

# USDA Imagery Programs

## National Overview

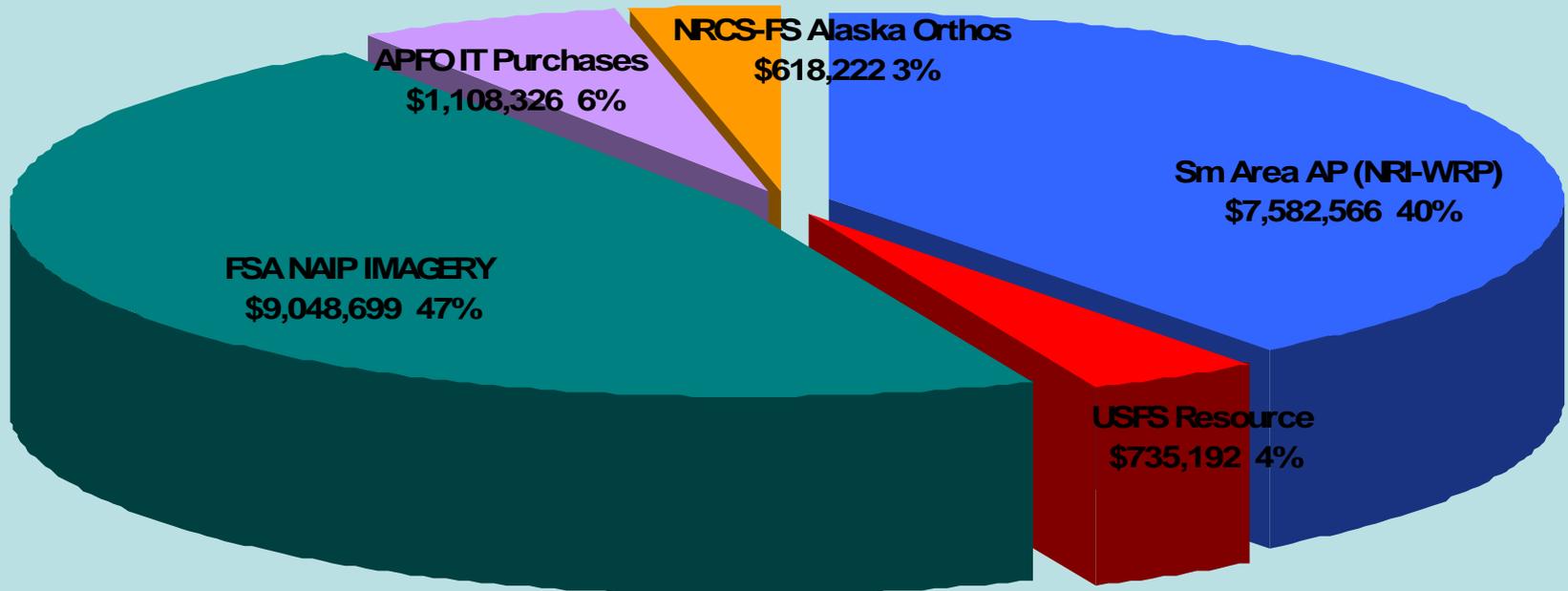
- **Aerial Photography Field Office**

(Farm Services Agency, Salt Lake City Utah) <http://www.apfo.gov>

- **NAIP** (national agricultural imagery program)
- **Small Format - NRI** (national resource inventory)
- **Resource Level Photography**

# USDA Contract Awards

FY 2007 CONTRACT AWARDS: \$19,093,005



- Sm Area AP (NRI-WRP)
- FSA NAIP IMAGERY
- NRCS-FS Alaska Orthos

- USFS Resource
- APFO IT Purchases

NAIP

# ***2007 NAIP Funding Sources***

U.S. Forest Service	\$1,047,000
U.S. Geological Survey	\$508,515
Natural Resource Consvr. Service	\$500,000
State Governments	
MD \$40K, AZ \$200K, GA \$233K, TN \$200K	<u>\$672,729</u>

