

Metadata:

Identification\_Information:

Citation:

Citation\_Information:

Originator: Thomas A. Tremblay

Publication\_Date: GIS database

Publication\_Time:

Title: Research Associate

Edition:

Geospatial\_Data\_Presentation\_Form: ARC coverage

Series\_Name:

Issue\_Identification:

Publication\_Information:

Publication\_Place: University of Texas

Publisher: Bureau of Economic Geology

Other\_Citation\_Details:

Online\_Linkage:

Description:

The Edwards Rules map was captured from 74 mylar, paper blue-line, and original 7.5' USGS maps. Lines depicting the boundary of the recharge, contributing and transition zones of the Edwards Aquifer were tablet digitized from the original maps using the ArcEdit module of ArcInfo.

All ticks and linear features from an individual map were captured during the initial digitizing session. The digitized coverages were transformed into either polyconic or stateplane (central or south central zones) projections. Transformation error reports for all coverages are recorded and supplied elsewhere within the project documentation. The 74 individual coverages were reprojected into UTM zone 14, appended, and processed into a single polygon coverage. Existing digital data provided by TNRCC for the Helotes and Castle Hills quadrangles were inserted into the final coverage. County boundaries for quadrangles containing the contributing zone boundary were appended to the final coverage.

Polygons are assigned a numeric code specifying recharge (1), transition (2), and contributing (3) areas.

The 74 7.5' USGS quadrangles are:

Bulverde  
New Bruanfels West  
San Marcos South  
Hunter  
San Marcos North  
Wimberley  
Devil's Backbone  
Buda  
Mountain City  
Driftwood  
Oak Hill  
Signal Hill  
Austin East  
Austin West  
Pflugerville  
Jollyville

Hutto  
Round Rock  
Leander  
Weir  
Georgetown  
Leander NE  
Cobb's Cavern  
Florence  
Youngsport  
Ding Dong  
Jarrell  
Boerne  
Bergheim  
Anhalt  
Smithson Valley  
Sattler  
New Braunfels East  
Bat Cave  
Bee Cave  
Shingle Hills  
Hammetts Crossing  
Henly  
Schertz  
Longhorn  
Camp Bullis  
Van Raub  
San Geronimo  
Medina Lake  
Riomedina  
Timber Creek  
Twin Hollow  
Quihi  
Mustang Valley  
Texas Mountain  
Sabinal NE  
Flatrock Crossing  
Comanche Waterhole  
Utopia  
Trio  
Concan  
Knippa  
Magers Crossing  
Reagan Wells  
Sevenmile Hill  
Chalk Bluff  
Sycamore Mountain  
Lake Creek  
Laguna  
Mustang Waterhole  
Turkey Mountain  
Salmon Peak  
Bull Waterhole  
Silver Lake  
Brackettville NE  
Elm Mountain  
Pinto Mountain  
Kickapoo Caverns

La Coste NE

Limitations\_of\_Data:

Not for use at scales larger than 1:24,000.

Entity\_and\_Attribute\_Overview:

Edwards-id is the polygon code. 1 = recharge and 2 = transition,  
3 = contributing.

Reviews\_Applied\_to\_Data:

An initial check plot was created to assure the quality of the data capture and transformation methods. All transformation error reports were noted and saved to a common file.

Abstract:

Purpose:

Supplemental\_Information:

Procedures\_Used:

Revisions:

Reviews\_Applied\_to\_Data:

Related\_Spatial\_and\_Tabular\_Data\_Sets:

Other\_References\_Cited:

Notes:

Time\_Period\_of\_Content:

Time\_Period\_Information:

Range\_of\_Dates/Times:

Beginning\_Date: 8/99

Ending\_Date: 8/00

Currentness\_Reference:

Status:

Progress:

Maintenance\_and\_Update\_Frequency:

Spatial\_Domain:

Bounding\_Coordinates:

West\_Bounding\_Coordinate: -100.48034289

East\_Bounding\_Coordinate: -97.59198748

North\_Bounding\_Coordinate: 30.89581416

South\_Bounding\_Coordinate: 29.26549189

Keywords:

Theme:

Theme\_Keyword\_Thesaurus: None

Theme\_Keyword: recharge transition contributing edwards rules

Place:

Place\_Keyword\_Thesaurus: None

Place\_Keyword: Edwards Aquifer Recharge Zone, Texas

Stratum:

Stratum\_Keyword\_Thesaurus: None

Stratum\_Keyword: None

Temporal:

Temporal\_Keyword\_Thesaurus: None

Temporal\_Keyword: None

Access\_Constraints:

Use\_Constraints:

Point\_of\_Contact:

Data\_Set\_Credit:

Security\_Information:

Security\_Classification\_System: None  
Security\_Classification: Unclassified  
Security\_Handling\_Description: None

Native\_Data\_Set\_Environment: IRIX64, 6.5, IP30 UNIX, ARC/INFO version 8.0.1

Cross\_Reference:

Citation\_Information:

Originator:  
Publication\_Date:  
Publication\_Time:  
Title: Research Associate  
Edition:  
Geospatial\_Data\_Presentation\_Form:  
Series\_Information:  
Series\_Name:  
Issue\_Identification:  
Publication\_Information:  
Publication\_Place:  
Publisher:  
Other\_Citation\_Details:  
Online\_Linkage:

Data\_Quality\_Information:

Attribute\_Accuracy:

Attribute\_Accuracy\_Report: See Entity\_Attribute\_Information  
Quantitative\_Attribute\_Accuracy\_Assessment:  
Attribute\_Accuracy\_Value: See Explanation  
Attribute\_Accuracy\_Explanation:

Attribute accuracy is described, where present, with each attribute defined in the Entity and Attribute Section.

