

**Forest Service Handbook
National Headquarters - Washington Office
Washington, DC**

**Forest Service Handbook 7109.13a – Geometronics Handbook
Chapter 20 - Remote Sensing**

Amendment: 7109.13a-2003-1

Effective date: April 09, 2003

Duration: This amendment is effective until superseded or removed.

Approved by: Susan M. Super, Acting Service-wide Directive Manager

Date approved: March 05, 2003

Responsible Staff:

Last Change: 7109.13a-95-1 to entire Handbook

Superseded Document(s): 7109.13a, Contents, Amendment 7109.13a-95-1, July 21, 1995; 7109.13a,0 Code Contents, Amendment 7109.13a-95-1, July 21, 1995; 7109.13a,0 Code, Amendment 7109.13a-95-1, July 21, 1995; 7109.13a,10 Contents, Amendment 7109.13a-95-1, July 21, 1995; 7109.13a,10, Amendment 7109.13a-95-1, July 21, 1995; 7109.13a,20 Contents, Amendment 7109.13a-95-1, July 21, 1995; 7109.13a,20, Amendment 7109.13a-95-1, July 21, 1995; 7109.13a,21.1,Ex. 01, Amendment 7109.13a-95-1, July 21, 1995; 7109.13a,21.7,Ex. 01, Amendment 7109.13a-95-1, July 21, 1995; 7109.13a,30 Contents, Amendment 7109.13a-95-1, July 21, 1995; 7109.13a,30, Amendment 7109.13a-95-1, July 21, 1995; 7109.13a,40 Contents, Amendment 7109.13a-95-1, July 21, 1995; 7109.13a,40, Amendment 7109.13a-95-1, July 21, 1995

Digest: Following is an explanation of the changes throughout the directive by section.

7109.13a: This is a technical amendment that converts the format and style of this Forest Service Handbook (FSH) title (previously in “Applixware”) to the new FSH template using the agency’s current corporate word processing software. Where chapters were previously organized into more than one document, they are now merged into one chapter whenever possible.

Although some minor typographical and technical errors have been corrected, this amendment contains no changes to the substantive direction in this Handbook.

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21 - Acquisition of Aerial Photography

21.1 - Approval

The following are the minimum requirements for approval of aerial photography applications:

1. The requesting unit must fill out and submit the following to the Regional Staff Director for engineering activities or Station, Area, or Institute Director:
 - a. Form AD-341, Application To Secure Aerial Photography (ex. 01).
 - b. Form FS-6300-4, Request for Contract Action.
 - c. Aerial photography project description worksheet ex. 02 and table 1 from the Forest Service Utility Guide for Aerial Photography, section 2 (sec. 06.2). Include adequate documentation of the decision process by which scale and emulsion were determined.
 - d. Form AD-700, Procurement Request.
 - e. Form AD-838, Purchase Order.
2. For all block area projects of 100 square miles or more, fill out and submit the following to the Consolidated Farm Service Agency/Aerial Photography Field Office (CFSA/APFO). If the block area is less than 100 square miles, the following documents should be completed, but notification to the CFSA/APFO is not required.
 - a. Form AD-341, Application To Secure Aerial Photography (ex. 01), with signature of Regional Staff Director for engineering activities or Station, Area, or Institute Director.
 - b. Three copies of 1:5,000,000-scale map of the Region showing the project area for each scale and type of photography. Use separate maps as needed to avoid overlaps or to ensure clarity. Clearly and legibly identify county names and boundaries affected by the project.
 - c. Completed project description worksheet (ex. 02).
 - d. Form FS-6300-4, Request for Contract Action.
 - e. Any previous flight plan maps that would expedite flight planning.
 - f. A Secondary Base Series map or by-product with the project area clearly identified. This avoids confusion at CFSA/APFO for coding checks.
 - g. Matte film positives of maps to be used for spot indexes, if required. Title block must conform to CFSA specifications.

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- h. Names and addresses of any individuals who are to receive current flight progress reports from the contractor.
- i. The name, address, and telephone number of a Forest Service Contracting Officer's Technical Representative to assist CFSA in contract administration.
- j. Form AD-700, Procurement Request.
- k. Form AD-838, Purchase Order. See Form ASCS-441 (ex. 03) for cost information on procuring aerial photography. Obtain ASCS-441 (ex. 03) from the CFSA/APFO.

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21.1 - Exhibit 01

U.S. DEPARTMENT OF AGRICULTURE, FOREST SERVICE APPLICATION TO SECURE AERIAL PHOTOGRAPHY		APPLICATION NUMBER	
INSTRUCTIONS: (A) Submit original and three copies of this form and three project maps. (B) Attach map information office form "Record of Aerial Photography or Mosaic". (C) Attach USGS Map, Scale 1:5,000,000 on which the area to be photographed is delineated.			
1. Name of Agency			
2. Project Identification			
3. State or States			
4. County or Counties			
5. Approximate Area to be Photographed		A. Squared Miles	B. Lineal Miles
6. Estimated Time For Securing Photography		A. Data to Start	B. Date to Complete
7. Purpose of Project			
8. A. Proposed Negative Scale		B. Focal Length of Lens	C. Type of Film be Used
9. Will the Photography be Contracted Outside Government? (Yes or No. If "No" Give name of Agency which will do the work)			
10. What Agency, if Any, Will Cooperate in Securing the Photography?			
11. New Symbols Assigned			
12. Remarks			
13. Submitted By	Signature	B. Title	C. Date
14. Approved By	Signature	B. Title	C. Date

FS-7100-26 (7/95)

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21.1 - Exhibit 02

ACQUISITION OF AERIAL PHOTOGRAPHY
PROJECT DESCRIPTION WORKSHEET

PROJECT NAME Shoshone National Forest CODE 612140
Contact Person (ground cond.) Richard Miller Comm. Phone 527-6241
Approximate square miles 4760 Scale of imagery 1:24,000
Flight Lines: Approximate linear miles 2038, Number 41, Direction N-S
Focal Length of camera(s) 6 ", 153 mm, No. of fiducials required 4 or 8
Camera filter Antivignetting
Minimum sun angle 45 deg. Photo season July 1, 1994 - Oct. 3, 1994
Scale and type of flight map(s) furnished 1:100,000, topographic
Exposure stations required NA Allowable horizontal deviation (per spec.)
Endlap Optimum = 62 %, min. 57 %, Max 67 %
Sidelpap Optimum = 30 %, min. 15 %, Max 45 %
Type of film emulsion(s) Color negative, Kodak 2445 or equivalent
Delivery prints type B/W contacts Quantity 1 set
Spot index map(s) scale 1:126,720 Format Matte film No. of sheets 4
Photo-indexes scale NA Type of prints NA Quantity NA
No. of aircraft, camera, crew permitted One or more
Type of ground cover Mountain Timber Ground targets NA
Dept. identifier USDA-FS24 Roll designator 192, 292, etc.
Contractor sample required yes Furnished by contractor -- By APFO yes
Intended use of photography (Please be specific) Resource administration
inventory management and engineering reconnaissance.

