

r206_fln

Data format: Shapefile

File or table name: r206_fln

Coordinate system: Universal Transverse Mercator

Theme keywords: aerial survey, aerial detection survey, area flown, area not flown, forest health, forest health management, forest health protection, forest health monitoring, USDA Forest Service, spatial extent, date surveyed, surveyor, surveying agency, type of survey, special survey, overview survey

Abstract: 2006 USDA Forest Service, Rocky Mountain Region Aerial Detection Survey Data. "Flown/ not flown" (r206_fln) feature class. This data depicts the spatial extent where the 2006 aerial detection survey took place. This data set is a companion to the r206_dmg data, which depicts the occurrence and location of 2006 forest insect, disease, and other biotic and abiotic causes of tree mortality and tree damage. The r206_fln 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.

FGDC and ESRI Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
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- [Metadata Reference Information](#)

Metadata elements shown with blue text are defined in the Federal Geographic Data Committee's (FGDC) [Content Standard for Digital Geospatial Metadata \(CSDGM\)](#). Elements shown with green text are defined in the [ESRI Profile of the CSDGM](#). Elements shown with a green asterisk (*) will be automatically updated by ArcCatalog. ArcCatalog adds hints indicating which FGDC elements are mandatory; these are shown with gray text.

Identification Information:

Citation:

Citation information:

Originators: USDA Forest Service, Rocky Mountain Region, Forest Health Management

***Title:**

r206_fln

***File or table name:** r206_fln

Publication date: December 10, 2006

***Geospatial data presentation form:** vector digital data

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

Larger work citation:

Citation information:

Originators: USDA Forest Service, Rocky Mountain Region, Forest Health Management

Title:

Annual Aerial Detection Overview Survey

Publication date: 1950 to present

Edition: 2006

Geospatial data presentation form: vector digital data

Online linkage:

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

Description:

Abstract:

2006 USDA Forest Service, Rocky Mountain Region Aerial Detection Survey Data. "Flown/ not flown" (r206_fln) feature class. This data depicts the spatial extent where the 2006 aerial detection survey took place.

This data set is a companion to the r206_dmg data, which depicts the occurrence and location of 2006 forest insect, disease, and other biotic and abiotic causes of tree mortality and tree damage. The r206_fln 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 r206_fln feature class in conjunction with the r206_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 r206_fln 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 r205_fln feature class as "acres flown" or "acres surveyed" without the incorporation of a vegetation layer.

***Language of dataset:** en

Time period of content:**Time period information:****Single date/time:**

Calendar date: 2006 (summer field season)

Currentness reference:

publication date

Status:

Progress: Complete

Maintenance and update frequency: As needed

Spatial domain:**Bounding coordinates:**

***West bounding coordinate:** -110.337289

***East bounding coordinate:** -96.570207

***North bounding coordinate:** 46.252417

***South bounding coordinate:** 36.748910

Local bounding coordinates:

***Left bounding coordinate:** 87696.101953

***Right bounding coordinate:** 1153356.704159

***Top bounding coordinate:** 5122093.497077

***Bottom bounding coordinate:** 4092045.480283

Keywords:**Theme:**

Theme keywords: aerial survey, aerial detection survey, area flown, area not flown, forest health, forest health management, forest health protection, forest health monitoring, USDA Forest Service, spatial extent, date surveyed, surveyor, surveying agency, type of survey, special survey, overview survey

Theme keyword thesaurus: None

Place:

Place keywords: Rocky Mountain Region, Colorado, Wyoming, South Dakota, Nebraska, Kansas, Region 2

Temporal:

Temporal keywords: 2006

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 r206_dmg GIS data set should be used in conjunction with this data set. The

r206_dmg data set depicts the occurrence and location of 2006 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 r206_dmg GIS data set should be used in conjunction with this data set. The r206_dmg data set depicts the occurrence and location of 2006 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 position: Aerial Survey Program Manager

Contact address:

Address type: physical address

Address:

USDA Forest Service

Address:

attn: Erik Johnson or Forest Health staff member

Address:

740 Simms Street

City: Golden

State or province: Colorado

Postal code: 80401

Country: USA

Contact voice telephone: 303.236.8001

Contact voice telephone: 303.275.5061

Contact TDD/TTY telephone: 800.659.2656

Contact facsimile telephone: 303.236.9542

Contact facsimile telephone: 303.275.5075

Contact electronic mail address: jross@fs.fed.us

Contact electronic mail address: jharris@fs.fed.us

Hours of service: 09:00-16:00 MST

***Native dataset format:** Shapefile

***Native data set environment:**

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

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Data Quality Information:

Lineage:

Process step:**Process description:**

Metadata imported.

