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**FSA-441A**  
(01-31-13)

U.S. DEPARTMENT OF AGRICULTURE  
Farm Service Agency



**PRICES FOR AERIAL IMAGERY & RELATED PRODUCTS**

Prices Effective February 1, 2013



Prices are subject to change. Prices listed are for items most frequently requested.

DIGITAL DATE & IMAGERY (SOFTCOPY) COMPRESSED COUNTY MOSAICS (CCM) QUARTER QUADS (QQ) GEOSPATIAL DATA HISTORICAL IMAGES & INDEXES			PHOTOGRAPHY (SOFTCOPY) BLACK & WHITE NEGATIVE (BW) COLOR NEGATIVE (CN) COLOR & COLOR INFRARED POSITIVE (CP/CIRP)		
MEDIA (File Size Range)	QTY	PRICE	SIZE	PRODUCT	PRICE
CD (Up to 651 MB)	1	\$14.00	10" x 10"	Image Scan**	\$13.00
DVD (651 MB to 4.37 GB)	1	\$14.50	<b>PHOTOGRAPHY (HARDCOPY)</b>		
DVD (4.37 GB to 8.74 GB)	2	\$16.50	10" x 10"	Print	\$15.00
DVD (8.74 GB to 13.11 GB)	3	\$19.00	20" x 20"	Print	\$36.00
DVD (13.11 GB to 17.48 GB)	4	\$21.00	20" x 20"	Metallic Print***	\$50.00
FD (Up to 7.44 GB)	1	\$22.50	20" x 24"	Print	\$40.00
FD (7.44 GB to 14.88 GB)	1	\$25.50	20" x 24"	Metallic Print***	\$55.00
FD (14.88 GB to 29.76 GB)	1	\$38.50	24" x 24"	Print	\$44.00
FD (29.76 GB to 59.52 GB)	1	\$62.50	24" x 24"	Metallic Print***	\$60.00
FD (59.52 GB to 119.04 GB)	1	\$ TBD*	30" x 30"	Print	\$57.00
HD (119.04 GB to 465 GB)	1	\$153.50	30" x 30"	Metallic Print***	\$70.00
HD (465 GB to 930 GB)	1	\$178.50	30" x 40"	Print	\$65.00
HD (0.93 GB to 1.86 TB)	1	\$193.50	30" x 40"	Metallic Print***	\$80.00

**MEDIA TYPES & PRODUCT FILE SIZES**

CD - Compact Disc / DVD - Digital Versatile Disc / FD - Flash Drive (USB) / HD - Hard Drive  
 Average QQ File Sizes: 1m 4 Band = 190 MB / 1m 3 Band = 145 MB / 2m 3 Band = 45 MB  
 CCM File Size Ranges: 1m 3 Band = Up to 15.2 GB / 2m 3 Band = Up to 1.49 GB  
 CD/DVD furnished unless otherwise specified or total product(s) require larger file size capacity media such as flash or hard drives.  
 Full State or County QQ and CCM file sizes can be determined from the [APFO Comprehensive Catalog Listing](#).

**ORDERING INFORMATION**

Designate PRODUCT SIZE and/or TYPE on order form <a href="#">FSA-441</a> . Refer to <a href="#">Ordering Instructions</a> . For example: <b>10" x 10" Image Scan / 10" x 10" Print</b> <b>24" x 24" Metallic Print</b> <b>Compressed County Mosaic</b> <b>Quarter Quad</b>	<b>PAYMENT</b> <b>Prepayment is required.</b> We accept Credit Cards. Make checks or money orders payable to: <b>USDA FSA</b> . Purchase orders are accepted from tax-supported agencies. No COD's
	<b>SHIPMENT</b> We ship the most economical method. No COD's. Shipping costs are included in the price of the product.

\* TBD - To be determined. Contact customer service for availability.  
 \*\* Image Scan - Standard resolution at 12.5 microns (2136 dpi) in tagged image file format (.tif). Quantity discounts upon eligibility.  
 \*\*\* Metallic Print - Provides silver luster to enhance colors. Can be used to write and wipe with dry erase marker only.  
 For special needs not covered elsewhere on this form, contact us directly. Additional fees may apply.