**Total 2007 Cost Shares:** **\$2,728,244**

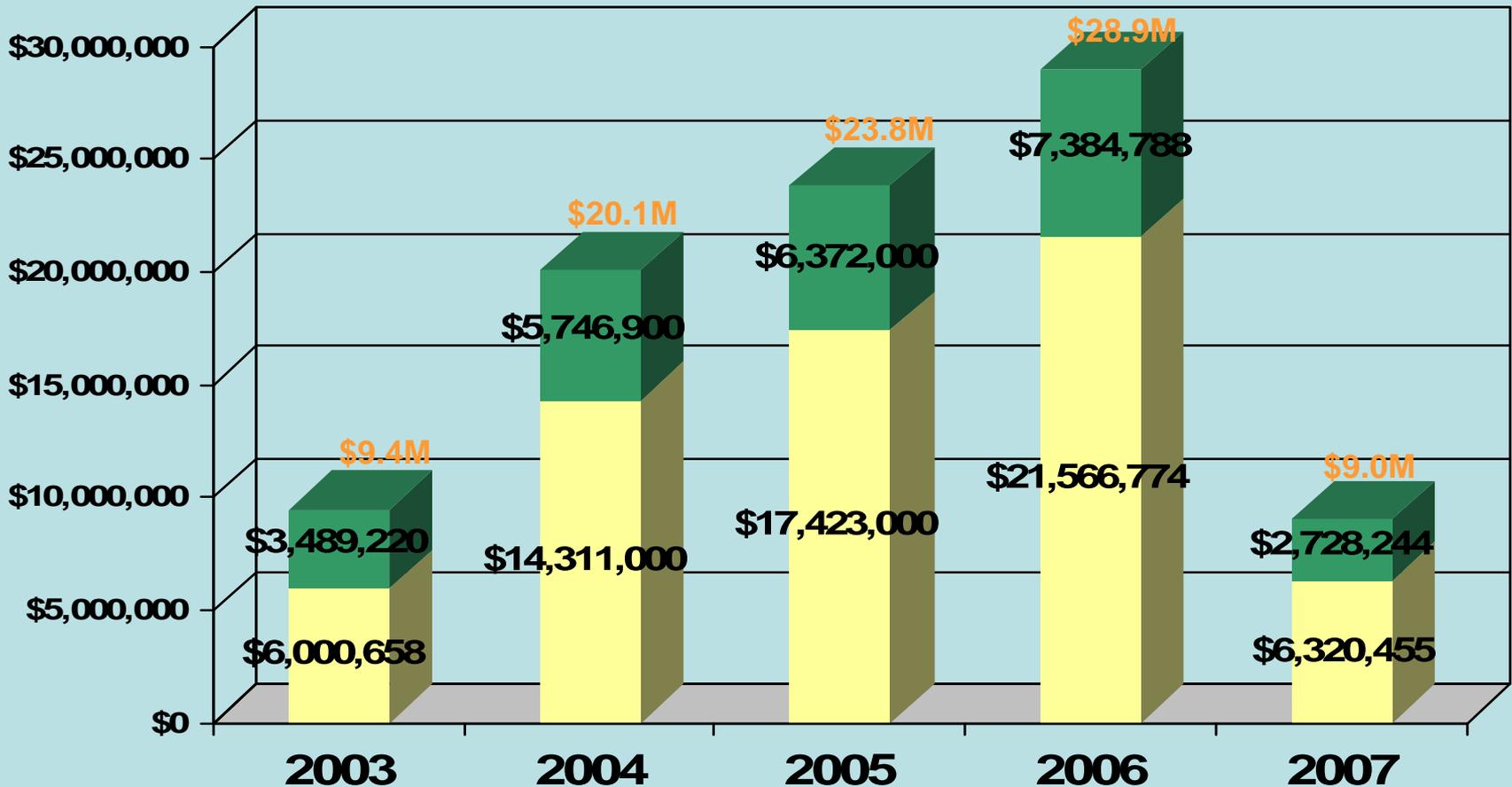
FSA Funding Amount \$6,320,455

***2007 NAIP Funding Total:*** **\$9,048,699**



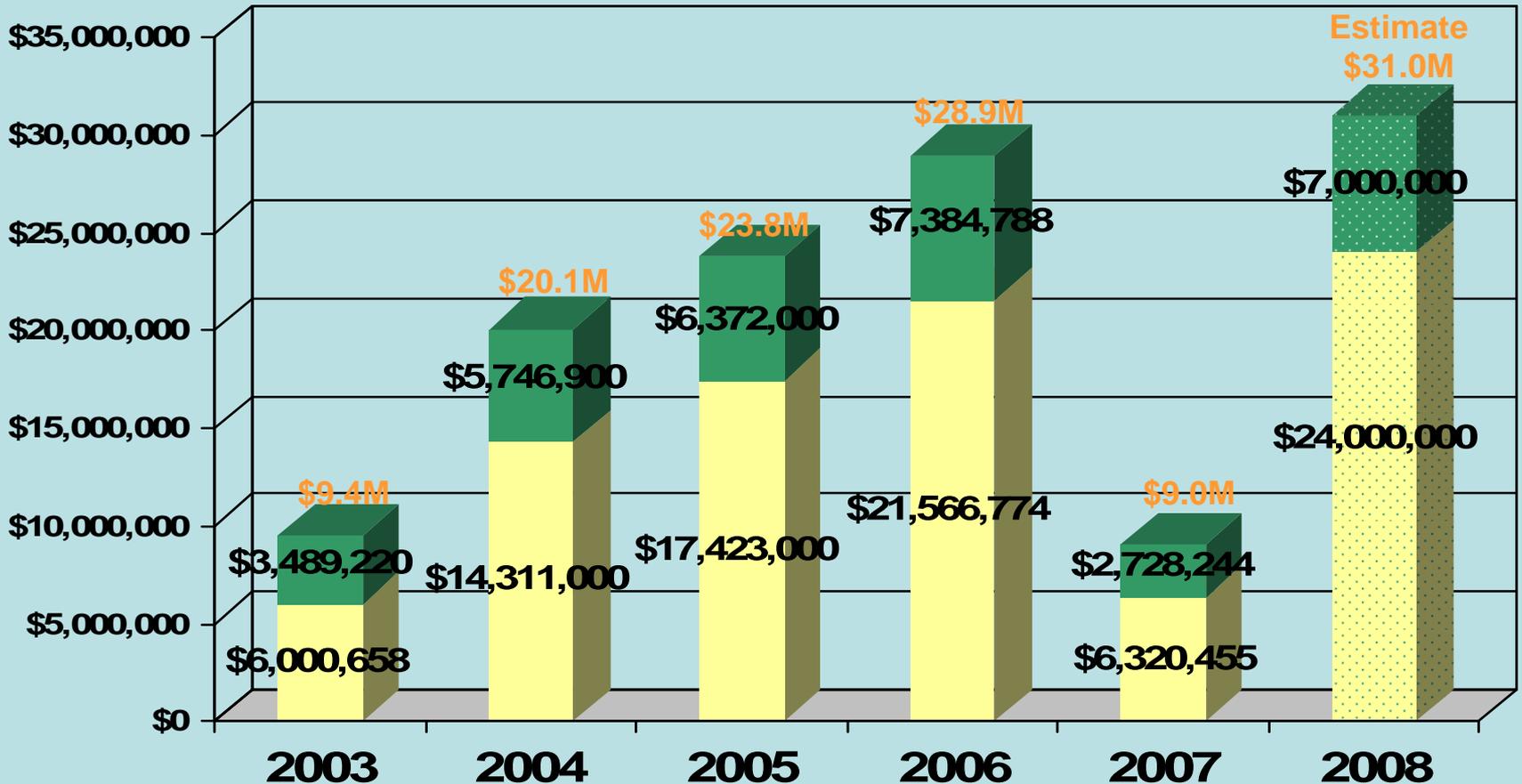
# NAIP Funding History

## 2003 - 2007 USDA NAIP Contracts



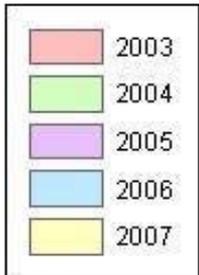
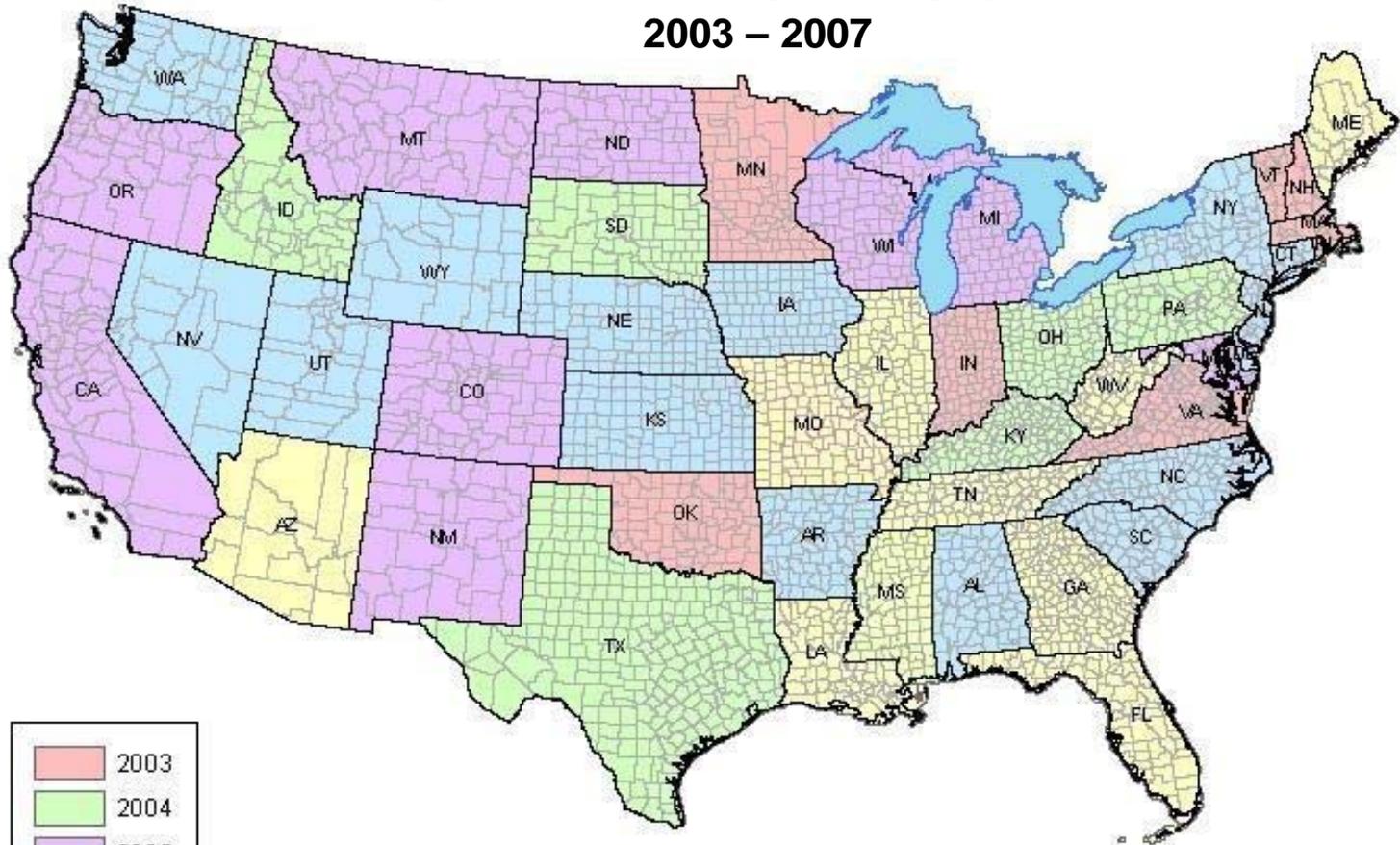
# NAIP Funding History

