

# Species-Environment Relations Database

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[Identification Information](#)

[Data Quality Information](#)

[Spatial Data Organization Information](#)

[Spatial Reference Information](#)

[Entity and Attribute Information](#)

[Distribution Information](#)

[Metadata Reference Information](#)

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## Identification Information

[Section Index](#)

### Citation:

#### Citation Information:

**Originator:** Interior Columbia Basin Ecosystem Management Project

**Publication Date:** 10/31/1997

**Title:** Species-Environment Relations Database

**Other Citation Details:** /emp/crbdb/crb/species/bdbser.exe

**Online Linkage:** <http://www.icbemp.gov/spatial/species/>

### Description:

**Abstract:** Species-Environment Relations (SER) Databases - Plants, Inverts, Verts, CRBstats and Qspec

#### Purpose:

The SER databases (1 each for plants, invertebrates, and vertebrates) describe basic ecology and species-environment relations of species or groups of rare fungi, lichens, bryophytes, and vascular plants; selected invertebrates; and nearly all vertebrates in the Interior CRB.

#### Supplemental Information:

Theme ID: 792

Theme Group: SPECIES

Theme Abbreviation: SPCSER

Data dictionaries are included as auxiliary metadata for all five databases. Five keypunch errors to Vegtype field in table "habtbl" were corrected 02/97.

### Time Period of Content:

#### Time Period Information:

##### Single Date/Time:

**Calendar Date:** 9/30/1997

**Currentness Reference:** Publication Date

### Status:

**Progress:** Complete

## Keywords:

### Theme:

**Theme Keyword Thesaurus:** None  
**Theme Keyword:** Environment  
**Theme Keyword:** Vertebrates  
**Theme Keyword:** Species  
**Theme Keyword:** Habitat  
**Theme Keyword:** Invertebrates  
**Theme Keyword:** Plants  
**Theme Keyword:** Interior Columbia Basin Ecosystem Management Project  
**Theme Keyword:** ICBEMP

**Access Constraints:** NONE

### Use Constraints:

These data were intended for use at the broad-scale, generally the regional, subbasin (4th field HUC), or possibly the subwatershed (6th field HUC) level. The individual listed as Contact Person can answer questions concerning appropriate use of data.

### Point of Contact:

#### Contact Information:

##### Contact Person Primary:

**Contact Person:** Barbara Wales  
**Contact Organization:** ICBEMP / USDA Forest Service

**Contact Position:** Wildlife Biologist

##### Contact Address:

**Address Type:** Mailing & Physical Address  
**Address:** Forestry and Range Sciences Lab, 1401 Gekeler Lane  
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**Hours of Service:** 8:30 - 5:00

**Native Data Set Environment:** Computer Operating System: PC/PARADOX, Filename: /emp/crbddb/crb/species/bdbser.exe, Native File Size: 22.48 Mb, Export File Size: 22.48 Mb

### Cross Reference:

#### Citation Information:

**Title:** AuxMet -- ser\_aux.pdf  
**Other Citation Details:** S:\Rel\_work\Aux\_Pdf\ser\_aux.pdf  
**Online Linkage:** <http://www.icbemp.gov/spatial/crbsum/>

## Data Quality Information

### [Section Index](#)

### Attribute Accuracy:

#### Attribute Accuracy Report:

The attributes in this dataset are derived from modeling or analytical processes. The accuracy of the attributes are dependent on the accuracy of the source materials as well as

the margin of error inherent in the modeling or analytical processes.

**Completeness Report:**

The SER databases (1 each for plants, invertebrates, and vertebrates) describe basic ecology and species-environment relations of species or groups of rare fungi, lichens, bryophytes, and vascular plants; selected invertebrates; and nearly all vertebrates in the Interior CRB. The information was derived from consultation with expert panels and contract reports from leading species experts. See the Terrestrial Ecology Chapter (Marcot & others) of the Assessment of Ecosystem Components in the Interior Columbia Basin and Portions of the Klamath and Great Basins (Quigley and others 1997). SER includes vegetation cover type and structural stage habitat relationships, key environmental correlates (KEC), and key ecological functions (KEF) for each species or species group. Data are related by record number (RECNO) or species name code (SPPCODE). Two additional SER databases (QSPEC & CRBSTATS) give information related by SPPCODE, such as level of endemism; federal, state, and agency status; and breeding status. The SER database was compiled to answer very broad-scale questions about geographic patterns and environment relations in the Interior CRB. Digital documents provided with the data tell how to install SER and give important cautions and caveats in the use of these data related to issues such as completeness, resolution, confidence in the data, lack of field studies for most species, and the need for testing.

**Lineage:****Process Step:****Process Description:**

Capture Method: Information for plants, vertebrates, and invertebrates are from expert panels and contract reports from leading species experts. For CRBSTATS, from literature and expert reviews. For QSPEC, from USF&W, state, BLM, & USFS lists. Database developed in Paradox 4.5 for DOS.

Version 1.0 was documented and released on a limited basis. Version 1.01 resulted from adding 8 species to the vertebrates database and correcting some of the species habitat information.

**Process Date:** 9/30/97

**Process Time:** 00:00:00

**Process Contact:****Contact Information:****Contact Person Primary:**

**Contact Person:** Kevin Gutierrez

**Contact Organization:** Bureau of Land Management

**Contact Address:**

**Address Type:** Mailing & Physical Address

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## Spatial Data Organization Information

[Section Index](#)

## Spatial Reference Information

### [Section Index](#)

#### Horizontal Coordinate System Definition:

##### Planar:

##### Map Projection:

**Map Projection Name:** Albers Conical Equal Area

**Albers Conical Equal Area:**

**Standard Parallel:** 43

**Standard Parallel:** 48

**Longitude of Central Meridian:** -117

**Latitude of Projection Origin:** 41

**False Easting:** 700000

**False Northing:** 0

##### Planar Coordinate Information:

**Planar Coordinate Encoding Method:** Coordinate Pair

**Planar Distance Units:** meters

##### Geodetic Model:

**Horizontal Datum Name:** North American Datum of 1927

**Ellipsoid Name:** Clarke 1866

**Semi-major Axis:** 6378206

**Denominator of Flattening Ratio:** 294.9786982

## Entity and Attribute Information

### [Section Index](#)

#### Detailed Description:

##### Entity Type:

**Entity Type Label:** Species-Environment Relations Database (Table Name = CRBSTATS)

**Entity Type Definition:** Entire list of all vertebrates within the Interior Columbia River Basin and some associated statistics of each species.

##### Attribute:

**Attribute Label:** ABUN

##### Attribute Definition:

Description = Species abundance

Width = 3

Attribute Type = C

##### Attribute Domain Values:

##### Enumerated Domain:

**Enumerated Domain Value:** I

##### Enumerated Domain Value Definition:

Irregular - Usually seen in low numbers and not seen every year. An example would be the Pacific Loon which is seen in some years in low numbers along the Columbia river in Oregon. Another example is the

Snowy Owl which is uncommon in the northwest when winters are hard farther north but completely absent in most years.

**Enumerated Domain Value: R**

**Enumerated Domain Value Definition:**

Rare - Seen every year in very low numbers. The Pacific Loon for example is rare in Washington. There are usually less than ten sightings each year. While the Pacific loon is out of its normal range when sighted inland other species can be rare within their breeding range. For example the black-backed woodpecker is a year round resident of Montana, It breeds there but it is at the edge of its range and is rarely seen because the populations are small.

**Enumerated Domain Value: U**

**Enumerated Domain Value Definition:**

Uncommon - It is unlikely that you would see birds in this category unless you knew exactly when and where to look. Even then there is no guarantee. Their populations are larger than that of rare birds but still not always seen when expected.

**Enumerated Domain Value: C**

**Enumerated Domain Value Definition:** Common - Within the right habitat and season you could expect to see a bird in this category every time you went looking.

**Enumerated Domain Value: A**

**Enumerated Domain Value Definition:** Abundant - Within the right habitat and season birds in this category would seem to be everywhere.

