

r200_dmg_shp

Data format: Shapefile

File or table name: r200_dmg_shp

Coordinate system: Universal Transverse Mercator

Theme keywords: aerial survey, aerial detection survey, forest insect pests, forest disease pests, damage causal agent, tree mortality, tree damage, forest health, forest health management, forest health protection, forest health monitoring, USDA Forest Service

Abstract: 2000 USDA Forest Service, Rocky Mountain Region Aerial Detection Survey Data. This data depicts the occurrence and location of forest insect, disease, and other biotic and abiotic causes of tree mortality and tree damage. Aerial survey data is collected by observing areas of tree damage or tree mortality from an aircraft and manually recording the information onto a map. Due to the nature of aerial surveys, this data will only provide rough estimates of location, intensity and the resulting trend information for agents detectable from the air. Many of the most destructive diseases are not represented in the data because these agents are not detectable from aerial surveys. The data presented should only be used as a partial indicator of insect and disease activity, and should be validated on the ground for actual location and casual agent. The accompanying "area flown/ not flown" GIS data set entitled "r200_fn" should be used in conjunction with this data set. This "area flown/ not flown" data set provides information on the spatial extent of the aerial survey for that particular year. 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 numeric field codes.

FGDC and ESRI Metadata:

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- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [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:**

r200_dmg_shp

***File or table name:** r200_dmg_shp

Publication date: January 15, 2001

***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: 2000

Geospatial data presentation form: vector digital data

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

Description:

Abstract:

2000 USDA Forest Service, Rocky Mountain Region Aerial Detection Survey Data. This data depicts the occurrence and location of forest insect, disease, and other biotic and abiotic causes of tree mortality and tree damage. Aerial survey data is collected by observing areas of tree damage or tree mortality from an aircraft and manually recording the information onto a map.

Due to the nature of aerial surveys, this data will only provide rough estimates of location, intensity and the resulting trend information for agents detectable from the air. Many of the most destructive diseases are not represented in the data because these agents are not detectable from aerial surveys. The data presented should only be used as a partial indicator of insect and disease activity, and should be validated on the ground for actual location and casual agent.

The accompanying "area flown/ not flown" GIS data set entitled "r200_fln" should be used in conjunction with this data set. This "area flown/ not flown" data set provides information on the spatial extent of the aerial survey for that particular year.

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 numeric 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:

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 survey data is collected by observing areas of tree damage or tree mortality from an aircraft and manually recording the information onto a map. This procedure is considered both an art form and a form of scientific data collection, and is highly subjective. An observer only has a few seconds to recognize the color difference between healthy and damaged trees of different species; diagnose causal agents correctly; estimate intensity; delineate the extent of damage; and precisely record this information on a georeferenced map. Air turbulence, cloud shadows, distance from aircraft, haze, smoke, and observer experience can all affect the quality of the survey. These data sets provide estimates of conditions on the ground and may differ from estimates derived by other methods.

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.

Overview surveys are a "snap shot" in time and therefore may not be timed to accurately capture the true extent or severity of a particular disturbance activity. Aerial surveys can be thought of as the first stage in a multi-stage sampling design. Other remote sensing approaches, including aerial photography, electro-optical sensors, and specially designed aerial surveys with modified flight patterns, can be used to more accurately delineate the extent and severity of a particular disturbance agent. The preceding methods are often more costly than overview surveys, and are generally reserved to address situations of sufficient environmental, economic, or political

importance.

***Language of dataset:** en

Time period of content:

Time period information:

Single date/time:

Calendar date: 2000 (summer field season)

Currentness reference:

publication date

Status:

Progress: Complete

Maintenance and update frequency: As needed

Spatial domain:

Bounding coordinates:

***West bounding coordinate:** -110.176499

***East bounding coordinate:** -103.235093

***North bounding coordinate:** 45.036271

***South bounding coordinate:** 36.920447

Local bounding coordinates:

***Left bounding coordinate:** 91435.002716

***Right bounding coordinate:** 639046.913880

***Top bounding coordinate:** 4986979.666617

***Bottom bounding coordinate:** 4095880.892365

Keywords:

Theme:

Theme keywords: aerial survey, aerial detection survey, forest insect pests, forest disease pests, damage causal agent, tree mortality, tree damage, forest health, forest health management, forest health protection, forest health monitoring, USDA Forest Service

Theme keyword thesaurus: None

Place:

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

Temporal:

Temporal keywords: 2000

Access constraints: The insect and disease 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 "area flown/ not flown" GIS data set entitled "r200_fln" should be used in conjunction with this data set. This "area flown/ not flown" data set provides information on the spatial extent of the aerial survey for that particular year.

