## Vernal Pool Distribution - California's Great Valley - 2012 [ds1070]

File Geodatabase Feature Class

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#### Tags

Great Valley, Sacramento Valley, vernal pools, 2012, San Joaquin Valley, hogwallows, California

#### Summary

Map showing the distribution of vernal pool habitat in the Great Valley (California) as of 2012. It also analyzes losses since 2005 and contains information on vernal pool habitat that is protected.

#### **Description**

This mapping documents the changes in extent and condition of vernal pool habitat in the Great Valley between 2005 and 2012. "Vernal pool habitat" is defined as vernal pools and the surrounding upland (typically grassland) habitat matrix. The 2005 basemap was created by using double-blind mapping protocol and included 21.4 million acres in and surrounding the Sacramento and San Joaquin valleys (Witham et al 2013). The area included in the 2012 remapping effort focused on the 807,820 acres identified in the 2005 map and areas immediately surrounding the previously mapped polygons. Special attention was paid to areas where habitat was being created through mitigation banking. The result of the 2012 remapping shows 764,868 acres of extant habitat. This is down from 2005, a net reduction of 42,952 acres. Habitat actually was eliminated from 47,306 acres, but these losses were partially off-set by 1,679 acres of mitigation banks built since 2005, and by 2,675 acres that we missed in the 2005 mapping. In the seven years since the Recovery Plan was adopted, some 6,758 acres per year on average have been lost. (Link to Report and GIS Data) - <a href="http://www.vernalpools.org/">http://www.vernalpools.org/</a>

#### Credits

Carol W. Witham, Robert F. Holland and John Vollmar. 2014. Changes in the Distribution of Great Valley Vernal Pool Habitats from 2005 to 2012. Sacramento, CA. Report prepared for the U.S. Fish and Wildlife Service and Bureau of Reclamation CVPIA Habitat Restoration Program under Grant Agreement No. F11AP00169 with the USFWS.

#### **Use limitations**

Credit authors

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#### Extent

West -122.560934 East -118.889500 North 40.691536 South 35.375931

## **Scale Range**

Maximum (zoomed in) 1:5,000 Minimum (zoomed out) 1:150,000,000

#### **ArcGIS Metadata**

## **Topics and Keywords**

\* CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION NO

PLACE KEYWORDS Great Valley, Sacramento Valley, San Joaquin Valley, California

TEMPORAL KEYWORDS 2012

THEME KEYWORDS vernal pools, hogwallows

THEME KEYWORDS biota, environment

THESAURUS

TITLE ISO 19115 Topic Category

HideThesaurus

HideTopics and Keywords

## Citation

TITLE Vernal Pool Distribution - California's Great Valley - 2012 [ds1070] PUBLICATION DATE 2014-08-1300:00:00

PRESENTATION FORMATS \* digital map

HideCitation

## **Citation Contacts**

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CONTACT'S ROLE Originator

RESPONSIBLE PARTY
INDIVIDUAL'S NAME John Vollmar
CONTACT'S ROLE Originator

RESPONSIBLE PARTY
INDIVIDUAL'S NAME CAROI W. Witham
ORGANIZATION'S NAME California Native Plant Society
CONTACT'S ROLE Originator

RESPONSIBLE PARTY

Individual's name Carol W. Witham Contact's Position Co-author Organization's name California Native Plant Society Contact's role point of contact

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HideContact information

#### HideCitation Contacts

**Resource Details** 

DATASET LANGUAGES English (UNITED STATES)
DATASET CHARACTER SET Utf8 - 8 bit UCS Transfer Format

Status completed
Spatial representation type \* vector

The 2005 polygons were sketched onto 2005 NAIP imagery by two independent mappers: Carol W. Witham and Robert F. Holland. Maps were reconciled by the mappers on a polygon-by-polygon basis with the best boundaries and attributes for each discussed and chosen before moving onto the next polygon. For the remapping effort based on the 2012 imagery, Holland and Witham divided up the counties and proceeded to map changes. Each polygon was revisited in the 2012 imagery. If changes in land use had occurred, they were immediately visible in the photo. Where needed, the 2005 polygons were cut into smaller polygons to reflect 2012 conditions and the new geodatabase fields were populated. In some cases, additional habitat was identified-either newly created mitigation banks or habitat missed during the 2005 mapping. New polygons were created to reflect these additional areas of habitat.