21.1 - Exhibit 02--Continued

Other conditions or requirements Three complete sets of color contact prints of entire project and one set of color contact prints of all coverage except wilderness areas shall be purchased through ASCS/APFO.
Color balance samples from APFO are required.

Contact for questions, Contracting Section, Aerial Photography Field Office
(801) 975-3513, Fax: 801-975-3529.

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21.1 - Exhibit 03

<p>ASCS-441 (08-27-85)</p> <p style="text-align: right;">U.S. DEPARTMENT OF AGRICULTURE Agricultural Stabilization and Conservation Service</p> <p style="text-align: center;">REQUISITION FOR AERIAL PHOTOGRAPHS</p> <p style="text-align: center;">FOR U.S. GOVERNMENT AGENCY USE ONLY</p> <p style="text-align: center;">PLEASE SHOW BILLING ADDRESS</p>					<p>11. ORDERING UNIT CODE</p> <p>12. FUNDS CHARGEABLE</p> <p>I certify that these items are necessary for use in the public service.</p> <p>13. SIGNATURE</p> <p>14. TITLE</p> <p>DATE</p>																																																																																																																						
<p>1. REQUISITION OR PURCHASE ORDER NO.</p> <p>00-000-0000</p>																																																																																																																											
<p>2. PRINT OR TYPE (Name of)</p> <p>USDA - Forest Service</p>																																																																																																																											
<p>3. STREET ADDRESS</p> <p>Engineering - Geometronics</p> <p>P.O. Box 06090</p>																																																																																																																											
<p>4. CITY, STATE AND ZIP CODE</p> <p>201 14th Street, SW</p> <p>Washington, DC 20540</p>																																																																																																																											
<p>5. TOTAL REPRODUCTION</p> <p>See Below</p>					<p>6. REMITTED</p> <p>\$</p>		<p>7. TELEPHONE NO (include area code)</p> <p>(202) 235-0000</p>		<p>15. ORDER NO</p>		<p>16. DATE REC'D</p>		<p>17. USER SERVICES TO</p>																																																																																																														
<p>IDENTIFICATION OF PHOTOGRAPHY</p>										<p>18. AMOUNT OF ORDER</p> <p>\$</p>		<p>19. REFUND OR DUE</p> <p>\$</p>																																																																																																															
<p>8. STATE OR REGION</p> <p>Pacific Southwest-R5</p>					<p>9. COUNTY OR FOREST AREA</p> <p>Various</p>																																																																																																																						
<p>10. EXPOSURES (fill in all columns)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SIZE AND TYPE REPRODUCTIONS</th> <th>QUAN. EACH</th> <th>MMAP YEAR</th> <th>STATE & COUNTY CODE</th> <th>ROLL NO.</th> <th>EXPOSURE NO.</th> <th>SHIFT OR "OL"</th> <th>PROJECTION SETTING</th> <th>E-W TILT</th> <th>N-S TILT</th> <th>CAN NO</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> <th>G</th> <th>H</th> <th>I</th> <th>J</th> <th>K</th> </tr> </thead> <tbody> <tr> <td>10X10 color prints</td> <td>2</td> <td></td> <td>06071 SB-02</td> <td>672</td> <td>25-30</td> <td></td> <td></td> <td></td> <td></td> <td>F3165</td> </tr> <tr> <td>1992 1:15,840 film type CN</td> <td>2</td> <td></td> <td></td> <td></td> <td>65-70</td> <td></td> <td></td> <td></td> <td></td> <td>F3165</td> </tr> <tr> <td></td> <td>1</td> <td></td> <td>06071 SB-02</td> <td>672</td> <td>80-85</td> <td></td> <td></td> <td></td> <td></td> <td>F3165</td> </tr> <tr> <td>10X10 color diapositives</td> <td>1</td> <td></td> <td>06071 SB-02</td> <td>772</td> <td>2-4</td> <td></td> <td></td> <td></td> <td></td> <td>F3166</td> </tr> <tr> <td>10X10 color prints</td> <td>2</td> <td></td> <td>06093 KL-05</td> <td>1175</td> <td>78-81</td> <td></td> <td></td> <td></td> <td></td> <td>F1359</td> </tr> <tr> <td>1992 1:15,840 film type CN</td> <td>3</td> <td></td> <td></td> <td></td> <td>123-126</td> <td></td> <td></td> <td></td> <td></td> <td>F1359</td> </tr> <tr> <td>2X color enlargement</td> <td>1</td> <td></td> <td>06093 KL-05</td> <td>3575</td> <td>174</td> <td></td> <td></td> <td></td> <td></td> <td>F1383</td> </tr> <tr> <td>10X10 B&W diapositives</td> <td>1</td> <td></td> <td>06093 KL-05</td> <td>1175</td> <td>78-81</td> <td></td> <td></td> <td></td> <td></td> <td>F1359</td> </tr> </tbody> </table>														SIZE AND TYPE REPRODUCTIONS	QUAN. EACH	MMAP YEAR	STATE & COUNTY CODE	ROLL NO.	EXPOSURE NO.	SHIFT OR "OL"	PROJECTION SETTING	E-W TILT	N-S TILT	CAN NO	A	B	C	D	E	F	G	H	I	J	K	10X10 color prints	2		06071 SB-02	672	25-30					F3165	1992 1:15,840 film type CN	2				65-70					F3165		1		06071 SB-02	672	80-85					F3165	10X10 color diapositives	1		06071 SB-02	772	2-4					F3166	10X10 color prints	2		06093 KL-05	1175	78-81					F1359	1992 1:15,840 film type CN	3				123-126					F1359	2X color enlargement	1		06093 KL-05	3575	174					F1383	10X10 B&W diapositives	1		06093 KL-05	1175	78-81					F1359
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<p>SPECIAL INSTRUCTIONS OR INTENDED USE</p> <p>Item 5: Total reproductions 50</p> <p>10X10 color prints 3</p> <p>10X10 color diapositives 4</p> <p>10X10 B&W diapositives 1</p> <p>2X color enlargement</p> <p>Earth tones desired on color prints.</p> <p>Trim paper prints to image edge.</p>																																																																																																																											
<p>PLEASE ALLOW 30 DAYS FOR PROCESSING AND 10 DAYS FOR SHIPPING</p>																																																																																																																											
<p>BAR CODE</p>				<p>PRINTED BY</p>				<p>INSPECTED BY</p>																																																																																																																			

PLEASE DO NOT REMOVE CARBON PAPER
(Submit This Copy With Your Order)

21.2 - Specifications

Copies of Department of Agriculture Specifications for Aerial Photography, Section C, are available from the Consolidated Farm Service Agency/Aerial Photography Field Office. See section 22.1 for address.