Use constraints:

The insect and disease 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 "area flown/ not flown" GIS data set entitled "r200_fln" should be used in conjunction with this data set. This "area flown/ not flown" data set provides information on the spatial extent of the aerial survey for that particular year.

Point of 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: 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: 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: 09:00-16:00 MST

Contact instructions:

email is preferred

Data set credit:

USDA Forest Service, Rocky Mountain Region, Forest Health Management; Erik Johnson - Aerial Survey Program Manager.

***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:\a_data\airial_survey\2000\r200_dmg.shp.xml

Process step:

Process description:

Dataset copied.

Source used citation abbreviation:

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Spatial Data Organization Information:

***Direct spatial reference method:** Vector

Point and vector object information:

SDTS terms description:

- ***Name:** r200_dmg_shp
- ***SDTS point and vector object type:** G-polygon
- ***Point and vector object count:** 14155

ESRI terms description:

- ***Name:** r200_dmg_shp
- ***ESRI feature type:** Simple
- ***ESRI feature geometry:** Polygon
- ***ESRI topology:** FALSE
- ***ESRI feature count:** 14155
- ***Spatial index:** TRUE
- ***Linear referencing:** FALSE

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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:** r200_dmg_shp

Entity type:

***Entity type label:** r200_dmg_shp

***Entity type type:** Feature Class

***Entity type count:** 14155

Entity type definition:

USDA Forest Service Region 2 2000 forest damage 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 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:** AREA

***Attribute alias:** AREA

***Attribute type:** Number

***Attribute width:** 19

***Attribute number of decimals:** 3

Attribute:

***Attribute label:** PERIMETER

***Attribute alias:** PERIMETER

***Attribute type:** Number

***Attribute width:** 19

***Attribute number of decimals:** 5

Attribute:

***Attribute label:** ACRES

***Attribute alias:** ACRES

Attribute definition:

Acres (calculated using XTOOLS)

***Attribute type:** Number

***Attribute width:** 19

***Attribute number of decimals:** 5

Attribute:

- * **Attribute label:** Shape
- * **Attribute alias:** Shape
- * **Attribute definition:**

Feature geometry.

* **Attribute definition source:**

ESRI

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

Attribute domain values:

- * **Unrepresentable domain:**
Coordinates defining the features.

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

- * **Attribute type:** String
- * **Attribute width:** 8

Attribute:

- * **Attribute label:** SURVEY_ID2
- * **Attribute alias:** SURVEY_ID2
- Attribute definition:**

Year surveyed (used only for polygons with more than one attribute)

Attribute definition source:

Aerial Survey Geographic Information System Handbook

- * **Attribute type:** String
- * **Attribute width:** 25

Attribute:

- * **Attribute label:** SURVEY_ID3
- * **Attribute alias:** SURVEY_ID3
- Attribute definition:**

Year surveyed (used only for polygons with three attributes).

Attribute definition source:

Aerial Survey Geographic Information System Handbook

- * **Attribute type:** Number
- * **Attribute width:** 2

Attribute:

***Attribute label:** DMG_TYPE1

***Attribute alias:** DMG_TYPE1

Attribute definition:

Damage type (see Aerial Survey Geographic Information System Handbook, Appendix A)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A

***Attribute type:** Number

***Attribute width:** 2

Attribute:

***Attribute label:** DMG_TYPE2

***Attribute alias:** DMG_TYPE2

Attribute definition:

Damage type (used only for polygons with more than one attribute)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A

***Attribute type:** Number

***Attribute width:** 2

Attribute:

***Attribute label:** DMG_TYPE3

***Attribute alias:** DMG_TYPE3

Attribute definition:

Damage type (used only for polygons with three attributes)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A

***Attribute type:** Number

***Attribute width:** 2

Attribute:

***Attribute label:** SEVERITY1

***Attribute alias:** SEVERITY1

Attribute definition:

Severity of damage (see Aerial Survey Geographic Information System Handbook, Appendix A)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A