<b>Address Order for Product or Request for Information to:</b>	<b>CUSTOMER SERVICE SECTION</b> <b>USDA FSA AERIAL PHOTOGRAPHY FIELD OFFICE</b> 2222 WEST 2300 SOUTH SALT LAKE CITY UT 84119-2020	<b>TELEPHONE:</b> 801-844-2922 <b>FAX:</b> 801-956-3653 <b>E-MAIL:</b> <a href="mailto:apfo.sales@slc.usda.gov">mailto:apfo.sales@slc.usda.gov</a> <b>WEBSITE:</b> <a href="http://www.apfo.usda.gov">http://www.apfo.usda.gov</a>
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PROGRAM AVAILABILITY & IMAGERY TYPE			
PROGRAMS	SCALE OF PHOTOGRAPHY	DATE RANGE	IMAGERY TYPE
NAIP	1:40,000 – 1:60,000	2003 – Present	COLOR & CIR
NAPP	1:40,000	1987 – 2006	BW & CIR
NHAP	1:60,000	1980 - 1987	CIR
FSA & NRCS	1:40,000	1970 – Present	BW
FSA & NRCS	1:20,000	1955 -1970	BW
FS	Various	1955 – Present	BW / COLOR CIR / MISC
BW-Black & White    COLOR-Natural Color    CIR-Color Infrared    MISC-Other			

ORIGINAL FILM FORMAT & SCALES		
<b>10" X10" Image Scan and Print</b> - Direct copies from the full frame. Not available as sectionals or with scale accuracy.		
APPROXIMATE SCALES OF ORIGINAL PHOTOGRAPHY		DISTANCE ALONG ONE SIDE OF PHOTO
FRACTIONAL SCALE	10" X 10" SCALES FEET/INCH	
1:20,000	1667	2.84 miles
1:40,000	3333	5.68 miles
1:60,000	5000	8.52 miles

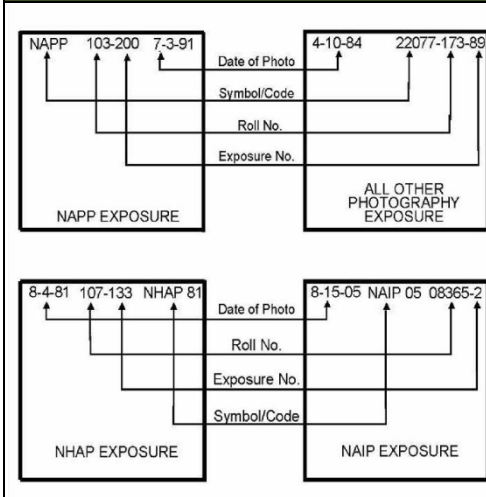
**METHODS FOR DETERMINING COVERAGE & IDENTIFICATION**  
 Visit the [GIS Dataset Viewer](#) to determine aerial imagery identification numbers or select image frames from indexes.