**Attribute:**

**Attribute Label:** BRSTS

**Attribute Definition:**

Description = Breeding status

Width = 3

Attribute Type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value: R**

**Enumerated Domain Value Definition:** Resident - A bird species that breeds in the State and can be seen there all year round.

**Enumerated Domain Value: B**

**Enumerated Domain Value Definition:** Breeding - A species that breeds in the state but winters elsewhere

**Enumerated Domain Value: N**

**Enumerated Domain Value Definition:**

Non-breeding summer resident - This is an unusual situation. Only a few birds in the northwest fall within this category. One example is the Blue Jay which does not breed anywhere in the northwest but a quite a few hang around all summer in northwestern Wyoming.

**Enumerated Domain Value: W**

**Enumerated Domain Value Definition:** Wintering - Bird species that spend the winter and breed elsewhere.

**Enumerated Domain Value: M**

**Enumerated Domain Value Definition:** Migrants - Bird species present only in the spring and fall as they fly between wintering and breeding areas.

**Attribute:**

**Attribute Label:** CLASS

**Attribute Definition:**

Description = Taxonomic Class

Width = 2

Attribute Type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** A

**Enumerated Domain Value Definition:** Amphibian

**Enumerated Domain Value:** B

**Enumerated Domain Value Definition:** Bird

**Enumerated Domain Value:** M

**Enumerated Domain Value Definition:** Mammal

**Enumerated Domain Value:** R

**Enumerated Domain Value Definition:** Reptile

**Attribute:**

**Attribute Label:** COMMON\_NAM

**Attribute Definition:**

Description = Common species name

Width = 42

Attribute Type = C

**Attribute:**

**Attribute Label:** ENDEMISM

**Attribute Definition:**

Description = Endemism

Width = 2

Attribute Type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** LE

**Enumerated Domain Value Definition:**

Locally Endemic - Populations are restricted to a very small area (ie., one portion of a mountain range, one canyon, etc.) These taxa may also be restricted to highly specialized habitats. The range may lie entirely within, or on the CRB Assessment Area boundary.

**Enumerated Domain Value:** RE

**Enumerated Domain Value Definition:**

Regionally Endemic - Populations inhabit a larger geographic area than that of the local endemics (i.e., southeast Oregon, the Palouse etc.) These species may also be closely associated with certain habitats, and their range may lie entirely within, or on the CRB Assessment Area boundary.

**Enumerated Domain Value:** PE

**Enumerated Domain Value Definition:**

Peripheral - Populations lie on the margins of the CRB Assessment Area boundary or in the case of some bird species completely outside of the CRB. Birds such as the Pacific loon are casual visitors away from the normal species range.

**Enumerated Domain Value:** DI

**Enumerated Domain Value Definition:** Disjunct - Populations in the CRB Assessment Area are substantially separated geographically from the

remainder of the species range.

**Enumerated Domain Value:** SC

**Enumerated Domain Value Definition:** Scattered - Populations are sparsely distributed within the CRB Assessment Area. In the case of birds this might indicate specialized habitats for wintering, migrating or breeding.

**Enumerated Domain Value:** CO

**Enumerated Domain Value Definition:**

Common - Not to be confused with the abundance "common", this refers to populations. Populations can be common but not have a large number of individuals. For example, mountain lion populations are probably common within the northwest. However, each population has a relatively small number of individuals. In contrast some species such as the spotted frog in eastern Oregon may have just a few scattered populations with many individuals in each population. The spotted frog would go into the scattered category.

**Attribute:**

**Attribute Label:** FAMILY

**Attribute Definition:**

Description = Taxonomic Family

Width = 18

Attribute Type = C

**Attribute:**

**Attribute Label:** ID

**Attribute Definition:**

Description = Two letter code listed for each species of bird in Idaho, a combination of the breeding status (first letter) and abundance (second letter). See BRSTS and ABUN for definition of values.

Width = 3

Attribute Type = C

**Attribute:**

**Attribute Label:** MT

**Attribute Definition:**

Description = Two letter code listed for each species of bird in Montana, a combination of the breeding status (first letter) and abundance (second letter). See BRSTS and ABUN for definition of values.

Width = 3

Attribute Type = C

**Attribute:**

**Attribute Label:** NEO

**Attribute Definition:**

Description = Neotropical Migrant Status

Width = 2

Attribute Type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** A

**Enumerated Domain Value Definition:** long-distance migrant (south of the United States)

**Enumerated Domain Value:** B

**Enumerated Domain Value Definition:** short-distance migrant

**Attribute:**

**Attribute Label:** NV\_UT**Attribute Definition:**

Description = Two letter code listed for each species of bird in Nevada and Utah, a combination of the breeding status (first letter) and abundance (second letter). See BRSTS and ABUN for definition of values.

Width = 3

Attribute Type = C

**Attribute:****Attribute Label:** OR**Attribute Definition:**

Description = Two letter code listed for each species of bird in Oregon, a combination of the breeding status (first letter) and abundance (second letter). See BRSTS and ABUN for definition of values.

Width = 3

Attribute Type = C

**Attribute:****Attribute Label:** SCIENTIFIC**Attribute Definition:**

Description = Scientific species name

Width = 47

Attribute Type = C

**Attribute:****Attribute Label:** TAX**Attribute Definition:**

Description = Number to put species in taxonomic order

Width = 3

Attribute Type = C

**Attribute Domain Values:****Range Domain:**

**Range Domain Minimum:** 1

**Range Domain Maximum:** 96

**Attribute:****Attribute Label:** WA**Attribute Definition:**

Description = Two letter code listed for each species of bird in Washington, a combination of the breeding status (first letter) and abundance (second letter). See BRSTS and ABUN for definition of values.

Width = 3

Attribute Type = C

**Attribute:****Attribute Label:** WY**Attribute Definition:**

Description = Two letter code listed for each species of bird in Wyoming, a combination of the breeding status (first letter) and abundance (second letter). See BRSTS and ABUN for definition of values.

Width = 3

Attribute Type = C

**Attribute:****Attribute Label:** XXRANGE**Attribute Definition:**

Description = Percent of species range within Columbia river basin



Width = 2

Attribute Type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value: A**

**Enumerated Domain Value Definition:** Nearly all (80-99%) of the overall species range occurs outside CRB

**Enumerated Domain Value: B**

**Enumerated Domain Value Definition:** More than half, but not nearly all (60-79%) occurs outside CRB

**Enumerated Domain Value: C**

**Enumerated Domain Value Definition:** About half (40-59%) occurs outside CRB

**Enumerated Domain Value: D**

**Enumerated Domain Value Definition:** Less than half, but not only a very small portion (20-39%) occurs outside CRB

**Enumerated Domain Value: E**

**Enumerated Domain Value Definition:** Only a very small portion (0-19%) occurs outside CRB

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = C-CLASS)

**Entity Type Definition:**

Environmental Correlate classification table.

See APPENDIX 1 of SER\_AUX.PDF for "Classification of Key Environmental Correlates" for a description of the Classification numbers (C1, C2, C3, C4)

**Attribute:**

**Attribute Label:** C1

**Attribute Definition:**

Description = First classification number

Width = 2

Attribute Type = N

Range = 1 - 10

**Attribute:**

**Attribute Label:** C2

**Attribute Definition:**

Description = Second classification number

Width = 2

Attribute Type = N

Range = 1 - 22

**Attribute:**

**Attribute Label:** C3

**Attribute Definition:**

Description = Third classification number

Width = 2

Attribute Type = N

Range = 1 - 18

**Attribute:**

**Attribute Label:** C4

**Attribute Definition:**

Description = Forth classification number

Width = 2  
Attribute Type = N  
Range = 1 - 13

**Attribute:**

**Attribute Label:** CORNO

**Attribute Definition:**

Description = Correlate Number. Definition of the correlate number can be found by querying the "Lookups" table in the "Corno" field if the value is greater than 10. If the value for the correlate number is 10 or less you can locate the definitions of the correlates by querying the "Kectbl" or "Keftbl" tables.

