

r294_flown_shp

Metadata also available as

Metadata:

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 - [Spatial Reference Information](#)
 - [Entity and Attribute Information](#)
 - [Distribution Information](#)
 - [Metadata Reference Information](#)
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Identification_Information:

Citation:

Citation_Information:

Originator:

USDA Forest Service, Rocky Mountain Region, Forest Health Management

Publication_Date: January 15, 1995

Title: r294_flown_shp

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: <<http://www.fs.fed.us/r2/resources/fhm/aerialsurvey/>>

Larger_Work_Citation:

Citation_Information:

Originator:

USDA Forest Service, Rocky Mountain Region, Forest Health
Management

Publication_Date: 1950 to present

Title: Annual Aerial Detection Overview Survey

Edition: 1994

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage:

<<http://www.fs.fed.us/r2/resources/fhm/aerialsurvey/>>

Description:

Abstract:

1994 USDA Forest Service, Rocky Mountain Region Aerial Detection Survey
Data. "Flown/ not flown" (r294_flown) feature class. This data depicts the spatial

extent where the 1994 aerial detection survey took place.

This data set is a companion to the r294_dmg data, which depicts the occurrence and location of 1994 forest insect, disease, and other biotic and abiotic causes of tree mortality and tree damage. The r294_flown data set provides information on which areas were surveyed, when the areas were surveyed, who the surveyors were (and their respective agencies), and what type of survey took place. Air turbulence, cloud shadows, distance from aircraft, haze, smoke, etc., which affect survey accuracies, may also be noted.

A companion handbook entitled "Aerial Survey Geographic Information System Handbook" should be obtained before using this data set. The handbook is available online at: <http://www.fs.fed.us/foresthealth/publications/id/gishandbook.pdf>.

This handbook also serves as a data dictionary necessary for deciphering field codes.

Purpose:

Aerial survey data sets are created annually to provide trend information on forest insects, diseases, and other biotic and abiotic causes of tree mortality and tree damage; referred to herein as "damage causal agents". Aerial surveys provide information on the current status for many causal agents, and are important when examining insect activity trends by comparing historical and current survey data over large areas.

Supplemental_Information:

It is important to view the r294_flown feature class in conjunction with the r294_dmg feature class in order to determine, for example, if the area in question is actually comprised of no tree mortality/ damage, or simply a case where the area was not aerially surveyed.

****NOTE**** The spatial extent of r294_flown feature class polygons often includes non-forested areas. This is due to the way the data is collected (i.e., the line feature from the aircraft's GPS flight track record is buffered by a predetermined distance regardless if the actual area on the ground is forested or not). It would be a mistake to count the acres within the r294_flown feature class as "acres flown" or "acres surveyed" without the incorporation of a vegetation layer.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 1994 (summer field season)

Currentness_Reference: publication date

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

*Bounding_Coordinates:**West_Bounding_Coordinate:* -108.891326*East_Bounding_Coordinate:* -104.878806*North_Bounding_Coordinate:* 39.436462*South_Bounding_Coordinate:* 36.989078*Keywords:**Theme:**Theme_Keyword_Thesaurus:* None*Theme_Keyword:* aerial survey*Theme_Keyword:* aerial detection survey*Theme_Keyword:* area flown*Theme_Keyword:* area not flown*Theme_Keyword:* forest health*Theme_Keyword:* forest health management*Theme_Keyword:* forest health protection*Theme_Keyword:* forest health monitoring*Theme_Keyword:* USDA Forest Service*Theme_Keyword:* spatial extent*Theme_Keyword:* date surveyed*Theme_Keyword:* surveyor*Theme_Keyword:* surveying agency*Theme_Keyword:* type of survey*Theme_Keyword:* special survey*Theme_Keyword:* overview survey*Place:**Place_Keyword:* Rocky Mountain Region*Place_Keyword:* Colorado*Place_Keyword:* Wyoming*Place_Keyword:* South Dakota*Place_Keyword:* Nebraska*Place_Keyword:* Kansas*Place_Keyword:* Region 2*Temporal:**Temporal_Keyword:* 1994*Access_Constraints:*

The "flown/ not flown" data is available digitally from the USDA Forest Service, Rocky Mountain Region, Forest Health Management group. The cooperators reserve the right to correct, update, modify or replace GIS products. Using this data for purposes other than those for which it was intended may yield inaccurate or misleading results.