## 2008 NAIP Contract Estimate



**NATIONAL AGRICULTURE IMAGERY PROGRAM  
5 YEAR 1 METER CYCLE I  
ONE METER IMAGERY – CYCLE 1  
2003 – 2007**

February 22, 2007



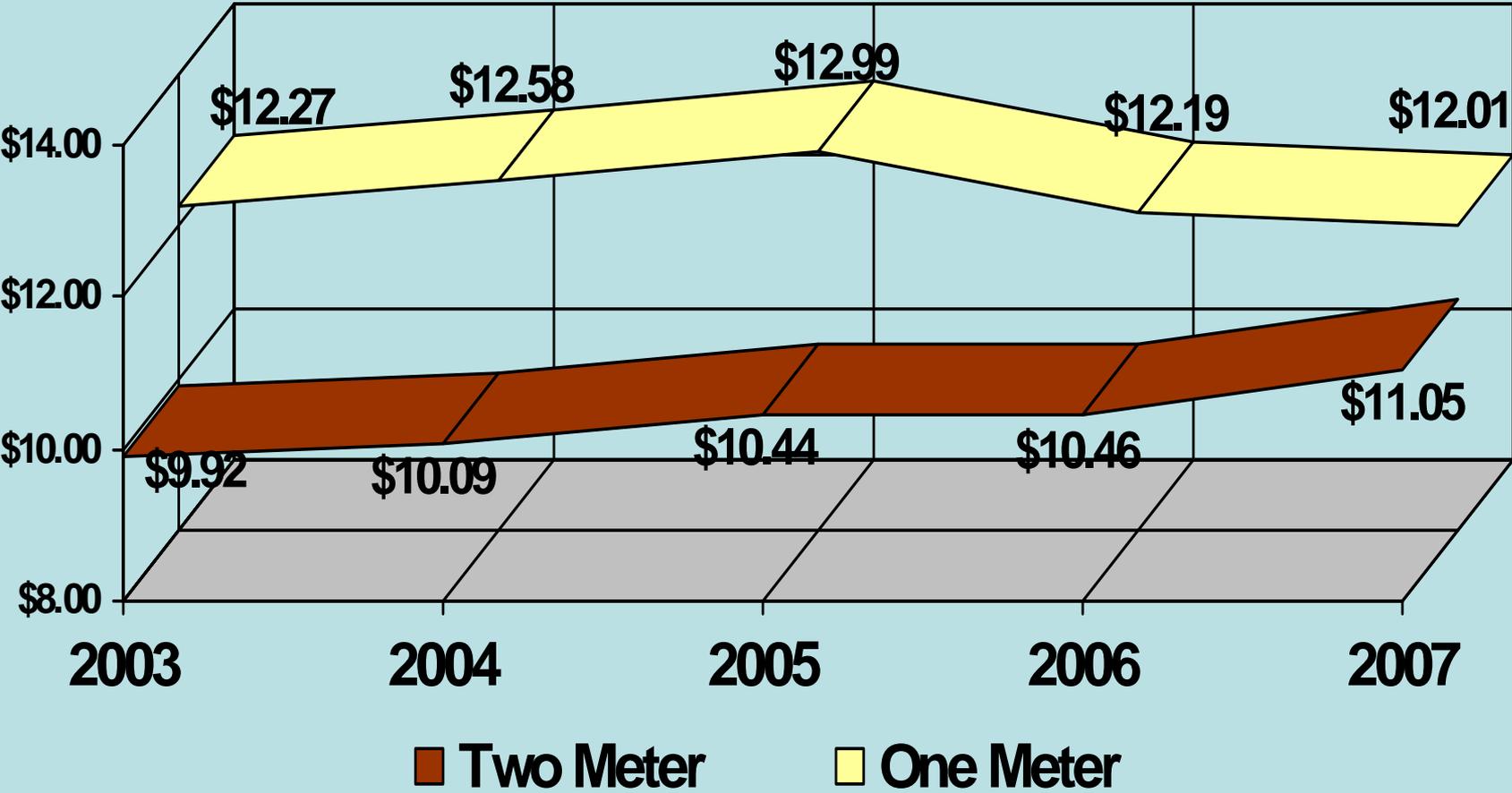
**CYCLE 1 NAIP ONE METER  
COMPLETED WITH 2007 ACQUISITION**





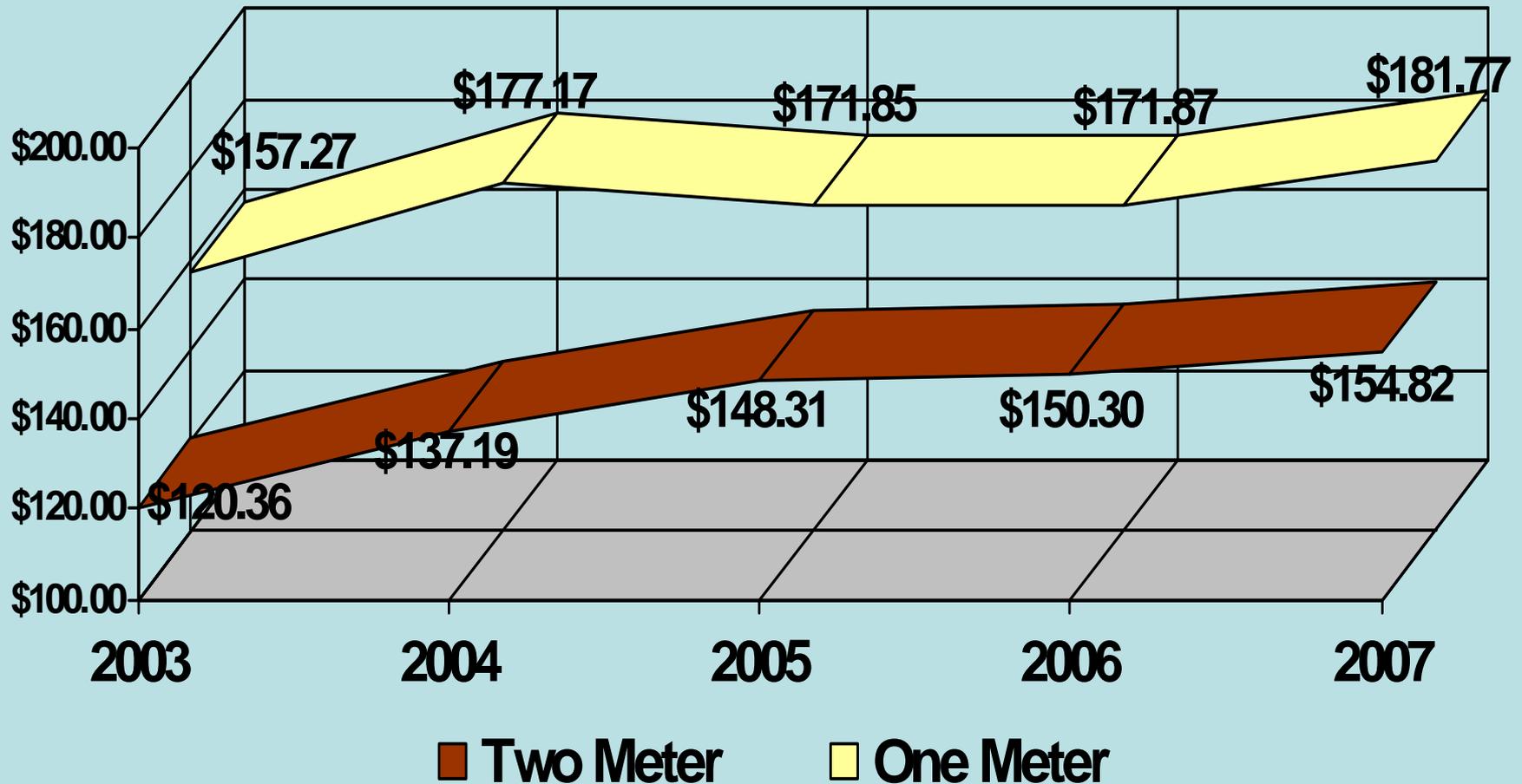
# ***NAIP Square Mile Pricing History***