***Attribute type:** Number

***Attribute width:** 2

Attribute:

***Attribute label:** SEVERITY2

***Attribute alias:** SEVERITY2

Attribute definition:

Severity of damage (used only for polygons with more than one attribute)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A

***Attribute type:** Number
***Attribute width:** 2

Attribute:

***Attribute label:** SEVERITY3
***Attribute alias:** SEVERITY3
Attribute definition:

Severity of damage (used only for polygons with three attributes)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A

***Attribute type:** Number
***Attribute width:** 2

Attribute:

***Attribute label:** PATTERN1
***Attribute alias:** PATTERN1
Attribute definition:

Pattern (currently not used by USFS Region 2)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A

***Attribute type:** Number
***Attribute width:** 2

Attribute:

***Attribute label:** PATTERN2
***Attribute alias:** PATTERN2
Attribute definition:

Pattern (currently not used by USFS Region 2)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A

***Attribute type:** Number
***Attribute width:** 2

Attribute:

***Attribute label:** PATTERN3
***Attribute alias:** PATTERN3
Attribute definition:

Pattern (currently not used by USFS Region 2)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A

- *Attribute type: Number
- *Attribute width: 2

Attribute:

- *Attribute label: TPA1
- *Attribute alias: TPA1
- Attribute definition:**

Number of trees per acre (see Aerial Survey Geographic Information System Handbook, Appendix A)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A

- *Attribute type: Number
- *Attribute width: 2

Attribute:

- *Attribute label: TPA2
- *Attribute alias: TPA2
- Attribute definition:**

Number of trees per acre (used only for polygons with more than one attribute)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A

- *Attribute type: Number
- *Attribute width: 2

Attribute:

- *Attribute label: TPA3
- *Attribute alias: TPA3
- Attribute definition:**

Number of trees per acre (used only for polygons with three attributes)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A

- *Attribute type: Number
- *Attribute width: 9
- *Attribute number of decimals: 2

Attribute:

- *Attribute label: NO_TREES1
- *Attribute alias: NO_TREES1
- Attribute definition:**

Number of trees affected/ killed (see Aerial Survey Geographic Information System Handbook, Appendix A)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A

- ***Attribute type:** Number
- ***Attribute width:** 9
- ***Attribute number of decimals:** 2

Attribute:

- ***Attribute label:** NO_TREES2
 - ***Attribute alias:** NO_TREES2
- Attribute definition:**

Number of trees affected/ killed (used only for polygons with more than one attribute)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A

- ***Attribute type:** Number
- ***Attribute width:** 9
- ***Attribute number of decimals:** 2

Attribute:

- ***Attribute label:** NO_TREES3
 - ***Attribute alias:** NO_TREES3
- Attribute definition:**

Number of trees affected/ killed (used only for polygons with three attributes)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A

- ***Attribute type:** Number
- ***Attribute width:** 7

Attribute:

- ***Attribute label:** DCA1
 - ***Attribute alias:** DCA1
- Attribute definition:**

Damage-causing agent code. This is the most reliable field for queries pertaining to damage-causing agents and it is recommended over the R2 pest code or web code fields (see Aerial Survey Geographic Information System Handbook, Appendix A and Appendix E)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A and Appendix E

- ***Attribute type:** Number
- ***Attribute width:** 7

Attribute:

- ***Attribute label:** DCA2
 - ***Attribute alias:** DCA2
- Attribute definition:**

Damage-causing agent code (used only for polygons with more than one attribute)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A and Appendix E

***Attribute type:** Number
***Attribute width:** 7

Attribute:

***Attribute label:** DCA3
***Attribute alias:** DCA3
Attribute definition:

Damage-causing agent code (used only for polygons with three attributes)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A and Appendix E

***Attribute type:** Number
***Attribute width:** 5

Attribute:

***Attribute label:** HOST1
***Attribute alias:** HOST1
Attribute definition:

Host tree species code (see Aerial Survey Geographic Information System Handbook, Appendix A and Appendix F)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A and Appendix F

***Attribute type:** Number
***Attribute width:** 5

Attribute:

***Attribute label:** HOST2
***Attribute alias:** HOST2
Attribute definition:

Host tree species code (used only for polygons with more than one attribute)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A and Appendix F