21.3 - Coding

The codes used for Forest Service aerial photography projects are 6-character, alphanumeric (for example, 62809L). Assign codes to each project and enter the codes on Form AD-341, Application To Secure Aerial Photography, under item 11. The coding for Forest Service aerial photography projects must conform to the following instructions.

1. Project Identification. Projects are identified by the first and second digit positions.
 - a. Forest Service projects administered by the Consolidated Farm Service Agency/Aerial Photography Field Office begin with two digits ranging from 61 through 70. The second of the two digits identifies consecutive projects on the same Forest in the same fiscal year.
 - b. Forest Service projects administered by the Forest Service (strip or spot projects or block projects of less than 100 square miles) begin with two digits ranging from 71 through 90. The second digit also identifies consecutive projects on the same Forest and in the same fiscal year.
2. Region Identification. Regions are identified by the third digit position. Regions 1 through 9 respectively must use the corresponding digit for identification; Region 10 uses 0 (zero).
3. Forest Identification. Forests are identified by the fourth and fifth digit positions, using 2-digit organizational structure codes listed as third level symbols from Regional Supplements.
4. Ranger District Identification. The final digit is normally 0 (zero), indicating an entire National Forest. However, a Region wishing to specifically identify a subunit should use the level four organizational structure code but limit it to a single digit. Whenever the Ranger District code exceeds 9, symbolization switches to alpha notation in capitals, using the letters J for 10, K for 11 (omitting the letters O and Q) through S for 17.

Units consisting of several Districts, but are less than an entire Forest, may be given a new code (18 through 24 -- symbols T through Z) if flown as one block.

Regions planning to use new multi-District codes must provide to the Washington Office Engineering Director a complete listing of divisions showing included Districts in order to assign codes.

5. Sample Explanation. The example, 62809L, previously given in this section, is interpreted as follows:

This code, 62809L, is a Forest Service contract (6) issued and administered by CFSA/APFO. This is the second such project this fiscal year (2) to be on the Southern Region's (8) Ouachita National Forest (09), Tiak Ranger District (L).

21.31 - Code Listing for the National Forests

1. Region 1 - Code 1 in third digit position

Beaverhead National Forest	1020
Dillon Ranger District	1021
Wise River Ranger District	1022
Wisdom Ranger District	1023
Madison Ranger District	1027
Bitterroot National Forest	1030
Stevensville Ranger District	1031
Darby Ranger District	1032
Sula Ranger District	1033
West Fork Ranger District	1034
Idaho Panhandle National Forests	1040
Wallace Ranger District	1041
Fernan Ranger District	1043
St. Maries Ranger District	1044
Sandpoint Ranger District	1046
Bonners Ferry Ranger District	1047
Priest Lake Ranger District	1048
Clearwater National Forest	1050
Pierce Ranger District	1051
Palouse Ranger District	1052
North Fork Ranger District	1053
Lochsa Ranger District	1055
Powell Ranger District	1056
Custer National Forest	1080
Sheyenne Ranger District	1081
Beartooth Ranger District	1082
Sioux Ranger District	1083
Ashland Ranger District	1084

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Grand River Ranger District	1086
Little Missouri National Grassland	1089
Deerlodge National Forest	1090
Deer Lodge Ranger District	1091
Jefferson Ranger District	1092
Philipsburg Ranger District	1093
Butte Ranger District	1094
Flathead National Forest	1100
Swan Lake Ranger District	1101
Spotted Bear Ranger District	1104
Hungry Horse Ranger District Glacier View	1106
Ranger District	1107
Tally Lake Ranger District	1108
Gallatin National Forest	1110
Big Timber Ranger District	1111
Livingston Ranger District	1112
Gardiner Ranger District	1113
Bozeman Ranger District	1115
Hebgen Lake Ranger District	1116
Helena National Forest	1120
Townsend Ranger District	1121
Helena Ranger District	1122
Lincoln Ranger District	1123
Kootenai National Forest	1140
Rexford Ranger District	1141
Fortune Ranger District	1143
Three Rivers Ranger District	1144
Libby Ranger District	1145
Fisher River Ranger District	1146
Cabinet Ranger District	1147
Lewis and Clark National Forest	1150
Rocky Mountain Ranger District	1151
Judith Ranger District	1154
Musselshell Ranger District	1156
Kings Hill Ranger District	1157

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Lolo National Forest	1160
Missoula Ranger District	1163
Ninemile Ranger District	1164
Seeley Lake Ranger District	1165
Superior Lake Ranger District	1166
Plains-Thompson Falls Ranger District	1167
Nez Perce National Forest	1170
Salmon River Ranger District	1171
Clearwater Ranger District	1174
Red River Ranger District	1175
Moose Creek Ranger District	1176
Selway Ranger District	1177
Elk City Ranger District	1178
2. Region 2 - Code 2 in third digit position	
Bighorn National Forest	2020
Buffalo Ranger District	2021
Medicine Wheel Ranger District	2023
Paintrock Ranger District	2024
Tensleep Ranger District	2025
Tongue Ranger District	2026
Black Hills National Forest	2030
Bearlodge Ranger District	2031
Custer/Elk Mountain Ranger District	2033
Harney/Pactola Ranger District	2036
Spearfish/Nemo Ranger District	2038
Grand Mesa, Uncompahgre, and Gunnison National Forests	2040
Collbran/Grand Junction Ranger District	2041
Norwood Ranger District	2045
Ouray Ranger District	2046
Cebolla/Taylor Ranger District	2047
Paonia Ranger District	2048
Medicine Bow National Forest	2060
Brush Creek/Hayden Ranger District District	2062
Laramie Peak Unit (Portion of Douglas Ranger District)	2069
Thunder Basin National Grassland (Portion of Douglas Ranger District)	2064

