority by the Taxonomic Work Group to be responsible for the final evaluation of any change to an occurrence of Taxonomic Units.**

Name: **change_time_stamp** Element Size: **14** Table: **Change_Tracks**
Display Picture: **ddmmyyyyhhmmss** Data Type: **DATETIME** Informix Name: **change_time_stamp**
Nullness: **NOT NULL** Values List:
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **The date and time associated with a change recorded for an occurrence of Taxonomic Units. This stamp will be recorded upon certification by the Taxonomic Work Group.**

Name: **tsn** Element Size: Table: **Taxonomic_Units**
Display Picture: Data Type: **SERIAL** Informix Name: **tsn**
Nullness: **NOT NULL UNIQUE** Values List:
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **A taxonomic serial number will be assigned for occurrences of Taxonomic Units at each level of the hierarchy through genus; at lower levels a tsn will be assigned to polynomial occurrences.**
Description: **Taxonomic Serial Number. The unique identifier for an occurrence of Taxonomic Units.**

Name: **update_date** Element Size: **8** Table: **All Tables**
Display Picture: **mm/dd/yy** Data Type: **DATE** Informix Name: **update_date**
Nullness: **NOT NULL** Values List:
Data Source: **SYSTEM GENERATED**
Validation Rules:
Description: **The date on which a record is modified. The purpose of this element is to provide assistance to those downloading data on a periodic basis.**

 **Return to the ITIS Database Physical Model**

Definitions for the entity *TU_Comments_Links* and its elements -- page 1 of 1

Click on an element to view its definition.



Table Name: **TU_Comments_Links**

Description:

@1 tsn +

@2 comment_id +

update_date

Definition:

An intersection table which provides the means for establishing a many to many relationship between an occurrence of Taxonomic Units and associated Comments.

ELEMENTS

Name: **tsn**

Element Size:

Table: **Taxonomic_Units**

Display Picture:

Data Type: **SERIAL**

Informix Name: **tsn**

Nullness: **NOT NULL UNIQUE**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

A taxonomic serial number will be assigned for occurrences of Taxonomic Units at each level of the hierarchy through genus; at lower levels a tsn will be assigned to polynomial occurrences.

Description: **Taxonomic Serial Number. The unique identifier for an occurrence of Taxonomic Units.**

Name: **comment_id**

Element Size:

Table: **Comments**

Display Picture:

Data Type: **SERIAL**

Informix Name: **comment_id**

Nullness: **NOT NULL UNIQUE**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **The unique identifier for remarks associated with an occurrence of Taxonomic Units.**

Name: **update_date**

Element Size: **8**

Table: **All Tables**

Display Picture: **mm/dd/yy**

Data Type: **DATE**

Informix Name: **update_date**

Nullness: **NOT NULL**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

Description: **The date on which a record is modified. The purpose of this element is to provide assistance to those downloading data on a periodic basis.**



Return to the ITIS Database Physical Model

Click on an element to view its definition.

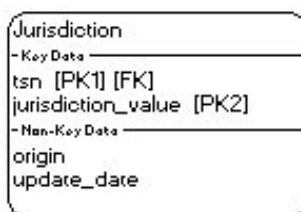


Table Name: **Jurisdiction**

Description:

@1 tsn +

@2 jurisdiction_value +

origin +

update_date

Definition:

Association of a referenced occurrence of Taxonomic Units with one or more US jurisdictional units. Also provides an identification of whether the taxon was native and/or introduced to the unit.

ELEMENTS

Name: **tsn**

Element Size:

Table: **Taxonomic_Units**

Display Picture:

Data Type: **SERIAL**

Informix Name: **tsn**

Nullness: **NOT NULL UNIQUE**

Values List:

Data Source: **SYSTEM GENERATED**

Validation Rules:

A taxonomic serial number will be assigned for occurrences of Taxonomic Units at each level of the hierarchy through genus; at lower levels a tsn will be assigned to polynomial occurrences.

Description: **Taxonomic Serial Number. The unique identifier for an occurrence of Taxonomic Units.**

Name: **jurisdiction_value**

Element Size: **30**

Table: **Jurisdiction**

Display Picture:

Data Type: **VARCHAR**

Informix Name: **jurisdiction_value**

Nullness: **NOT NULL**

Values List:

Data Source: **CHOICE LIST**

Validation Rules: **Continental US - 48 contiguous US states between Mexico and Canada.**

Alaska - state of Alaska including St. Lawrence Island and the Aleutian Islands.

Hawaii - state of Hawaii (northwestern island chain from Pearl and Hermes Reef to Nihoa (sometimes called Bird Islands) and islands of Niihau, Kauai, Oahu, Molokai, Lanai, Maui, Kahoolawe, and Hawaii.



Return to the ITIS Database Physical Model

Central Pacific Territories - Commonwealth of the Northern Mariana Islands, Guam, American Samoa, Baker Island, Howland Island, Jarvis Island, Johnston Atoll (Johnston Island), Kingman Reef, Palmyra, Midway Islands, and Wake Island.

Caribbean Territories - the Commonwealth of Puerto Rico, US Virgin Islands (St. John, St. Thomas, and small surrounding islands), and Navassa Island.

Canada - 12 provinces and territories.

Description: **Label signifying a US jurisdictional unit as defined by the TWG, and Canada.**

Name: origin	Element Size: 19	Table: Jurisdiction
Display Picture:	Data Type: VARCHAR	Informix Name: origin
Nullness: NOT NULL		
Values List: Native Introduced Native & Introduced Incidental		
Data Source: CHOICE LIST		
Validation Rules:		
Description: Indication of whether an occurrence of Taxonomic Units is native and/or introduced to a US jurisdictional unit.		

Name: update_date	Element Size: 8	Table: All Tables
Display Picture: mm/dd/yy	Data Type: DATE	Informix Name: update_date
Nullness: NOT NULL		Values List:
Data Source: SYSTEM GENERATED		
Validation Rules:		
Description: The date on which a record is modified. The purpose of this element is to provide assistance to those downloading data on a periodic basis.		

 **Return to the ITIS Database Physical Model**

ITIS Physical Model - References Summary

The ITIS database will be modified to reflect extensive changes to the requirements for references data. The Publications and Reference_Links tables will be removed and replaced by a revised structure that is intended to facilitate bibliographic output in various formats.

Implementation of these changes impact the entire Integrated Taxonomic Information System. The date for completion of these changes has not been identified.

Upon removal of the Publications table, the following data elements will be rendered obsolete:

- publication_id_prefix
- publication_id
- reference_author
- title
- publication_name
- listed_pub_date
- actual_pub_date
- publisher
- pub_place
- pages
- pub_comment

The definitions for the following data elements will be modified:

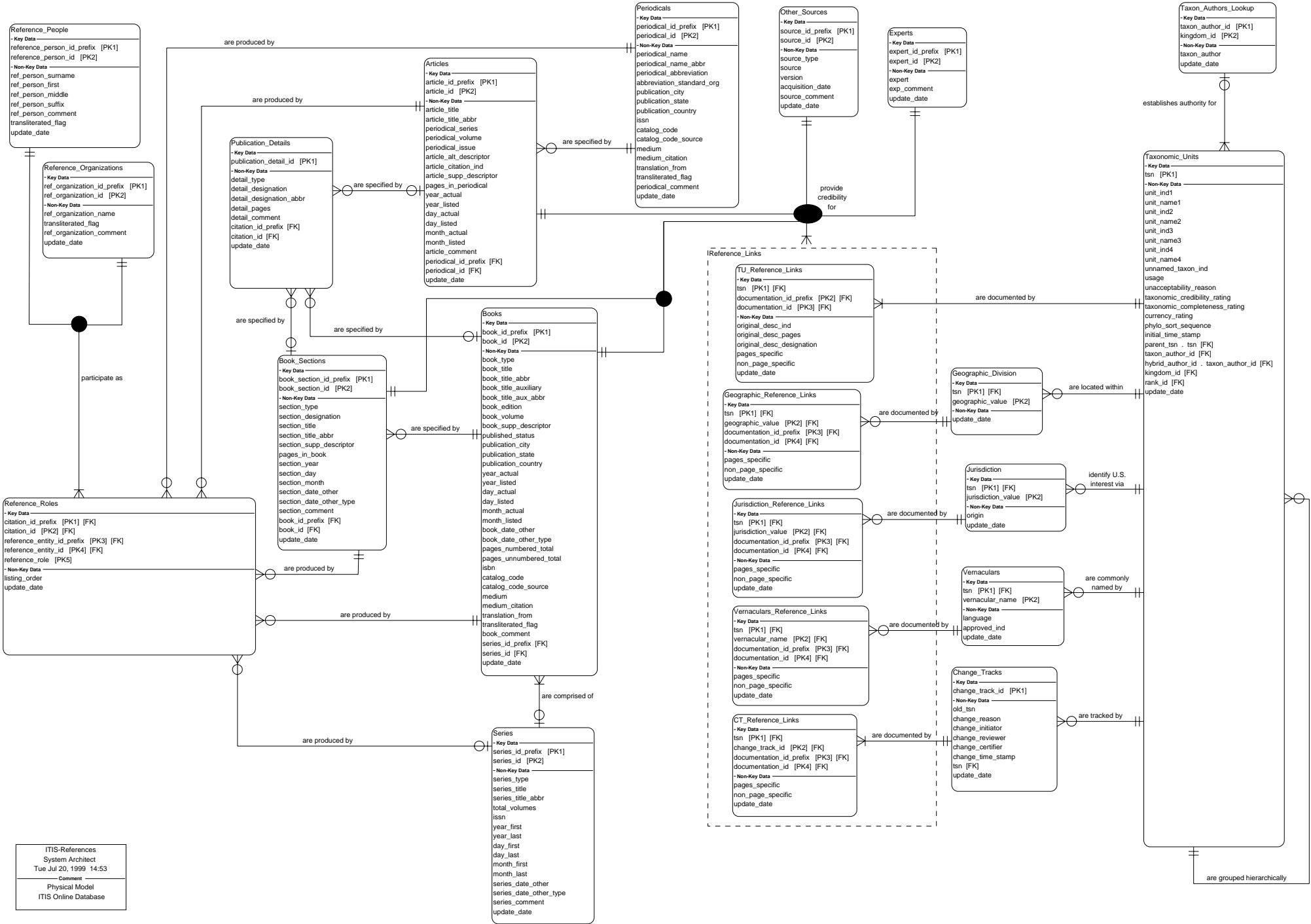
- isbn
- issn

Upon removal of the Reference_Links table, the following data element will be rendered obsolete:

- initial_itis_desc_ind

The definitions for the following data elements will be modified:

- documentation_id_prefix
- documentation_id
- original_desc_ind



ITIS References Data Dictionary - Online Tables

Table Name

Informix Table Name	Description	Volume	Business Description
Articles			
Articles	@1 article_id_prefix @2 article_id article_title article_title_abbr periodical_series periodical_volume periodical_issue article_alt_descriptor article_citation_ind article_supp_descriptor pages_in_periodical year_actual year_listed day_actual day_listed month_actual month_listed article_comment periodical_id_prefix /FKFROM "Periodicals.periodical_id_prefix(are specified by)"/ periodical_id /FKFROM "Periodicals.periodical_id(are specified by)"/ update_date	+/-50,000	A distinct, titled division of a journal or other periodical.

Table Name

Informix Table Name	Description	Volume	Business Description
Book_Sections			
Book_Sections	@1 book_section_id_prefix @2 book_section_id section_type section_designation section_title section_title_abbr section_supp_descriptor pages_in_book section_year section_day section_month section_date_other section_date_other_type section_comment book_id_prefix /FKFROM "Books.book_id_prefix(are specified by)"/ book_id /FKFROM "Books.book_id(are specified by)"/ update_date	+/-50,000	A major division or part of a book or book-like reference.

Table Name

Informix Table Name	Description	Volume	Business Description
Books			
Books	@1 book_id_prefix @2 book_id book_type book_title book_title_abbr book_title_auxiliary book_title_aux_abbr book_edition book_volume book_supp_descriptor published_status publication_city publication_state publication_country year_actual year_listed day_actual day_listed month_actual month_listed book_date_other book_date_other_type pages_numbered_total pages_unnumbered_total isbn catalog_code catalog_code_source medium medium_citation translation_from transliterated_flag book_comment series_id_prefix /FKFROM "Series.series_id_prefix(are comprised of)"/ series_id /FKFROM "Series.series_id(are comprised of)"/ update_date	+/-10,000	A source of information usually in the form of a set of written or printed pages bound together into a volume.

Table Name

Informix Table Name	Description	Volume	Business Description
CT_Reference_Links	@1 tsn / FKFROM "Taxonomic_Units.tsn(are documented by)" / @2 change_track_id / FKFROM "Change_Tracks.change_track_id(are documented by)" / @3 documentation_id_prefix / FKFROM ["Experts.expert_id_prefix(provide credibility for)" "Books.book_id_prefix(provide credibility for)" "Periodicals.periodical_id_prefix(provide credibility for)" "Other_Sources.source_id_prefix(provide credibility for)"] / @4 documentation_id / FKFROM ["Experts.expert_id(provide credibility for)" "Books.book_id(provide credibility for)" "Periodicals.periodical_id(provide credibility for)" "Other_Sources.source_id(provide credibility for)"] / pages_specific non_page_specific update_date	Unknown	An intersection table that provides a link between occurrences of Change_Tracks, and occurrences of Books, Book_Sections, Articles, Experts, or Other_Sources.

Table Name

Informix Table Name	Description	Volume	Business Description
Geographic_Reference_Links			
Geo_Ref_Links	@1 tsn / FKFROM "Taxonomic_Units.tsn(are documented by)" / @2 geographic_value / FKFROM "Geographic_Division.geographic_value(are documented by)" / @3 documentation_id_prefix / FKFROM ["Experts.expert_id_prefix(provide credibility for)" "Books.book_id_prefix(provide credibility for)" "Periodicals.periodical_id_prefix(provide credibility for)" "Other_Sources.source_id_prefix(provide credibility for)"] / @4 documentation_id / FKFROM ["Experts.expert_id(provide credibility for)" "Books.book_id(provide credibility for)" "Periodicals.periodical_id(provide credibility for)" "Other_Sources.source_id(provide credibility for)"] / pages_specific non_page_specific update_date	Unknown	An intersection table that provides a link between occurrences of Geographic_Division and occurrences of Books, Book_Sections, Articles, Experts, or Other_Sources.

Table Name

Informix Table Name	Description	Volume	Business Description
Jurisdiction_Reference_Links			
Jurisdictn_Ref_Lks	@1 tsn / FKFROM "Taxonomic_Units.tsn(are documented by)" / @2 jurisdiction_value / FKFROM "Jurisdiction.jurisdiction_value(are documented by)" / @3 documentation_id_prefix / FKFROM ["Experts.expert_id_prefix(provide credibility for)" "Books.book_id_prefix(provide credibility for)" "Periodicals.periodical_id_prefix(provide credibility for)" "Other_Sources.source_id_prefix(provide credibility for)"] / @4 documentation_id / FKFROM ["Experts.expert_id(provide credibility for)" "Books.book_id(provide credibility for)" "Periodicals.periodical_id(provide credibility for)" "Other_Sources.source_id(provide credibility for)"] / pages_specific non_page_specific update_date	Unknown	An intersection table that provides a link between occurrences of Jurisdiction and occurrences of Books, Book_Sections, Articles, Experts, or Other_Sources.

Table Name

Informix Table Name	Description	Volume	Business Description
Periodicals			
Periodicals	@1 periodical_id_prefix @2 periodical_id periodical_name periodical_name_abbr periodical_abbreviation abbreviation_standard_org publication_city publication_state publication_country issn catalog_code catalog_code_source medium medium_citation translation_from transliterated_flag periodical_comment update_date	+/-1000	A journal or other serial publication typically with a fixed interval between issues.

Table Name

Informix Table Name	Description	Volume	Business Description
Publication_Details			
Publication_Details	@ publication_detail_id detail_type detail_designation detail_designation_abbr detail_pages detail_comment citation_id_prefix /FKFROM ["Articles.article_id_prefix(are specified by)"] "Book_sections.book_section_id_prefix(are specified by)"] "Books.book_id_prefix(are specified by)"]/ citation_id /FKFROM ["Articles.article_id(are specified by)"] "Book_sections.book_section_id(are specified by)"] "Books.book_id(are specified by)"]/ update_date	Unknown	Significant entries in a written reference that are less than a total contribution such as a figure, table, map, etc.
Reference_Organizations			
Reference_Orgs	@1 ref_organization_id_prefix @2 ref_organization_id ref_organization_name transliterated_flag ref_organization_comment update_date	+/-500	A group, society, or corporate entity having its own identity which participates in the creation or production of a written reference.
Reference_People			
Reference_People	@1 reference_person_id_prefix @2 reference_person_id ref_person_surname ref_person_first ref_person_middle ref_person_suffix ref_person_comment transliterated_flag update_date	+/-1000	Human individuals who participate in the creation or production of a written reference.

Table Name

Informix Table Name	Description	Volume	Business Description
Reference_Roles	<p>@1 citation_id_prefix /FKFROM ["Books.book_id_prefix(are produced by)" "Book_Sections.book_section_id_prefix(are produced by)" "Periodicals.periodicals_id_prefix(are produced by)" "Articles.article_id_prefix(are produced by)" "Series.series_id_prefix(are produced by)"] / @2 citation_id /FKFROM ["Books.book_id(are produced by)" "Book_Sections.book_section_id(are produced by)" "Periodicals.periodicals_id(are produced by)" "Articles.article_id(are produced by)" "Series.series_id(are produced by)"] / @3 reference_entity_id_prefix /FKFROM ["Reference_People.reference_person_id_prefix(participate as)" "Reference_Organizations.ref_organization_id_prefix(participate as)"] / @4 reference_entity_id /FKFROM ["Reference_People.reference_person_id(participate as)" "Reference_Organizations.ref_organization_id(participate as)"] / @5 reference_role listing_order update_date</p>	Unknown	An intersection table allowing the identification of the function performed by a person, society or other organization in the creation or issuance of a publication. In the case of authors or editors, the citational order is also identified.