Width = 4  
Attribute Type = N  
Range = 1 - 370

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.  
Width = 4  
Attribute Type = C  
Range = 1 - 4423

**Detailed Description:****Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = CORRTBL)

**Entity Type Definition:**

Environmental Correlates. These correlates are related to 4 other tables, namely, Kectbl, Measures, Seasons, and C-class. Because the classifications are related to these correlates, the user should include all five of the tables in their analysis. The tables by themselves may produce meaningless results. These correlates can be identified by their values of  $\leq 10$ .

**Attribute:**

**Attribute Label:** CORNO

**Attribute Definition:**

Description - Correlate number. A composite of the correlate number and the record number keeps these record unique. Thus a record (species) may have multiple entries, with up to 10 correlates.  
Width = 2  
Attribute Type = N  
Range = 1 - 370

**Attribute:**

**Attribute Label:** CORRELATES

**Attribute Definition:**

Description - Name of the correlate  
Width = 60  
Attribute Type = C

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.  
Width = 4  
Attribute Type = C  
Range = 1 - 4423

**Detailed Description:****Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = DISPERSE)

**Entity Type Definition:** Dispersal table. Lists modes and requirements of dispersal.

**Attribute:**

**Attribute Label:** DISPMODE

**Attribute Definition:**

Description - Mode of dispersal.

Width = 60

Attribute Type = C

**Attribute:**

**Attribute Label:** DISPREQ

**Attribute Definition:**

Description - Requirements of dispersal.

Width = 150

Attribute Type = C

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Detailed Description:****Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = F-CLASS)

**Entity Type Definition:**

Key ecological functions classifications. The functions were classified according to Bruce Marcot's document "Classification of Key Ecological Functions"

See APPENDIX 3 of SER\_AUX.PDF "Classification of Key Ecological Functions" for a description of the function codes (F1, F2, F3, F4)

**Attribute:**

**Attribute Label:** F1

**Attribute Definition:**

Description - First classification number

Width = 2

Attribute Type = N

Range = 1 - 10

**Attribute:**

**Attribute Label:** F2

**Attribute Definition:**

Description - Second classification number

Width = 2

Attribute Type = N

Range = 1 - 13

**Attribute:**

**Attribute Label:** F3

**Attribute Definition:**

Description - Third classification number

Width = 2

Attribute Type = N

Range = 1 - 9

**Attribute:**

**Attribute Label:** F4

**Attribute Definition:**

Description - Fourth classification number

Width = 2

Attribute Type = N

Range = 1 - 8

**Attribute:**

**Attribute Label:** KEFNO

**Attribute Definition:**

Description - Key ecological function number. This number along with the record number form a unique identifier that links to the description of the function in the "Keftbl"

Width = 2

Attribute Type = N

Range = 1 - 8

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = GEOAREA)

**Entity Type Definition:**

Geographic area. Lists the geographic areas occupied by the species

See APPENDIX 4 of SER\_AUX.PDF for a list of the Geographic Areas used for each class.

**Attribute:**

**Attribute Label:** GEOARHAB

**Attribute Definition:**

Description - Geographic area.

Width = 40

Attribute Type = C

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = HABTBL)

**Entity Type Definition:** Habitats. See APPENDIX 5 of SER\_AUX.PDF for a description of possible Vegetation and Structure codes

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Attribute:**

**Attribute Label:** STRUCTURE

**Attribute Definition:**

Description - Structure code for the Vegetation.

Width = 8

Attribute Type = C

**Attribute:**

**Attribute Label:** VEGTYPE

**Attribute Definition:**

Description - Vegetation type code.

Width = 8

Attribute Type = C

**Detailed Description:****Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = HEADER)

**Entity Type Definition:** Contains information about the record such as the confidence of the information, trend, and other comments.

**Attribute:**

**Attribute Label:** COMMENTS

**Attribute Definition:**

Description - Comments

Width = 255

Attribute Type = C

**Attribute:**

**Attribute Label:** CONFIDENCE

**Attribute Definition:**

Description - Confidence level of the data rated 0 to 5 with 5 being the highest level of confidence.

Width = 1

Attribute Type = N

**Attribute Domain Values:****Range Domain:**

**Range Domain Minimum:** 0

**Range Domain Maximum:** 5

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Detailed Description:****Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = KECTBL)

**Entity Type Definition:** Correlate categories.

**Attribute:**

**Attribute Label:** CAT

**Attribute Definition:**

Description - Categories

Width = 60

Attribute Type = C

**Attribute:**

**Attribute Label:** CORNO

**Attribute Definition:**

Description - Correlate number. Also relates to the "C-class", "Corrtbl", and the "Seasons" tables.

Width = 4

Attribute Type = N

Range 1 - 370

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = KEFTBL)

**Entity Type Definition:** Functions table

**Attribute:**

**Attribute Label:** KEF

**Attribute Definition:**

Description - The function

Width = 140

Attribute Type = C

**Attribute:**

**Attribute Label:** KEFNO

**Attribute Definition:**

Description - Function number. The composite of the "Kefno" and the record number create a unique identifier for each function by species (related thru the record number)

Width = 1

Attribute Type = N

Range = 1 - 8

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = LOOKUPS)

**Entity Type Definition:** This table serves as a lookup to table values. The data diagram shows the relationships to the table. This document also describes the relationships.

**Attribute:****Attribute Label:** ATTRDESCRI**Attribute Definition:**

Description - Attribute Description. This is the description of either the "Attribute name" or the "Corno"

Width = 60

Attribute Type = C

**Attribute:****Attribute Label:** ATTRNAME**Attribute Definition:**

Description - Attribute Name. This is the main linking field for crosswalking codes in tables to their descriptions

Width = 25

Attribute Type = C

**Attribute:****Attribute Label:** CORNO\_KEFN**Attribute Definition:**

Description -This field provides descriptions for Correlate numbers greater than 10.

Values less than 11 are described in the "Corrtbl"

Width = 2

Attribute Type = N

**Detailed Description:****Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = MEASURES)

**Entity Type Definition:**

Describes the measures and some values by which the species was measured, and is related to correlates. To be meaningful, you must link to a correlate number in "Seasons" or "Corrtbl" to find what it is that you are measuring.

**Attribute:****Attribute Label:** CORNO**Attribute Definition:**

Description - Record number. Used to relate to other entities of the database.

Width = 4

Attribute Type = C

**Attribute:****Attribute Label:** MAX**Attribute Definition:**

Description - Maximum of the measure

Width = 10

Attribute Type = C

**Attribute:****Attribute Label:** MEASURE**Attribute Definition:**

Description - Type of measure

Width = 20

Attribute Type = C

**Attribute:****Attribute Label:** MIN**Attribute Definition:**

Description - Minimum of the measure

Width = 10

Attribute Type = C

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = VEGSTRCT)

**Entity Type Definition:** Plant habitats

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Attribute:**

**Attribute Label:** STRUCID

**Attribute Definition:**

Description - Structure Id number. Relates to CRBSUM tables.

Width = 2

Attribute Type = N

**Attribute:**

**Attribute Label:** STRUCTURE

**Attribute Definition:**

Description - Structure codes. These codes are a compilation of the structures in a VegCode.

Width = 4

Attribute Type = C

**Attribute:**

**Attribute Label:** VEGCODE

**Attribute Definition:**

Description - Vegetation codes for the plant habitat. Also is linkable to the "Attributes names" field in the "Lookup" table. This also allows a link to CRBSUM thru the "Vegstruct" table

Width = 18

Attribute Type = C

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = RECORD)

**Entity Type Definition:** Master table of valid record numbers and the SPPCODE (species) that the record number represents.

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.