**IMAGERY SCAN RESOLUTIONS**  
**GROUND SAMPLE DISTANCE (GSD) IN FEET & METERS**

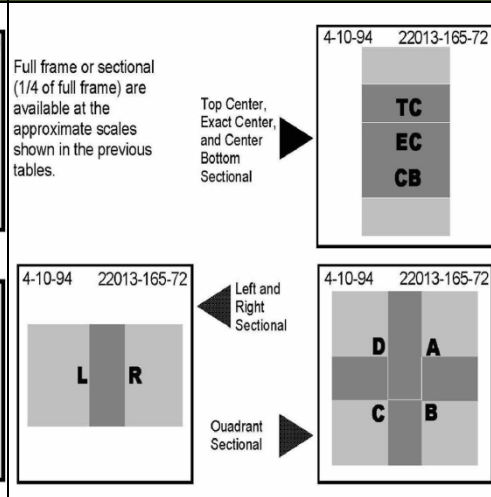
MICRONS DPI	12.5 2136	15 1700	17.5 1515	20 1282	25 1016	50 508
Film Scale	feet   meters	feet   meters	feet   meters	feet   meters	feet   meters	feet   meters
1:60,000	2.34 0.71	2.94 0.91	3.30 1.02	3.90 1.19	4.92 1.52	9.84 3.04
1:48,000	1.87 0.57	2.35 0.73	2.64 0.81	3.12 0.95	3.94 1.21	7.87 2.43
1:40,000	1.56 0.48	1.96 0.68	2.20 0.68	2.60 0.79	3.28 1.01	6.56 2.02
1:24,000	0.94 0.29	1.18 0.36	1.32 0.41	1.56 0.48	1.97 0.61	3.94 1.21
1:20,000	0.78 0.24	0.98 0.30	1.10 0.34	1.30 0.40	1.64 0.51	3.28 1.01
1:15,840	0.62 0.19	0.78 0.24	0.87 0.27	1.03 0.31	1.30 0.40	2.60 0.80
1:12,000	0.47 0.14	0.59 0.18	0.66 0.20	0.78 0.24	0.98 0.30	1.97 0.61
1:10,000	0.39 0.12	0.49 0.15	0.55 0.17	0.65 0.20	0.82 0.25	1.64 0.51

Use the following formulas for resolutions and ground sample distance not shown.  
 Dots Per Inch (DPI) Formula:  $1/(X \text{ microns}/1,000,000 * 39.37) = X \text{ DPI}$   
 Example:  $20 \text{ microns}/1,000,000 = 0.00002 * 39.37 = 0.00078$   
 $1/0.00078 = 1282 \text{ DPI}$   
 Ground Sample Distance (GSD) Formula:  $\text{Scale of Photography}/\text{DPI}/\text{Feet}$   
 Example:  $60,000/2136 = 28.08/12 = 2.34'$        $2.3' * 0.3048 = 0.71 \text{ meters}$

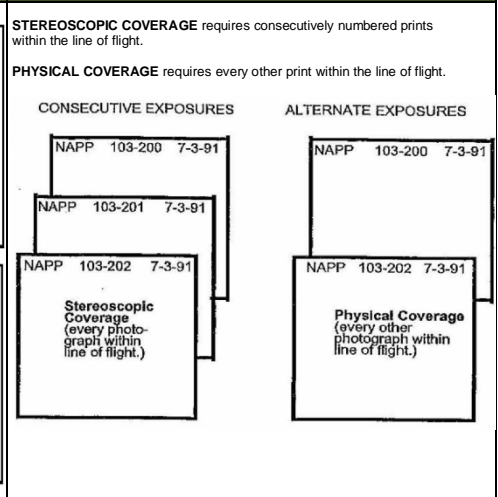
**EXAMPLES OF FILM EDITING**



**ENLARGEMENTS**




**COVERAGE TYPES**




**ENLARGEMENT SCALES**

Enlargements are reproduced from Image Scans or Quarter Quad (QQ) digital imagery and scales will be approximate. Custom photos are available with map layers added to the imagery such as topography, transportation, and public land survey (see [FSA-441B](#)). Labor charges may apply. You may visit the [Digital Photo Scale Viewer](#) to see illustrations of various enlargement size coverage and scales.

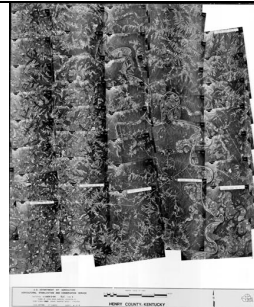
PRINT SIZE	ENLARGEMNT FACTOR	TYPICAL SCALE
20" x 20"	2x to 10x	2500"/" to 165"/"
20" x 24"	2x to 10x	2500"/" to 165"/"
24" x 24"	2.5x to 10x	2000"/" to 165"/"
30" x 30"	3x to 10x	1650"/" to 165"/"
30" x 40"	3x to 10x	1650"/" to 165"/"




2011 NAIP Index



2011 NAIP QQ



1982 Photo Index



1958 Film Frame