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Laramie Ranger District	2065
Nebraska National Forest	2070
Bessey Unit (Portion of Bessey Ranger District)	612071
Samuel R. McKelvie National Forest (Portion of Bessey Ranger District)	61207W
Pine Ridge Unit (Portion of Pine Ridge Ranger District)	612072
Oglala National Grassland (Portion of Pine Ridge Ranger District)	61207V
National Grassland (Fall River and Portion of Wall Ranger District)	
Fort Pierre National Grasslands (Portion of Wall Ranger District)	61207U
Rio Grande National Forest	2090
Conejos Ranger District	2093
Divide Ranger District	2094
Saguache Ranger District	2096
Arapaho and Roosevelt National Forests	2100
Boulder Ranger District	2101
Estes-Poudre Ranger District	2104
Redfeather Ranger District	2105
Pawnee Ranger District (National Grassland)	2106
Clear Creek Ranger District	2107
Sulphur Ranger District	2108
Routt National Forest	2110
Hahns Peak/Bears Ears Ranger District	2113
North Park/Middle Park Ranger District (Portion of Arapaho National Forest)	2114
Yampa Ranger District	2115
Pike and San Isabel National Forests	2120
Leadville Ranger District	2121
Salida Ranger District	2122
San Carlos Ranger District	2123
Comanche Ranger District (Comanche National Grassland)	2126
Cimarron Ranger District (National Grassland)	2127
Pikes Peak Ranger District	2129
South Park Ranger District	212J
South Platte Ranger District	212K

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San Juan National Forest	2130
Dolores/Mancos Ranger District	2132
Pagosa Ranger District	2136
Shoshone National Forest	2140
Clarks Fork Ranger District	2141
Greybull Ranger District	2142
Washakie Ranger District	2143
Wapiti Ranger District	2144
Wind River Ranger District	2145
White River National Forest	2150
Aspen Ranger District	2151
Blanco Ranger District	2152
Sopris Ranger District	2153
Eagle Ranger District	2154
Holy Cross Ranger District	2157
Rifle Ranger District	2158
Dillon Ranger District (Arapaho National Forest)	215J
3. Region 3 - Code 3 in the third digit position	
Apache-Sitgreaves National Forests	3010
Alpine Ranger District	3011
Clifton Ranger District	3013
Chevelon Ranger District	3014
Heber Ranger District	3015
Springerville Ranger District	3016
Lakeside Ranger District	3017
Carson National Forest	3020
Canjilon Ranger District	3021
El Rita Ranger District	3022
Jicarilla Ranger District	3023
Camino Real Ranger District	3024
Tres Piedras Ranger District	3026
Questa Ranger District	3027
Cibola National Forest	3030
Mt. Taylor Ranger District	3032
Magdalena Ranger District	3033

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Mountainair Ranger District	3034
Sandia Ranger District	3035
Black Kettle Ranger District	3036
Kiowa/Rita Blanca Ranger District	3037
Coconino National Forest	3040
Beaver Creek Ranger District	3041
Long Valley Ranger District	3044
Mormon Lake Ranger District	3045
Peaks Ranger District	3043
Sedona Ranger District	3046
Blue Ridge Ranger District	3047
Coronado National Forest	3050
Douglas Ranger District	3051
Nogales Ranger District	3052
Safford Ranger District	3054
Gila National Forest	3060
Black Range Ranger District	3062
Luna Ranger District	3063
Glenwood Ranger District	3064
Wilderness Ranger District	3065
Reserve Ranger District	3066
Silver City Ranger District	3067
Quemado Ranger District	3069
Kaibab National Forest	3070
Williams Ranger District	3071
Chalendar Ranger District	3072
North Kaibab Ranger District	3073
Tusayan Ranger District	3074
Lincoln National Forest	3080
Smokey Bear Ranger District	3081
Cloudcroft Ranger District	3082
Guadalupe Ranger District	3083
Mayhill Ranger District	3084
Prescott National Forest	3090
Chino Valley Ranger District	3091
Prescott Fire Center	3092

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Bradshaw Ranger District	3093
Verde Ranger District	3095
Santa Fe National Forest	3100
Coyote Ranger District	3101
Cuba Ranger District	3102
Jemez Ranger District	3103
Pecos/Las Vegas Ranger District	3105
Española Ranger District	3106
Tonto National Forest	3120
Cave Creek Ranger District	3121
Globe Ranger District	3122
Mesa Ranger District	3123
Payson Ranger District	3124
Pleasant Valley Ranger District	3125
Tonto Basin Ranger District	3126
4. Region 4 - Code 4 in third digit position	
Ashley National Forest	4010
Flaming Gorge Ranger District	4011
Vernal Ranger District	4012
Roosevelt Ranger District	4013
Duchesne Ranger District	4014
Boise National Forest	4020
Mountain Home Ranger District	4021
Boise Ranger District	4022
Idaho City Ranger District	4023
Cascade Ranger District	4024
Lowman Ranger District	4025
Emmett Ranger District	4026
Bridger-Teton National Forest	4030
Kemmerer Ranger District	4031
Big Piney Ranger District	4032
Greys River Ranger District	4033
Jackson Ranger District	4034
Buffalo Ranger District	4036
Pinedale Ranger District	4037

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Amendment: 7109.13a-2003-1

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Caribou National Forest	4050
Soda Springs Ranger District	4052
Montpelier Ranger District	4053
Malad Ranger District	4054
Pocatello Ranger District	4055
Challis National Forest	4060
Middle Fork Ranger District	4061
Challis Ranger District	4062
Yankee Fork Ranger District	4063
Lost River Ranger District	4064
Dixie National Forest	4070
Pine Valley Ranger District	4071
Cedar City Ranger District	4072
Powell Ranger District	4073
Escalante Ranger District	4074
Teasdale Ranger District	4075
Fishlake National Forest	4080
Fillmore Ranger District	4081
Loa Ranger District	4082
Beaver Ranger District	4083
Richfield Ranger District	4084
Humboldt National Forest	4090
Mountain City Ranger District	4091
Ruby Mountains Ranger District	4092
Jarbidge Ranger District	4093
Ely Ranger District	4094
Santa Rosa Ranger District	4095
Manti-LaSal National Forest	4100
Sanpete Ranger District	4101
Ferron Ranger District	4102
Price Ranger District	4103
Moab Ranger District	4104
Monticello Ranger District	4105
Payette National Forest	4120
Council Ranger District	4121

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Weiser Ranger District	4122
New Meadows Ranger District	4123
McCall Ranger District	4124
Big Creek Ranger District	4125
Krassel Ranger District	4126
Salmon National Forest	4130
Cobalt Ranger District	4131
North Fork Ranger District	4132
Leadore Ranger District	4134
Salmon Ranger District	4135
Sawtooth National Forest	4140
Burley Ranger District	4141
Twin Falls Ranger District	4142
Ketchum Ranger District	4143
Sawtooth National Recreation Area	4144
Fairfield Ranger District	4145
Targhee National Forest	4150
Dubois Ranger District	4151
Island Park Ranger District	4152
Ashton Ranger District	4153
Palisades Ranger District	4154
Teton Basin Ranger District	4155
Toiyabe National Forest	4170
Carson Ranger District	4171
Bridgeport Ranger District	4172
Austin Ranger District	4173
Tonopah Ranger District	4174
Las Vegas Ranger District	4175
Uinta National Forest	4180
Heber Ranger District	4181
Pleasant Grove Ranger District	4182
Spanish Fork Ranger District	4183
Wasatch National Forest	4190
Salt Lake Ranger District	4191
Kamas Ranger District	4192
Evanston Ranger District	4193

