

**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Oregon State Office
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Portland, OR 97208**

In Reply Refer to:

6400, 1210 (OR-932/933/955) P

May 14, 2003

EMS TRANSMISSION 05/15/2003
Information Bulletin No. OR-2003-153

To: District Managers, Staff and Branch Chiefs
From: Deputy State Director for Resource Planning, Use, and Protection
Subject: Areas of Critical Environmental Concern Geographic Information System DD: 07/09/2003
Theme

In order to develop corporate level geospatial data for Areas of Critical Environmental Concern, the attached standard has been developed.

This data is needed across western Oregon in order to respond to the Regional Interagency Executive Committee request to update Northwest Forest Plan land use allocations (<http://web.or.blm.gov/records/im/2003/im-or-2003-001.htm>). Since this allocation is common across all of the Resource Management Plans, compiling this data to a consistent standard across all of Oregon and Washington is also needed.

All Field Offices are requested to create Geographic Information System (GIS) data to these standards by 07/09/2003. Technical instructions for creation of this data are posted on the Oregon State Office GIS website (http://web.or.blm.gov/gis/projects/other_projects/luu.asp). All Field Offices must also designate a data steward (one per office) who will be responsible for this data. Stewardship responsibilities are outlined in Information Bulletin No. OR-2003-042 (<http://web.or.blm.gov/records/ib/2003/ib-or-2003-042.htm>).

Comments and suggestions on these standards may be provided for consideration for future enhancements to these themes.

Contacts: The name of the designated data steward and comments on the standards should be submitted to Chris Cadwell (OR932; (541) 683-6120). Technical questions related to the GIS data should be referred to David Haney (OR955; (503) 808-6429).

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Districts with Unions are reminded to notify their unions of this Information Bulletin and satisfy any bargaining obligations before implementation. Your servicing Human Resources Office or Labor Relations Specialist can provide you assistance in this matter.

Signed by
Judy Ellen Nelson

Authenticated by
Mary O'Leary

(Acting)

Management Assistant

1 Attachment

1 - [Areas of Critical Environmental Concern](#) (12 pp)

Distribution

WO-210 (Room 1050 LS)

OR-931 (Joan Seevers)

OR-932 (Chris Cadwell, Nancy Diaz, Duane Dippon)

OR-933 (Leslie Frewing-Runyon, Eric Stone, Harold Belisle)

OR-955 (David Haney, Stan Frazier, Chris North)

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Areas of Critical Environmental Concern

Includes ACEC, Secondary ACEC, ONA and RNA

April 18, 2003

THEME and DATA BASE INFORMATION	
Title:	Area of Critical Environmental Concerns
Feature Data Set:	ACEC.polygon
Feature Class:	Unknown at this time
Feature Class Alias:	Unknown at this time
Format:	SDE (multi user RDBMS table based database)
Theme Group:	Boundaries
Abbreviation:	ACEC.poly and ACEC.line
Location (Machine/Drive)	
Storage:	Oregon/Washington Corporate SDE
Check Out	Unknown at this time
Description:	<p>Special Management Areas (ACEC) contains distributions of Primary Area of Environmental Concern, Secondary Areas ACEC, Research Natural Areas, and Outstanding Natural Areas in Oregon BLM.</p> <p>Attributes are provided that give basic information about the Designation Process, designation date, plan date, designated acres, special value, off-highway vehicle designation, leasable mineral entry and locatable/salable mineral entry.</p>
Database Link to Theme:	ACEC_CN A simple identifier that has no intrinsic value other than imparting a unique identifying label to each polygon. Each record can be assigned a unique ACEC_CN number that is tied to the associated spatial data. This ID may be a linking field to external databases or other sources of information.
Database Location:	None Defined
Access Restrictions:	This layer does not contain any sensitive information that might be withheld under the Freedom of Information Act and is considered releasable to the public.
Use Restrictions:	None FOIA Category = Public
Metadata/Themes/People Consulted:	<p>Woddb Hand Book National Standard for National Conservation Areas User Input: Chris Cadwell, Margaret Wolf, Salem Recreation Group Bureau of Land Management Geospatial Data Clearinghouse http://www1.or.blm.gov/metaweb/smms.asp</p> <p>BLM Manual 1613 (ACEC 9/29/1988)</p> <p>National Park Service http://www.nps.gov/gis/metadata/boha/acecs.html#5</p> <p>Colorado BLM GIS http://www.co.blm.gov/metadata/co_acec.htm Nevada BLM GIS http://www.nv.blm.gov/gis/metadata/acecp.htm Wyoming BLM GIS http://www.wy.blm.gov/gis/metadata/pfo_acecp.html#5</p> <p>Other sites http://130.64.36.76/website/mystic/meta-inf/21.htm</p>