Table Name

Informix Table Name	Description	Volume	Business Description
Series			
Series	@1 series_id_prefix @2 series_id series_type series_title series_title_abbrev total_volumes issn year_first year_last day_first day_last month_first month_last series_date_other series_date_other_type series_comment update_date	Unknown	Pertinent citational data regarding multi-volume sets of written references.

Table Name

Informix Table Name	Description	Volume	Business Description
TU_Reference_Links			
TU_Reference_Links	@1 tsn / FKFROM "Taxonomic_Units.tsn(are documented by)" / @2 documentation_id_prefix / FKFROM ["Experts.expert_id_prefix(provide credibility for)" "Books.book_id_prefix(provide credibility for)" "Periodicals.periodical_id_prefix(provide credibility for)" "Other_Sources.source_id_prefix(provide credibility for)"]/ @3 documentation_id / FKFROM ["Experts.expert_id(provide credibility for)" "Books.book_id(provide credibility for)" "Periodicals.periodical_id(provide credibility for)" "Other_Sources.source_id(provide credibility for)"]/ original_desc_ind original_desc_pages original_desc_designation pages_specific update_date	+/-300,000	An intersection table that provides a link between occurrences of Taxonomic Units, and occurrences of Books, Book_Sections, Articles, Experts, or Other_Sources.

Table Name

Informix Table Name	Description	Volume	Business Description
Vernaculars_Reference_Links			
Vernacular_Ref_Lnk	@1 tsn / FKFROM "Taxonomic_Units.tsn(are documented by)" / @2 vernacular_name / FKFROM "Vernaculars.vernacular_name(are documented by)" / @3 documentation_id_prefix / FKFROM ["Experts.expert_id_prefix(provide credibility for)" "Books.book_id_prefix(provide credibility for)" "Periodicals.periodical_id_prefix(provide credibility for)" "Other_Sources.source_id_prefix(provide credibility for)"] / @4 documentation_id / FKFROM ["Experts.expert_id(provide credibility for)" "Books.book_id(provide credibility for)" "Periodicals.periodical_id(provide credibility for)" "Other_Sources.source_id(provide credibility for)"] / pages_specific non_page_specific update_date	Unknown	An intersection table that provides a link between occurrences of Vernaculars, and occurrences of Books, Book_Sections, Articles, Experts, or Other_Sources.

ITIS References Data Dictionary - Elements

Combined - Online and Taxonomic Workbench

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: abbreviation_standard_org		Informix Name: abbr_standard_org		TWB Name: abbr_standard_org			
VARCHAR 255,0	TEXT 255	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	The group, society, or similar entity that has established the generally accepted shortened version of the name of a periodical reference.				Validation Rules	If the element, periodical_abbreviation, is populated entry of a value for this element is required.	

Table(s) Periodicals **WB Table(s)** WB_Periodicals

Name: alt_ct_ref_id		Informix Name:		TWB Name: alt_ct_ref_id			
AUTONUMBER		NOT NULL UNIQUE		SYSTEM GENERATED			

Description An alternate serial key for the WB_CT_Reference_Links solely for the use of the workbench programmers. **Validation Rules**

Table(s) **WB Table(s)** WB_CT_Reference_Links

Name: alt_geo_ref_id		Informix Name:		TWB Name: alt_geo_ref_id			
AUTONUMBER		NOT NULL UNIQUE		SYSTEM GENERATED			

Description An alternate serial key for the WB_Geographic_Reference_Links table solely for the use of the workbench programmers. **Validation Rules**

Table(s) **WB Table(s)** WB_Geographic_Reference_Links

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: alt_jur_ref_id		Informix Name:		TWB Name: alt_jur_ref_id			
	AUTONUMBER		NOT NULL UNIQUE		SYSTEM GENERATED		
Description	An alternate serial key for the WB_Jurisdiction_Reference_Links table solely for the use of the workbench programmers.				Validation Rules		
Table(s)	WB Table(s) WB_Jurisdiction_Reference_Links						
Name: alt_ref_role_id		Informix Name:		TWB Name: alt_ref_role_id			
	AUTONUMBER		NOT NULL UNIQUE		SYSTEM GENERATED		
Description	An alternate serial key for the WB_Reference_Roles table solely for the use of the workbench programmers.				Validation Rules		
Table(s)	WB Table(s) WB_Reference_Roles						
Name: alt_tu_ref_id		Informix Name:		TWB Name: alt_tu_ref_id			
	AUTONUMBER		NOT NULL UNIQUE		SYSTEM GENERATED		
Description	An alternate serial key for the WB_TU_Reference_Links table solely for the use of the workbench programmers.				Validation Rules		
Table(s)	WB Table(s) WB_TU_Reference_Links						
Name: alt_ver_ref_id		Informix Name:		TWB Name: alt_ver_ref_id			
	AUTONUMBER		NOT NULL UNIQUE		SYSTEM GENERATED		
Description	An alternate serial key for the WB_Vernaculars_Reference_Links table solely for the use of the workbench programmers.				Validation Rules		
Table(s)	WB Table(s) WB_Vernaculars_Reference_Links						

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
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Name: article_alt_descriptor		Informix Name: art_alt_descriptor			TWB Name: article_alt_descriptor		
VARCHAR 100,0	TEXT 100	NULL	NULL	PASSED FROM TWB	USER ENTERED		

Description Data pertinent to a journal or periodical reference that may not translate specifically to the notations of series, volume and issue but that appear to relate to be similar to these notations. **Validation Rules**

Table(s) Articles WB Table(s) WB_Articles

Name: article_citation_ind		Informix Name: art_citation_ind			TWB Name: article_citation_ind		
VARCHAR 4,0	TEXT 4	NOT NULL	NULL	PASSED FROM TWB	CHOICE LIST	SVI	NONE ALT SVI

Description Indicator to identify the user's specification of series, volume and issue (SVI) or an alternate article description. **Validation Rules**

Table(s) Articles WB Table(s) WB_Articles

Name: article_comment		Informix Name: article_comment			TWB Name: article_comment		
TEXT	MEMO	NULL	NULL	PASSED FROM TWB	USER ENTERED		

Description Narrative providing additional information regarding an article in a journal, periodical or similar publication. **Validation Rules**

Table(s) Articles WB Table(s) WB_Articles

Name: article_date_other		Informix Name: article_date_other			TWB Name: article_date_other		
VARCHAR 255,0	TEXT 255	NULL	NULL	PASSED FROM TWB	USER ENTERED		

Description A time assignment from other than the Gregorian calendar applicable to a titled division of a journal or other periodical. **Validation Rules**

Table(s) Articles WB Table(s) WB_Articles

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
---------------------------------	-------------------------------	------------------------	---------------------	--------------------	-----------------	---------------	-------------

Name: article_date_other_type **Informix Name:** art_date_othr_type **TWB Name:** article_date_other_type

VARCHAR 60,0	TEXT 60	NULL	NULL	PASSED FROM TWB	USER ENTERED		
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Description A designation of the calendar system, other than the Gregorian calendar on which the entry in article_date_other is based. **Validation Rules**

Table(s) Articles **WB Table(s)** WB_Articles

Name: article_id **Informix Name:** article_id **TWB Name:** article_id

SERIAL	LONG_INTEGER	NOT NULL UNIQUE	NULL	SYSTEM GENERATED	PASSED FROM ITIS		
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Description A unique identifier for a portion of a journal, periodical or like publication. **Validation Rules**

Table(s) Articles **WB Table(s)** WB_Articles

Name: article_id_prefix **Informix Name:** article_id_prefix **TWB Name:** article_id_prefix

VARCHAR 3,3	TEXT 3	NOT NULL WITH DEFAULT	NOT NULL WITH DEFAULT	SYSTEM GENERATED	PASSED FROM ITIS	ART	ART
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Description A prefix used with a serial number that associates a specific record with the Articles table. **Validation Rules**

Table(s) Articles **WB Table(s)** WB_Articles

Name: article_supp_descriptor **Informix Name:** article_supp_desc **TWB Name:** article_supp_descriptor

VARCHAR 255,0	TEXT 255	NULL	NULL	PASSED FROM TWB	USER ENTERED		
------------------	-------------	------	------	-----------------	--------------	--	--

Description Supplemental information regarding a part of a journal or periodical publication that is pertinent to the citation but is not a standard data element. **Validation Rules**

Table(s) Articles **WB Table(s)** WB_Articles

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: article_title		Informix Name: article_title		TWB Name: article_title			
TEXT	MEMO	NOT NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description The identifying name given a section contained in a journal, periodical or similar reference.				Validation Rules			
Table(s) Articles		WB Table(s) WB_Articles					
Name: article_title_abbr		Informix Name: article_title_abbr		TWB Name: article_title_abbr			
VARCHAR 254,1	TEXT 254	NOT NULL UNIQUE	NULL	PASSED FROM TWB	SYSTEM GENERATED		
Description A duplicate of, or where necessary, a shortened version limited to 254 characters of, the article title that can be used for searching, choice lists or other application requirements.				Validation Rules			
Table(s) Articles		WB Table(s) WB_Articles					
Name: book_comment		Informix Name: book_comment		TWB Name: book_comment			
TEXT	MEMO	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description Remarks associated with the book reference cited.				Validation Rules			
Table(s) Books		WB Table(s) WB_Books					
Name: book_date_other		Informix Name: book_date_other		TWB Name: book_date_other			
VARCHAR 255,0	TEXT 255	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description A time assignment from other than the Gregorian calendar applicable to a book or book-like reference.				Validation Rules			
Table(s) Books		WB Table(s) WB_Books					