\* Processing environment Microsoft Windows 10 Version 10.0 (Build 19044); Esri ArcGIS 12.9.3.32739

#### CREDITS

Carol W. Witham, Robert F. Holland and John Vollmar. 2014. Changes in the Distribution of Great Valley Vernal Pool Habitats from 2005 to 2012. Sacramento, CA. Report prepared for the U.S. Fish and Wildlife Service and Bureau of Reclamation CVPIA Habitat Restoration Program under Grant Agreement No. F11AP00169 with the USFWS.

ARCGIS ITEM PROPERTIES

- \* NAME ds1070
- ${\tt * Location file://\geodata.\BIOSOnline\Refresh\TODOData\BIOSOnline\Data.gdb} \\$
- \* Access Protocol Local Area Network

HideResource Details

#### **Extents**

EXTENT
DESCRIPTION
ground condition
TEMPORAL EXTENT
DATE AND TIME 2012-01-01

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching \* WEST LONGITUDE -122.560934

- \* EAST LONGITUDE -122.560934
- \* NORTH LATITUDE 40.691536
- \* SOUTH LATITUDE 35.375931
- \* EXTENT CONTAINS THE RESOURCE Yes

#### EXTENT IN THE ITEM'S COORDINATE SYSTEM

- \* WEST LONGITUDE -216562.833100
- \* EAST LONGITUDE 93889.755900
- \* SOUTH LATITUDE -290716.754600 \* NORTH LATITUDE 297258.917100
- \* EXTENT CONTAINS THE RESOURCE YES

HideExtents

#### **Resource Maintenance**

RESOURCE MAINTENANCE UPDATE FREQUENCY as needed

HideResource Maintenance

#### **Resource Constraints**

CONSTRAINTS LIMITATIONS OF USE

Credit authors

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HideResource Constraints

#### **Spatial Reference**

ARCGIS COORDINATE SYSTEM

- \* Type Projected
- \* GEOGRAPHIC COORDINATE REFERENCE GCS\_North\_American\_1983
- \* PROJECTION NAD\_1983\_California\_Teale\_Albers
- \* COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM Well-known identifier 3310

X ORIGIN -16909700

Y ORIGIN -8597000

**XY SCALE 10000** Z ORIGIN -100000

Z SCALE 10000

M ORIGIN -100000

M SCALE 10000

XY TOLERANCE 0.001

Z TOLERANCE 0.001 M TOLERANCE 0.001

HIGH PRECISION true

LATEST WELL-KNOWN IDENTIFIER 3310

WELL-KNOWN TEXT

PROJCS["NAD\_1983\_California\_Teale\_Albers",GEOGCS["GCS\_North\_American\_1983",DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137.0,298.257

#### REFERENCE SYSTEM IDENTIFIER

- \* VALUE 3310
- \* CODESPACE EPSG
- \* VERSION 6.8(9.2.0)

HideSpatial Reference

## **Spatial Data Properties**

\* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME ds1070

- OBJECT TYPE composite
- \* OBJECT COUNT 0

HideVector

ARCGIS FEATURE CLASS PROPERTIES

FEATURE CLASS NAME ds1070

- \* FEATURE TYPE Simple
- \* GEOMETRY TYPE Polygon
- \* HAS TOPOLOGY FALSE
- \* FEATURE COUNT 0
- \* SPATIAL INDEX TRUE
- \* LINEAR REFERENCING FALSE

HideArcGIS Feature Class Properties

HideSpatial Data Properties

#### **Data Quality**

SCOPE OF QUALITY INFORMATION RESOURCE LEVEL dataset

HideScope of quality information

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY **DIMENSION horizontal** 

#### QUANTITATIVE TEST RESULTS

VALUE Minimum Mapping Unit

#### EVALUATION METHOD

No minimum mapping unit was established prior to mapping. The map therefore suffers from shortfalls related to economy of scale. In small polygons, the mappers were more likely to subtract small cutouts for buildings, corrals or staging areas. In larger polygons, the same size cutout was often overlooked simply because it was small in proportion to the landscape being mapped.