Width = 4  
Attribute Type = C  
Range = 1 - 4423

**Attribute:**

**Attribute Label:** SPPCODE

**Attribute Definition:**

Description - Species for the record number  
Width = 6  
Attribute Type = C

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = SEASONS)

**Entity Type Definition:** Season table

**Attribute:**

**Attribute Label:** CORNO

**Attribute Definition:**

Description - Correlate number. The correlate number along with the record number creates a unique identifier that relates the proper seasons to the it's correlate. Related to "C-class", "Corrtbl", "Measures", and "Kectbl" tables.  
Width = 1  
Attribute Type = N

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.  
Width = 4  
Attribute Type = C  
Range = 1 - 4423

**Attribute:**

**Attribute Label:** SEASON

**Attribute Definition:**

Description - Season. Either/or a combination of winter, spring, summer, or fall.  
Width = 12  
Attribute Type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** Fall  
**Enumerated Domain Value:** Spring  
**Enumerated Domain Value:** Summer  
**Enumerated Domain Value:** Winter

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = SPP)

**Entity Type Definition:** Species codes and other information such as common name, class, and scientific name.

**Attribute:**

**Attribute Label:** CLASS

**Attribute Definition:**

Description - Species class  
Width = 2  
Attribute Type = C

**Attribute Domain Values:****Enumerated Domain:****Enumerated Domain Value:** A**Enumerated Domain Value Definition:** Amphibian**Enumerated Domain Value:** B**Enumerated Domain Value Definition:** Bird**Enumerated Domain Value:** I**Enumerated Domain Value Definition:** Invertebrate**Enumerated Domain Value:** M**Enumerated Domain Value Definition:** Mammal**Enumerated Domain Value:** R**Enumerated Domain Value Definition:** Reptile**Attribute:****Attribute Label:** COMMON\_NAM**Attribute Definition:**

Description - Common name for the species

Width = 42

Attribute Type = C

**Attribute:****Attribute Label:** FAMILY**Attribute Definition:**

Description - Species family

Width = 18

Attribute Type = C

**Attribute:****Attribute Label:** SCIENTIFIC**Attribute Definition:**

Description - Scientific name

Width = 47

Attribute Type = C

**Attribute:****Attribute Label:** SPPCODE**Attribute Definition:**

Description - Species code

Width = 6

Attribute Type = C

**Detailed Description:****Entity Type:****Entity Type Label:** Species-Environment Relations Database (Table Name = USTYTBL)**Entity Type Definition:** Understory characteristics for the species**Attribute:****Attribute Label:** RECORD**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Attribute:****Attribute Label:** UNDERSTORY**Attribute Definition:**

Description - Understory code. Related to the "Attribute names" field in the

"Lookups" table

Width = 4

Attribute Type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** Bar

**Enumerated Domain Value Definition:** Barren

**Enumerated Domain Value:** Ctr

**Enumerated Domain Value Definition:** Conifer Trees

**Enumerated Domain Value:** Grs

**Enumerated Domain Value Definition:** Grass

**Enumerated Domain Value:** Htr

**Enumerated Domain Value Definition:** Hardwood Trees

**Enumerated Domain Value:** Shr

**Enumerated Domain Value Definition:** Shrub

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = VEGCODES)

**Entity Type Definition:**

Vegetation codes

See APPENDIX 5 of SER\_AUX.PDF for a description of Vegetation Codes.

**Attribute:**

**Attribute Label:** VEGCODE

**Attribute Definition:**

Description - Vegetation code.

Width = 17

attribute Type = C

**Attribute:**

**Attribute Label:** VEGDESC

**Attribute Definition:**

Description - Description of the vegetation code

Width = 50

Attribute Type = C

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = CLIMTBL)

**Entity Type Definition:**

Lists the types of climates associated with a species. Related to the species name by the record number. Whenever an entry was made for "Ann-precip" then there is usually a value given in the "Ann-precip" field"

This entity only exists for PLANTS

**Attribute:**

**Attribute Label:** ANN\_PRECIP

**Attribute Definition:**

Description - Annual precipitation (inches).

Width = 8

Attribute Type = C

**Attribute:**

**Attribute Label:** CLIMATE

**Attribute Definition:**

Description - Climate type

Width = 12

Attribute Type = C

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = CVRTBL)

**Entity Type Definition:**

Cover table. This table lists the characteristics of the cover types entered that are associated with the a species. the "Characteristics" field is linkable to the "Attributes" field in the "Lookups" table to include the description in your analysis.

This entity only exists for PLANTS.

**Attribute:**

**Attribute Label:** CHARACTERI

**Attribute Definition:**

Description - Characteristics of cover types associated with a species. Linkable to the "Attributes" field in the "Lookups" table to include the description in your analysis.

Width = 10

Attribute Type = C

**Attribute:**

**Attribute Label:** OSCANOPY

**Attribute Definition:**

Description - Dominant overstory canopy cover in forested communities measured in percentages

Width = 4

Attribute Type = N

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Attribute:**

**Attribute Label:** TOTALCOVER

**Attribute Definition:**

Description - Total canopy cover in forested communities measured in percentages.

Width = 4

Attribute Type = N

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = EFFECTS)

**Entity Type Definition:**

Holds information about the effects of fire, exotics, grazing, grazing impacts, mining, and other effects.

This entity only exists for PLANTS.

**Attribute:**

**Attribute Label:** ATTRIBUTES

**Attribute Definition:**

Description - The attribute of the effect for that species. This code can be linked to the "ATTRNAME" field in the "Lookups" table to include an ancillary notation for that code.

Width = 15

Attribute Type = C

**Attribute:**

**Attribute Label:** EFFECTS

**Attribute Definition:**

Description - Type of effects.

Width = 15

Attribute Type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** Exotic-effects

**Enumerated Domain Value:** Fire

**Enumerated Domain Value:** Grazing

**Enumerated Domain Value:** Grazing-impacts

**Enumerated Domain Value:** Logging

**Enumerated Domain Value:** Mining

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = EFF-COM)

**Entity Type Definition:**

Effects comments. This table will hold comments about all the effects described in the "Effects" table. Link is by record number and "Effect"

This entity only exists for PLANTS.

**Attribute:**

**Attribute Label:** COMMENT

**Attribute Definition:**

Description - Comment

Width = 255

Attribute Type = C

**Attribute:**

**Attribute Label:** EFFECT

**Attribute Definition:**

Description - Effect. Related to "Effect" field in "Effects" table.

Width = 15

Attribute Type = C

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = ENDTBL)

**Entity Type Definition:**

Endemism. Generally, the prevalent locality of the species.

See APPENDIX 2 of SER\_AUX.PDF for definitions of the endemism categories.

This entity only exists for PLANTS

**Attribute:**

**Attribute Label:** ENDEMISM

**Attribute Definition:**

Description - Endemic code for the species. This code can be linked to the "ATTRNAME" field in the "Lookups" table for a description of the code.

Width = 8

Attribute Type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** Enddj

**Enumerated Domain Value Definition:** Endemism - Disjunct

**Enumerated Domain Value:** Endle

**Enumerated Domain Value Definition:** Endemism - Local endemic

**Enumerated Domain Value:** Endpe

**Enumerated Domain Value Definition:** Endemism - Peripheral

**Enumerated Domain Value:** Endre

**Enumerated Domain Value Definition:** Endemism - Regional endemic

**Enumerated Domain Value:** Endsc

**Enumerated Domain Value Definition:** Endemism - Scattered

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = ENDCOM)

**Entity Type Definition:**

Endemism comments.

This entity only exists for PLANTS

**Attribute:**

**Attribute Label:** COMMENT

**Attribute Definition:**

Description - Comments

Width = 100

Attribute Type = C

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = EXCHANGE)

**Entity Type Definition:**

Exotic plants that have the most chance of impact. This table is more meaningful when exotics are also queried from the "Effects" table. Other effects of exotics can be located by querying the "Eff-com" (Effects comments) field.

This entity only exists for PLANTS.

**Attribute:**

**Attribute Label:** MOSTCHANCE

**Attribute Definition:**

Description - Exotic plants that have the most chance of impact.

