

NAIP_2009_3ft_color_wsps_83h_img (ImageServer)

Metadata:

Identification_Information:

Citation:

Citation_Information:

Originator: USDA-FSA-APFO Aerial Photography Field Office

Publication_Date: 20090825

Title: NAIP Digital Ortho Photo Image

Geospatial_Data_Presentation_Form: remote-sensing image

Publication_Information:

Publication_Place: Salt Lake City, Utah

Publisher: USDA-FSA-APFO Aerial Photography Field Office

Description:

Abstract:

This data set contains imagery from the National Agriculture Imagery Program (NAIP). NAIP acquires digital ortho imagery during the agricultural growing seasons in the continental U.S.. A primary goal of the NAIP program is to enable availability of of ortho imagery within one year of acquisition. NAIP provides four main products: 1 meter ground sample distance (GSD) ortho imagery rectified to a horizontal accuracy of within +/- 5 meters of reference digital ortho quarter quads (DOQQ's) from the National Digital Ortho Program (NDOP); 2 meter GSD ortho imagery rectified to within +/- 10 meters of reference DOQQs; 1 meter GSD ortho imagery rectified to within +/- 6 meters to true ground; and, 2 meter GSD ortho imagery rectified to within +/- 10 meters to true ground. The tiling format of NAIP imagery is based on a 3.75' x 3.75' quarter quadrangle with a 300 meter buffer on all four sides. NAIP quarter quads are formatted to the UTM coordinate system using NAD83. NAIP imagery may contain as much as 10% cloud cover per tile.

Purpose:

NAIP imagery is available for distribution within 60 days of the end of a flying season and is intended to provide current information of agricultural conditions in support of USDA farm programs. For USDA Farm Service Agency, the 1 meter GSD product provides an ortho image base for Common Land Unit boundaries and other data sets. The 1 meter NAIP imagery is generally acquired in projects covering full states in cooperation with state government and other federal agencies who use the imagery for a variety of purposes including land use planning and natural resource assessment. With an annual cycle, NAIP is also used for disaster response often providing the most current pre-event imagery. While suitable for a variety of uses the 2 meter GSD NAIP imagery is primarily intended to assess crop condition and compliance to USDA farm program conditions. The 2 meter imagery is generally acquired only for agricultural areas within state projects.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 20090627

Currentness_Reference: Ground Condition

Status:

Progress: Complete

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Maintenance_and_Update_Frequency: Irregular
Spatial_Domain:
 Bounding_Coordinates:
 West_Bounding_Coordinate: -116.9375
 East_Bounding_Coordinate: -116.8750
 North_Bounding_Coordinate: 46.0000
 South_Bounding_Coordinate: 45.9375
Keywords:
 Theme:
 Theme_Keyword_Thesaurus: None
 Theme_Keyword: farming
 Theme_Keyword: Digital Ortho rectified Image
 Theme_Keyword: Ortho Rectification
 Theme_Keyword: Quarter Quadrangle Centered
 Theme_Keyword: NAIP
 Theme_Keyword: Aerial Compliance
 Theme_Keyword: Compliance
 Place:
 Place_Keyword_Thesaurus: Geographic Names Information System
 Place_Keyword: WA
 Place_Keyword: Asotin
 Place_Keyword: 53003
 Place_Keyword: WA003
 Place_Keyword: ASOTIN CO WA FSA
 Place_Keyword: 4511601
 Place_Keyword: JIM CREEK BUTTE, NE
 Place_Keyword: JIM CREEK BUTTE
Access_Constraints: There are no limitations for access.
Use_Constraints:
 Imagery may be replaced to address defects found in a small number of products through quality assurance processes. Imagery containing defects that require the acquisition of new imagery, such as excessive cloud cover, specular reflectance, etc., will not be replaced within a NAIP project year.
Point_of_Contact:
 Contact_Information:
 Contact_Organization_Primary:
 Contact_Organization: Aerial Photography Field Office (APFO)
 Contact_Address:
 Address_Type: mailing and physical address
 Address: 2222 West 2300 South
 City: Salt Lake City
 State_or_Province: Utah
 Postal_Code: 84119-2020
 Country: USA
 Contact_Voice_Telephone: 801-844-2922
 Contact_Facsimile_Telephone: 801-956-3653
 Contact_Electronic_Mail_Address: apfo.sales@slc.usda.gov
Browse_Graphic:
 Browse_Graphic_File_Name: None
 Browse_Graphic_File_Description: None
 Browse_Graphic_File_Type: None
Native_Data_Set_Environment: Unknown

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Data_Quality_Information:

Logical_Consistency_Report:

NAIP 3.75 minute tile file names are based on the USGS quadrangle naming convention.

Completeness_Report: None

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

FSA Digital Orthophoto Specs.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: USDA-FSA-APFO Aerial Photography Field Office

Publication_Date: 20090825

Title: JIM CREEK BUTTE, NE

Geospatial_Data_Presentation_Form: remote-sensing image

Type_of_Source_Media: UnKnown

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 20090627

Source_Currentness_Reference:

Aerial Photography Date for aerial photo source.