**2003 - 2007 USDA NAIP Contracts**



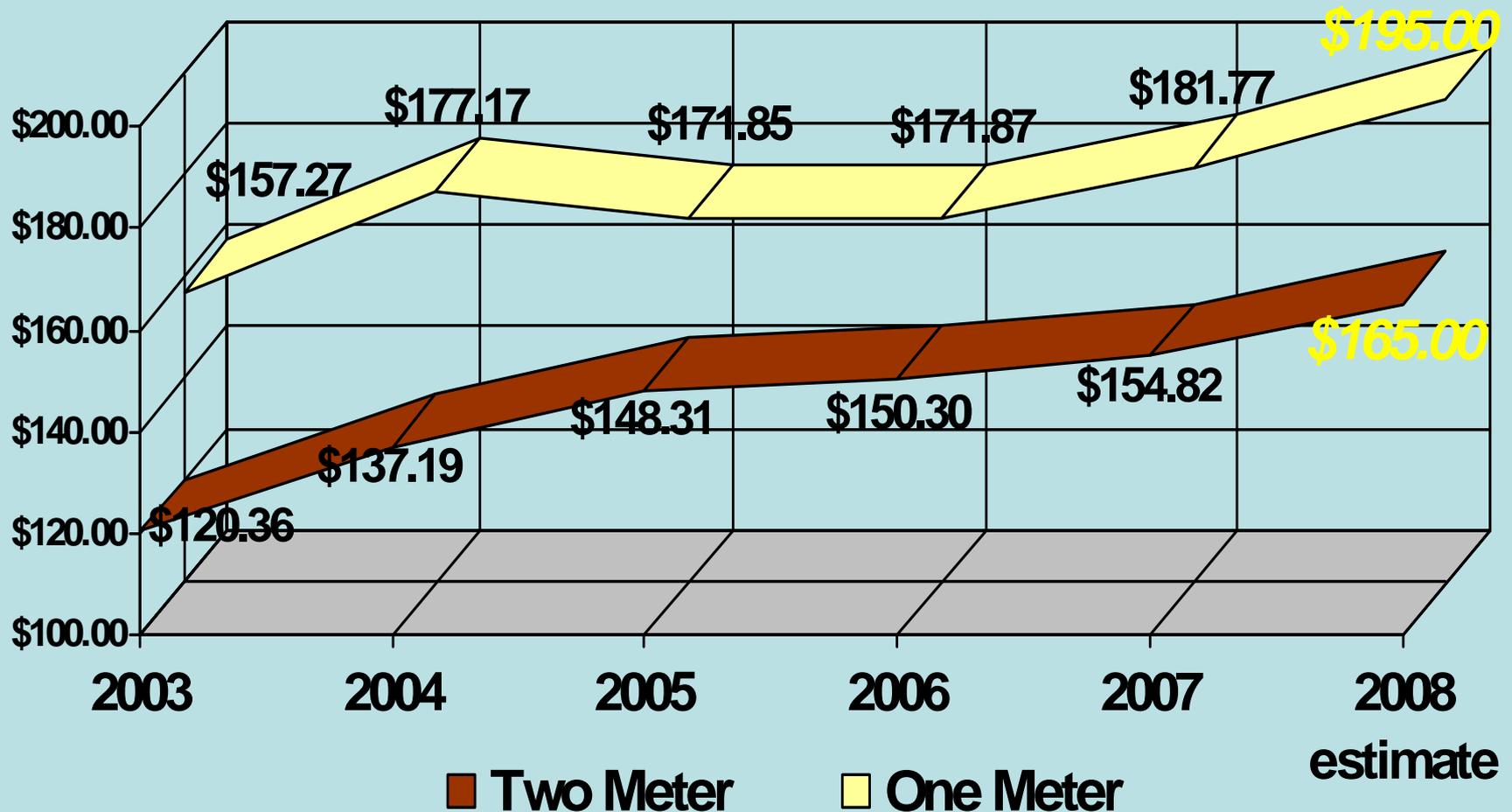
# NAIP DOQQ Pricing History

2003 - 2007 USDA NAIP Contracts



# NAIP DOQQ Pricing History

2003 - 2007 USDA NAIP Contracts

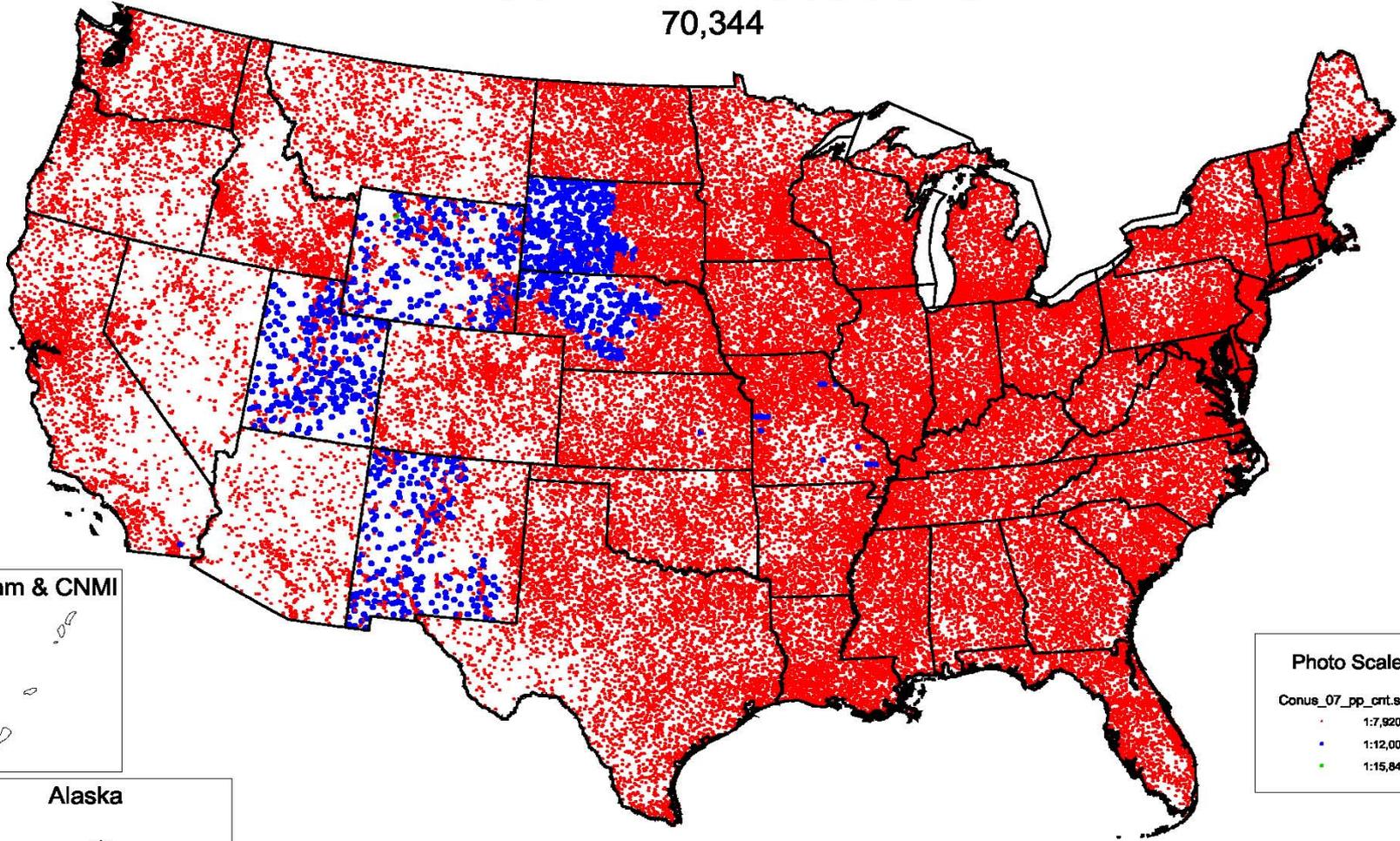


# National Resources Inventory

<http://www.nrcs.usda.gov/technical/NRI/index.html>

# 2007 NRI Locations

70,344



Guam & CNMI



Alaska



Hawaii



Photo Scale

Conus\_07\_pp\_cnt.shp

- 1:7,920
- 1:12,000
- 1:15,840

FY2007 Contract

PR & USVI



# Alaska 2007 NRI Locations

June 2007

- **581 Total Sites**
- **197 Sites 1:40,000**
- **384 Sites 1:7,920**

**70% flown  
(406 of 581)**

### Legend

- akbushfootprint2acquire07\_cnt
- akhmapsu2acquire07\_cnt
- ▭ STATES
- ▭ uscounty