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: book_date_other_type		Informix Name: bk_date_other_type		TWB Name: book_date_other_type			
VARCHAR 60,0	TEXT 60	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	A designation of the calendar system, other than the Gregorian calendar on which the entry in book_date_other is based.				Validation Rules		
Table(s)	Books	WB Table(s)			WB_Books		
Name: book_edition		Informix Name: book_edition		TWB Name: book_edition			
VARCHAR 30,0	TEXT 30	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	A publishing notation that provides information regarding the issuance of a book reference.				Validation Rules		
Table(s)	Books	WB Table(s)			WB_Books		
Name: book_id		Informix Name: book_id		TWB Name: book_id			
SERIAL	LONG_INTEGER	NOT NULL UNIQUE	NULL	SYSTEM GENERATED	PASSED FROM ITIS		
Description	A unique identifier for a book or book like publication.				Validation Rules		
Table(s)	Books	WB Table(s)			WB_Books, WB_Book_Sections		
Name: book_id_prefix		Informix Name: book_id_prefix		TWB Name: book_id_prefix			
VARCHAR 3,3	TEXT 3	NOT NULL WITH DEFAULT	NOT NULL WITH DEFAULT	SYSTEM GENERATED	PASSED FROM ITIS	BKS	BKS
Description	A prefix used with a serial number that associates a specific record with the Books table.				Validation Rules		
Table(s)	Books	WB Table(s)			WB_Books		

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: book_section_id		Informix Name: book_section_id		TWB Name: book_section_id			
SERIAL	LONG_INTEGER	NOT NULL UNIQUE	NULL	SYSTEM GENERATED	PASSED FROM ITIS		
Description A system generated unique identifier for a part of a book or book like reference.					Validation Rules		
Table(s) Book_Sections				WB Table(s) WB_Book_Sections			
Name: book_section_id_prefix		Informix Name: book_sec_id_prefix		TWB Name: book_sec_id_prefix			
VARCHAR 3,3	TEXT 3	NOT NULL WITH DEFAULT	NOT NULL WITH DEFAULT	SYSTEM GENERATED	PASSED FROM ITIS	SEC	SEC
Description A prefix used with a serial number that associates a specific record with the Book_Sections table.					Validation Rules		
Table(s) Book_Sections				WB Table(s) WB_Book_Sections			
Name: book_supp_descriptor		Informix Name: book_supp_desc		TWB Name: book_supp_descriptor			
VARCHAR 255,0	TEXT 255	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description Supplemental information regarding a book or book-like publication that is pertinent to the citation of same but is not a standard data element.					Validation Rules		
Table(s) Books				WB Table(s) WB_Books			
Name: book_title		Informix Name: book_title		TWB Name: book_title			
TEXT	MEMO	NOT NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description The identifying name or label given a book or book like reference.					Validation Rules		
Table(s) Books				WB Table(s) WB_Books			

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
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Name: book_title_abbrev		Informix Name: book_title_abbrev			TWB Name: book_title_abbrev		
VARCHAR 254,1	TEXT 254	NOT NULL UNIQUE	NULL	PASSED FROM TWB	SYSTEM GENERATED		

Description A duplicate of, or where necessary, a shortened version limited to 254 characters of, the book title that can be used for searching, choice lists or other application requirements.

Validation Rules

Table(s) Books **WB Table(s)** WB_Books

Name: book_title_aux_abbrev		Informix Name: bk_title_aux_abbrev			TWB Name: book_title_aux_abbrev		
VARCHAR 254,1	TEXT 254	NOT NULL UNIQUE	NULL	PASSED FROM TWB	SYSTEM GENERATED		

Description A duplicate of, or where necessary, a shortened version limited to 254 characters of, the book title auxiliary that can be used for searching, choice lists or other application requirements.

Validation Rules

Table(s) Books **WB Table(s)** WB_Books

Name: book_title_auxiliary		Informix Name: book_title_aux			TWB Name: book_title_auxiliary		
TEXT	MEMO	NULL	NULL	PASSED FROM TWB	USER ENTERED		

Description That portion of an identifying title associated with conference or symposium proceedings or transactions, bulletins, reports, etc. including location and dates, report numbers and other applicable data.

Validation Rules

Table(s) Books **WB Table(s)** WB_Books

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: book_type		Informix Name: book_type			TWB Name: book_type		
VARCHAR 35,4	TEXT 35	NOT NULL WITH DEFAULT	NULL	PASSED FROM TWB	UPDATABLE CHOICE LIST	Book	Abstract Annual Report Atlas Book Dissertation Government publication Livraison Monograph Pamphlet Proceedings Series Volume Special Publication Thesis

Description A kind of written reference typically bound into a volume.

Validation Rules Require population of Series table data elements where book_type = Series Volume

Table(s) Books

WB Table(s) WB_Books

Name: book_volume		Informix Name: book_volume			TWB Name: book_volume		
VARCHAR 25,0	TEXT 25	NULL	NULL	PASSED FROM TWB	USER ENTERED		

Description A publishing notation indicating a specific book within a set or complete work.

Validation Rules

Table(s) Books

WB Table(s) WB_Books

Name: catalog_code		Informix Name: catalog_code			TWB Name: catalog_code		
VARCHAR 100,0	TEXT 100	NULL	NULL	PASSED FROM TWB	USER ENTERED		

Description A reference identifier assigned by a library, the Online Computer Library Center, Inc. (OCLC), or similar entity from which a source can be located and retrieved.

Validation Rules

Table(s) Books, Periodicals

WB Table(s) WB_Books, WB_Periodicals

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: catalog_code_source		Informix Name: catalog_code_src		TWB Name: catalog_code_source			
VARCHAR 255,0	TEXT 255	NULL	NULL	PASSED FROM TWB	UPDATABLE CHOICE LIST		

Description The originating or constituting entity of the catalog code.

Validation Rules If the element catalog_code is populated, entry of this element is required. The term, unknown, is a legitimate value.

Table(s) Books, Periodicals

WB Table(s) WB_Books, WB_Periodicals

Name: citation_id		Informix Name: citation_id		TWB Name: citation_id			
INTEGER	LONG_INTEGER	NOT NULL	NULL	PASSED PARAMETER	PASSED FROM ITIS		

Description The serial portion of the identifier created for one of the following: the Series table, the Books table, the Book_Sections table, the Periodicals table or the Articles table.

Validation Rules

Table(s) Reference_Roles, Publication_Details

WB Table(s) WB_Reference_Roles, WB_Publication_Details

Name: citation_id_prefix		Informix Name: citation_id_prefix		TWB Name: citation_id_prefix			
VARCHAR 3,3	TEXT 3	NOT NULL	NOT NULL	PASSED PARAMETER	PASSED FROM ITIS	ART BKS PRD SEC SER	

Description An identifying prefix to the citation_id that designates the publication or publication part being referenced.

Validation Rules

Table(s) Reference_Roles, Publication_Details

WB Table(s) WB_Reference_Roles, WB_Publication_Details

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
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Name: day_actual		Informix Name: day_actual		TWB Name: day_actual			
VARCHAR 2,0	TEXT 2	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	The true calendar date (one of the 31 possible calendar divisions within a month) on which a reference was published. This represents the verified date of the reference.				Validation Rules	If month_actual and year_actual are populated, verify that the date can occur within the month and year identified. Such validation may only be possible for specified formats that will need to be identified.	

Table(s) Articles, Books **WB Table(s)** WB_Articles, WB_Books

Name: day_first		Informix Name: day_first		TWB Name: day_first			
VARCHAR 2,0	TEXT 2	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	The calendar date (one of the 31 possible calendar divisions within a month) indicated as the initial date for a series or other multiple part work.				Validation Rules	If month_first and year_first are populated, verify that the date can occur within the month and year identified. Such validation may only be possible for specified formats that will need to be identified.	

Table(s) Series **WB Table(s)** WB_Series

Name: day_last		Informix Name: day_last		TWB Name: day_last			
VARCHAR 2,0	TEXT 2	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	The final calendar date (one of the 31 possible calendar divisions within a month) indicated for a series or other multiple part work.				Validation Rules	If month_last and year_last are populated, verify that the date can occur within the month and year identified. Such validation may only be possible for specified formats that will need to be identified.	

Table(s) Series **WB Table(s)** WB_Series

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
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Name: day_listed		Informix Name: day_listed			TWB Name: day_listed		
VARCHAR 2,0	TEXT 2	NULL	NULL	PASSED FROM TWB	USER ENTERED		

Description The date (one of the 31 possible calendar divisions within a month) printed or otherwise clearly identified for a reference.

Validation Rules If month_listed and year_listed are populated, verify that the date can occur within the month and year identified. Such validation may only be possible for specified formats that will need to be identified.

Table(s) Articles, Books **WB Table(s)** WB_Articles, WB_Books

Name: detail_comment		Informix Name: detail_comment			TWB Name: detail_comment		
TEXT	MEMO	NULL	NULL	PASSED FROM TWB	USER ENTERED		

Description Remarks providing additional information regarding a specific item in an authored or edited reference.