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Mountain View Ranger District	4194
Ogden Ranger District	4195
Logan Ranger District	4196

5. Region 5 - Code 5 in third digit position

Angeles National Forest	5010
Arroyo Seco Ranger District	5011
Mt. Baldy Ranger District	5012
Saugus Ranger District	5013
Valyermo Ranger District	5014
Tujunga Ranger District	5015
Cleveland National Forest	5020
Trabuco Ranger District	5022
Palomar Ranger District	5023
Descanso Ranger District	5024
Eldorado National Forest	5030
Amador Ranger District	5031
Georgetown Ranger District	5033
Pacific Ranger District	5035
Placerville Ranger District	5036
Inyo National Forest	5040
Mono Lake Ranger District	5041
Mammoth Ranger District	5042
White Mountain Ranger District	5043
Mt. Whitney Ranger District	5044
Klamath National Forest	5050
Oak Knoll Ranger District	5051
Happy Camp Ranger District	5052
Salmon River Ranger District	5054
Scott River Ranger District	5055
Goosenest Ranger District	5057
Ukonom Ranger District	5058
Lassen National Forest	5060
Almanor Ranger District	5061
Hat Creek Ranger District	5063
Eagle Lake Ranger District	5068

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Los Padres National Forest	5070
Monterey Ranger District	5071
Santa Lucia Ranger District	5073
Santa Barbara Ranger District	5074
Ojai Ranger District	5075
Mt. Pinos Ranger District	5077
Mendocino National Forest	5080
Corning Ranger District	5081
Stonyford Ranger District	5083
Upper Lake Ranger District	5084
Covelo Ranger District	5086
Modoc National Forest	5090
Warner Mountain Ranger District	5093
Big Valley Ranger District	5094
Devil's Garden Ranger District	5095
Doublehead Ranger District	5096
Six Rivers National Forest	5100
Gasquet Ranger District	5101
Orleans Ranger District	5102
Lower Trinity Ranger District	5103
Mad River Ranger District	5104
Plumas National Forest	5110
Beckwourth Ranger District	5111
Greenville Ranger District	5112
La Porte Ranger District	5113
Oroville Ranger District	5114
Milford Ranger District	5115
Quincy Ranger District	5116
San Bernardino National Forest	5120
Arrowhead Ranger District	5121
Big Bear Ranger District	5122
Cajon Ranger District	5123
San Geronio Ranger District	5124
San Jacinto Ranger District	5125

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Sequoia National Forest	5130
Hume Lake Ranger District	5131
Tule River Ranger District	5132
Hot Springs Ranger District	5133
Greenhorn Ranger District	5134
Cannell Meadow Ranger District	5136
Shasta-Trinity National Forest	5140
Yolla Bolla Ranger District	5141
Hayfork Ranger District	5142
Big Bar Ranger District	5144
Weaverville Ranger District	5146
Shasta Lake Ranger District	5148
Mt. Shasta Ranger District	5149
McCloud Ranger District	514K
Sierra National Forest	5150
Mariposa Ranger District	5151
Pineridge Ranger District	5153
Kings River Ranger District	5154
Minarets Ranger District	5155
Bass Lake Ranger District	5157
Stanislaus National Forest	5160
Mi-Wok Ranger District	5161
Calaveras Ranger District	5162
Summit Ranger District	5163
Groveland Ranger District	5164
Tahoe National Forest	5170
Downieville Ranger District	5173
Foresthill Ranger District	5174
Nevada City Ranger District	5175
Sierraville Ranger District	5176
Truckee Ranger District	5177
Lake Tahoe Basin Management Unit	5190
6. Region 6 - Code 6 in the third digit position	
Colville National Forest	6210
Colville Ranger District	6211

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Kettle Falls Ranger District	6212
Newport Ranger District	6213
Republic Ranger District	6214
Sullivan Lake Ranger District	6215
Columbia Gorge National Scenic Area	6220
Deschutes National Forest	6010
Bend Ranger District	6011
Crescent Ranger District	6012
Fort Rock Ranger District	6013
Sisters Ranger District	6015
Fremont National Forest	6020
Bly Ranger District	6021
Lakeview Ranger District	6022
Paisley Ranger District	6023
Silver Lake Ranger District	6024
Gifford Pinchot National Forest	6030
Mt. St. Helens National Volanic Monument	6031
Mt. Adams Ranger District	6033
Packwood Ranger District	6034
Randle Ranger District	6035
Wind River Ranger District	6038
Malheur National Forest	6040
Bear Valley Ranger District	6041
Burns Ranger District	6042
Long Creek Ranger District	6043
Prairie City Ranger District	6044
Mt. Baker-Snoqualmie National Forest	6050
Mt. Baker Ranger District	6051
Darrington Ranger District	6052
North Bend Ranger District	6055
Skykomish Ranger District	6056
White River Ranger District	6057
Mt. Hood National Forest	6060
Barlow Ranger District	6061
Bear Springs Ranger District	6062

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Clackamas Ranger District	6063
Columbia Gorge Ranger District	6064
Estacada Ranger District	6065
Hood River Ranger District	6066
Zigzag Ranger District	6069
Ochoco National Forest	6070
Big Summit Ranger District	6071
Paulina Ranger District	6072
Prineville Ranger District	6073
Snow Mountain Ranger District	6074
Crooked River National Grassland	6075
Okanogan National Forest	6080
Tonasket Ranger District	6083
Twisp Ranger District	6084
Winthrop Ranger District	6085
Olympic National Forest	6090
Hood Canal Ranger District	6091
Quilcene Ranger District	6092
Quinalt Ranger District	6093
Soleduck Ranger District	6095
Rogue River National Forest	6100
Applegate Ranger District	6101
Ashland Ranger District	6102
Butte Falls Ranger District	6103
Prospect Ranger District	6106
Siskiyou National Forest	6110
Chetco Ranger District	6111
Galice Ranger District	6112
Gold Beach Ranger District	6113
Illinois Ranger District	6114
Powers Ranger District	6115
Siuslaw National Forest	6120
Hebo Ranger District	6121
Mapleton Ranger District	6122
Alsea Ranger District	6123
Oregon Dunes National Recreation Area	6124