Width = 50

Attribute Type = C

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = GEOLOGY)

**Entity Type Definition:**

Describes the geology & soil characteristics associated with the species.

This entity only exists for PLANTS.

**Attribute:**

**Attribute Label:** ATTRIBUTES

**Attribute Definition:**

Description - Attribute for the Geology or Soil code. This can be linked to the "Attribute" field of the "Lookups" table for a description of the codes. Within the Attribute description, landform refers to the plants' position on the landscape, and geology refers to the composition of the substrate the plant is found on.

Width = 15

Attribute Type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** Basalt

**Enumerated Domain Value Definition:** Basalt

**Enumerated Domain Value:** Calcareous

**Enumerated Domain Value Definition:** Calcareous Rock

**Enumerated Domain Value:** Clay

**Enumerated Domain Value Definition:** Clay (alluvium)

**Enumerated Domain Value:** Glacial

**Enumerated Domain Value Definition:** Glacial Till and Landslides

**Enumerated Domain Value:** Granite

**Enumerated Domain Value Definition:** Granite

**Enumerated Domain Value:** Playa

**Enumerated Domain Value Definition:** Playa

**Enumerated Domain Value:** Rhyolite

**Enumerated Domain Value Definition:** Rhyolite

**Enumerated Domain Value:** Sand

**Enumerated Domain Value Definition:** Sand (sandstone)

**Enumerated Domain Value:** Sed/meta

**Enumerated Domain Value Definition:** Sedimentary/Metamorphic

**Enumerated Domain Value:** Serpentine

**Enumerated Domain Value Definition:** Serpentine

**Enumerated Domain Value:** Talus

**Enumerated Domain Value Definition:** Talus

**Enumerated Domain Value:** Tuff

**Enumerated Domain Value Definition:** Tuff

**Enumerated Domain Value:** Cliff

**Enumerated Domain Value Definition:** Cliff

**Enumerated Domain Value:** Ridgetop

**Enumerated Domain Value Definition:** Ridgetop

**Enumerated Domain Value:** Scabland

**Enumerated Domain Value Definition:** Scabland

**Enumerated Domain Value:** Valleybottom

**Enumerated Domain Value Definition:** Valleybottom

**Enumerated Domain Value:** Acid

**Enumerated Domain Value Definition:** Soil pH - Acid

**Enumerated Domain Value:** Alkaline

**Enumerated Domain Value Definition:** Soil pH - Alkaline

**Enumerated Domain Value:** Coarstxtr

**Enumerated Domain Value Definition:** Soil Texture - Coarse (sand)

**Enumerated Domain Value:** Deep

**Enumerated Domain Value Definition:** Soil Depth - Deep (40-60")

**Enumerated Domain Value:** Finetxtr

**Enumerated Domain Value Definition:** Soil Texture - Fine

**Enumerated Domain Value:** Mediumtxtr

**Enumerated Domain Value Definition:** Soil Texture - Medium

**Enumerated Domain Value:** Mod-deep

**Enumerated Domain Value Definition:** Soil Depth - Moderately Deep  
(20-40")



**Enumerated Domain Value:** Moist-andic  
**Enumerated Domain Value Definition:** Soil Moisture Regime - Aridic  
**Enumerated Domain Value:** Moist-udic  
**Enumerated Domain Value Definition:** Soil Moisture Regime - Udic  
**Enumerated Domain Value:** Moist-ustic  
**Enumerated Domain Value Definition:** Soil Moisture Regime - Ustic  
**Enumerated Domain Value:** Moist-xeric  
**Enumerated Domain Value Definition:** Soil Moisture Regime - Xeric  
**Enumerated Domain Value:** Neutral  
**Enumerated Domain Value Definition:** Soil pH - Neutral  
**Enumerated Domain Value:** Shallow  
**Enumerated Domain Value Definition:** Soil Depth - Shallow (10-20")  
**Enumerated Domain Value:** Temp-cryic  
**Enumerated Domain Value Definition:** Soil Temperature - Cryic (0-8'C)  
**Enumerated Domain Value:** Temp-frigid  
**Enumerated Domain Value Definition:** Soil Temperature - Frigid (diff. mean summer/winter = >5')  
**Enumerated Domain Value:** Temp-mesic  
**Enumerated Domain Value Definition:** Soil Temperature - Mesic (8-15'C)  
**Enumerated Domain Value:** Verydeep  
**Enumerated Domain Value Definition:** Soil Depth - Very Deep (>40")  
**Enumerated Domain Value:** Veryshallow  
**Enumerated Domain Value Definition:** Soil Depth - Very Shallow (<10")

**Attribute:**

**Attribute Label:** GEO\_SOIL

**Attribute Definition:**

Description - Geology or soil

Width = 8

Attribute Type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** Geology

**Enumerated Domain Value:** Soils

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Detailed Description:****Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = INDTBL)

**Entity Type Definition:**

Indicators.

This entity only exists for PLANTS.

**Attribute:**

**Attribute Label:** INDICATOR

**Attribute Definition:**

Description - Indicator. Related to the "Attribute" field in the "Lookups" table

Width = 15

Attribute Type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** Airquality

**Enumerated Domain Value Definition:** Air Quality

**Enumerated Domain Value:** CaCO3

**Enumerated Domain Value Definition:** CaCO3

**Enumerated Domain Value:** Flow-high

**Enumerated Domain Value Definition:** Flow level, high water mark

**Enumerated Domain Value:** Flow-low

**Enumerated Domain Value Definition:** Flow level, low water mark

**Enumerated Domain Value:** Grazdec

**Enumerated Domain Value Definition:** Grazing decrease

**Enumerated Domain Value:** Grazin

**Enumerated Domain Value Definition:** Grazing increase

**Enumerated Domain Value:** HighN

**Enumerated Domain Value Definition:** High N

**Enumerated Domain Value:** Metalrich

**Enumerated Domain Value Definition:** Metal rich rock

**Enumerated Domain Value:** Oldgrowth

**Enumerated Domain Value Definition:** Old growth

**Enumerated Domain Value:** Soiltemphigh

**Enumerated Domain Value Definition:** Soil temperature (high)

**Enumerated Domain Value:** Soiltemplo

**Enumerated Domain Value Definition:** Soil temperature (low)

**Enumerated Domain Value:** Texture-coarse

**Enumerated Domain Value Definition:** Soil texture, coarse

**Enumerated Domain Value:** Texture-fine

**Enumerated Domain Value Definition:** Soil texture, fine

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = INDCOM)

**Entity Type Definition:**

Indicator comments.

This entity only exists for PLANTS.

**Attribute:**

**Attribute Label:** COMMENT

**Attribute Definition:**

Description - Comment. Related to the "Indtbl" by the record number.

Width = 255

Attribute Type = C

**Attribute:**

**Attribute Label:** RECORD**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Detailed Description:****Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = LFRMTBL)

**Entity Type Definition:**

Life forms

This entity only exists for PLANTS.

**Attribute:****Attribute Label:** LIFEFORM**Attribute Definition:**

Description - Life form number. The definition of each lifeform number differs depending on whether the species is a vascular plant or a fungus.

Width = 3

Attribute Type = C

**Attribute Domain Values:****Enumerated Domain:**

**Enumerated Domain Value:** Lf1

**Enumerated Domain Value Definition:**

Vascular Plants:

Phanerophytes: Species with perennating buds or shoot apices on aerial shoots. Group includes most woody shrubs or trees

Fungi: Mushroom

**Enumerated Domain Value:** Lf2

**Enumerated Domain Value Definition:**

Vascular plants:

Chamaephytes: Species that hold their perennating buds and shoot apices very close to the ground. Group includes semi-woody and herbaceous species that persist above ground throughout the year (though not necessarily in a physiological active state). Group includes bunch grasses and cushion plants.