Validation Rules

Table(s) Publication_Details **WB Table(s)** WB_Publication_Details

Name: detail_designation		Informix Name: detail_designation			TWB Name: detail_designation		
TEXT	MEMO	NOT NULL	NULL	PASSED FROM TWB	USER ENTERED		

Description Name or descriptive text associated with the figure, table, etc. and that serves to specify the item. Examples: Plate 1; Figure 2. Known and suspected areas of adaptation of *Bouteloua gracilis*

Validation Rules

Table(s) Publication_Details **WB Table(s)** WB_Publication_Details

Name: detail_designation_abbrev		Informix Name: detail_dsgntn_abbrev			TWB Name: detail_designation_abbrev		
VARCHAR 254,1	TEXT 254	NOT NULL UNIQUE	NULL	PASSED FROM TWB	SYSTEM GENERATED		

Description A duplicate of, or where necessary, a shortened version limited to 254 characters of, the detail designation that can be used for searching, choice lists or other application requirements.

Validation Rules

Table(s) Publication_Details **WB Table(s)** WB_Publication_Details

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
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Name: detail_pages		Informix Name: detail_page			TWB Name: detail_pages		
VARCHAR 10,0	TEXT 10	NULL	NULL	PASSED FROM TWB	USER ENTERED		

Description The specific page or page range on which an item of special significance is located. **Validation Rules**

Table(s) Publication_Details **WB Table(s)** WB_Publication_Details

Name: detail_type		Informix Name: detail_type			TWB Name: detail_type		
VARCHAR 25,3	TEXT 25	NOT NULL	NULL	PASSED FROM TWB	UPDATABLE CHOICE LIST	Illustration Figure Table Plate Map	

Description Indication of the kind of representation significant enough to note as a part of a reference. **Validation Rules**

Table(s) Publication_Details **WB Table(s)** WB_Publication_Details

Name: documentation_id		Informix Name: documentation_id			TWB Name: documentation_id		
INTEGER	LONG_INTEGER	NOT NULL	NULL	PASSED PARAMETER	PASSED FROM ITIS		

Description The serial portion of the identifier created for one of the following: the Books table, the Book_Sections table, the Articles table, the Experts table or the Other_Sources table used with the documentation_id_prefix to provide the reference link with an instance from the Taxonomic_Units table, the Vernaculars table, the Change_Tracks table, the Geographic_Division table or the Jurisdiction table. **Validation Rules**

Table(s) TU_Reference_Links, Geographic_Reference_Links, Jurisdiction_Reference_Links, Vernaculars_Reference_Links, CT_Reference_Links **WB Table(s)** WB_TU_Reference_Links, WB_Geographic_Reference_Links, WB_Jurisdiction_Reference_Links, WB_Vernaculars_Reference_Links, WB_CT_Reference_Links

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
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Name: documentation_id_prefix **Informix Name: doc_id_prefix** **TWB Name: documentation_id_prefix**

VARCHAR 3,3	CHARACTER 3	NOT NULL	NOT NULL	PASSED PARAMETER	PASSED FROM ITIS		ART BKS EXP SEC SRC
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Description An identifying character set preceding the documentation_id specifying the reference as a book, periodical, expert or other source.

Validation Rules

Table(s) TU_Reference_Links, Geographic_Reference_Links, Jurisdiction_Reference_Links, Vernaculars_Reference_Links, CT_Reference_Links

WB Table(s) WB_TU_Reference_Links, WB_Geographic_Reference_Links, WB_Jurisdiction_Reference_Links, WB_Vernaculars_Reference_Links, WB_CT_Reference_Links

Name: isbn **Informix Name: isbn** **TWB Name: isbn**

VARCHAR 35,0	TEXT 35	NULL	NULL	PASSED FROM TWB	USER ENTERED		
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Description International Standard Book Number - a unique numeric identifier for books; older publications and some foreign books do not have assigned ISBN numbers. The ISBN may identify a particular year or monograph in an ongoing serial or series.

Validation Rules

Table(s) Books

WB Table(s) WB_Books

Name: issn **Informix Name: issn** **TWB Name: issn**

VARCHAR 35,0	TEXT 35	NULL	NULL	PASSED FROM TWB	USER ENTERED		
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Description International Standard Serial Number - a unique numeric identifier for periodicals; older journals and some foreign publications do not have assigned ISSN numbers. The ISSN may identify an overall serial.

Validation Rules

Table(s) Periodicals, Series

WB Table(s) WB_Periodicals, WB_Series

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
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Name: listing_order	Informix Name: listing_order	TWB Name: listing_order
SMALLINT	INTEGER	NOT NULL WITH DEFAULT

Description An indication of positioning for authors or editors of a reference. Determines the position from the left in which a person or organization is cited in output.

Validation Rules

Table(s) Reference_Roles **WB Table(s)** WB_Reference_Roles

Name: medium	Informix Name: medium	TWB Name: medium
VARCHAR 35,5	TEXT 35	NOT NULL WITH DEFAULT

Validation Rules

Description The material, device or technique employed to communicate the information contained in a reference.

Validation Rules

Table(s) Books, Periodicals **WB Table(s)** WB_Books, WB_Periodicals

Name: medium_citation	Informix Name: medium_citation	TWB Name: medium_citation
TEXT	MEMO	NULL

Description For media, other than print, on which a source is stored, the appropriate Internet, telnets, CD-ROM, microfilm, etc. address or citation for the identified reference.

Validation Rules

Table(s) Books, Periodicals **WB Table(s)** WB_Books, WB_Periodicals

Name: month_actual	Informix Name: month_actual	TWB Name: month_actual
VARCHAR 20,0	TEXT 20	NULL

Due to the variation by which month is designated by individual publications, a standard storage value and therefore use of a choice list is not deemed advisable.

Description The true calendar month (one of the twelve generally accepted divisions of a year) in which a reference was published. This represents the verified date of the reference.

Validation Rules

Table(s) Articles, Books **WB Table(s)** WB_Articles, WB_Books

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
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Name: month_first		Informix Name: month_first			TWB Name: month_first		
VARCHAR 20,0	TEXT 20	NULL	NULL	PASSED FROM TWB	USER ENTERED		Due to the variation by which month is designated by individual publications, a standard storage value and therefore use of a choice list is not deemed advisable.

Description The calendar designation indicated as the initial month (one of the twelve generally accepted divisions of a year) for a series or other multiple part work. **Validation Rules**

Table(s) Series **WB Table(s)** WB_Series

Name: month_last		Informix Name: month_last			TWB Name: month_last		
VARCHAR 20,0	TEXT 20	NULL	NULL	PASSED FROM TWB	USER ENTERED		Due to the variation by which month is designated by individual publications, a standard storage value and therefore use of a choice list is not deemed advisable.

Description The calendar designation indicated as the last month (one of the twelve generally accepted divisions of a year) for a series or other multiple part work. **Validation Rules**

Table(s) Series **WB Table(s)** WB_Series

Name: month_listed		Informix Name: month_listed			TWB Name: month_listed		
VARCHAR 20,0	TEXT 20	NULL	NULL	PASSED FROM TWB	USER ENTERED		Due to the variation by which month is designated by individual publications, a standard storage value and therefore use of a choice list is not deemed advisable.

Description The month designation (one of the twelve generally accepted divisions of a year) printed or otherwise clearly identified for a reference. **Validation Rules**

Table(s) Articles, Books **WB Table(s)** WB_Articles, WB_Books

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: non_page_specific		Informix Name: non_page_specific			TWB Name: non_page_specific		
VARCHAR 255,0	TEXT 255	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	An identifier of location, such as a plate for information regarding a scientific name within a written reference if the specific page or page range cannot be specified.				Validation Rules	Case sensitivity of any designation in Roman numerals must be handled. For example, XI must be distinguishable from xi.	
Table(s)	Geographic_Reference_Links, Jurisdiction_Reference_Links, Vernaculars_Reference_Links, CT_Reference_Links			WB Table(s)	WB_Geographic_Reference_Links, WB_Jurisdiction_Reference_Links, WB_Vernaculars_Reference_Links, WB_CT_Reference_Links		
Name: original_desc_designation		Informix Name: orgnl_desc_dsgntn			TWB Name: original_desc_designation		
VARCHAR 255,0	TEXT 255	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	An identifier of location, such as a plate, of the original description for a taxon within a written reference if the specific page or page range cannot be specified.				Validation Rules	Case sensitivity of any designation in Roman numerals must be handled. For example, XI must be distinguishable from xi.	
Table(s)	TU_Reference_Links			WB Table(s)	WB_TU_Reference_Links		
Name: original_desc_ind		Informix Name: original_desc_ind			TWB Name: original_desc_ind		
VARCHAR 1,1	YES/NO 1	NOT NULL WITH DEFAULT	NULL	PASSED FROM TWB	CHOICE LIST	N	If selected, the indicator will be set to true. Y N - default
Description	Indicator used to identify the reference as being the original description of the taxon.				Validation Rules		
Table(s)	TU_Reference_Links			WB Table(s)	WB_TU_Reference_Links		
Name: original_desc_pages		Informix Name: original_desc_pgs			TWB Name: original_desc_pages		
VARCHAR 10,0	TEXT 10	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	The specific page or page range within the written reference for which the details of the original description for a taxon can be found.				Validation Rules	Case sensitivity of page references in Roman numerals must be handled. For example, XI must be distinguishable from xi.	
Table(s)	TU_Reference_Links			WB Table(s)	WB_TU_Reference_Links		