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Waldport Ranger District	6125
Umatilla National Forest	6140
Heppner Ranger District	6142
Pomeroy Ranger District	6144
North Fork John Day Ranger District	6145
Walla Walla Ranger District	6146
Umpqua National Forest	6150
Cottage Grove Ranger District	6151
Tiller Ranger District	6152
Diamond Lake Ranger District	6153
North Umpqua Ranger District	6154
Wallowa-Whitman National Forest	6160
Baker Ranger District	6161
Wallowa Valley Ranger District	6162
Eagle Cap Ranger District	6164
Hells Canyon National Recreation Area	6165
LaGrande Ranger District	6166
Pine Ranger District	6167
Unity Ranger District	6169
Wenatchee National Forest	6170
Chelan Ranger District	6172
Cle Elum Ranger District	6173
Entiat Ranger District	6175
Leavenworth Ranger District	6176
Lake Wenatchee Ranger District	6177
Naches Ranger District	6178
Williamette National Forest	6180
Blue River Ranger District	6181
Sweet Home Ranger District	6183
Detroit Ranger District	6184
Rigdon Ranger District	6185
Lowell Ranger District	6186
McKenzie Ranger District	6187
Oakridge Ranger District	6188
Winema National Forest	6200
Chemult Ranger District	6201

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Amendment: 7109.13a-2003-1

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Chiloquin Ranger District	6202
Klamath Ranger District	6203
7. Region 8 - Code 8 in third digit position	
National Forests in Alabama	8010
Bankhead Ranger District	8011
Black Warrior Ranger District	8012
Conecuh Ranger District	8013
Oakmulgee Ranger District	8014
Shoal Creek Ranger District	8015
Talladega Ranger District	8016
Tuskegee Ranger District	8018
William B. Bankhead NF (Bankhead-Black Warrior)	801T
Conecuh NF	8013
Talladega NF	801U
Talladega NF (Oakmulgee)	801V
Talladega NF (Shoal Creek-Talladega)	801W
Tuskegee NF	801X
Daniel Boone National Forest	8020
Morehead Ranger District	8021
Stanton Ranger District	8022
Berea Ranger District	8023
London Ranger District	8024
Somerset Ranger District	8025
Sterns Ranger District	8026
Chattahoochee-Oconee National Forest	8030
Armuchee Ranger District	8031
Toccoa Ranger District	8032
Chestatee Ranger District	8033
Brasstown Ranger District	8034
Talulah Ranger District	8035
Chattooga Ranger District	8036
Cohutta Ranger District	803L
Cherokee National Forest	8040
Hiwassee Ranger District	8041
Nolichucky Ranger District	8042
Ocoee Ranger District	8043
Tellico Ranger District	8044
Unaka Ranger District	8045

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Watauga Ranger District	8046
Cherokee NF (Hiwassee-Ocoee-Tellico)	804T
National Forests in Florida	8050
Apalachicola Ranger District	8051
Lake George Ranger District	8052
Osceola Ranger District	8054
Seminole Ranger District	8055
Wakulla Ranger District	8056
Apalachicola NF (Apalachicola-Wakulla)	805T
Ocala NF (Lake George-Seminole)	805U
Osceola NF	8054
Kisatchie National Forest	8060
Catahoula Ranger District	8061
Evangeline Ranger District	8062
Kisatchie Ranger District	8063
Winn Ranger District	8064
Vernon Ranger District	8065
Caney Ranger District	8066
National Forests in Mississippi	8070
Bienville Ranger District	8071
Desoto Ranger District	8073
Bude Ranger District	8074
Chickasawhay Ranger District	8075
Delta Ranger District	8076
Holly Springs Ranger District	8077
Homochitto Ranger District	8078
Strong River Ranger District	807J
Tombigbee Ranger District	807S
Bienville NF (Bienville-Strong River)	807T
Delta NF	8076
Holly Springs NF	8077
Homochitto NF (Bude-Homochitto)	807V
Tombigbee NF	807S
George Washington National Forest	8080
Deerfield Ranger District	8081
Dry River Ranger District	8082
James Ranger District	8083
Lee Ranger District	8084
Pedlar Ranger District	8085

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Warm Springs Ranger District	8086
Ouachita National Forest	8090
Choctaw Ranger District	8091
Caddo Ranger District	8092
Cold Springs Ranger District	8093
Fourche Ranger District	8094
Jessieville Ranger District	8095
Kiamichi Ranger District	8096
Mena Ranger District	8097
Oden Ranger District	8098
Poteau Ranger District	8099
Womble Ranger District	809J
Winona Ranger District	809K
Tiak Ranger District	809L
Ozark - St. Francis National Forests	8100
Sylamore Ranger District	8101
Buffalo Ranger District (Buffalo-Henry Cohan) Bayou	8102
Ranger District	8103
Pleasant Hill Ranger District	8104
Boston Mountain Ranger District	8105
Mt. Magazine Ranger District	8106
St. Francis Ranger District	8107
St. Francis NF	8107
National Forests in North Carolina	8110
Cheoah Ranger District	8112
Croatan Ranger District	8113
French Broad Ranger District	8114
Grandfather Ranger District	8115
Highland Ranger District	8116
Pisgah Ranger District	8117
Toecane Ranger District	8118
Tusquitee Ranger District	8119
Uwharrie Ranger District	811J
Wayah Ranger District	811K
Croatan NF	8113
Nantahala NF (Cheoah-Highland-Tusquitee- Wayah)	811T
Uwharrie NF	811J
Francis Marion and Sumter National Forests	8120
Enoree Ranger District	8121

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Andrew Pickens Ranger District	8122
Long Cane Ranger District	8123
Wambaw Ranger District	8125
Witherbee Ranger District	8126
Tyger Ranger District	8127
Edgefield Ranger District	8128
Francis Marion NF (Wambaw-Witherbee)	812T
Sumter NF (Andrew Pickens)	8122
Sumter NF (Long Cane)	812U
Sumter NF (Enoree-Tyger)	812V
National Forests in Texas	8130
Angelina Ranger District	8131
San Jacinto Ranger District	8132
Neches Ranger District	8133
Raven Ranger District	8134
Tenaha Ranger District	8135
Trinity Ranger District	8136
Yellowpine Ranger District	8137
Cadda-Lyndon B. Johnson Ranger District	8138
Angelina NF	8131
Davey Crockett NF (Neches-Trinity)	813T
Sabine NF (Tenaha-Yellowpine)	813U
Sam Houston NF (Raven-San Jacinto)	813V
Caddo-Lyndon B. Johnson National Grasslands	8138
Jefferson National Forest	8140
Blacksburg Ranger District	8141
Clinch Ranger District	8142
Glenwood Ranger District	8143
Mt. Rogers National Recreation Area	8144
New Castle Ranger District	8145
Wythe Ranger District	8146
Jefferson NF (Clinch)	8142
Caribbean National Forest	8310
8. Region 9 - Code 9 in third digit position	
Chequamegon National Forest	9020
Park Falls Ranger District	9021
Glidden Ranger District	9022
Medford Ranger District	9023
Hayward Ranger District	9024