United States Department of Agriculture - Natural Resources Conservation Service

**459 sites, each  
requiring stereo  
triplet coverage**

# Puerto Rico & U.S. Virgin Islands

**450 Sites**

**November 1, 2006 - March 31, 2007**

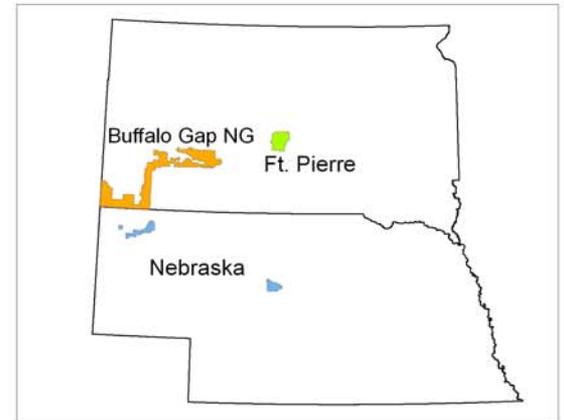
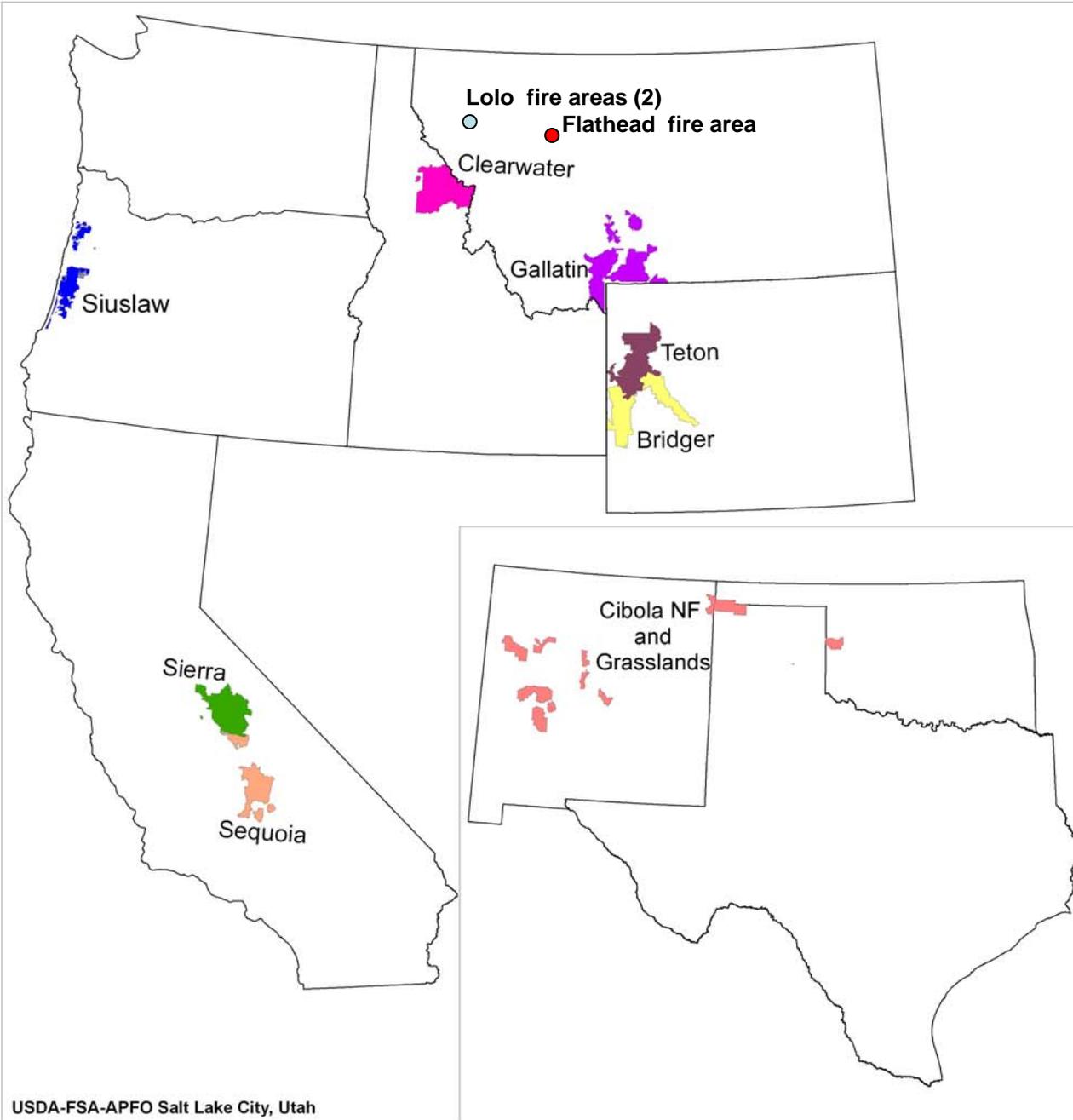


# *2007 Resource Aerial Photography Contract Summary*

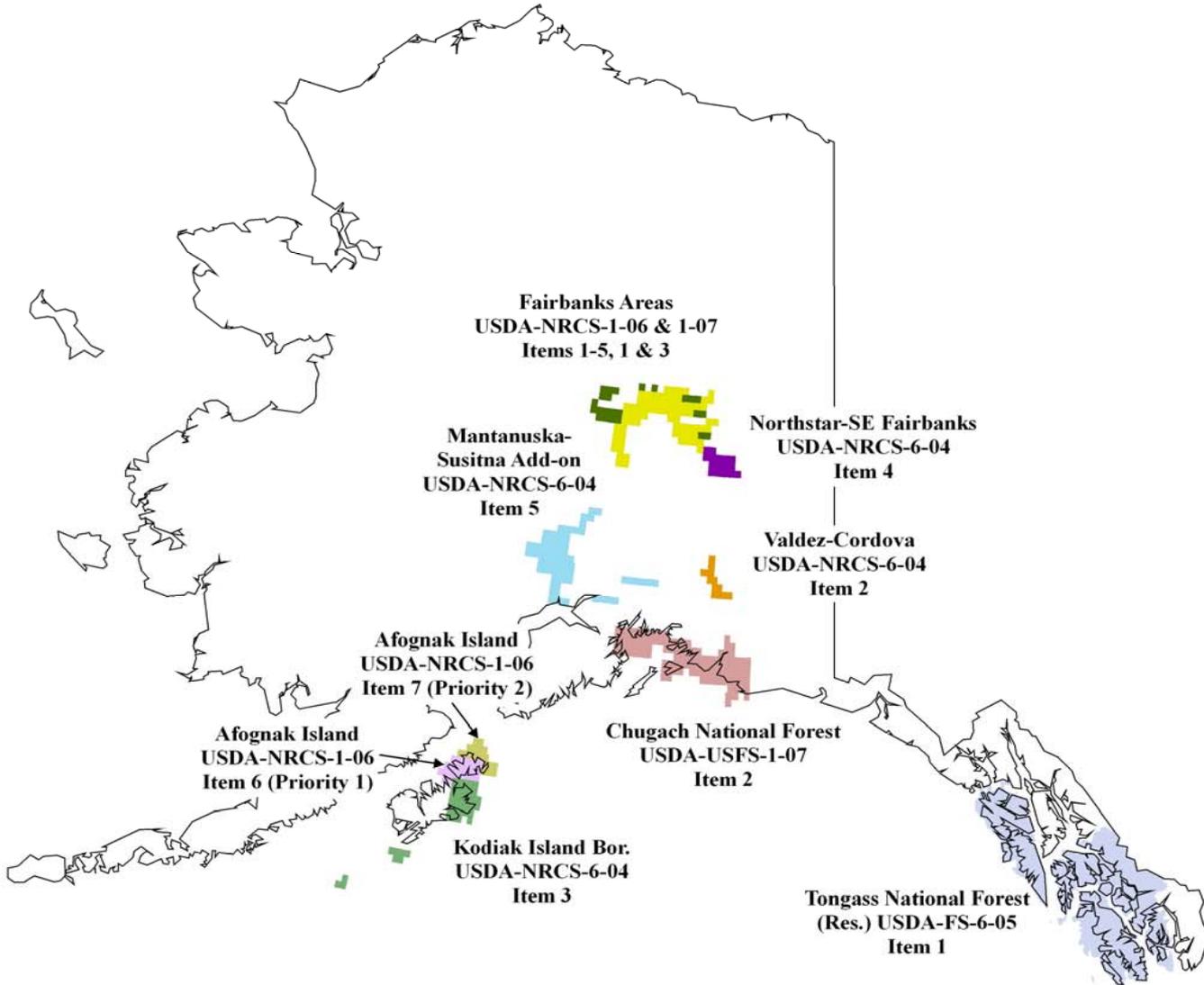
**14 Forest Service Projects  
2 NRCS Alaska Projects  
1 Bureau of Indian Affairs Project**