	http://www.dot.co.pima.az.us/gis/data/contents/metafield.cfm?name=acec
Metadata Location:	Required, full Federal Geographic Data Committee (FGDC) compliant.
DATA STEWARDSHIP	
State Data Steward:	Joan Seevers – OR931 - (503) 808-6048 Leslie Frewing-Runyon OR933 - (503) 808-6088
Monitoring Level:	The State Data Steward in conjunction with the District Data Stewards are responsible for reviewing the ACEC theme across the state at least once per year. Suggested checks include the following: (1) consistency between districts in attributing (same values used to mean same thing- data collection methods can be different as long as attributes used consistently), (2) progress toward similar levels of accuracy, (3) areas lacking adequate inventory or currency.
GIS Technical Lead:	Mark S. Koski (503) 375-5604 Salem District GIS Coordinator David Haney (503) 808-6429 OSO 955.2 Arthur Miller (503) 808-6113 OSO 955.2
Document Name:	
COVERAGE INFORMATION	
Spatial Domain:	This theme shows ACEC's for BLM-managed lands in Washington and Oregon.
Frequency Of Update:	Once the ACEC theme has been created it is the responsibility of the District Data Steward to ensure that the theme remains current. Bringing the theme up to a current level should take place at least once per year if not more frequently. It is also the responsibility of the Data Steward to ensure that any database external to the GIS be kept current and consistent. Updates to the ACEC theme will take place when there is either a new or a change in designation either spatiality or in any status change of the attributes.
Update Transactions:	The unit of processing for updating the ACEC theme is the district. This means that editors within the districts to update the theme will initiate district-wide transactions. Editors will "check-out" their district's ACEC theme features. They will then add, delete or modify the features prior to "check-in". The district GIS Coordinator will approve update processes and provide assistance and oversight.
Spatial Data Source:	Best available source with a target source scale of 1:24k matched to Oregon and Washington BLM, GIS database.
Collection and Input Protocols:	The District Data Steward will develop standard field data collection methods and work with the GIS Coordinator to develop corresponding standard GIS input methods. The most common methods of entry of ACEC by Manuscripting onto a map base (either paper or on-screen with DRG or DOQ backdrop) or getting lines from LLI or other themes.
Horizontal Accuracy:	Targeted to National Map Accuracy Standards (NMAS)
Coordinate System data was captured at: A complete Arc/Info projection file is required	NAD_1927_UTM_Zone_10N Transverse_Mercator False_Easting: 500000.000000 False_Northing: 0.000000 Central_Meridian: -123.000000 Scale_Factor: 0.999600 Latitude_Of_Origin: 0.000000

	<p>or</p> <p>NAD_1927_UTM_Zone_11N Transverse_Mercator False_Easting: 500000.000000 False_Northing: 0.000000 Central_Meridian: -117.000000 Scale_Factor: 0.999600 Latitude_Of_Origin: 0.000000</p>	
Units of Measure	Meters.	
Precision	Double Precision	
Coordinate System of the database: A complete Arc/Info projection file is required	BLM OR/WA Geographic Coordinate System Decimal Degrees – Coordinate System: GEOGCS GCS_North_American_1983 Datum: D_North_American_1983 Spheroid: GRS_1980",6378137.0,298.257222101 Prime Meridian: Greenwich",0.0 Units: Degree, 0.0174532925199433	
Units of Measure	To be determined	
TOPOLOGY TOLERANCES	Value	Verified or Default
Fuzzy	To be determined	To be determined
Dangle	To be determined	To be determined
ArcEdit TOLERANCES	Value	Verified or Default
Edit	To be determined	To be determined
Grain	To be determined	To be determined
Node Snap	To be determined	To be determined
Snap	To be determined	To be determined
Tic Match	To be determined	To be determined
Weed	To be determined	To be determined

Area of Critical Environmental Concern Attribute Structure for ACEC polygons

Feature Class: Polygon (ACEC.PAT)