Source used citation abbreviation:

C:\gis_data\airial_survey\2005\r205_dmg.shp.xml

Process step:**Process description:**

Metadata imported.

Source used citation abbreviation:

C:\a_data\airial_survey\2004\r204_fln.shp.xml

Process step:**Process description:**

Metadata imported.

Source used citation abbreviation:

C:\a_data\airial_survey\2005\r205_fln.shp.xml

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Spatial Data Organization Information:***Direct spatial reference method:** Vector**Point and vector object information:****SDTS terms description:*****Name:** r206_fln***SDTS point and vector object type:** G-polygon***Point and vector object count:** 40**ESRI terms description:*****Name:** r206_fln***ESRI feature type:** Simple***ESRI feature geometry:** Polygon***ESRI topology:** FALSE***ESRI feature count:** 40***Spatial index:** FALSE***Linear referencing:** FALSE[Back to Top](#)

Spatial Reference Information:**Horizontal coordinate system definition:****Coordinate system name:*****Projected coordinate system name:** NAD_1983_UTM_Zone_13N***Geographic coordinate system name:** GCS_North_American_1983**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:** 0.002048
***Ordinate resolution:** 0.002048
***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

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Entity and Attribute Information:

Detailed description:

***Name:** r206_fln

Entity type:

***Entity type label:** r206_fln
***Entity type type:** Feature Class
***Entity type count:** 40

Entity type definition:

USDA Forest Service Region 2 2006 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:** FLOWN3
***Attribute alias:** 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 type:** Number

***Attribute width:** 8

Attribute:

***Attribute label:** FID
 ***Attribute alias:** FID
 ***Attribute definition:**
 Internal feature number.
 ***Attribute definition source:**
 ESRI

***Attribute type:** OID
 ***Attribute width:** 4
 ***Attribute precision:** 0
 ***Attribute scale:** 0

Attribute domain values:

***Unrepresentable domain:**

Sequential unique whole numbers that are automatically generated.

Attribute:

***Attribute label:** Shape
 ***Attribute alias:** Shape
 ***Attribute definition:**
 Feature geometry.
 ***Attribute definition source:**
 ESRI

***Attribute type:** Number
 ***Attribute width:** 4

Attribute domain values:

***Unrepresentable domain:**

Coordinates defining the features.

Attribute:

***Attribute label:** SURVEYOR1
 ***Attribute alias:** SURVEYOR1

Attribute definition:

List of aerial surveyors

Attribute definition source:

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

***Attribute type:** String
 ***Attribute width:** 6

Attribute:

***Attribute label:** SURVEYOR2
 ***Attribute alias:** 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 type:** String
 ***Attribute width:** 6

Attribute:

***Attribute label:** SURVEYOR3

***Attribute alias:** 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 type:** String

***Attribute width:** 6

Attribute:

***Attribute label:** AGENCY1

***Attribute alias:** 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 type:** Number

***Attribute width:** 4

Attribute:

***Attribute label:** AGENCY2

***Attribute alias:** 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 type:** Number

***Attribute width:** 4

Attribute:

***Attribute label:** AGENCY3

***Attribute alias:** 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 type:** Number

***Attribute width:** 4

Attribute:

***Attribute label:** BEGIN1

***Attribute alias:** BEGIN1

Attribute definition:

Beginning date for survey flown.

Attribute definition source:

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

- ***Attribute type:** String
- ***Attribute width:** 10

Attribute:

- ***Attribute label:** BEGIN2
- ***Attribute alias:** BEGIN2

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 and Appendix C.

- ***Attribute type:** String
- ***Attribute width:** 10

Attribute:

- ***Attribute label:** BEGIN3
- ***Attribute alias:** BEGIN3

Attribute definition:

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

Attribute definition source:

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

- ***Attribute type:** String
- ***Attribute width:** 10

Attribute:

- ***Attribute label:** END1
- ***Attribute alias:** END1

Attribute definition:

Ending date for survey flown.

Attribute definition source:

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

- ***Attribute type:** String
- ***Attribute width:** 30

Attribute:

- ***Attribute label:** END2
- ***Attribute alias:** END2

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 and Appendix C.

- ***Attribute type:** String
- ***Attribute width:** 30

Attribute:

***Attribute label:** END3

***Attribute alias:** END3

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 and Appendix C.