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: pages_in_book		Informix Name: pages_in_book		TWB Name: pages_in_book			
VARCHAR 100,0	TEXT 100	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	Page numbers within a book or book-like publication to which the specific citation refers. The pages may be sequential and identify a range or may indicate separations.				Validation Rules	Case sensitivity of page references in Roman numerals must be handled. For example, XI must be distinguishable from xi.	
Table(s)	Book_Sections			WB Table(s)	WB_Book_Sections		
Name: pages_in_periodical		Informix Name: pgs_in_periodical		TWB Name: pages_in_periodical			
VARCHAR 100,0	TEXT 100	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	Page numbers within a journal, periodical or similar publication to which the specific citation refers. The pages may be sequential and identify a range or may indicate separations.				Validation Rules	Case sensitivity of page references in Roman numerals must be handled. For example, XI must be distinguishable from xi.	
Table(s)	Articles			WB Table(s)	WB_Articles		
Name: pages_numbered_total		Informix Name: pgs_numbered_total		TWB Name: pages_numbered_total			
VARCHAR 60,0	TEXT 60	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	An indication of the complete number of pages having a numeric designation. This can include a distinction between those identified by Roman numerals and those identified by Arabic numerals.				Validation Rules		
Table(s)	Books			WB Table(s)	WB_Books		
Name: pages_specific		Informix Name: pages_specific		TWB Name: pages_specific			
VARCHAR 35,0	TEXT 35	NOT NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	Page numbers within a reference providing a precise citation of the subject name and associated data, other than the original description.				Validation Rules		
Table(s)	TU_Reference_Links, Geographic_Reference_Links, Jurisdiction_Reference_Links, Vernacular_Reference_Links, CT_Reference_Links			WB Table(s)	WB_TU_Reference_Links, WB_Geographic_Reference_Links, WB_Jurisdiction_Reference_Links, WB_Vernacular_Reference_Links, WB_CT_Reference_Links		

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
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Name: pages_unnumbered_total	Informix Name: pgs_unnumbrd_total	TWB Name: pages_unnumbered_total					
VARCHAR 60,0	TEXT 60	NULL	NULL	PASSED FROM TWB	USER ENTERED		

Description An indication of the number of pages in a reference with no numeric designation.

Validation Rules

Table(s) Books **WB Table(s)** WB_Books

Name: periodical_abbreviation	Informix Name: periodical_abbr	TWB Name: periodical_abbreviation					
VARCHAR 100,0	TEXT 100	NULL	NULL	PASSED FROM TWB	UPDATABLE CHOICE LIST		

Description A shortened version of the name or title of a journal or other periodical reference understood and used by the scientific community.

Validation Rules

Table(s) Periodicals **WB Table(s)** WB_Periodicals

Name: periodical_comment	Informix Name: periodical_comment	TWB Name: periodical_comment					
TEXT	MEMO	NULL	NULL	PASSED FROM TWB	USER ENTERED		

Description Remarks associated with a journal, periodical or similar reference.

Validation Rules

Table(s) Periodicals **WB Table(s)** WB_Periodicals

Name: periodical_id	Informix Name: periodical_id	TWB Name: periodical_id					
SERIAL	LONG_INTEGER	NOT NULL UNIQUE	NULL	SYSTEM GENERATED	PASSED FROM ITIS		

Description A unique identifier for a journal, periodical or similar publication.

Validation Rules

Table(s) Periodicals **WB Table(s)** WB_Periodicals

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: periodical_id_prefix		Informix Name: periodical_id_prfx		TWB Name: periodical_id_prefix			
VARCHAR 3,3	TEXT 3	NOT NULL WITH DEFAULT	NOT NULL WITH DEFAULT	SYSTEM GENERATED	PASSED FROM ITIS	PRD	PRD

Description A prefix used with a serial number that associates a specific record with the Periodicals table.

Validation Rules

Table(s) Periodicals

WB Table(s) WB_Periodicals

Name: periodical_issue		Informix Name: periodical_issue		TWB Name: periodical_issue			
VARCHAR 60,0	TEXT 60	NULL	NULL	PASSED FROM TWB	USER ENTERED		

Description A publishing notation that provides information regarding a journal, periodical or similar reference.

Validation Rules

Table(s) Articles

WB Table(s) WB_Articles

Name: periodical_name		Informix Name: periodical_name		TWB Name: periodical_name			
TEXT	MEMO	NOT NULL	NULL	PASSED FROM TWB	UPDATABLE CHOICE LIST		

Description The identifying title by which a journal, periodical or similar publication is known.

Validation Rules

Table(s) Periodicals

WB Table(s) WB_Periodicals

Name: periodical_name_abbr		Informix Name: periodical_nm_abbr		TWB Name: periodical_name_abbr			
VARCHAR 254,1	TEXT 254	NOT NULL UNIQUE	NULL	PASSED FROM TWB	SYSTEM GENERATED		

Description A duplicate of, or where necessary, a shortened version limited to 254 characters of, the name of the periodical. This version can be used for searching, choice lists or other application requirements.

Validation Rules

Table(s) Periodicals

WB Table(s) WB_Periodicals

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: periodical_series		Informix Name: periodical_series		TWB Name: periodical_series			
VARCHAR 20,0	TEXT 20	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	A designation in a citation of a succession of volumes or issues of a journal or other periodical reference related temporally, by subject, or other categorization.					Validation Rules	
Table(s)	Articles	WB Table(s)		WB_Articles			
Name: periodical_volume		Informix Name: periodical_volume		TWB Name: periodical_volume			
VARCHAR 20,0	TEXT 20	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	A designation regarding the series of issues for a journal or other periodical reference.					Validation Rules	
Table(s)	Articles	WB Table(s)		WB_Articles			
Name: publication_city		Informix Name: publication_city		TWB Name: publication_city			
VARCHAR 75,0	TEXT 75	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	Town or municipality identified as the location of the publisher of a reference.					Validation Rules	
Table(s)	Books, Periodicals	WB Table(s)		WB_Books, WB_Periodicals			
Name: publication_country		Informix Name: publication_cntry		TWB Name: publication_country			
VARCHAR 75,0	TEXT 75	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	Nation identified as the location of the publisher of a reference.					Validation Rules	
Table(s)	Books, Periodicals	WB Table(s)		WB_Books, WB_Periodicals			

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: publication_detail_id		Informix Name: pub_detail_id		TWB Name: publication_detail_id			
SERIAL	LONG_INTEGER	NOT NULL UNIQUE	NULL	SYSTEM GENERATED	PASSED FROM ITIS		
Description	A unique identifier for a specific entry of significance in a book, section of a book, or section of a periodical.				Validation Rules		
Table(s)	Publication_Details	WB Table(s)			WB_Publication_Details		
Name: publication_state		Informix Name: publication_state		TWB Name: publication_state			
VARCHAR 75,0	TEXT 75	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	Intermediate geo-political unit between city and country identified as the location of the publisher of a reference.				Validation Rules		
Table(s)	Books, Periodicals	WB Table(s)			WB_Books, WB_Periodicals		
Name: published_status		Informix Name: published_status		TWB Name: published_status			
VARCHAR 35,8	TEXT 35	NOT NULL WITH DEFAULT	NULL	PASSED FROM TWB	CHOICE LIST	Published	Published Unpublished Manuscript In press Submitted
Description	An indication of the state of public circulation of a book or book like reference.				Validation Rules		
Table(s)	Books	WB Table(s)			WB_Books	If original_desc_ind is set to Y, then the only option allowed is Published.	
Name: ref_organization_comment		Informix Name: ref_org_comment		TWB Name: ref_organization_comment			
TEXT	MEMO	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	Supplemental information regarding a group, society, corporation, or similar entity that has been identified as participating in the creation or production of a written reference.				Validation Rules		
Table(s)	Reference_Organizations	WB Table(s)			WB_Reference_Organizations		

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: ref_organization_id		Informix Name: ref_org_id		TWB Name: ref_organization_id			
SERIAL	LONG_INTEGER	NOT NULL UNIQUE	NULL	SYSTEM GENERATED	PASSED FROM ITIS		
Description A system generated unique identifier for an entity associated with a reference that is not a person.				Validation Rules			
Table(s) Reference_Organizations				WB Table(s) WB_Reference_Organizations			
Name: ref_organization_id_prefix		Informix Name: ref_org_prefix		TWB Name: ref_organization_id_prefix			
VARCHAR 3,3	TEXT 3	NOT NULL WITH DEFAULT	NOT NULL WITH DEFAULT	SYSTEM GENERATED	PASSED FROM ITIS	RFO	RFO
Description A prefix used with a serial number that associated a specific record with the Reference_Organizations table.				Validation Rules			
Table(s) Reference_Organizations				WB Table(s) WB_Reference_Organizations			
Name: ref_organization_name		Informix Name: ref_org_name		TWB Name: ref_organization_name			
VARCHAR 255,0	TEXT 255	NOT NULL	NULL	PASSED FROM TWB	UPDATABLE CHOICE LIST		
Description The identifying title by which a group, corporation or like entity responsible for the creation, issuance, or production of a reference is known.				Validation Rules			
Table(s) Reference_Organizations				WB Table(s) WB_Reference_Organizations			
Name: ref_person_comment		Informix Name: ref_person_comment		TWB Name: ref_person_comment			
TEXT	MEMO	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description Supplemental information regarding a participant in the creation or production of a written reference.				Validation Rules			
Table(s) Reference_People				WB Table(s) WB_Reference_People			