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Washburn Ranger District	9025
Chippewa National Forest	9030
Blackduck Ranger District	9031
Cass Lake Ranger District	9032
Deer River Ranger District	9033
Marcell Ranger District	9034
Walker Ranger District	9035
Huron National Forest	9040
Mio Ranger District	9041
Tawas Ranger District	9042
Harrisville Ranger District	9043
Manistee National Forest	9045
Baldwin Ranger District	9046
Cadillac Ranger District	9047
Manistee Ranger District	9048
White Cloud Ranger District	9049
Mark Twain National Forest	9050
Fredericktown Ranger District	9052
Houston Ranger District	9053
Poplar Bluff Ranger District	9054
Potosi Ranger District	9055
Rolla Ranger District	9056
Salem Ranger District	9057
Cedar Creek Ranger District	9058
Ava Ranger District	905K
Cassville Ranger District	905L
Doniphan Ranger District	905M
Van Buren Ranger District	905N
Willow Springs Ranger District	905P
Winona Ranger District	905R
Nicolet National Forest	9060
Eagle River Ranger District	9062
Florence Ranger District	9063
Lakewood Ranger District	9064
Laona Ranger District	9065

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Ottawa National Forest	9070
Bergland Ranger District	9071
Bessemer Ranger District	9072
Iron River Ranger District	9073
Kenton Ranger District	9074
Ontonagon Ranger District	9075
Watersmeet Ranger District	9076
Shawnee National Forest	9080
Elizabethtown Ranger District	9081
Jonesboro Ranger District	9082
Murphysboro Ranger District	9083
Vienna Ranger District	9084
Superior National Forest	9090
Aurora Ranger District	9091
Gunflint Ranger District	9092
Isabella Ranger District	9094
Kawishiwi Ranger District	9095
LaCroix Ranger District	9096
Tofte Ranger District	9097
Virginia Ranger District	9098
Hiawatha National Forest	9100
Rapid River Ranger District	9101
Manistique Ranger District	9102
Munising Ranger District	9103
Sault Ste. Marie Ranger District	9104
St. Ignace Ranger District	9105
Wayne National Forest	9115
Athens Ranger District	9111
Ironton Ranger District	9113
Marietta Unit	9114
Hoosier National Forest	9116
Brownstown Ranger District	9112
Tell City Ranger District	9117
Allegheny National Forest	9190
Sheffield Ranger District	9191

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Marienville Ranger District	9192
Bradford Ranger District	9193
Ridgway Ranger District	9194
Green Mountain National Forest	9200
Middlebury Ranger District	9201
Manchester Ranger District	9202
Hector Land Utilization Project	9203
Rochester Ranger District	9205
Monongahela National Forest	9210
Cheat Ranger District	9211
Gauley Ranger District	9212
Greenbrier Ranger District	9213
Marlinton Ranger District	9214
Potomac Ranger District	9215
White Sulphur Ranger District	9216
White Mountain National Forest	9220
Ammonoosuc Ranger District	9221
Androscoggin Ranger District	9222
Evans Notch Ranger District	9223
Pemigewasset Ranger District	9224
Saco Ranger District	9225
9. Region 10 - Code 0 (zero) in third digit position	
Tongass National Forest (Strikine Area)	0020
Petersburg Ranger District	0021
Wrangell Ranger District	0022
Tongass National Forest (Chatham Area)	0030
Sitka Ranger District	0031
Hoohah Ranger District	0032
Juneau Ranger District	0033
Admiralty Island National Monument	0034
Yakutat Ranger District	0035
Chugach National Forest	0040
Glacier Ranger District	0041
Cordova Ranger District	0042
Seward Ranger District	0043

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Tongass National Forest (Ketchikan Area)	0050
Craig Ranger District	0051
Ketchikan Ranger District	0052
Thorne Bay Ranger District	0053
Misty Fiords National Monument	0054

21.32 - Code Changes

Periodic changes to the codes result from administrative changes. Notify the Washington Office Engineering Staff-Geometronics of any change that affects the code listing.

21.4 - Verbal Approvals

In emergency situations, obtain verbal approvals for aerial photography acquisitions. Obtain approval from the Regional Staff Director for engineering activities or the Station, Area, or Institute Director and from the Consolidated Farm Service Agency/Aerial Photography Field Office (CFSA/APFO) prior to project initiation. Instructions for obtaining a verbal approval are as follows:

1. By phone, provide the Regional Office Geometronics Leader with the information necessary to complete Form AD-341, Application To Secure Aerial Photography. Include a statement explaining the nature of the emergency. The Regional Staff Director for engineering activities or Station or Area Director shall request verbal approval by phone from the Director, CFSA/APFO, 801-975-3513.

2. Prepare materials per section 21.1 of this Handbook.

3. Forward prepared materials to CFSA/APFO for formal approval as soon as possible.

21.5 - Progress Reporting

The Consolidated Farm Service Agency/Aerial Photography Field Office furnishes to those designated in the contract monthly progress reports (APFO-7) listing the State, county, or area, square miles, scale, linear miles, date of award, contract or purchase order number, linear mile cost, name of contractor, approximate photo season, percent of flying completed, percent of inspection completed, agency supplying funds, date project accepted, and other applicable data (CFSA-Status of Aerial Photography - APFO-7).

21.6 - Spot Cards

The Consolidated Farm Service Agency/Aerial Photography Field Office (CFSA/APFO) furnishes all Regional Offices with copies of spot cards on file at CFSA/APFO. Spot cards contain information pertinent to each project, including the can number for use in column K of information block 10 on Form ASCS-441, Requisition for Aerial Photographs (sec. 21.1, ex. 03).

21.7 - Consolidated Farm Service Agency/Aerial Photography Field Office Reporting Requirements

Report aerial photography requirements to CFSA/APFO by June 1. See FSM 7145.17 for direction on requirements. (Ex. 01 and Ex. 02).

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21.7 - Exhibit 01

FY 96
Region R-4

NATIONAL FOREST OR AREA	SCALE	SQUARE MILES	FILM TYPE	CAMERA TYPE	REMARKS
Boise N.F. - Idaho	1:15840	4503	2445	6"	
Uinta N.F. Utah	1:15840	1700	2445	6"	

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REGION	R-4

BOTH FORMS SHOULD BE COMPLETED AND FORWARDED TO THE DIRECTOR, CFSA AND WASHINGTON OFFICE GEOMETRONICS FOR 1 JUNE RECEIPT IN ACCORDANCE WITH FSM 7145.17.