***Attribute type:** String

***Attribute width:** 30

Attribute:

***Attribute label:** PURPOSE1

***Attribute alias:** PURPOSE1

Attribute definition:

Purpose of aerial survey.

Attribute definition source:

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

***Attribute type:** Date

***Attribute width:** 8

Attribute:

***Attribute label:** PURPOSE2

***Attribute alias:** 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 type:** Date

***Attribute width:** 8

Attribute:

***Attribute label:** PURPOSE3

***Attribute alias:** 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 type:** Date

***Attribute width:** 8

Attribute:

***Attribute label:** SURVEY_ID1

***Attribute alias:** 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 type:** Date
- ***Attribute width:** 8

Attribute:

- ***Attribute label:** SURVEY_ID2
- ***Attribute alias:** 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 type:** Date
- ***Attribute width:** 8

Attribute:

- ***Attribute label:** SURVEY_ID3
- ***Attribute alias:** 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 type:** Date
- ***Attribute width:** 8

Attribute:

- ***Attribute label:** ACRES
- ***Attribute alias:** ACRES

- ***Attribute type:** Number
- ***Attribute width:** 4

Attribute:

- ***Attribute label:** FLOWN1
- ***Attribute alias:** 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 type:** Number
- ***Attribute width:** 4

Attribute:

- ***Attribute label:** FLOWN2
- ***Attribute alias:** 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 type:** Number

***Attribute width:** 4

Attribute:

***Attribute label:** RPT_YR

***Attribute alias:** RPT_YR

***Attribute type:** String

***Attribute width:** 30

Attribute:

***Attribute label:** FL_DAYS1

***Attribute alias:** FL_DAYS1

***Attribute type:** String

***Attribute width:** 30

Attribute:

***Attribute label:** FL_DAYS2

***Attribute alias:** FL_DAYS2

***Attribute type:** String

***Attribute width:** 30

Attribute:

***Attribute label:** FL_DAYS3

***Attribute alias:** FL_DAYS3

***Attribute type:** String

***Attribute width:** 60

Attribute:

***Attribute label:** FL_NOTES

***Attribute alias:** FL_NOTES

***Attribute type:** Number

***Attribute width:** 16

***Attribute number of decimals:** 3

Attribute:

***Attribute label:** AREA

***Attribute alias:** AREA

***Attribute type:** Number

***Attribute width:** 19

***Attribute number of decimals:** 11

Attribute:

***Attribute label:** PERIMETER

***Attribute alias:** PERIMETER

- ***Attribute type:** Number
- ***Attribute width:** 19
- ***Attribute number of decimals:** 11

Attribute:

- ***Attribute label:** HECTARES
- ***Attribute alias:** HECTARES

- ***Attribute type:** Number
- ***Attribute width:** 19
- ***Attribute number of decimals:** 11

Overview description:

Dataset 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 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>)

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Distribution Information:

Distributor:

Contact information:

Contact organization primary:

Contact organization: USDA Forest Service, Rocky Mountain Region,
 Forest Health Management

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

City: Golden

State or province: Colorado

Postal code: 80401

Country: USA

Contact voice telephone: 303.236.8001
Contact voice telephone: 303.275.5061
Contact TDD/TTY telephone: 800.659.2656
Contact facsimile telephone: 303.236.9542
Contact facsimile telephone: 303.275.5075

Contact electronic mail address: jross@fs.fed.us
Contact electronic mail address: jharris@fs.fed.us

Hours of service: 0900-1600 MST
Contact instructions:
 email preferred

Resource description: Downloadable Data

Standard order process:

Digital form:

Digital transfer information:

***Transfer size:** 4.876

***Dataset size:** 4.876

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Metadata Reference Information:

***Metadata date:** 20061208

***Language of metadata:** en

Metadata contact:

Contact information:

Contact organization primary:

Contact person: Erik Johnson

Contact organization: USDA Forest Service, Rocky Mountain Region,
 Forest Health Management

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

City: Golden

State or province: Colorado

Postal code: 80401

Country: USA

Contact voice telephone: 303.236.8001
Contact voice telephone: 303.275.5061
Contact TDD/TTY telephone: 800.659.2656

Contact facsimile telephone: 303.236.9542

Contact facsimile telephone: 303.275.5075

Contact electronic mail address: ejohnson02@fs.fed.us

Contact electronic mail address: jross@fs.fed.us

Contact electronic mail address: fjcross@fs.fed.us

Contact electronic mail address: jharris@fs.fed.us

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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