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: ref_person_first		Informix Name: ref_person_first		TWB Name: ref_person_first			
VARCHAR 50,0	TEXT 50	NOT NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	The given name or first initial of an individual who participated in the creation or production of a written reference.				Validation Rules		
Table(s)	Reference_People	WB Table(s)		WB_Reference_People			
Name: ref_person_middle		Informix Name: ref_person_middle		TWB Name: ref_person_middle			
VARCHAR 50,0	TEXT 50	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	Name(s) or initial(s) that occur between the first name and surname of an individual who participated in the creation or production of a written reference.				Validation Rules		
Table(s)	Reference_People	WB Table(s)		WB_Reference_People			
Name: ref_person_suffix		Informix Name: ref_person_suffix		TWB Name: ref_person_suffix			
VARCHAR 10,0	TEXT 10	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	Designations of rank within a family, such as Jr., and similar type designations following the surname of an individual participating in the creation or production of a written reference.				Validation Rules		
Table(s)	Reference_People	WB Table(s)		WB_Reference_People			
Name: ref_person_surname		Informix Name: ref_person_surname		TWB Name: ref_person_surname			
VARCHAR 100,0	TEXT 100	NOT NULL	NULL	PASSED FROM TWB	UPDATABLE CHOICE LIST		
Description	The family name of an individual who participated in the creation or production of a written reference.				Validation Rules		
Table(s)	Reference_People	WB Table(s)		WB_Reference_People			

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
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Name: reference_entity_id		Informix Name: ref_entity_id		TWB Name: reference_entity_id			
INTEGER	LONG_INTEGER	NOT NULL	NULL	PASSED PARAMETER	PASSED FROM ITIS		

Description The unique identifier created for either the Reference_People table or the Reference_Organizations table being used to establish a link between a participant in the production of a publication and the publication itself.

Validation Rules

Table(s) Reference_Roles **WB Table(s)** WB_Reference_Roles

Name: reference_entity_id_prefix		Informix Name: ref_entity_prefix		TWB Name: reference_entity_id_prefix			
VARCHAR 3,3	TEXT 3	NOT NULL	NOT NULL	PASSED PARAMETER	PASSED FROM ITIS	RFP	RFO

Description An identifying prefix to the reference_entity_id that designates the individual or organization participating in the creation or issuance of a reference.

Validation Rules

Table(s) Reference_Roles **WB Table(s)** WB_Reference_Roles

Name: reference_person_id		Informix Name: ref_person_id		TWB Name: reference_person_id			
SERIAL	LONG_INTEGER	NOT NULL UNIQUE	NULL	SYSTEM GENERATED	PASSED FROM ITIS		

Description A system generated unique identifier for a human associated with the creation or production of a reference.

Validation Rules

Table(s) Reference_People **WB Table(s)** WB_Reference_People

Name: reference_person_id_prefix		Informix Name: ref_person_prefix		TWB Name: reference_person_id_prefix			
VARCHAR 3,3	TEXT 3	NOT NULL WITH DEFAULT	NOT NULL WITH DEFAULT	SYSTEM GENERATED	PASSED FROM ITIS	RFP	RFP

Description An prefix used with a serial number that associates a specific record the Reference_People table.

Validation Rules

Table(s) Reference_People **WB Table(s)** WB_Reference_People

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: reference_role		Informix Name: reference_role			TWB Name: reference_role		
VARCHAR 35,6	TEXT 35	NOT NULL	NOT NULL	PASSED FROM TWB	CHOICE LIST		Author Compiler Contributor Editor Publisher Translator
Description	A descriptive word identifying the function an individual or entity performed in the creation or production of a written reference.				Validation Rules		
Table(s)	Reference_Roles	WB Table(s)			WB_Reference_Roles		
Name: section_comment		Informix Name: section_comment			TWB Name: section_comment		
TEXT	MEMO	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	Remarks or additional descriptive information pertinent to a part of a book or book-like reference.				Validation Rules		
Table(s)	Book_Sections	WB Table(s)			WB_Book_Sections		
Name: section_date_other		Informix Name: section_date_other			TWB Name: section_date_other		
VARCHAR 255,0	TEXT 255	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	A time assignment from other than the Gregorian calendar applicable to a part of a book or book-like reference.				Validation Rules		
Table(s)	Book_Sections	WB Table(s)			WB_Book_Sections		
Name: section_date_other_type		Informix Name: sect_dt_otrh_type			TWB Name: section_date_other_type		
VARCHAR 60,0	TEXT 60	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	A designation of the calendar system, other than the Gregorian calendar on which the entry in section_date_other is based.				Validation Rules		
Table(s)	Book_Sections	WB Table(s)			WB_Book_Sections		

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
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Name: section_day		Informix Name: section_day			TWB Name: section_day		
VARCHAR 2,0	TEXT 2	NULL	NULL	PASSED FROM TWB	USER ENTERED		

Description Reference to one of the 31 possible calendar divisions within a month that has significance in the citation of a part of a book or book-like reference.

Validation Rules If section_month and section_year are populated, verify that the date can occur within the month and year identified.

Table(s) Book_Sections **WB Table(s)** WB_Book_Sections

Name: section_designation		Informix Name: section_dsgntn			TWB Name: section_designation		
VARCHAR 100,0	TEXT 100	NULL	NULL	PASSED FROM TWB	USER ENTERED		

Description Specific label or title for a part of a book or book-like reference. Examples: Chapter 10, Appendix C

Validation Rules

Table(s) Book_Sections **WB Table(s)** WB_Book_Sections

Name: section_month		Informix Name: section_month			TWB Name: section_month		
VARCHAR 20,0	TEXT 20	NULL	NULL	PASSED FROM TWB	USER ENTERED		Due to the variation by which month is designated by individual references, a standard storage value and therefore use of a choice list, is not deemed advisable.

Description Reference to one of the twelve generally accepted divisions of the year that has significance in the citation of a part of a book or book-like reference.

Validation Rules

Table(s) Book_Sections **WB Table(s)** WB_Book_Sections

Name: section_supp_descriptor		Informix Name: section_supp_desc			TWB Name: section_supp_descriptor		
VARCHAR 255,0	TEXT 255	NULL	NULL	PASSED FROM TWB	USER ENTERED		

Description Supplemental information regarding a section of a book or book-like publication that is pertinent to the citation but is not a standard data element.

Validation Rules

Table(s) Book_Sections **WB Table(s)** WB_Book_Sections

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
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Name: section_title	Informix Name: section_title	TWB Name: section_title
TEXT	MEMO	
	NULL	NULL
	PASSED FROM TWB	USER ENTERED

Description A descriptive label given a distinct part of a book or book-like reference. Example: Long-term Monitoring of Biological Diversity

Validation Rules

Table(s)	WB Table(s)
Book_Sections	WB_Book_Sections

Name: section_title_abbrev	Informix Name: section_title_abbrev	TWB Name: section_title_abbrev
VARCHAR 254,1	TEXT 254	
NOT NULL	NULL	
UNIQUE	PASSED FROM TWB	SYSTEM GENERATED

Description A duplicate of, or where necessary, a shortened version limited to 254 characters of, the section title that can be used for searching, choice lists or other application requirements.

Validation Rules

Table(s)	WB Table(s)
Book Sections	WB_Book Sections

Name: section_type	Informix Name: section_type	TWB Name: section_type
VARCHAR 50,15	TEXT 50	
NOT NULL	NULL	
	PASSED FROM TWB	UPDATABLE CHOICE LIST
		Appendix Chapter Supplement

Description A categorization of the particular part of a book or book-like reference being cited.

Validation Rules

Table(s)	WB Table(s)
Book_Sections	WB_Book Sections

Name: section_year	Informix Name: section_year	TWB Name: section_year
VARCHAR 4,0	TEXT 4	
NULL	NULL	
	PASSED FROM TWB	USER ENTERED

Description Reference to a specific annual calendar period that has significance in the citation of a division or part of a book or book-like reference.

Validation Rules

Table(s)	WB Table(s)
Book_Sections	WB_Book_Sections

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
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Name: series_comment		Informix Name: series_comment			TWB Name: series_comment		
TEXT	MEMO	NULL	NULL	PASSED FROM TWB	USER ENTERED		

Description Remarks or additional descriptive information pertinent to a multi-volume set of book or book-like written references.

Validation Rules

Table(s) Series ----- WB Table(s) WB_Series -----

Name: series_date_other		Informix Name: series_date_other			TWB Name: series_date_other		
VARCHAR 255,0	TEXT 255	NULL	NULL	PASSED FROM TWB	USER ENTERED		

Description A time assignment from other than the Gregorian calendar applicable to a multi-volume set of books or book-like references.

Validation Rules

Table(s) Series ----- WB Table(s) WB_Series -----

Name: series_date_other_type		Informix Name: series_dt_othr_typ			TWB Name: series_date_other_type		
VARCHAR 60,0	TEXT 60	NULL	NULL	PASSED FROM TWB	USER ENTERED		

Description A designation of the calendar system, other than the Gregorian calendar on which the entry in series_date_other is based.