22 - Aerial Film Holdings

The principal agencies holding and providing reproductions from aerial films are Consolidated Farm Service Agency/Aerial Photography Field Office, Forest Service, U.S. Geological Survey, U.S. Coast and Geodetic Survey, and National Archives and Records Administration.

22.1 - Consolidated Farm Service Agency Holdings

22.11 - Department of Agriculture Aerial Photography Comprehensive Listing

The Consolidated Farm Service Agency/Aerial Photography Field Office (CFSA/APFO) is the depository for USDA aerial film. Holdings are published in the USDA Aerial Photography Comprehensive Listing. Place orders for standard products on Form ASCS-441, Requisition for Aerial Photographs, (sec. 21.1, ex. 03) in accordance with instructions on the reverse side of the form.

The CFSA also holds original National High-Altitude Photography Program, 1:58,000 color infrared film, National Aerial Photography Program 1:40,000 scale black and white or color infra-red film, and some National Aeronautics and Space Administration and Lands at imagery. Place orders on Form ASCS-441, Requisition for Aerial Photographs, (sec. 21.1, ex. 03).

Additional information is available by calling the CFSA/APFO Sales Section, 801-975-3503. The address for ordering reproductions is:

Aerial Photography Field Office, CFSA/USDA
2222 West 2300 South, P.O. Box 30010
Salt Lake City, UT 84130

22.12 - Emergency Services

The CFSA/APFO annually provides the Forest Service with updated emergency service procedures, including provisions for telephone orders. Follow these telephone orders immediately with Form ASCS-441, Requisition for Aerial Photographs, for confirmation of the order.

22.2 - Forest Service Holdings

Project and some resource photography may be held by Forest Service geometronics organizations. This photography is usually for areas of less than 100 square miles. Coordinate inquiries or orders for reproductions from this imagery with the Regional geometronics organizations.

22.3 - United State Geological Survey Holdings

1. Earth Science Information Center (ESIC). The ESIC can provide information on the availability and location of cartographic data, including aerial and space photography and satellite imagery acquired by most Federal and State agencies.

When making inquiries, clearly identify geographic areas. Latitude and longitude coordinates are preferable because this is the method required for the computer search. The ESIC offices with computer links are:

Earth Science Information Center - ESIC U.S. Geological Survey 507 National Center Reston, VA 22092 Com. 703-648-6045	Alaska Office Earth Science Information Center - ESIC U.S. Geological Survey 4230 University Drive Anchorage, AK 99508 Com. 907-786-7011
Western Mapping Center - ESIC U.S. Geological Survey 345 Middlefield Road Menlo Park, CA 94025 Com. 415-329-4390	or 605 W. 4th Ave., Room G-84 Alaska, AK 88501 Com. 907-271-2754
Rocky Mountain Mapping Center - ESIC U.S. Geological Survey Box 25046, Building 25 Federal Center, Stop 504 Denver, CO 80225 Com. 303-236-5829	Mid-Continent Mapping Center - ESIC U.S. Geological Survey 1400 Independence Road Rolla, MO 65401 Com. 314-341-0851
Earth Science Information Center U.S. Geological Survey Stennis Space Center Bldg. 3101 NSTL Station, MS 39529 Com. 601-688-3544	

In addition, several States have computer links with ESIC. Check with the appropriate State agency.

2. Earth Resources Observation Systems (EROS) Data Center (EDC). The primary functions of EDC are storage and reproduction of aerial photography acquired by the Department of the Interior (except for current projects), the National Aeronautics and Space Administration, the Department of Defense (unclassified), and imagery acquired from Landsat.

Requestors may order through:

User Services
EROS Data Center, USGS
Sioux Falls, SD 57198
605-594-6151

Requestors may also order through any U.S. Geological Survey (USGS)-ESIC office.

3. Systeme Pour L'Observation De La Terra (SPOT) Image Corporation. To order SPOT data imagery of the earth's surface acquired by the SPOT satellites contact:

SPOT Image Corporation
1897 Preston White Drive
Reston, VA 22091-4368
703-620-2200

4. Mapping Centers. The only film held by the four USGS Mapping Centers is for current mapping projects. Information concerning film held at the Mapping Centers and the procedures for ordering film are available from the appropriate Center.

22.4 - National Oceanographic Atmospheric Administration (NOAA)

All NOAA imagery is stored in the Department of Commerce Photo Lab. Check on availability through either the Earth Science Information Center or directly through NOAA. Send orders for reproductions from National Ocean Service films through normal procurement channels on a purchase order to:

National Oceanographic Atmospheric Administration
SSMC-3, Station 6109, N/CF2x5
1315 East West Highway
Silver Spring, MD 20910-3233

22.5 - National Archives and Records Administration

The Consolidated Farm Service Agency/Aerial Photography Field Office transfers all film holdings that are more than 40 years old to NARA. This transfer occurs at 5-year intervals (for example, 1990, 1995, and so forth). Contact NARA directly for availability and ordering of this film or other NARA holdings at:

National Archives and Records Administration
Cartographic and Architectural Branch
Washington, DC 20408
FTS: 756-6700
Com. 703-756-6700

23 - Storage and Archiving

Aerial photography provides a permanent record of an area. Improper handling of materials can lead to the destruction or loss of valuable information.

23.1 - Storage

1. Film base materials. Film for block aerial photography of over 100 square miles is stored at the Consolidated Farm Service Agency/Aerial Photography Field Office. Store project film retained by Forest Service units in the most environmentally consistent area available.

2. Paper prints. These are the working copies for many operations. Store the paper prints in such a manner that will protect the copies and help to extend their useful life.

23.2 - Archiving

1. Stable base materials. The Consolidated Farm Service Agency/Aerial Photography Field Office (CFSA/APFO) retains in archives aerial film products used by the Forest Service. Provide original films and photo indexes to CFSA/APFO for permanent retention.

2. Nitro cellulose film products. Instructions for the transport of nitrate film products are contained in General Services Administration (GSA) Title 49, Code of Federal Regulations, Parts 100-199 (49 CFR Parts 100-199). Nitrate film carries a hazardous materials classification and appropriate handling and labels are essential. Forward all nitrate-based film materials not in use to the National Archives and Records Administration (NARA) for retention; NARA can provide copies of the film at established prices. Itemize all nitrate film on Form GSA SF-115, Request for Records Disposition Authority, and ship to:

National Archives and Records Administration
Records Deposition Division
8th and Pennsylvania, NW (NNSC)
Washington, DC 20408