***Attribute type:** Number
***Attribute width:** 5

Attribute:

***Attribute label:** HOST3
***Attribute alias:** HOST3
Attribute definition:

Host tree species code (used only for polygons with three attributes)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A and Appendix F

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

Attribute:

***Attribute label:** FOR_TYPE1

***Attribute alias:** FOR_TYPE1

Attribute definition:

Forest type code (see Aerial Survey Geographic Information System Handbook, Appendix A and Appendix G)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A and Appendix G

***Attribute type:** Number

***Attribute width:** 4

Attribute:

***Attribute label:** FOR_TYPE2

***Attribute alias:** FOR_TYPE2

Attribute definition:

Forest type code (used only for polygons with more than one attribute)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A and Appendix G

***Attribute type:** Number

***Attribute width:** 4

Attribute:

***Attribute label:** FOR_TYPE3

***Attribute alias:** FOR_TYPE3

Attribute definition:

Forest type code (used only for polygons with three attributes)

Attribute definition source:

Aerial Survey Geographic Information System Handbook, Appendix A and Appendix G

***Attribute type:** Number

***Attribute width:** 4

Attribute:

***Attribute label:** NOTES

***Attribute alias:** NOTES

Attribute definition:

Notes and comments

Attribute definition source:

Aerial Survey Geographic Information System Handbook

***Attribute type:** Number

***Attribute width:** 4

Attribute:

***Attribute label:** STATUS

***Attribute alias:** STATUS

*Attribute type: Number
*Attribute width: 4

Attribute:

*Attribute label: PEST
*Attribute alias: PEST

*Attribute type: Number
*Attribute width: 13
*Attribute number of decimals: 1

Attribute:

*Attribute label: MODIFIER
*Attribute alias: MODIFIER

*Attribute type: String
*Attribute width: 60

Attribute:

*Attribute label: R2_PC1
*Attribute alias: R2_PC1

*Attribute type: Number
*Attribute width: 5

Attribute:

*Attribute label: R2_PC2
*Attribute alias: R2_PC2

*Attribute type: Number
*Attribute width: 5

Attribute:

*Attribute label: R2_PC3
*Attribute alias: R2_PC3

*Attribute type: Number
*Attribute width: 5

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 numeric field codes.

Entity and attribute overview:

While the companion handbook entitled "Aerial Survey Geographic Information System Handbook" (available at <http://www.fs.fed.us/foresthealth/publications/id/gishandbook.pdf>) should be obtained before using the dataset in order to decipher numeric field codes, some of the more common Region 2 DCA (damage causal agent) and host codes are listed as follows:

DCA	NAME
11002	western pine beetle
11006	mountain pine beetle
11007	Douglas-fir beetle
11009	spruce beetle
11029	pine engraver
11030	Ips engraver beetles

11049 Douglas-fir engraver
11050 fir engraver
12040 western spruce budworm
12123 Douglas-fir tussock moth
12180 tent caterpillar
24022 Dutch elm disease
30000 Fire
50006 hail
50001 wind/tornado
70001 herbicides
70014 road salt
80001 aspen decline
80002 subalpine fir mortality
80003 five-needle pine mortality
80004 pinyon pine mortality

Hosts

1 = hardwoods
2 = softwoods
3 = hardwoods/softwoods
15 = white fir
19 = subalpine fir
68 = eastern redcedar
93 = Englemann spruce
101 = whitebark pine
105 = jack pine
106 = common pinyon
108 = lodgepole pine
113 = limber pine
122 = ponderosa pine
202 = Douglas-fir
313 = boxelder
462 = hackberry
740 = cottonwood, poplar
746 = quaking aspen
749 = narrowleaf cottonwood
814 = Gambel oak
823 = bur oak
970 = elm

Entity and attribute detail citation:

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

Entity and attribute detail citation:

Coding Key for Forest Insect Disease Damage on Aerial Survey Maps
USDA Forest Service Region 2 Aerial Survey Program
(contact Erik Johnson ejohnson02@fs.fed.us or Jennifer Ross jross@fs.fed.us for this document)

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Distribution Information:

Distributor:

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

Resource description: Downloadable Data

Standard order process:

Digital form:

Digital transfer information:

***Transfer size:** 10.063

***Dataset size:** 10.063

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Metadata Reference Information:

***Metadata date:** 20060628

***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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