HideData quality report - Absolute external positional accuracy

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY

DIMENSION vertical

MEASURE DESCRIPTION

N/A

HideData quality report - Absolute external positional accuracy

HideData Quality

#### **Geoprocessing history**

#### **PROCESS**

DATE 2022-09-0210:33:36

COMMAND ISSUED

Include in lineage when exporting metadata  $\hbox{No}$ 

#### **PROCESS**

DATE 2022-09-0210:34:00

TOOL LOCATION c:\program files\arcgis\pro\Resources\ArcToolbox\toolboxes\Data Management Tools.tbx\Project

COMMAND ISSUED

Include in lineage when exporting metadata No

#### **PROCESS**

DATE 2022-09-0210:34:20

 ${\tt Tool\_Location}\ c:\ program\ files\ arcgis\ pro\ Resources\ ArcToolbox\ toolboxes\ Data\ Management\ Tools. tbx\ Rename$ 

COMMAND ISSUED

Include in lineage when exporting metadata  ${\ensuremath{No}}$ 

HideGeoprocessing history

## **Distribution**

#### DISTRIBUTION FORMAT

\* NAME File Geodatabase Feature Class

#### TRANSFER OPTIONS

ONLINE SOURCE

LOCATION https://wildlife.ca.gov/Data/BIOS

FUNCTION PERFORMED INFORMATION

## ONLINE SOURCE

LOCATION https://www.vernalpool.org/

FUNCTION PERFORMED INFORMATION

#### ONLINE SOURCE

 ${\tt Location\ https://filelib.wildlife.ca.gov/Public/BDB/GIS/BIOS/Public\_Datasets/1000\_1099/ds1070.zip}$ 

FUNCTION PERFORMED download

HideDistribution

# Fields

DETAILS FOR OBJECT ds1070

Type Feature Class Row COUNT 2456

DEFINITION

Polygons representing vernal pool landscapes and individual vernal pools

**DEFINITION SOURCE** 

Witham/Holland

## FIELD OBJECTID

ALIAS OBJECTID
DATA TYPE OID
WIDTH 4
PRECISION 0
SCALE 0

#### 7/26/23, 12:39 PM

FIELD DESCRIPTION Internal feature number.

DESCRIPTION SOURCE

Esri

DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

#### HideFieldOBJECTID

## FIELD Shape

ALIAS Shape DATA TYPE Geometry

WIDTH 0

PRECISION 0

SCALE 0

FIELD DESCRIPTION

Feature geometry.

DESCRIPTION SOURCE

Esri

DESCRIPTION OF VALUES

Coordinates defining the features.

#### HideFieldShape

#### FIELD FEATURE

ALIAS FEATURE DATA TYPE SmallInteger WIDTH 2 PRECISION 0

Scale 0

FIELD DESCRIPTION

Vernal pool matrix or individual pool.

DESCRIPTION SOURCE Witham/Holland

LIST OF VALUES
VALUE 0

DESCRIPTION Vernal pool matrix

DESCRIPTION Individual vernal pool

## HideFieldFEATURE

#### FIELD COVER\_VPs

ALIAS COVER\_VPs DATA TYPE SmallInteger WIDTH 2

PRECISION 0

SCALE 0

FIELD DESCRIPTION

Cover of vernal pools by cover class.

DESCRIPTION SOURCE Witham/Holland

LIST OF VALUES

VALUE 0

DESCRIPTION <2% cover of vernal pools

## VALUE 1

DESCRIPTION 2-5% cover of vernal pools

## VALUE 2

DESCRIPTION 5-10% cover of vernal pools

#### VALUE 3

DESCRIPTION >10% cover of vernal pools

DESCRIPTION 100% (individual pool / stockpond)

## HideFieldCOVER\_VPs

# FIELD DENSITY\_VPs

ALIAS DENSITY VPs DATA TYPE SmallInteger

## 7/26/23, 12:39 PM

WIDTH 2
PRECISION 0
SCALE 0
FIELD DESCRIPTION
QUalitative density assessment.
DESCRIPTION SOURCE
Witham/Holland
LIST OF VALUES
VALUE 0
DESCRIPTION LOW

#### VALUE 1

DESCRIPTION Medium

VALUE 2
DESCRIPTION High

HideFieldDENSITY\_VPs

#### FIELD DIVERSITY VPs

ALIAS DIVERSITY\_VPS
DATA TYPE SmallInteger
WIDTH 2
PRECISION 0
SCALE 0
FIELD DESCRIPTION
QUalitative diversity assessment.
DESCRIPTION SOURCE
Witham/Holland
LIST OF VALUES
VALUE 0
DESCRIPTION LOW

VALUE 1
DESCRIPTION Medium

VALUE 2
DESCRIPTION High

HideFieldDIVERSITY\_VPs

## FIELD NUMBER\_LargePools

ALIAS NUMBER\_LargePools
DATA TYPE SmallInteger
WIDTH 2
PRECISION 0
SCALE 0
FIELD DESCRIPTION
Number of large pools per polygon.
DESCRIPTION SOURCE
Witham/Holland
LIST OF VALUES
VALUE 0
DESCRIPTION None in polygon