ITEM NAME	Alias (.Pat)	Input Width	Output Width	Decimal Places	Type	Attribute Status
ACEC_NAME	ACEC NAME	50	50		C	National Standard NCA
ACEC_STATE	ADMINISTRATIVE STATE	2	2		C	National Standard NCA
ACEC_TYPE	MANAGEMENT TYPE	25	25		C	OR/WA Standard
ACEC_DS_PRO	DESIGNATION PROCESS	20	20		C	OR/WA Standard
ACEC_DS_DATE	DESIGNATION DATE	8	8		D	OR/WA Standard
ACEC_PL_DATE	MANAGEMENT PLAN DATE	8	8		D	OR/WA Standard
ACEC_DS_AC	DESIGNATED ACRES	10	10	0	I	OR/WA Standard
ACEC_VALUE	SPECIAL VALUE	35	35		C	OR/WA Standard
ACEC_ORV	OFF ROAD VEHICLE DESIGNATION	8	8		C	OR/WA Standard
ACEC_HARV	HARVEST LAND BASE	3	3		C	OR/WA Standard
ACEC_LE_MIN	LEASABLE MINERAL ENTRY	12	12		C	OR/WA Standard
ACEC_LO_MIN	LOCATABLE MINERAL ENTRY	12	12		C	OR/WA Standard
ACEC_SA_MIN	SALABLE MINERAL ENTRY	12	12		C	Salable Mineral Entry
ACEC_CN	CONTROL NUMBER	15	15		C	OR/WA Standard

Area of Critical Environmental Concern Attribute Structure for ACEC Poly
 Feature Class: *Polygon* (ACEC.POLY)

ITEM NAME	Alias (line)	Null Values Allowed	Default Value
ACEC_NAME	ACEC Name	No	None
ACEC_STATE	Administrative State	No	None
ACEC_TYPE	Management Type	No	None
ACEC_DS_PRO	Designation Process	No	None
ACEC_DS_DATE	Designation Date	No	None
ACEC_PL_DATE	Management Plan Date	Yes	None
ACEC_DS_AC	Designated acres	No	None
ACEC_VALUE	Special Value	Yes	None
ACEC_ORV	Off Road Vehicle Designation	Yes	None
ACEC_HARV	Harvest land base	Yes/No*	None
ACEC_LE_MIN	Leasable Mineral Entry	Yes	None
ACEC_LO_MIN	Locatable Mineral Entry	Yes	None
ACEC_SA_MIN	Salable Mineral Entry	Yes	None
ACEC_CN	Control Number	Yes	None

* Required only for Western Oregon Districts

Area of Critical Environmental Concern Attribute Domain for ACEC polygons

ACEC_NAME Required FOIA Category = Public	ACEA Name This value refers to the official name of the Special Management Areas. It may contain spaces, plus a combination of upper and lowercase alpha characters. Inholding polygons should be labeled Inholding.
Yellow Bottom	Name of ACEC
ACEC_STATE Required FOIA Category = Public Coded DOMAIN	Administrative State Office This value refers to the BLM administrative State Office for the Wild and Scenic River. This field should be the two-digit uppercase code for the state. For example, OR.
OR	Oregon/Washington
ID	Idaho
NV	Nevada
CA	California
ACEC_TYPE Required FOIA Category = Public Coded DOMAIN	Special Management Area Type If the area has more than one designation type it may be chained together in alphabetical order with a /. For example ACEC/ONA/RNA
ACEC	Primary Area of Environmental Concern
ACEC_SEC	Protection Area (Secondary Area ACEC) Usually a secondary habitat to protection buffer to the primary ACEC.
ONA	Outstanding Natural Area
RNA	Research Natural Area
ACEC_DS_PRO Required FOIA Category = Public Coded DOMAIN	Designation Process
RMP	Resource Management Plan
RMPA	Resource Management Plan Amendment
OTHER	Other
ACEC_DS_DATE Required FOIA Category = Public	Designation Date Date which the RMP, RMP amendment, or other designation process occurred.
YYYYMMDD	(YYYYMMDD). For example: 19950415 is April 15, 1995.
ACEC_PL_DATE Optional FOIA Category = Public	Management Plan Date The date for ACEC management/activity plan.
YYYYMMDD	(YYYYMMDD). For example: 19950415 is April 15, 1995.