The accompanying r294_dmg GIS data set should be used in conjunction with this data set. The r294_dmg data set depicts the occurrence and location of 1994 forest insect, disease, and other biotic and abiotic causes of tree mortality and tree damage.

Use_Constraints:

The "flown/ not flown" data is available digitally from the USDA Forest Service, Rocky Mountain Region, Forest Health Management group. The cooperators reserve the right to correct, update, modify or replace GIS products. Using this data for purposes other than those for which it was intended may yield inaccurate or misleading results.

The accompanying r294_dmg GIS data set should be used in conjunction with this data set. The r294_dmg data set depicts the occurrence and location of 1994 forest insect, disease, and other biotic and abiotic causes of tree mortality and tree damage.

*Point_of_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:*

USDA Forest Service, Rocky Mountain Region, Forest Health Management

Contact_Person: Erik Johnson*Contact_Position:* Aerial Survey Program Manager*Contact_Address:*

Address_Type: physical address

Address: USDA Forest Service

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Hours_of_Service: 09:00-16:00 MST

Contact_Instructions: email is preferred

Native_Data_Set_Environment:

Microsoft Windows 2000 Version 5.0 (Build 2195) Service Pack 4; ESRI ArcCatalog 9.0.0.535

Data_Quality_Information:

Lineage:

Process_Step:

Process_Description: Metadata imported.

Source_Used_Citation_Abbreviation:

C:\gis_data\airial_survey\1994\r294_dmgs.shp.xml

Process_Step:

Process_Description: Metadata imported.

Source_Used_Citation_Abbreviation:

C:\a_data\airial_survey\1994\r294_flown.shp.xml

Process_Step:

Process_Description: Metadata imported.

Source_Used_Citation_Abbreviation:

C:\a_data\airial_survey\1994\r294_flown.shp.xml

Process_Step:

Process_Description: Dataset copied.

Source_Used_Citation_Abbreviation:

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: G-polygon

Point_and_Vector_Object_Count: 7

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Grid_Coordinate_System:

Grid_Coordinate_System_Name: Universal Transverse Mercator

Universal_Transverse_Mercator:

UTM_Zone_Number: 13

Transverse_Mercator:

Scale_Factor_at_Central_Meridian: 0.999600

Longitude_of_Central_Meridian: -105.000000

Latitude_of_Projection_Origin: 0.000000

False_Easting: 500000.000000

False_Northing: 0.000000

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair

Coordinate_Representation:

Abscissa_Resolution: 0.000512

Ordinate_Resolution: 0.000512

Planar_Distance_Units: meters

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983

Ellipsoid_Name: Geodetic Reference System 80

Semi-major_Axis: 6378137.000000

Denominator_of_Flattening_Ratio: 298.257222

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: r294_flown_shp

Entity_Type_Definition:

USDA Forest Service Region 2 1994 area flown/ not flown polygons

Entity_Type_Definition_Source:

Aerial Survey Geographic Information System Handbook (available online at: <http://www.fs.fed.us/foresthealth/publications/id/gishandbook.pdf>)

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: END_DATE2

Attribute_Definition:

Ending date for survey flown (used only for polygons with more than one attribute)

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B & C

Attribute:

Attribute_Label: END_DATE3

Attribute_Definition:

Ending date for survey flown (used only for polygons with three attributes)

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B & C

Attribute:

Attribute_Label: R294_FLO_

Attribute:

Attribute_Label: R294_FLO_I

Attribute:

Attribute_Label: SURVEYOR1

Attribute_Definition: List of aerial surveyors

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

Attribute:

Attribute_Label: SURVEYOR2

Attribute_Definition:

List of aerial surveyors (used only for polygons with more than one attribute)

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

Attribute:

Attribute_Label: SURVEYOR3

Attribute_Definition:

List of aerial surveyors (used only for polygons with three attributes)

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

Attribute:

Attribute_Label: AGENCY1

Attribute_Definition: Acronym identifier for agency responsible for flight.

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

Attribute:

Attribute_Label: AGENCY2

Attribute_Definition:

Acronym identifier for agency responsible for flight (used only for polygons with more than one attribute).

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B and

Appendix C.

*Attribute:**Attribute_Label:* AGENCY3*Attribute_Definition:*

Acronym identifier for agency responsible for flight (used only for polygons with three attributes).

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:**Attribute_Label:* PURPOSE3*Attribute_Definition:*

Purpose of aerial survey (used only for polygons with three attributes).