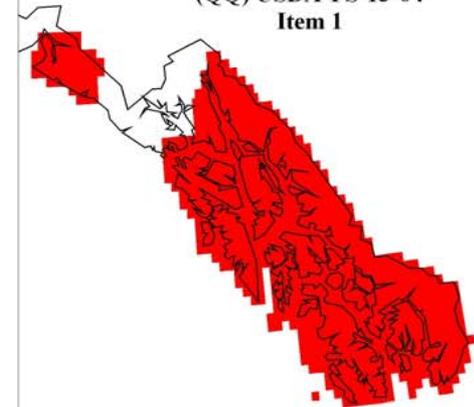
# 2007 RESOURCE ACQUISITIONS



# USDA - Alaska Ortho Photography



**Alaska Area**



**Alaska Panhandle Area**

# Alaska Situation

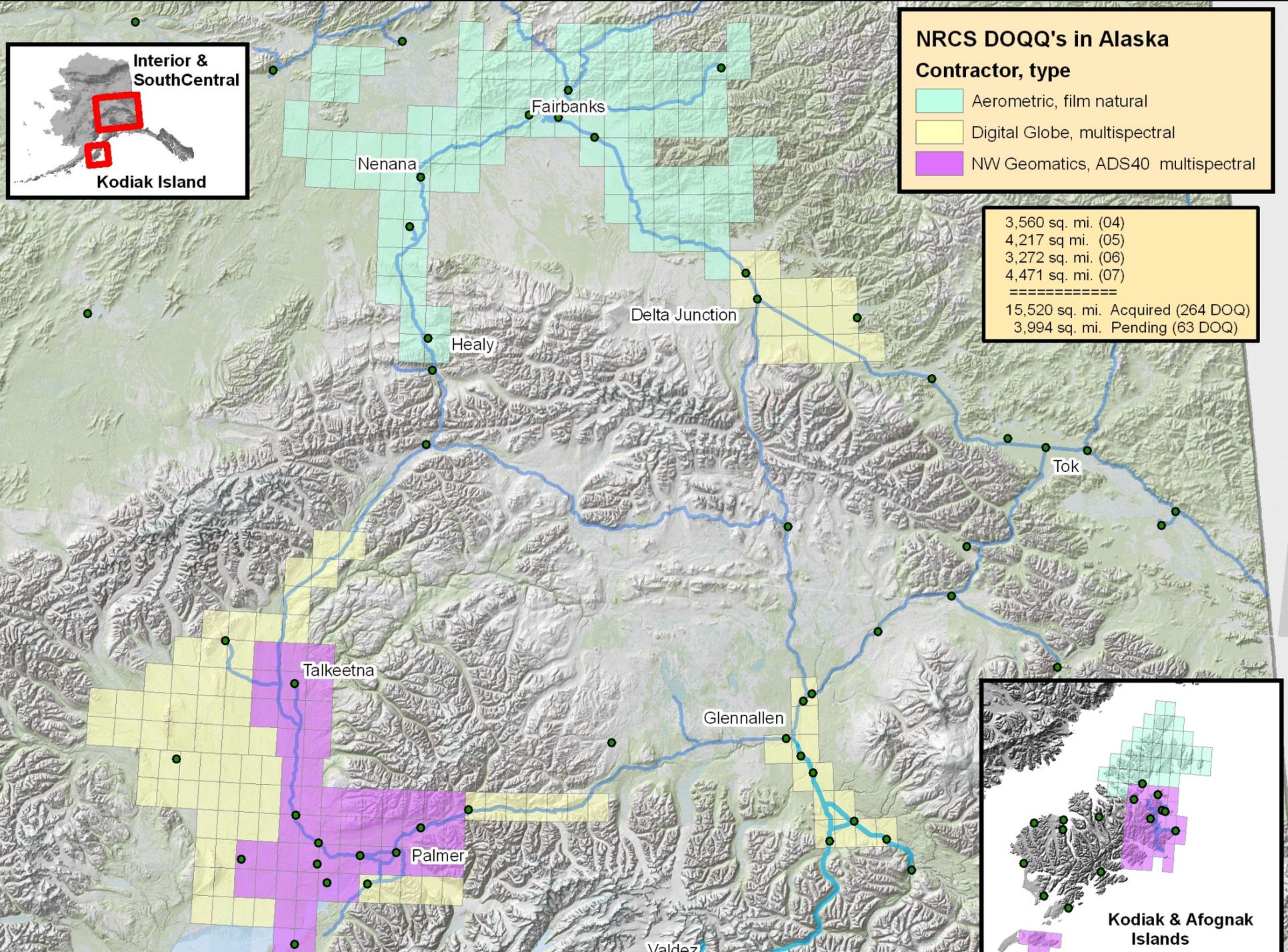
- Never included in the National NAIP or NRI Programs
- Congressional Earmarks to NRCS Alaska to acquire NRI and DOQQ Imagery in 04-06
- Contracts awarded locally through APFO, FAS, Titan Geospatial, PGDC.

# NRCS Tasking (State Level)

- DOQQ's
  - APFO - two contracts 04 & 06
- NRI High Intensity & Village Sample
  - 2004 Titan - 38 AOI's
  - 2006 FAS - 52 AOI's
- NRI Bush Sample (confidential locations)
  - 2004 Titan - Ikonos
  - 2006 FAS - Ikonos

DOQQ

State Tasking - Earmark



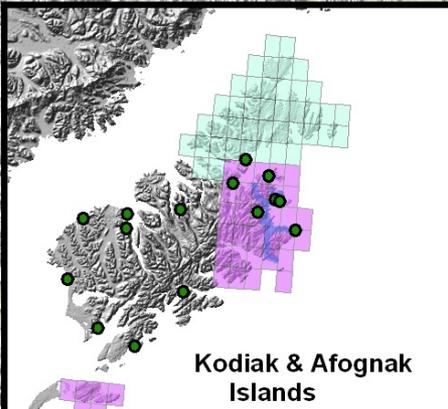
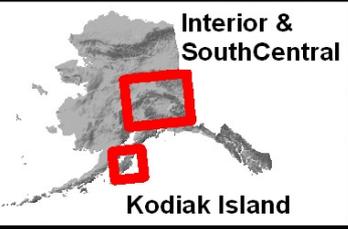
# NRCS DOQQ's in Alaska

## Contractor, type

- Aerometric, film natural
- Digital Globe, multispectral
- NW Geomatics, ADS40 multispectral

3,560 sq. mi. (04)  
4,217 sq. mi. (05)  
3,272 sq. mi. (06)  
4,471 sq. mi. (07)  
=====