ACEC_DS_AC Required FOIA Category = Public	Designated acres of the ACEC Acreage identified in the designation process of the ACEC. This is the historical designated acres and may be different than the area of the ACEC polygon. This field may be the same acres for more than one polygon and be comprised of multiple polygons with the same ACEC acres. Do not use this field to determine the sum of the area of single or multiple designations.
999999	Designated Acres
ACEC_VALUE Optional FOIA Category = Public Coded DOMAIN	Special Value If the area has more than one special value it may be chained together in alphabetical order with a /. For example CULT/SC/NH
BOT	Botanical
CULT	Cultural
FW	Fish and Wildlife
HIST	Historical
NP	Natural Processes / Systems
NHC	Natural Heritage Program Cell
NH	Natural Hazards
SC	Scenic
ACEC OHV Optional FOIA Category = Public Coded DOMAIN	Off Highway Vehicle Designation
OPEN	Open to OHV
CLOSED	Closed to OHV
LIMITED	Limited access to OHV
ACEC_HARV Required (W. Oregon Districts Only) FOIA Category = Public	Harvest Land Base
IN	In the Harvest Land base (Lands included in the calculation of the Allowable Sale Quantity)
OUT	Out of the Harvest base. (Lands excluded in the calculation of the Allowable Sale Quantity)
ACEC_LE_MIN Optional FOIA Category = Public Coded DOMAIN	Leasable Mineral Entry
OPEN NSO	Open - No surface occupancy
OPEN STD	Open - Standard Stipulations
OPEN CSU	Open - Controlled Surface Use
OPEN SRS	Open - Seasonal Restricted
CLOSED	Closed

NO FEDERAL	Mineral resource not federally administered
ACEC_LO_MIN Optional FOIA Category = Public Coded DOMAIN	Locatable Salable Mineral Entry
OPEN	Open
OPEN-RES	Open, with restrictions
CLOSED	Closed
NOT FEDERAL	Mineral resource not federally administered
ACEC_SA_MIN Optional FOIA Category = Public Coded DOMAIN	Salable Mineral Entry
OPEN	Open
CLOSED	Closed
NO FEDERAL	Mineral resource not federally administered
ACEC_CN Optional FOIA Category = Public	Control Number Control number to uniquely identify each feature. OR/WA BLM Districts units establish this number. It is used to link the spatial data to an external database.
Example: OR080-0001	A unique code established by each District. An example could be: State Code District Code – Number A simple identifier that has no intrinsic value other than imparting a unique identifying label to each polygon. Each record is assigned a unique ACEC_CN number that is tied to the associated spatial data. This ID may be a linking field to external databases or other sources of information.

Area of Critical Environmental Concern Attribute Structure for ACEC lines

Feature Class: *arc* (ACEC.aat)

ITEM NAME	Alias (.aat)	Input Width	Output Width	Decimal Places	Type	Attribute Status
ACEC_LINE_TYPE	ACEC LINE TYPE	25	25		C	OR/WA Standard
ACEC_DEF_FEAT	DEFINING FEATURES	30	30		C	OR/WA Standard
ACEC_COORD_SRC	COORDINATE SOURCE	20	20		C	OR/WA Standard
ACEC_ACCURACY	ACCURACY	2	2	0	I	OR/WA Standard
ACEC_SRC_DATE	GIS SOURCE DATE	8	8		D	OR/WA Standard
ACECL_CN	CONTROL NUMBER	12	12		C	OR/WA Standard

Area of Critical Environmental Concern Attribute Structure for ACEC Line

Feature Class: *Line* (ACEC.LINE)

ITEM NAME	Alias (line)	Null Values Allowed	Default Value
ACEC_LINE_TYPE	ACEC Line Type	No	None
ACEC_DEF_FEAT	Defining Features	No	None
ACEC_COORD_SRC	Coordinate Source	No	None
ACEC_ACCURACY	Accuracy	Yes	None
ACEC_SRC_DATE	GIS Source Date	Yes	None
ACECL_CN	Control Number	Yes	None