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:**Attribute_Label:* FLIGHT_NOT*Attribute_Definition:* Flight notes*Attribute:**Attribute_Label:* AREA*Attribute:**Attribute_Label:* FLOWN1*Attribute_Definition:* Code identifier for areas flown or not flown.*Attribute_Definition_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:**Attribute_Label:* PERIMETER*Attribute:**Attribute_Label:* FLOWN3*Attribute_Definition:*

Code identifier for areas flown or not flown (used only for polygons with three attributes).

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:**Attribute_Label:* SURVEY_ID1*Attribute_Definition:* Year surveyed (0=2000, 99=1999, etc.)*Attribute_Definition_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:**Attribute_Label:* SURVEY_ID2*Attribute_Definition:*

Year surveyed (0=2000, 99=1999, etc.). Used only for polygons with more than one attribute.

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:**Attribute_Label:* SURVEY_ID3*Attribute_Definition:*

Year surveyed (0=2000, 99=1999, etc.). Used only for polygons with three attributes.

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:**Attribute_Label:* FLOWN2*Attribute_Definition:*

Code identifier for areas flown or not flown (used only for polygons with more than one attribute).

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:**Attribute_Label:* FLIGHT_DAY*Attribute_Definition:* Number of days from beginning of survey to end of survey.*Attribute_Definition_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:**Attribute_Label:* FLIGHT_D_2*Attribute_Definition:*

Number of days from beginning of survey to end of survey (used only for polygons with three attributes).

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:**Attribute_Label:* PURPOSE2*Attribute_Definition:*

Purpose of aerial survey (used only for polygons with more than one attribute).

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

Attribute:

Attribute_Label: FLIGHT_D_1

Attribute_Definition:

Number of days from beginning of survey to end of survey (used only for polygons with more than one attribute).

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

Attribute:

Attribute_Label: PURPOSE1

Attribute_Definition: Purpose of aerial survey.

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

Attribute:

Attribute_Label: BEGIN_DATE

Attribute_Definition: Beginning date for survey flown

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B & C

Attribute:

Attribute_Label: BEGIN_DA_1

Attribute_Definition:

Beginning date for survey flown (used only for polygons with more than one attribute)

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B & C

Attribute:

Attribute_Label: BEGIN_DA_2

Attribute_Definition:

Beginning date for survey flown (used only for polygons with more than one attribute)

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B & C

Attribute:

Attribute_Label: END_DATE1

Attribute_Definition: Ending date for survey flown

Attribute_Definition_Source:

Aerial Survey Geographic Information System Handbook Appendix B & C

Attribute:

Attribute_Label: FLT_RGN

*Attribute:**Attribute_Label:* FLT_YR*Attribute_Definition:* Flight year*Attribute:**Attribute_Label:* FLTGRP1*Attribute:**Attribute_Label:* FLTGRP2*Attribute:**Attribute_Label:* FLTGRP3*Attribute:**Attribute_Label:* ACRES*Attribute_Definition:* Acres*Attribute:**Attribute_Label:* HECTARES*Attribute_Definition:* Hectares*Overview_Description:**Entity_and_Attribute_Overview:*

A companion handbook entitled "Aerial Survey Geographic Information System Handbook" should be obtained before using this data set. The handbook is available online at: <http://www.fs.fed.us/foresthealth/publications/id/gishandbook.pdf>.

This handbook also serves as a data dictionary necessary for deciphering field codes.

Entity_and_Attribute_Detail_Citation:

Aerial Survey Geographic Information System Handbook

(<http://www.fs.fed.us/foresthealth/publications/id/gishandbook.pdf>)

*Distribution_Information:**Distributor:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:*

USDA Forest Service, Rocky Mountain Region, Forest Health
Management

Contact_Person: Erik Johnson*Contact_Position:* Aerial Survey Program Manager*Contact_Address:*

Address_Type: mailing and physical address

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Address: 740 Simms Street

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State_or_Province: Colorado

Postal_Code: 80401

Country: USA

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Hours_of_Service: 0900-1600 MST

Contact_Instructions: email preferred

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.058

Metadata_Reference_Information:

Metadata_Date: 20060628

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization:

USDA Forest Service, Rocky Mountain Region, Forest Health
Management

Contact_Person: Erik Johnson

Contact_Position: Aerial Survey Program Manager

Contact_Address:

Address_Type: mailing and physical address

Address: USDA Forest Service, Rocky Mountain Region

Address: Erik Johnson (or Forest Health staff member)

Address: 740 Simms Street

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Hours_of_Service: 0900-1600 MST

Contact_Instructions: email preferred

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

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