Fungi: Resupinate

**Enumerated Domain Value:** Lf3

**Enumerated Domain Value Definition:**

Vascular plants:

Hemicryptophytes: Species with perennating buds at ground level, all parts above ground dying back at the end of the active growing season. Stolons may or may not be present. Group includes rosette plants (e.g. Taraxacum), partial rosette plants (e.g. Achillea millefolium, and stoloniferous species (e.g. Rubus).

Fungi: Truffle

**Enumerated Domain Value:** Lf4

**Enumerated Domain Value Definition:**

Vascular plants:

Cryptophytes: Species bear their perennating buds below ground level or submerged in water. Group includes rhizomatous and bulb forming species (e.g. Allium), and aquatic species such as Alisma and Nuphar.

Fungi: Puffball

**Enumerated Domain Value:** Lf5

**Enumerated Domain Value Definition:**

Vascular plants:

Therophytes: This is a group for annual species (e.g. Bromus tectorum or Stephanomeria malheurensis).

Fungi: Polypore

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = SUBSTRTS)

**Entity Type Definition:**

Substrates information

This entity only exists for PLANTS.

**Attribute:**

**Attribute Label:** ATTRIBUTES

**Attribute Definition:**

Description - Attributes

Width = 20

Attribute Type = C

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

range = 1 - 4423

**Attribute:**

**Attribute Label:** SUBSTRATES

**Attribute Definition:**

Description - Substrate

Width = 15

Attribute Type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** NonVeg

**Enumerated Domain Value:** OtherNonVeg

**Enumerated Domain Value:** OtherVeg

**Enumerated Domain Value: Veg**

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = TOPOTBL)

**Entity Type Definition:**

Topography. Associated topography for the species.

This entity only exists for PLANTS.

**Attribute:**

**Attribute Label:** ELEV\_MAX

**Attribute Definition:**

Description - If the topography shows "Elev-max" as a correlate then there may be a value shown in this field.

Width = 5

Attribute Type = N

**Attribute Domain Values:**

**Range Domain:**

**Range Domain Minimum:** 500

**Range Domain Maximum:** 12000

**Attribute:**

**Attribute Label:** ELEV\_MIN

**Attribute Definition:**

Description - If the topography shows "Elev-min" as a correlate then there may be a value shown in this field.

Width = 5

Attribute Type = N

**Attribute Domain Values:**

**Range Domain:**

**Range Domain Minimum:** 0

**Range Domain Maximum:** 9000

**Attribute:**

**Attribute Label:** RECORD

**Attribute Definition:**

Description = Record number - Used to relate to other entities of the database.

Width = 4

Attribute Type = C

Range = 1 - 4423

**Attribute:**

**Attribute Label:** TOPOGRAPHY

**Attribute Definition:**

Description - Topography. These tables can be linked to the "Attribute names" field in the "Lookups" table.

Width = 15

Attribute Type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** East

**Enumerated Domain Value Definition:** Aspect - East

**Enumerated Domain Value:** Flat

**Enumerated Domain Value Definition:** Aspect - Flat

**Enumerated Domain Value:** North

**Enumerated Domain Value Definition:** Aspect - North  
**Enumerated Domain Value:** Northerly  
**Enumerated Domain Value Definition:** Aspect - Northerly  
**Enumerated Domain Value:** South  
**Enumerated Domain Value Definition:** Aspect - South  
**Enumerated Domain Value:** Elev-max  
**Enumerated Domain Value Definition:** Maximum Elevation (feet)  
**Enumerated Domain Value:** Elev-min  
**Enumerated Domain Value Definition:** Minimum Elevation (feet)  
**Enumerated Domain Value:** Pos-low  
**Enumerated Domain Value Definition:** Slope Position - Lower  
**Enumerated Domain Value:** Pos-mid  
**Enumerated Domain Value Definition:** Slope Position - Middle  
**Enumerated Domain Value:** Pos-upper  
**Enumerated Domain Value Definition:** Slope Position - Upper  
**Enumerated Domain Value:** Sl-flat  
**Enumerated Domain Value Definition:** Slope - Flat (0-10%)  
**Enumerated Domain Value:** Sl-gentle  
**Enumerated Domain Value Definition:** Slope - Gentle (11-30%)  
**Enumerated Domain Value:** Sl-steep  
**Enumerated Domain Value Definition:** Slope - Steep (31-50%)  
**Enumerated Domain Value:** Sl-verysteep  
**Enumerated Domain Value Definition:** Slope - Very Steep (>51%)  
**Enumerated Domain Value:** Southerly  
**Enumerated Domain Value Definition:** Aspect - Southerly  
**Enumerated Domain Value:** West  
**Enumerated Domain Value Definition:** Aspect - West

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** Species-Environment Relations Database (Table Name = QSPEC)

**Entity Type Definition:**

Entire list of: all vertebrates; plants (including bryophytes and fungi) and plant groups of concern; invertebrates of concern; and functional groups of invertebrates within the Interior Columbia River Basin.

**Attribute:**

**Attribute Label:** B\_ID

**Attribute Definition:**

Description - Bureau of Land Management Idaho species designation  
 Width = 3  
 Attribute type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** A  
**Enumerated Domain Value Definition:** Assessing  
**Enumerated Domain Value:** S  
**Enumerated Domain Value Definition:** Sensitive

**Attribute:**

**Attribute Label:** B\_MT

**Attribute Definition:**

Description - Bureau of Land Management Montana species designation  
 Width = 3

Attribute type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** A

**Enumerated Domain Value Definition:** Assessing

**Enumerated Domain Value:** S

**Enumerated Domain Value Definition:** Sensitive

**Attribute:**

**Attribute Label:** B\_NV

**Attribute Definition:**

Description - Bureau of Land Management Nevada species designation

Width = 3

Attribute type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** A

**Enumerated Domain Value Definition:** Assessing

**Enumerated Domain Value:** S

**Enumerated Domain Value Definition:** Sensitive

**Attribute:**

**Attribute Label:** B\_OR

**Attribute Definition:**

Description - Bureau of Land Management Oregon species designation

Width = 3

Attribute type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** A

**Enumerated Domain Value Definition:** Assessing

**Enumerated Domain Value:** S

**Enumerated Domain Value Definition:** Sensitive

**Attribute:**

**Attribute Label:** B\_WA

**Attribute Definition:**

Description - Bureau of Land Management Washington species designation

Width = 3

Attribute type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** A

**Enumerated Domain Value Definition:** Assessing

**Enumerated Domain Value:** S

**Enumerated Domain Value Definition:** Sensitive

**Attribute:**

**Attribute Label:** B\_WY

**Attribute Definition:**

Description - Bureau of Land Management Wyoming species designation

Width = 3

Attribute type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value: A**

**Enumerated Domain Value Definition: Assessing**

**Attribute:**

**Attribute Label: BS**

**Attribute Definition:**

Description - Bureau of Land Management sensitive in any state

Width = 3

Attribute type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value: S**

**Enumerated Domain Value Definition: Sensitive**

**Attribute:**

**Attribute Label: CLASS**

**Attribute Definition:**

Description - Taxonomic Class

Width = 2

Attribute type - C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value: B**

**Enumerated Domain Value Definition: Bird**

**Enumerated Domain Value: BG**

**Enumerated Domain Value Definition: Bryophyte group**

**Enumerated Domain Value: I**

**Enumerated Domain Value Definition: Invertebrate**

**Enumerated Domain Value: L**

**Enumerated Domain Value Definition: Lichen**

**Enumerated Domain Value: LG**

**Enumerated Domain Value Definition: Lichen group**

**Enumerated Domain Value: M**

**Enumerated Domain Value Definition: Mammal**

**Enumerated Domain Value: NV**

**Enumerated Domain Value Definition: Non-vascular**

**Enumerated Domain Value: P**

**Enumerated Domain Value Definition: Plant**

**Enumerated Domain Value: PG**

**Enumerated Domain Value Definition: Plant group**

**Enumerated Domain Value: R**

**Enumerated Domain Value Definition: Reptile**

**Attribute:**

**Attribute Label: COMMENTS**

**Attribute Definition:**

Description - Comments

Width = 29

Attribute type = C

**Attribute:**

**Attribute Label: COMMON\_NAM**

**Attribute Definition:**

Description - Common name

Width = 42



Attribute type = C

**Attribute:**

**Attribute Label:** DTB

**Attribute Definition:**

Description - Species in SERS database.