Area of Critical Environmental Concern Attribute Domain for ACEC lines

ACEC_LINE_TYPE Required FOIA Category = Public	ACEC Line Type If the line has more than one line type it may be chained together in alphabetical order with a /. For example ACEC/ONA/RNA
ACEC	Lines that make up the outside boundary of the Primary Area of Environmental Concern
ACEC_SEC	Lines that make up the outside boundary of the secondary protection area.
ONA	Lines that make up the outside boundary of the Outstanding Natural Area
RNA	Lines that make up the outside boundary of the Research Natural Area
OTH	Interior lines that do not make up the outside boundary of ACEC, ACEC_SEC, ONA or RNA.
ACEC_DEF_FEAT Required FOIA Category = Public	Defining Features The type of physical feature that defines the DATA LAYER area line segment. This value refers to the natural, manmade, or mapping feature that represents the ACEC. This value is recorded on each arc. This field is used when coincident lines are part of the ACEC boundary. For example, if a portion of the trail follows a contour line.
ROAD	A road forms the boundary for this line segment.
ROADBUFFERXXXX	The boundary is a buffer line XXX feet in from a road.
RIGHT-OF-WAY	A legal road right of way forms the boundary for this line segment.
RIM	A rim forms the boundary for this line segment.
CONTOURXXXX	A contour line forms the boundary for this line segment. The "XXXX" is the contour elevation in feet (contour 2200 = a contour line at 2200 feet in elevation).
TRAIL	A trail forms the boundary for this line segment.
FENCE	A fence forms the boundary for this line segment.
RIDGE	A ridge forms the boundary for this line segment.
STREAM	A stream forms the boundary for this line segment.
POWERLINE	A powerline forms the boundary for this line segment.
SUBDIVISION	A GCDB based boundary.
EDGE-OF-LAVA	The edge of a lava flow forms the boundary for this line segment.
MEANDER-LINE	A lake meander line (when not defined by GCDB) forms the boundary for this line segment.
MEDIAL-LINE	A lake medial line forms the boundary for this line segment.
DRAINAGE	Drainage forms the boundary for this line segment.
LAVA&SEEDING	The boundary follows the edge of lava and a seeding.
XXXXX	For Features not on the list call Stan Frazier

ACEC_COORD_SRC Required FOIA Category = Public	Coordinate Source The source (in general terms) of the DATA LAYER linework. If coordinate source is a BLM master data layer, refer to master data layer by name.
Manuscript	Hand drawn feature not represented by line work in a reference theme. (Needs accuracy)
GPS	GPS captured feature. (Needs accuracy)
COB	COB = County Boundaries data layer
DOB	DOB = District Boundaries data layer
GTRN	GTRN = Transportation data layer
LLI	LLI = Land Line Inventory data layer
STREAMS	STREAMS = Hydrography data layer
LAKES	LAKES = Double Lined Streams or Lakes
GCDB	GCDB = linework snapped to geographic coordinate database points
DOQ	DOQ = linework where to digital orthoquad was used as a reference layer. (Needs accuracy)
24K DLG	24K DLG = linework from 24K digital line graph data (such as streams and roads)
24K DRG	24K DRG = linework from digitizing USGS 24K digital raster graphs (topo maps). (Needs accuracy)
XXXXXX	For Features not listed add the theme code or call Stan Frazier
ACEC_ACCURACY Required FOIA Category = Public	Accuracy Locational accuracy code that indicates how close to the true geographic location on the ground a GIS entity has been recorded. There are two aspects to accuracy: the tools used to get spatial entities into a GIS (turned into digital representations), and the actual accuracy - how far off (+ or - feet) is the digital product. Three types of tools are recognized: GPS (global positioning system), manuscripting onto a map or photo, and legal descriptions using Township, Range, and Section.
DOMAIN	See ACEC_COOR_SRC on where to apply
1	GPS within 3 Feet
2	GPS within 30 Feet
3	GPS within 300 Feet
4	Manuscripted within 40 Feet
5	Manuscripted within 100 Feet
6	Manuscripted within 150 Feet
7	Manuscripted within 300 Feet
8	Manuscripted within 660 Feet
9	Manuscripted within 1320 Feet
10	Manuscripted within one-half mile
11	Manuscripted best estimate with no distance limit indicated
COOR_SRC_DATE Required FOIA Category = Public	GIS Source Date The vintage (in general terms) of the coordinate source materials. The date should represent the timeliness of the information portrayed in the Coordinate Source field.
19950415	(YYYYMMDD). For example: 19950415 is April 15, 1995

ACEC_CN Optional FOIA Category = Public	Control number Uniquely identify each feature. OR/WA BLM Districts units establish this number. It is used to link the spatial data to an external database.
Example: OR080-0001	A unique code established by each District. An example could be: State Code District Code - Number