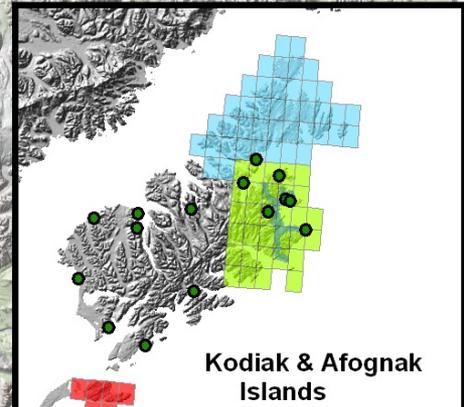
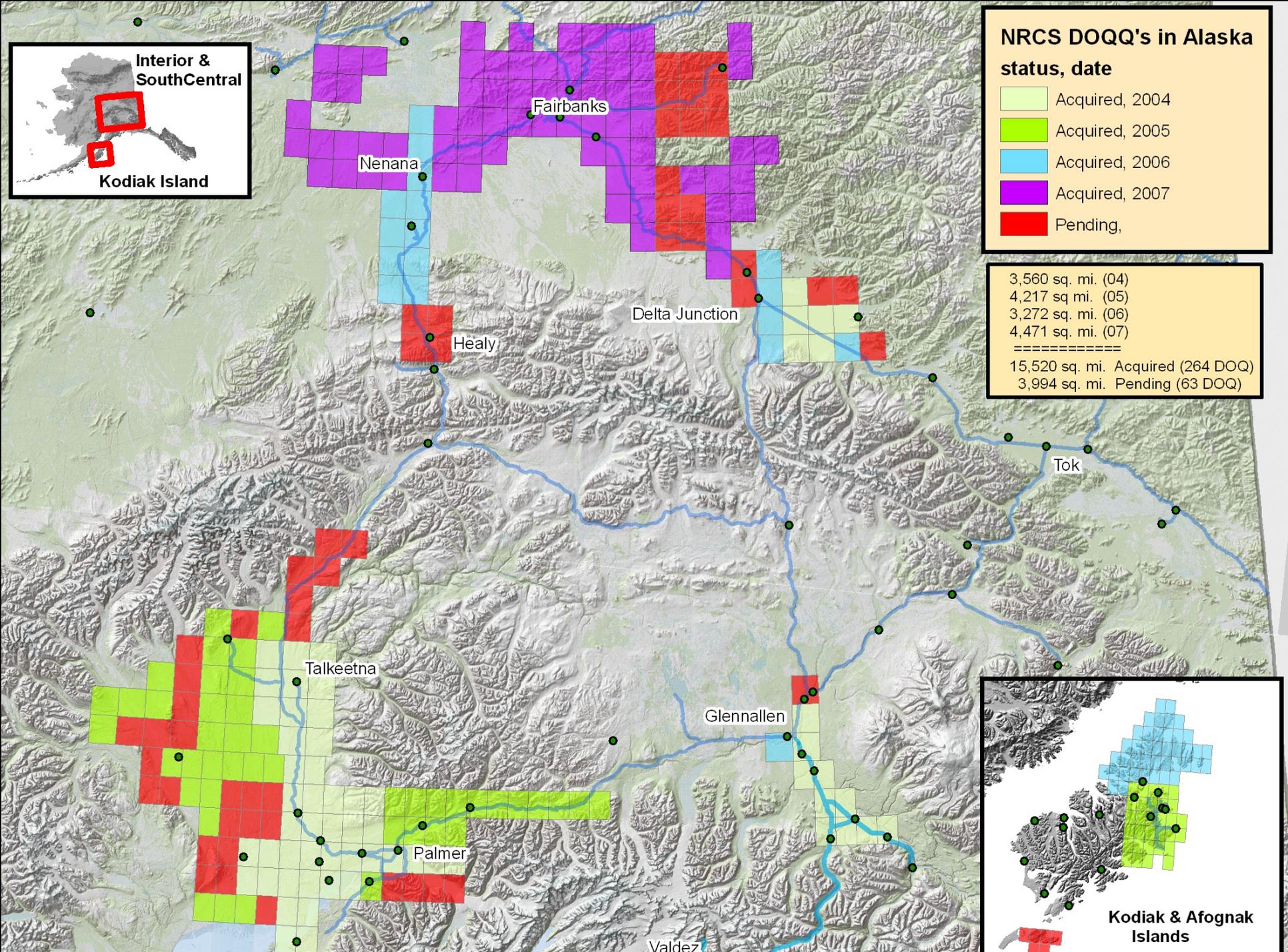
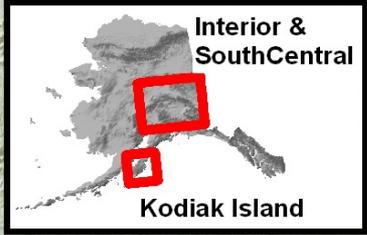
15,520 sq. mi. Acquired (264 DOQ)  
3,994 sq. mi. Pending (63 DOQ)



### NRCS DOQQ's in Alaska status, date

- Acquired, 2004
- Acquired, 2005
- Acquired, 2006
- Acquired, 2007
- Pending,

3,560 sq. mi. (04)  
 4,217 sq. mi. (05)  
 3,272 sq. mi. (06)  
 4,471 sq. mi. (07)  
 =====  
 15,520 sq. mi. Acquired (264 DOQQ)  
 3,994 sq. mi. Pending (63 DOQQ)



# National Resources Inventory

(State Tasking - Earmark)



# NRI Villages (04 Titan Contract)

- **2004 NRI Villages**

- 38 AOI's
- \$22 sq. km.
- 1:12000 NMAS ?



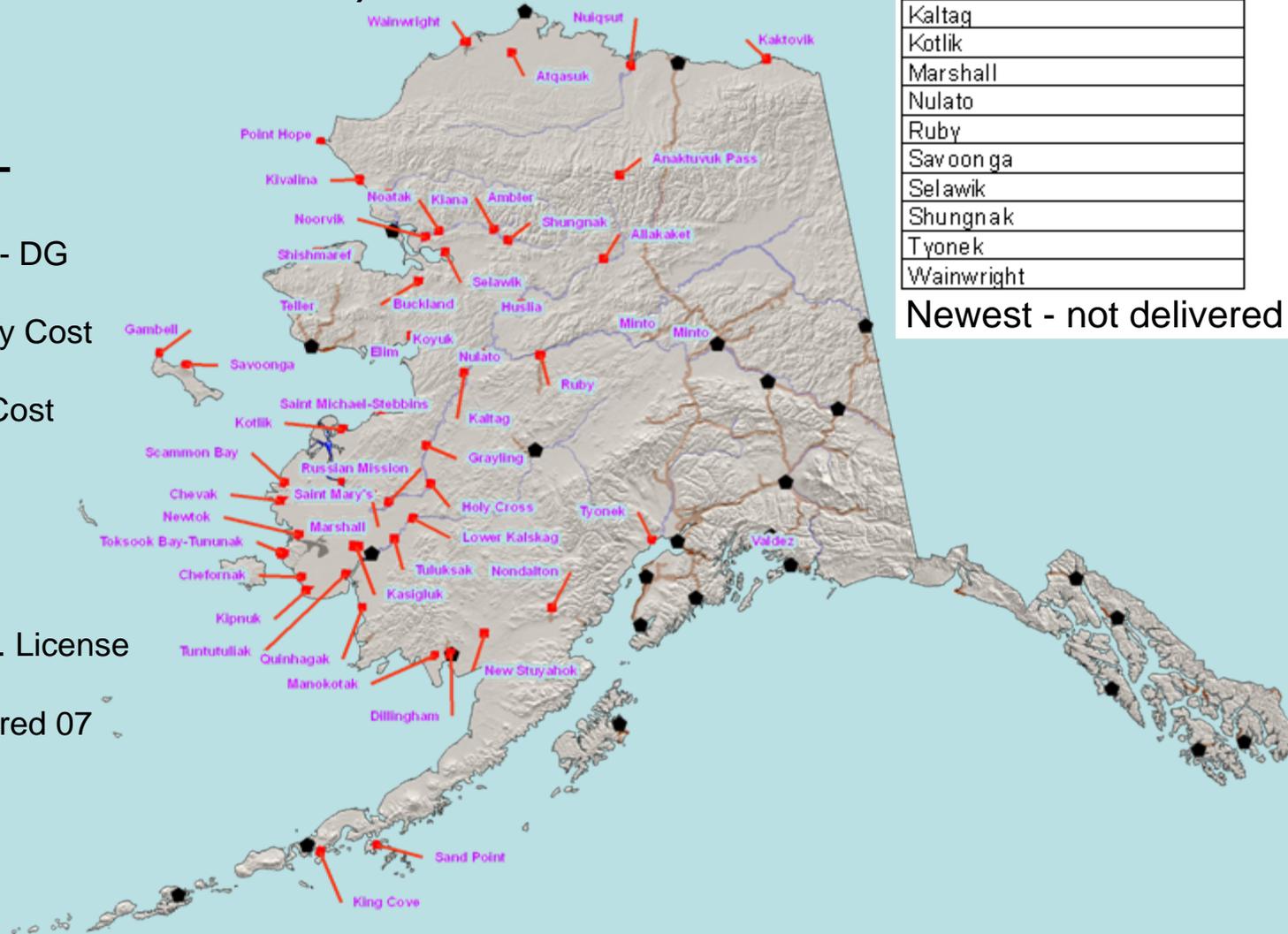
# Status (04 Titan Contract)