## VALUE 1

DESCRIPTION <1 per 640 acres

# VALUE 2

DESCRIPTION 1-3 per 640 acres

#### VALUE 3

DESCRIPTION 4+ per 640 acres

HideFieldNUMBER\_LargePools

## FIELD DISTURBANCE\_Area

ALIAS DISTURBANCE\_Area
DATA TYPE SmallInteger
WIDTH 2
PRECISION 0
SCALE 0
FIELD DESCRIPTION
COVER OF disturbance by cover class.
DESCRIPTION SOURCE

## 7/26/23, 12:39 PM

Witham/Holland LIST OF VALUES VALUE 0

DESCRIPTION <1% of polygon

#### VALUE 1

DESCRIPTION 1-5% polygon

#### VALUE 2

DESCRIPTION 5-25% of polygon

#### VALUE 3

DESCRIPTION 25-50% of polygon

#### VALUE 4

DESCRIPTION 50-99% of polygon

#### VALUE 5

DESCRIPTION 100% of polygon

HideFieldDISTURBANCE\_Area

## FIELD DISTURBANCE\_Type

ALIAS DISTURBANCE\_Type
DATA TYPE SmallInteger
WIDTH 2
PRECISION 0
SCALE 0
FIELD DESCRIPTION
Dominant type of disturbance.
DESCRIPTION SOURCE
Witham/Holland
LIST OF VALUES
VALUE 0

DESCRIPTION None / unknown

#### VALUE 1

DESCRIPTION Plowing, disking or grading

#### VALUE 2

DESCRIPTION OHV use

# VALUE 3

DESCRIPTION Ranch roads

## VALUE 4

DESCRIPTION Paved roads

#### VALUE 5

DESCRIPTION Ag runoff (altered hydrology)

## VALUE 6

DESCRIPTION Agricultural residential

#### VALUE

DESCRIPTION Managed wetlands (duck ponds)

## VALUE 8

DESCRIPTION Mitigation banks (created vernal pools)

 ${\it HideFieldDISTURBANCE\_Type}$ 

# FIELD DISTURBANCE\_Intensity

ALIAS DISTURBANCE\_Intensity
DATA TYPE SmallInteger
WIDTH 2
PRECISION 0
SCALE 0
FIELD DESCRIPTION
QUalitative assessment of intensity of disturbance.
DESCRIPTION SOURCE
Witham/Holland

HideFieldDISTURBANCE\_Intensity

#### FIELD HABITAT\_Notes

ALIAS HABITAT\_Notes
DATA TYPE String
WIDTH 50
PRECISION 0
SCALE 0
FIELD DESCRIPTION
NOtes on habitat observations.
DESCRIPTION SOURCE
Witham/Holland
HideFieldHABITAT\_Notes

#### FIELD MAPPING\_Notes

ALIAS MAPPING\_Notes
DATA TYPE String
WIDTH 50
PRECISION 0
SCALE 0
FIELD DESCRIPTION
Notes used during heads up digitizing.
DESCRIPTION SOURCE
Witham/Holland
HideFieldMAPPING\_Notes

# FIELD COUNTY

ALIAS COUNTY
DATA TYPE String
WIDTH 25
PRECISION 0
SCALE 0
FIELD DESCRIPTION
County in which habitat polygon occurs.
DESCRIPTION SOURCE
Witham/Holland
HideFieldCOUNTY

#### FIELD Acres

ALIAS ACRES
DATA TYPE DOUBLE
WIDTH 8
PRECISION 0
SCALE 0
FIELD DESCRIPTION
Acres calculated from Shape\_area.
DESCRIPTION SOURCE
Witham/Holland
ACCURACY INFORMATION
ACCURACY Calculated as Shape\_area/4046.825 m2/acre
HideFieldAcres

# FIELD Converted\_2012

ALIAS Converted\_2012
DATA TYPE String
WIDTH 50
PRECISION 0
SCALE 0

## $HideFieldConverted\_2012$

## FIELD Converted\_To\_2012

ALIAS Converted\_To\_2012
DATA TYPE SmallInteger
WIDTH 2
PRECISION 0

# HideFieldConverted\_To\_2012

# FIELD Converted\_Notes\_2012

ALIAS Converted\_Notes\_2012
DATA TYPE String
WIDTH 50
PRECISION 0

Scale 0

HideFieldConverted\_Notes\_2012

## FIELD Disturbance\_Area\_2012

ALIAS Disturbance\_Area\_2012
DATA TYPE SmallInteger
WIDTH 2
PRECISION 0
SCALE 0

HideFieldDisturbance\_Area\_2012

#### FIELD Disturbance\_Type\_2012

ALIAS Disturbance\_Type\_2012
DATA TYPE SmallInteger
WIDTH 2
PRECISION 0
SCALE 0

HideFieldDisturbance\_Type\_2012

#### FIELD Disturbance\_Intensity\_2012

ALIAS Disturbance\_Intensity\_2012
DATA TYPE SmallInteger
WIDTH 2
PRECISION 0
SCALE 0