Width = 1

Attribute type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** X

**Enumerated Domain Value Definition:** Species in SERS database

**Attribute:**

**Attribute Label:** EXT

**Attribute Definition:**

Description - Extinct or Extirpated in part or all of it's range- includes status from Oregon (ONHP list 1-ex or 2-ex), WA (TNC rank), and (ID INPS) - see COMMENTS for details and locations.

Width = 3

Attribute type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** X

**Enumerated Domain Value Definition:** Extinct or Extirpated

**Attribute:**

**Attribute Label:** F\_ID

**Attribute Definition:**

Description - Forest Service Idaho sensitive species

Width = 3

Attribute type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** S

**Enumerated Domain Value Definition:** Sensitive

**Attribute:**

**Attribute Label:** F\_MT

**Attribute Definition:**

Description - Forest Service Montana sensitive species

Width = 3

Attribute type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** S

**Enumerated Domain Value Definition:** Sensitive

**Attribute:**

**Attribute Label:** F\_NV

**Attribute Definition:**

Description - Forest Service Nevada sensitive species

Width = 3

Attribute type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value: S**

**Enumerated Domain Value Definition: Sensitive**

**Attribute:**

**Attribute Label: F\_OR**

**Attribute Definition:**

Description - Forest Service Oregon sensitive species

Width = 3

Attribute type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value: S**

**Enumerated Domain Value Definition: Sensitive**

**Attribute:**

**Attribute Label: F\_WA**

**Attribute Definition:**

Description - Forest Service Washington sensitive species

Width = 3

Attribute type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value: S**

**Enumerated Domain Value Definition: Sensitive**

**Attribute:**

**Attribute Label: F\_WY**

**Attribute Definition:**

Description - Forest Service Wyoming sensitive species

Width = 3

Attribute type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value: S**

**Enumerated Domain Value Definition: Sensitive**

**Attribute:**

**Attribute Label: FAMILY**

**Attribute Definition:**

Description - Taxonomic Family

Width = 18

Attribute type = C

**Attribute:**

**Attribute Label: FS**

**Attribute Definition:**

Description - Forest Service sensitive in any state

Width = 3

Attribute type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value: S**

**Enumerated Domain Value Definition: Sensitive**

**Enumerated Domain Value: T**

**Enumerated Domain Value Definition: Threatened?**

**Enumerated Domain Value: E**

**Enumerated Domain Value Definition: Endangered?****Attribute:****Attribute Label:** ID\_STATUS**Attribute Definition:**

Description - Concatenation of state status and Federal Status for that species in Idaho

Width = 10

Attribute type = C

**Attribute:****Attribute Label:** IDF\_G**Attribute Definition:**

Description - Idaho Department of Fish and Game AND Idaho Native Plant Society species designation

Width = 4

Attribute type = C

**Attribute Domain Values:****Enumerated Domain:****Enumerated Domain Value:** SA**Enumerated Domain Value Definition:** Category A - Priority Species**Enumerated Domain Value:** SP**Enumerated Domain Value Definition:** Category B - Peripheral Species**Enumerated Domain Value:** SU**Enumerated Domain Value Definition:** Category C - Undetermined Species**Enumerated Domain Value:** S1**Enumerated Domain Value Definition:** State Priority 1**Enumerated Domain Value:** S2**Enumerated Domain Value Definition:** State priority 2**Enumerated Domain Value:** SS**Enumerated Domain Value Definition:** State sensitive**Enumerated Domain Value:** SX**Enumerated Domain Value Definition:** Historical/Extirpated**Attribute:****Attribute Label:** LISTS**Attribute Definition:**

Description - Listed by Natural Resources Defence Council or Tribes as species of concern

Width = 4

Attribute type = C

**Attribute Domain Values:****Enumerated Domain:****Enumerated Domain Value:** T**Enumerated Domain Value Definition:** Tribe**Enumerated Domain Value:** N**Enumerated Domain Value Definition:** NRDC**Attribute:****Attribute Label:** MDFW\_P**Attribute Definition:**

Description - Montana Department of Fish Wildlife and Parks AND Montana Natural Heritage

Width = 3

Attribute type = C

**Attribute Domain Values:****Enumerated Domain:****Enumerated Domain Value:** SE**Enumerated Domain Value Definition:** State Endangered**Enumerated Domain Value:** SP**Enumerated Domain Value Definition:** State Protected**Enumerated Domain Value:** SSC**Enumerated Domain Value Definition:** Species of Special concern**Enumerated Domain Value:** S**Enumerated Domain Value Definition:** Follow-up needed**Attribute:****Attribute Label:** MT\_STATUS**Attribute Definition:**

Description - Concatenation of state status and Federal Status for that species in Montana

Width = 10

Attribute type = C

**Attribute:****Attribute Label:** NDF\_W**Attribute Definition:**

Description - Nevada Department of Fish and Wildlife AND Nevada Division of Forestry species designation

Width = 3

Attribute type = C

**Attribute Domain Values:****Enumerated Domain:****Enumerated Domain Value:** SP**Enumerated Domain Value Definition:** State Protected**Enumerated Domain Value:** SS**Enumerated Domain Value Definition:** State Sensitive (includes extra from heritage)**Enumerated Domain Value:** ST**Enumerated Domain Value Definition:** State Threatened**Enumerated Domain Value:** SE**Enumerated Domain Value Definition:** State Endangered**Enumerated Domain Value:** SCE**Enumerated Domain Value Definition:** State Critically Endangered**Enumerated Domain Value:** SE#**Enumerated Domain Value Definition:** Recommended for SE, pending formal listing**Enumerated Domain Value:** SE**Enumerated Domain Value Definition:** Endangered (NNNPS)**Enumerated Domain Value:** ST**Enumerated Domain Value Definition:** Threatened (NNNPS)**Attribute:****Attribute Label:** NV\_STATUS**Attribute Definition:**

Description - Concatenation of state status and Federal Status for that species in Nevada

Width = 10

Attribute type = C

**Attribute:****Attribute Label:** ODF\_W**Attribute Definition:**

Description - Oregon Department of Fish and Wildlife AND Oregon Department of Agriculture species designation

Width = 2

Attribute type = C

**Attribute Domain Values:****Enumerated Domain:**

**Enumerated Domain Value:** SC

**Enumerated Domain Value Definition:** State Critical

**Enumerated Domain Value:** SV

**Enumerated Domain Value Definition:** State Vulnerable

**Enumerated Domain Value:** SP

**Enumerated Domain Value Definition:** State Peripheral/Rare

**Enumerated Domain Value:** SU

**Enumerated Domain Value Definition:** State Undetermined

**Enumerated Domain Value:** SE

**Enumerated Domain Value Definition:** State Endangered

**Enumerated Domain Value:** ST

**Enumerated Domain Value Definition:** State Threatened

**Enumerated Domain Value:** SC

**Enumerated Domain Value Definition:** State Candidate

**Attribute:****Attribute Label:** OR\_STATUS**Attribute Definition:**

Description - Concatenation of state status and Federal Status for that species in Oregon