Source_Citation_Abbreviation: Georectified Image

Source_Contribution: Digital Georectified Image.

Process_Step:

Process_Description:

Imagery was flown with Leica ADS80 digital sensors to capture 1.0m raw data. Raw data is then downloaded using Leica XPro software. The raw imagery is then georeferenced using GPS/INS 200Hz exterior orientation information (x/y/z/o/p/k). Technicians precisely measure tie points in 3 bands/looks (Back/Nadir/Forward) for each line using Leica Xpro software. The resulting point data and exterior orientation data is used to perform a full bundle adjustment using Xpro. Any blunders are removed, and weak areas are manually supplemented to ensure good coverage of points. Once the point data is cleaned and point coverage is acceptable photo-identifiable GPS-surveyed ground control points are introduced in the corners and center of the block being adjusted. The output from this bundle adjustment process is the revised exterior orientation data for the sensor with any GPS/INS, datum, and sensor calibration errors modeled and compensated for. Using this revised EO data orthorectified image strips are created using the USGS NED DEM. The orthorectified strips are overlaid with each other and with the ground control to check accuracy. Once the accuracy of the orthorectified image strips are validated the strips are processed with a NWG proprietary dodging package that compensates for the bi-directional reflectance function that is caused by the sun's position relative to the image area. This

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compensated imagery is then imported into Inpho's OrthoVista 4.4 package which is used for the final radiometric balance, mosaic, and DOQQ sheet creation. These final DOQQ sheets contain a 300m minimum buffer. These final DOQQ tiles are edge inspected to the existing MDOQQ sheets for accuracy validation.

Process_Date: 20090825
Spatial_Data_Organization_Information:
 Indirect_Spatial_Reference: Asotin County, WA
 Direct_Spatial_Reference_Method: Raster
 Raster_Object_Information:
 Raster_Object_Type: Pixel
 Row_Count: 1
 Column_Count: 1
Spatial_Reference_Information:
 Horizontal_Coordinate_System_Definition:
 Planar:
 Grid_Coordinate_System:
 Grid_Coordinate_System_Name: Universal Transverse Mercator
 Universal_Transverse_Mercator:
 UTM_Zone_Number: 11
 Transverse_Mercator:
 Scale_Factor_at_Central_Meridian: 0.9996
 Longitude_of_Central_Meridian: -117.0
 Latitude_of_Projection_Origin: 0.0
 False_Easting: 500000
 False_Northing: 0.0
 Planar_Coordinate_Information:
 Planar_Coordinate_Encoding_Method: row and column
 Coordinate_Representation:
 Abscissa_Resolution: 1
 Ordinate_Resolution: 1
 Planar_Distance_Units: meters
 Geodetic_Model:
 Horizontal_Datum_Name: North American Datum of 1983
 Ellipsoid_Name: Geodetic Reference System 80 (GRS 80)
 Semi-major_Axis: 6378137
 Denominator_of_Flattening_Ratio: 298.257
Entity_and_Attribute_Information:
 Overview_Description:
 Entity_and_Attribute_Overview:
 32-bit pixels, 4 band color(RGBIR) values 0 - 255
 Entity_and_Attribute_Detail_Citation: None
Distribution_Information:
 Distributor:
 Contact_Information:
 Contact_Person_Primary:
 Contact_Person: Supervisor Customer Services Section
 Contact_Organization:
 USDA-FSA-APFO Aerial Photography Field Office
 Contact_Address:
 Address_Type: mailing and physical address
 Address: 2222 West 2300 South
 City: Salt Lake City

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State_or_Province: Utah
Postal_Code: 84119-2020
Country: USA
Contact_Voice_Telephone: 801-844-2922
Contact_Facsimile_Telephone: 801-956-3653
Contact_Electronic_Mail_Address: apfo.sales@slc.usda.gov
Distribution_Liability:
In no event shall the creators, custodians, or distributors
of this information be liable for any damages arising out
of its use (or the inability to use it).
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Format_Name: GeoTIFF - Georeferenced Tagged Image File Format
Format_Information_Content: Multispectral 4-band
Digital_Transfer_Option:
Offline_Option:
Offline_Media: CD-ROM
Recording_Format: ISO 9660 Mode 1 Level 2 Extensions
Fees:
Contact the Aerial Photography Field Office
for more information
Resource_Description:
m_4511601_ne_11_1_20090627_20090810.tif
Metadata_Reference_Information:
Metadata_Date: 20090825
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization:
USDA-FSA-APFO Aerial Photography Field Office
Contact_Address:
Address_Type: mailing and physical address
Address: 2222 West 2300 South
City: Salt Lake City
State_or_Province: Utah
Postal_Code: 84119-2020
Country: USA
Contact_Voice_Telephone: 801-844-2922
Metadata_Standard_Name:
Content Standard for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998