HideFieldDisturbance\_Intensity\_2012

#### FIELD Land\_Use\_Area

ALIAS Land\_Use\_Area
DATA TYPE SmallInteger
WIDTH 2
PRECISION 0
SCALE 0

HideFieldLand\_Use\_Area

#### FIELD Surrounding\_Land\_Use\_1

ALIAS Surrounding\_Land\_Use\_1
DATA TYPE SmallInteger
WIDTH 2
PRECISION 0
SCALE 0

HideFieldSurrounding\_Land\_Use\_1

# FIELD Surrounding\_Land\_Use\_2

ALIAS Surrounding\_Land\_Use\_2
DATA TYPE SmallInteger
WIDTH 2
PRECISION 0
SCALE 0

HideFieldSurrounding\_Land\_Use\_2

## FIELD Surrounding\_Land\_Use\_3

ALIAS Surrounding\_Land\_Use\_3
DATA TYPE SmallInteger
WIDTH 2
PRECISION 0
SCALE 0

HideFieldSurrounding\_Land\_Use\_3

FIELD New\_Notes

ALIAS New\_Notes DATA TYPE String **WIDTH 50** PRECISION 0 SCALE 0

HideFieldNew\_Notes

FIELD Shape\_Length

ALIAS Shape\_Length DATA TYPE Double WIDTH 8 PRECISION 0 SCALE 0 FIELD DESCRIPTION Length of feature in internal units. **DESCRIPTION SOURCE** 

DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

HideFieldShape\_Length

FIELD Shape\_Area

ALIAS Shape\_Area DATA TYPE Double WIDTH 8 PRECISION 0 Scale 0 FIELD DESCRIPTION Area of feature in internal units squared. DESCRIPTION SOURCE

DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

HideFieldShape\_Area

HideDetails for objectds1070

HideFields

## References

AGGREGATE INFORMATION ASSOCIATION TYPE CROSS reference

AGGREGATE RESOURCE NAME

TITLE Changes in the Distribution of Great Valley Vernal Pool Habitats from 2005 to 2012

RESPONSIBLE PARTY ORGANIZATION'S NAME Robert F. Holland CONTACT'S ROLE Originator

RESPONSIBLE PARTY ORGANIZATION'S NAME Carol W. Witham CONTACT'S ROLE Originator

RESPONSIBLE PARTY ORGANIZATION'S NAME John Vollmar CONTACT'S ROLE originator

RESPONSIBLE PARTY CONTACT'S ROLE publisher

CONTACT INFORMATION Address DELIVERY POINT Sacramento, CA

HideContact information

HideAggregate resource name

## HideReferences

**Metadata Details** 

METADATA LANGUAGE English(UNITED STATES)
METADATA CHARACTER SET Utf8 - 8 bit UCS Transfer Format

Scope of the data described by the metadata dataset Scope name  $\ast$  dataset

\* LAST UPDATE 2022-09-02

ARCGIS METADATA PROPERTIES
METADATA FORMAT ARCGIS1.0
STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2022-09-0210:33:53
LAST MODIFIED IN ARCGIS FOR THE ITEM 2022-09-0210:33:34

AUTOMATIC UPDATES
HAVE BEEN PERFORMED YES
LAST UPDATE 2022-09-0210:33:34

HideMetadata Details

#### **Metadata Contacts**

METADATA CONTACT
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CONTACT'S POSITION CO-author
ORGANIZATION'S NAME California Native Plant Society
CONTACT'S ROLE Point of Contact

CONTACT INFORMATION PHONE VOICE 916-452-5440

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Administrative area CA
Postal code 95816-5415
Country US
E-mail address cwitham@ncal.net

HideContact information

HideMetadata Contacts

## **Metadata Maintenance**

MAINTENANCE
UPDATE FREQUENCY not planned

HideMetadata Maintenance

## **Thumbnail and Enclosures**

THUMBNAIL

HideThumbnail and Enclosures