Logical\_Consistency\_Report: Polygon and chain-node topology present.

Completeness\_Report:

Positional\_Accuracy:

Horizontal\_Positional\_Accuracy:

Horizontal\_Positional\_Accuracy\_Report:  
Quantitative\_Horizontal\_Positional\_Accuracy\_Assessment:  
Horizontal\_Positional\_Accuracy\_Value: 40 ft.

Horizontal\_Positional\_Accuracy\_Explanation: Resolution as reported

Vertical\_Positional\_Accuracy:

Vertical\_Positional\_Accuracy\_Report:

Lineage: See also Supplemental\_Information:

Source\_Information:

Source\_Citation:

Citation\_Information:  
Originator:  
Publication\_Date:  
Title:

Source\_Scale\_Denominator: 24,000

Type\_Of\_Source\_Media:

Source\_Time\_Period\_of\_Content:

Time\_Period\_Information:  
Single\_Date/Time:  
Calendar\_Date:

Source\_Currentness\_Reference:

Source\_Citation\_Abbreviation:

Source\_Contribution:

Cloud\_Cover: Unknown

Spatial\_Data\_Organization\_Information:

Direct\_Spatial\_Reference\_Method: Vector

Point\_and\_Vector\_Object\_Information:

SDTS\_Terms\_Description:

SDTS\_Point\_and\_Vector\_Object\_Type: Point

Point\_and\_Vector\_Object\_Count: 11

SDTS\_Point\_and\_Vector\_Object\_Type: String

Point\_and\_Vector\_Object\_Count: 440

SDTS\_Point\_and\_Vector\_Object\_Type: GT-polygon composed of chains

Point\_and\_Vector\_Object\_Count: 12

Spatial\_Reference\_Information:

Horizontal\_Coordinate\_System\_Definition:

Planar:

Grid\_Coordinate\_System:

Grid\_Coordinate\_System\_Name:

Universal\_Transverse\_Mercator

UTM\_Zone\_Number: 14

Planar\_Coordinate\_Information:

Planar\_Coordinate\_Encoding\_Method: coordinate pair

Coordinate\_Representation:

Abscissa\_Resolution: 1.0

Ordinate\_Resolution: 1.0

Planar\_Distance\_Units: METERS

Geodetic\_Model:

Horizontal\_Datum\_Name: North American Datum of 1927

Ellipsoid\_Name: Clarke 1866

Semi-major\_Axis: 6378206.4

Denominator\_of\_Flattening\_Ratio: 294.98

Entity\_and\_Attribute\_Information:

Detailed\_Description:

Entity\_Type:

Entity\_Type\_Label: EDWARDS.PAT

Entity\_Type\_Definition: edwards rules recharge, contributing, and transition zones

Entity\_Type\_Definition\_Source: '7.5'' working maps'

Attribute:

Attribute\_Label: -

Attribute\_Definition: edwards rules recharge, contributing, and transition zones

Attribute\_Definition\_Source: '7.5'' working maps'

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: -

Enumerated\_Domain\_Value\_Definition:

Enumerated\_Domain\_Value\_Definition\_Source:

Attribute:

Attribute\_Label: AREA

Attribute\_Definition: Area of poly/region in square coverage units

Attribute\_Definition\_Source: Computed

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: Positive real numbers  
Enumerated\_Domain\_Value\_Definition:  
Enumerated\_Domain\_Value\_Definition\_Source:

Attribute:

Attribute\_Label: PERIMETER  
Attribute\_Definition: Perimeter of poly/region in coverage units  
Attribute\_Definition\_Source: Computed  
Attribute\_Domain\_Values:  
Enumerated\_Domain:  
Enumerated\_Domain\_Value: Positive real numbers  
Enumerated\_Domain\_Value\_Definition:  
Enumerated\_Domain\_Value\_Definition\_Source:

Attribute:

Attribute\_Label: EDWARDS#  
Attribute\_Definition: Internal feature number  
Attribute\_Definition\_Source: Computed  
Attribute\_Domain\_Values:  
Enumerated\_Domain:  
Enumerated\_Domain\_Value: Sequential unique positive integer  
Enumerated\_Domain\_Value\_Definition:  
Enumerated\_Domain\_Value\_Definition\_Source:

Attribute:

Attribute\_Label: EDWARDS-ID  
Attribute\_Definition: User-assigned feature number  
Attribute\_Definition\_Source: User-defined  
Attribute\_Domain\_Values:  
Enumerated\_Domain:  
Enumerated\_Domain\_Value: Integer  
Enumerated\_Domain\_Value\_Definition:  
Enumerated\_Domain\_Value\_Definition\_Source:

Attribute:

Attribute\_Label: CODE  
Attribute\_Definition: zone type 1 = recharge 2 = transition 3 =  
contributing  
Attribute\_Definition\_Source: '7.5'' working maps'  
Attribute\_Domain\_Values:  
Enumerated\_Domain:  
Enumerated\_Domain\_Value: 1,2,3  
Enumerated\_Domain\_Value\_Definition:  
Enumerated\_Domain\_Value\_Definition\_Source:

Distribution\_Information:

Metadata\_Reference\_Information:

Metadata\_Date: 19000829  
Metadata\_Contact:

Metadata\_Standard\_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata\_Standard\_Version: 19940608

Metadata\_Time\_Convention: Local Time

Metadata\_Security\_Information:

Metadata\_Security\_Classification\_System: None  
Metadata\_Security\_Classification: Unclassified  
Metadata\_Security\_Handling\_Description: None