Width = 10

Attribute type = C

**Attribute:****Attribute Label:** ORDER**Attribute Definition:**

Description - Taxonomic Order

Width = 18

Attribute type = C

**Attribute:****Attribute Label:** SCIENTIFIC**Attribute Definition:**

Description - Scientific name

Width = 47

Attribute type = C

**Attribute:****Attribute Label:** SPPCODE**Attribute Definition:**

Description - 6 digit species code

Width = 6

Attribute type = C

**Attribute:****Attribute Label:** TAX**Attribute Definition:**

Description - Number to put species in taxonomic order

Width = 3

Attribute type = N

Range = 1 - 96

**Attribute:**

**Attribute Label:** USFWS

**Attribute Definition:**

Description - U.S. Fish and Wildlife Service status designation

Width = 6

Attribute type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** FE

**Enumerated Domain Value Definition:** Federally Endangered

**Enumerated Domain Value:** FT

**Enumerated Domain Value Definition:** Federally Threatened

**Enumerated Domain Value:** FPE

**Enumerated Domain Value Definition:** Federally Proposed Endangered

**Enumerated Domain Value:** FPT

**Enumerated Domain Value Definition:** Federally Proposed Threatened

**Enumerated Domain Value:** FC1

**Enumerated Domain Value Definition:** Federal Category 1 Candidate

**Enumerated Domain Value:** FC2

**Enumerated Domain Value Definition:** Federal Category 2 Candidate

**Enumerated Domain Value:** 3C

**Enumerated Domain Value Definition:** Federal Category 3 Candidate-NOT  
a complete list

**Enumerated Domain Value:** 3A

**Enumerated Domain Value Definition:** Undocumented value

**Enumerated Domain Value:** 3B

**Enumerated Domain Value Definition:** Undocumented value

**Attribute:**

**Attribute Label:** WA\_STATUS

**Attribute Definition:**

Description - Concatenation of state status and Federal Status for that species in  
Washington

Width = 10

Attribute type = C

**Attribute:**

**Attribute Label:** WDF\_W

**Attribute Definition:**

Description - Washington Department of Fish and Wildlife AND Washington  
Department of Natural Resources species designation

Width = 2

Attribute type = C

**Attribute Domain Values:**

**Enumerated Domain:**

**Enumerated Domain Value:** SE

**Enumerated Domain Value Definition:** State Endangered

**Enumerated Domain Value:** ST

**Enumerated Domain Value Definition:** State Threatened

**Enumerated Domain Value:** SS

**Enumerated Domain Value Definition:** State Sensitive

**Enumerated Domain Value:** SC

**Enumerated Domain Value Definition:** State Candidate

**Enumerated Domain Value:** SM

**Enumerated Domain Value Definition:** State monitor

**Enumerated Domain Value:** SX

**Enumerated Domain Value Definition:** State Extinct/Extirpated (TNC rank)

**Attribute:**

**Attribute Label:** WY\_STATUS

**Attribute Definition:**

Description - Concatenation of state status and Federal Status for that species in Wyoming

Width = 10

Attribute type = C

**Overview Description:**

**Entity and Attribute Overview:**

The Species-Environment Relations (SER) database will extract into five directories: INVERTS, PLANTS, VERTS, CRBSTATS and QSPEC. INVERTS, PLANTS and VERTS contain the SER data for invertebrates, plants and vertebrates, respectively. Supplemental, non-environment, data is contained in the CRBSTATS and QSPEC directories.

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## Distribution Information

[Section Index](#)

**Distributor:**

**Contact Information:**

**Contact Person Primary:**

**Contact Person:** Becky Gravenmier

**Contact Organization:** Interior Columbia Basin Ecosystem Management Project

**Contact Position:** ICBEMP Spatial Team Lead

**Contact Address:**

**Address Type:** Mailing & Physical Address

**Address:** USDA Forest Service, Regional Office R6, 333 S.W. First Avenue, 4th Floor

**City:** Portland

**State or Province:** OR

**Postal Code:** 97204

**Country:** USA

**Contact Voice Telephone:** (503) 808-2851

**Contact Facsimile Telephone:** (503) 808-2622

**Contact Electronic Mail Address:** bgravenmier@fs.fed.us

**Resource Description:** BDBSER

**Distribution Liability:**

The ICBEMP cannot assure the reliability or suitability of this information for a particular purpose. Original data were compiled from various sources. Spatial information may not meet National Map Accuracy Standards. This information may be updated without notification.

## Standard Order Process:

### Digital Form:

#### Digital Transfer Information:

**Format Name:** EXE

**Format Version Number:** 7.0

**Format Specification:** Self-extracting zip files for the PC

**File Decompression Technique:** Double-click on the file to extract files from the self-extracting zip file.

#### Digital Transfer Option:

##### Online Option:

**Online Computer and Operating System:** Windows 3.1, Windows 95/98, Windows NT

### Digital Form:

#### Digital Transfer Information:

**Format Name:** TAR

**Format Specification:** Compressed tar files on the Unix operating system.

**File Decompression Technique:** type: zcat <tarfilename>.tar.Z | tar xvf - to extract the contents of the archive.

#### Digital Transfer Option:

##### Online Option:

**Online Computer and Operating System:** Unix workstations

**Fees:** None for download from ICBEMP web site

**Ordering Instructions:** Download ICBEMP data from ICBEMP web site at [www.icbemp.gov/spatial](http://www.icbemp.gov/spatial)

**Turnaround:** Same day for download from ICBEMP web site

## Custom Order Process:

If unable to download data directly from the ICBEMP web site ([www.icbemp.gov/spatial](http://www.icbemp.gov/spatial)), follow these instructions for the manual ICBEMP data request process.

Complete and mail the Data Request Form and the Available Data List to ICBEMP, Attn: Carole Smith, c/o USDA Forest Service, 333 S.W. First Ave, 4th Floor, Portland, OR 97204 (Internet: [c3smith@or.blm.gov](mailto:c3smith@or.blm.gov)). These forms are available from the Project web site or can be requested via e-mail from [bgravenmier@fs.fed.us](mailto:bgravenmier@fs.fed.us). Please specify requested datasets by placing a checkmark in the space provided on the Available Data List.

Spatial data are released in Unix ARC/INFO export format. ARCVIEW files are made available when applicable. The digital data are provided on 8mm tape unless otherwise specified. Please specify special instructions for export format and tape density on the request form.

The Bureau of Land Management (BLM) Oregon State Office will telephone the requester to advise the cost of requested data. The requested data are mailed to the requester after payment has been received by the BLM.

Cost is based on a manual labor charge of \$20.00 per hour (prorated), cost of the tape(s), and size of the map/plot(s). Digital data are provided on 8mm tape (cost \$9.00) unless special instructions are specified on the request form. Federal offices are provided the information free of charge.

## Technical Prerequisites:

Spatial data are released as both compressed Unix-based archive ARC(.TAR.Z) export files and PC-based executable (.EXE) files. Attribute files are released in dBASE IV (.DBF) format as Unix-based archive (.TAR.Z) files and PC-based (.EXE) files. Additionally, databases are released in both dBase IV and Paradox (.DB) format as .TAR.Z and .EXE files. All files within the archive .TAR.Z files and .EXE files follow the 8.3 naming convention to enable use on the



Windows 3.1 operating system.  
**Available Time Period:**  
**Time Period Information:**  
**Single Date/Time:**  
**Calendar Date:** 6/28/1994

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## Metadata Reference Information

### [Section Index](#)

**Metadata Date:** 7/2/2001  
**Metadata Review Date:**  
**Metadata Future Review Date:** 9/1/2001  
**Metadata Contact:**  
**Contact Information:**  
**Contact Person Primary:**  
**Contact Person:** Becky Gravenmier  
**Contact Organization:** Interior Columbia Basin Ecosystem Management Project  
**Contact Position:** ICBEMP Spatial Team Lead  
**Contact Address:**  
**Address Type:** Mailing & Physical Address  
**Address:** USDA Forest Service, Regional Office R6, 333 S.W. First Avenue, 4th Floor  
**City:** Portland  
**State or Province:** OR  
**Postal Code:** 97204  
**Country:** USA  
**Contact Voice Telephone:** (503) 808-2851  
**Contact Facsimile Telephone:** (503) 808-2622  
**Contact Electronic Mail Address:** bgravenmier@fs.fed.us  
**Metadata Standard Name:** FGDC Content Standards for Digital Geospatial Metadata  
**Metadata Standard Version:** June 1998  
**Metadata Time Convention:** Local Time

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SMMS Metadata report generated 8/9/2001