Validation Rules

Table(s) Series ----- WB Table(s) WB_Series -----

Name: series_id		Informix Name: series_id			TWB Name: series_id		
SERIAL	LONG_INTEGER	NOT NULL UNIQUE	NULL	SYSTEM GENERATED	PASSED FROM ITIS		

Description A unique identifier for a multi-volume set of books or book-like publications.

Validation Rules

Table(s) Series ----- WB Table(s) WB_Series -----

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: series_id_prefix		Informix Name: series_id_prefix			TWB Name: series_id_prefix		
VARCHAR 3,3	TEXT 3	NOT NULL WITH DEFAULT	NOT NULL WITH DEFAULT	SYSTEM GENERATED	PASSED FROM ITIS	SER	SER
Description A prefix used with a serial number that associates a specific record with the Series table.					Validation Rules		
Table(s) Series				WB Table(s) WB_Series, WB_Books			
Name: series_title		Informix Name: series_title			TWB Name: series_title		
TEXT	MEMO	NOT NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description The name or descriptive label associated with a multi-volume set of book or book-like references.					Validation Rules		
Table(s) Series				WB Table(s) WB_Series			
Name: series_title_abbr		Informix Name: series_title_abbr			TWB Name: series_title_abbr		
VARCHAR 254,1	TEXT 254	NOT NULL UNIQUE	NULL	PASSED FROM TWB	SYSTEM GENERATED		
Description A duplicate of, or where necessary, a shortened version limited to 254 characters of, the series title that can be used for searching, choice lists or other application requirements.					Validation Rules		
Table(s) Series				WB Table(s) WB_Series			
Name: series_type		Informix Name: series_type			TWB Name: series_type		
VARCHAR 20,0	TEXT 20	NULL	NULL	PASSED FROM TWB	UPDATABLE CHOICE LIST		Botanical Geological Zoological
Description An indication of the predominant discipline addressed by the reference.					Validation Rules		
Table(s) Series				WB Table(s) WB_Series			

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: total_volumes		Informix Name: total_volumes			TWB Name: total_volumes		
SMALLINT 3,0	INTEGER	NOT NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description A count of all books or book-like references included in a multi-volume set.					Validation Rules		
Table(s) Series				WB Table(s) WB_Series			
Name: translation_from		Informix Name: translation_from			TWB Name: translation_from		
VARCHAR 50,0	TEXT 50	NULL	NULL	PASSED FROM TWB	UPDATABLE CHOICE LIST		
Description The identification of the language in which a reference was originally written.					Validation Rules		
Table(s) Books, Periodicals				WB Table(s) WB_Books, WB_Periodicals			
Name: transliterated_flag		Informix Name: transliterated_flg			TWB Name: transliterated_flag		
VARCHAR 1,1	YES/NO 1	NOT NULL WITH DEFAULT	NOT NULL	PASSED FROM TWB	CHOICE LIST	N	Y N - default
Description An indicator to identify the representation of a name or title as being in an alphabet other than its original.					Validation Rules		
Table(s) Books, Periodicals, Reference_People, Reference_Organizations				WB Table(s) WB_Books, WB_Periodicals, WB_Reference_People, WB_Reference_Organizations			
Name: wb_article_id		Informix Name:			TWB Name: wb_article_id		
	AUTONUMBER		NOT NULL UNIQUE		SYSTEM GENERATED		
Description A unique identifier within the context of the Taxonomic Workbench for a portion of a journal, periodical or similar publication.					Validation Rules		
Table(s)				WB Table(s) WB_Articles			

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: wb_book_id		Informix Name:		TWB Name: wb_book_id			
	AUTONUMBER		NOT NULL UNIQUE		SYSTEM GENERATED		
Description	A unique identifier within the context of the Taxonomic Workbench for a book or book-like publication.				Validation Rules		
Table(s)	WB Table(s) WB_Books, WB_Book_Sections						
Name: wb_book_section_id		Informix Name:		TWB Name: wb_book_section_id			
	AUTONUMBER		NOT NULL UNIQUE		SYSTEM GENERATED		
Description	A unique identifier within the context of the Taxonomic Workbench for a part of a book or book-like reference.				Validation Rules		
Table(s)	WB Table(s) WB_Book_Sections						
Name: wb_citation_id		Informix Name:		TWB Name: wb_citation_id			
	LONG_INTEGER		NOT NULL		PASSED PARAMETER		
Description	The serial portion of the identifier within the context of the Taxonomic Workbench created for one of the following: the WB_Series table, the WB_Books table, the WB_Book_Sections table, the WB_Periodicals table, or the WB_Articles table.				Validation Rules		
Table(s)	WB Table(s) WB_Publication_Details, WB_Reference_Roles						

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
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Name: wb_documentation_id			Informix Name:			TWB Name: wb_documentation_id	
	LONG_INTEGER		NOT NULL		PASSED PARAMETER		

Description The serial portion of the identifier passed from one of the following: the WB_Books table, the WB_Book_Sections table, the WB_Articles table, the WB_Experts table or the WB_Other_Sources table and used with the respective documentation_id_prefix to provide a reference link for an instance of the WB_Taxonomic_Units table, the WB_Vernaculars table, the WB_Change_Tracks table, the WB_Geographic_Division table, or the WB_Jurisdiction table.

Validation Rules

Table(s)

WB Table(s) WB_TU_Reference_Links, WB_Geographic_Reference_Links, WB_Jurisdiction_Reference_Links, WB_Vernaculars_Reference_Links, WB_CT_Reference_Links

Name: wb_periodical_id			Informix Name:			TWB Name: wb_periodical_id	
	AUTONUMBER		NOT NULL UNIQUE		SYSTEM GENERATED		

Description A unique identifier within the context of the Taxonomic Workbench for a journal, periodical or similar publication.

Validation Rules

Table(s)

WB Table(s) WB_Periodicals, WB_Articles

Name: wb_publication_detail_id			Informix Name:			TWB Name: wb_publication_detail_id	
	AUTONUMBER		NOT NULL UNIQUE		SYSTEM GENERATED		

Description A unique identifier within the context of the Taxonomic Workbench for a specific entry of significance in a book, section of a book, or section of a periodical.

Validation Rules

Table(s)

WB Table(s) WB_Publications_Details

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: wb_ref_organization_id		Informix Name:		TWB Name: wb_ref_organization_id			
	AUTONUMBER		NOT NULL UNIQUE		SYSTEM GENERATED		
Description	A unique identifier within the context of the Taxonomic Workbench for an entity associated with a reference that is not a person.				Validation Rules		
Table(s)	WB Table(s) WB_Reference_Organizations						
Name: wb_reference_entity_id		Informix Name:		TWB Name: wb_reference_entity_id			
	INTEGER		NOT NULL		PASSED PARAMETER		
Description	The serial portion of the identifier within the context of the Taxonomic Workbench created for the WB_Reference_People table or the WB_Reference_Organizations table.				Validation Rules		
Table(s)	WB Table(s) WB_Reference_Roles						
Name: wb_reference_person_id		Informix Name:		TWB Name: wb_reference_person_id			
	AUTONUMBER		NOT NULL UNIQUE		SYSTEM GENERATED		
Description	A unique identifier within the context of the Taxonomic Workbench for a human associated with the creation or production of a reference.				Validation Rules		
Table(s)	WB Table(s) WB_Reference_People						
Name: wb_series_id		Informix Name:		TWB Name: wb_series_id			
	AUTONUMBER		NOT NULL UNIQUE		SYSTEM GENERATED		
Description	A unique identifier within the context of the Taxonomic Workbench for a multi-volume set of books or book like publications.				Validation Rules		
Table(s)	WB Table(s) WB_Series						

Informix Data Type & Qualifiers	Access Data Type & Qualifiers	Default Nullity Online	Default Nullity TWB	Data Source Online	Data Source TWB	Default Value	Values List
Name: year_actual		Informix Name: year_actual		TWB Name: year_actual			
VARCHAR 4,0	TEXT 4	NOT NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	The true calendar period in which a written reference was published. It may or may not correspond with a publication's listed year. This represents the verified date of the reference.				Validation Rules		
Table(s)	Articles, Books			WB Table(s) WB_Articles, WB_Books			
Name: year_first		Informix Name: year_first		TWB Name: year_first			
VARCHAR 4,0	TEXT 4	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	For a multiple volume set of books or book like references, the calendar period in which the series commenced.				Validation Rules		
Table(s)	Series			WB Table(s) WB_Series			
Name: year_last		Informix Name: year_last		TWB Name: year_last			
VARCHAR 4,0	TEXT 4	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	For a multiple volume set of books or book like references, the calendar period through which the series ran.				Validation Rules		
Table(s)	Series			WB Table(s) WB_Series			
Name: year_listed		Informix Name: year_listed		TWB Name: year_listed			
VARCHAR 4,0	TEXT 4	NULL	NULL	PASSED FROM TWB	USER ENTERED		
Description	The calendar period printed or otherwise clearly identified for a reference.				Validation Rules		
Table(s)	Articles, Books			WB Table(s) WB_Articles, WB_Books			