Name	Status	License	Comment
Amber Lake	Acquired 06	single	small area - cloud - not worth uplift
Anchorage	Acquired 06	single	Covers South Knik River that MSB would like
Aniak	Acquired 05	non-commercial	uplift by NRCS
Barrow	Acquired 06	single	June 16 2006, Some ice - otherwise nice image
Bethel Area	Acquired 05	non-commercial	uplift by NRCS
Chickaloon	Acquired 06	single	Subsequent coverage by DOQQ Buy in 04.
Chulitna	Acquired 06	single	uplift planned by SDMI
Cordova	Pending	single	
East Fbx	Pending	single	
Emmonak	Acquired 07	single	uplift planned by SDMI
Fort Yukon	Acquired 05	non-commercial	uplift by NRCS
Galena	Acquired 05	non-commercial	uplift by NRCS
Girdwood	Acquired 02	single	2002 scene - better coverage from Muni since
Haines	Acquired 05	non-commercial	uplift by NRCS
Healy_Denali	Acquired 04	non-commercial	uplift by NRCS
Homer	Acquired 07	single	uplift planned by SDMI
Juneau Area	Acquired 05	non-commercial	uplift by NRCS
Ketchikan	Acquired 04	non-commercial	uplift by NRCS
Klawock	Acquired 04	non-commercial	uplift by NRCS
Kotzebue	Pending	single	
McGrath	Acquired 02	non-commercial	uplift by NRCS
Mountain Village	Acquired 06	single	uplift planned by SDMI
Mouth of Little Su	Acquired 02	single	Small scene - may not be worth uplift
Nome	Acquired 05	non-commercial	uplift by NRCS
Petersburg	Acquired 05	non-commercial	uplift by NRCS
Pilot Station	Acquired 05	non-commercial	uplift by NRCS
Saint Marys	Pending	single	
Saint Paul	Acquired 06	single	June 2006 - Covered earlier in 02 or 03 by USGS
Salcha	Pending	single	
Seward	Acquired 05	non-commercial	uplift by NRCS
Sitka	Acquired 05	non-commercial	uplift by NRCS
Sterling	Acquired 06	non-commercial	uplift by KPB
Totchaket Nenana	Acquired 07	single	clouds in center of Image
Tyonek	Acquired 05	single	uplift planned by SDMI
Unalakleet	Acquired 05	non-commercial	uplift by NRCS
Unalaska	Acquired 05	non-commercial	uplift by NRCS
Valdez	Pending	single	
Yakutat	Acquired 05	non-commercial	uplift by NRCS

# NRI Villages (ASRC/FAS Contract 06)

- 2006 NRI Villages -**

- 52 Village Areas - DG
- \$216,578 Imagery Cost
- \$ 220,792 GCP Cost
- 1:12000 NMAS
- 10% or less CC
- Federal Civil Org. License
- 17 Villages acquired 07

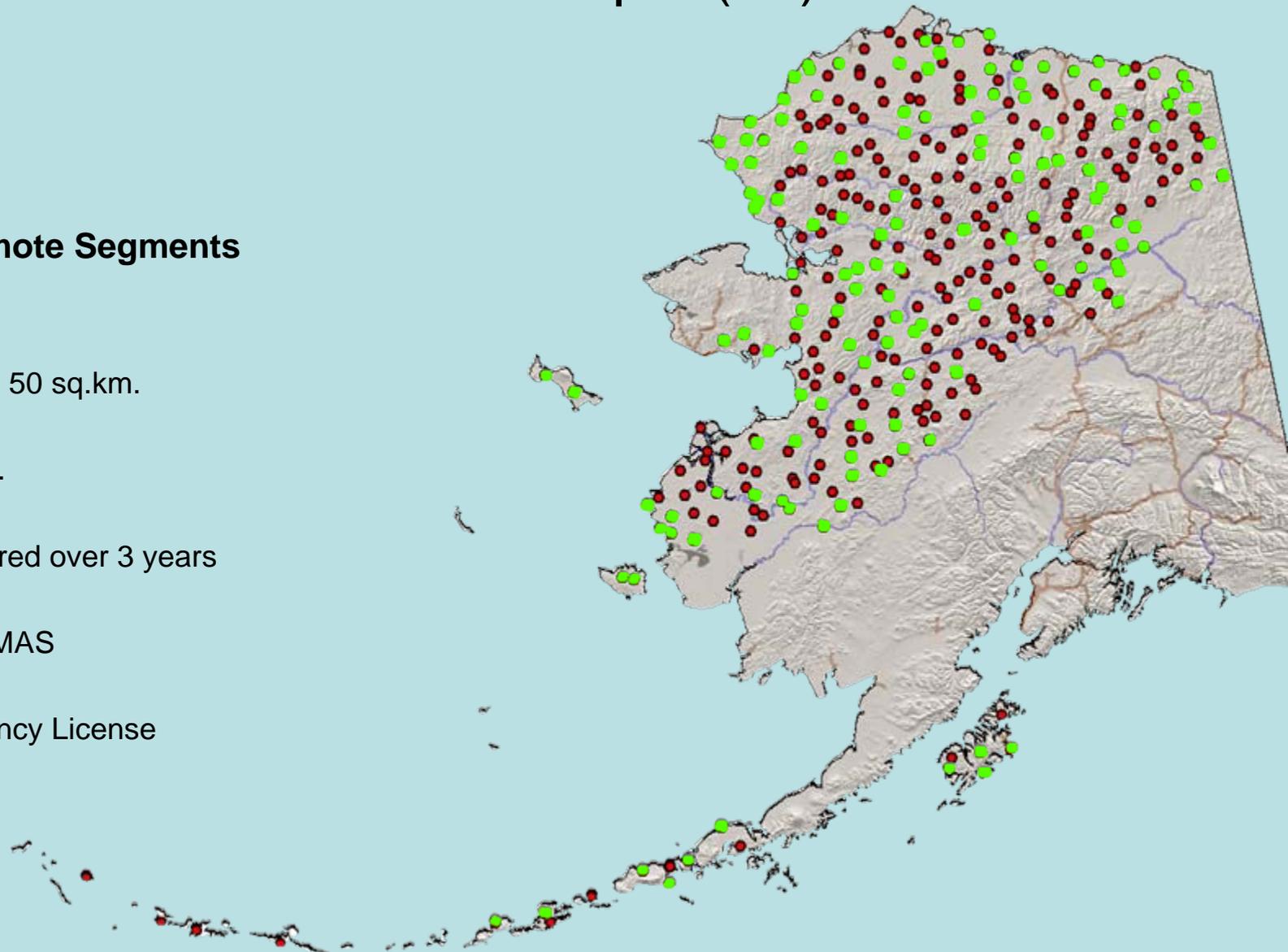




# NRI Titan Contract - Bush sample (04)

- **2004 NRI Remote Segments (partial)**

- 360 AOI's - 50 sq.km.
- \$22 sq. km.
- 58% delivered over 3 years
- 1:24000 NMAS
- Single Agency License

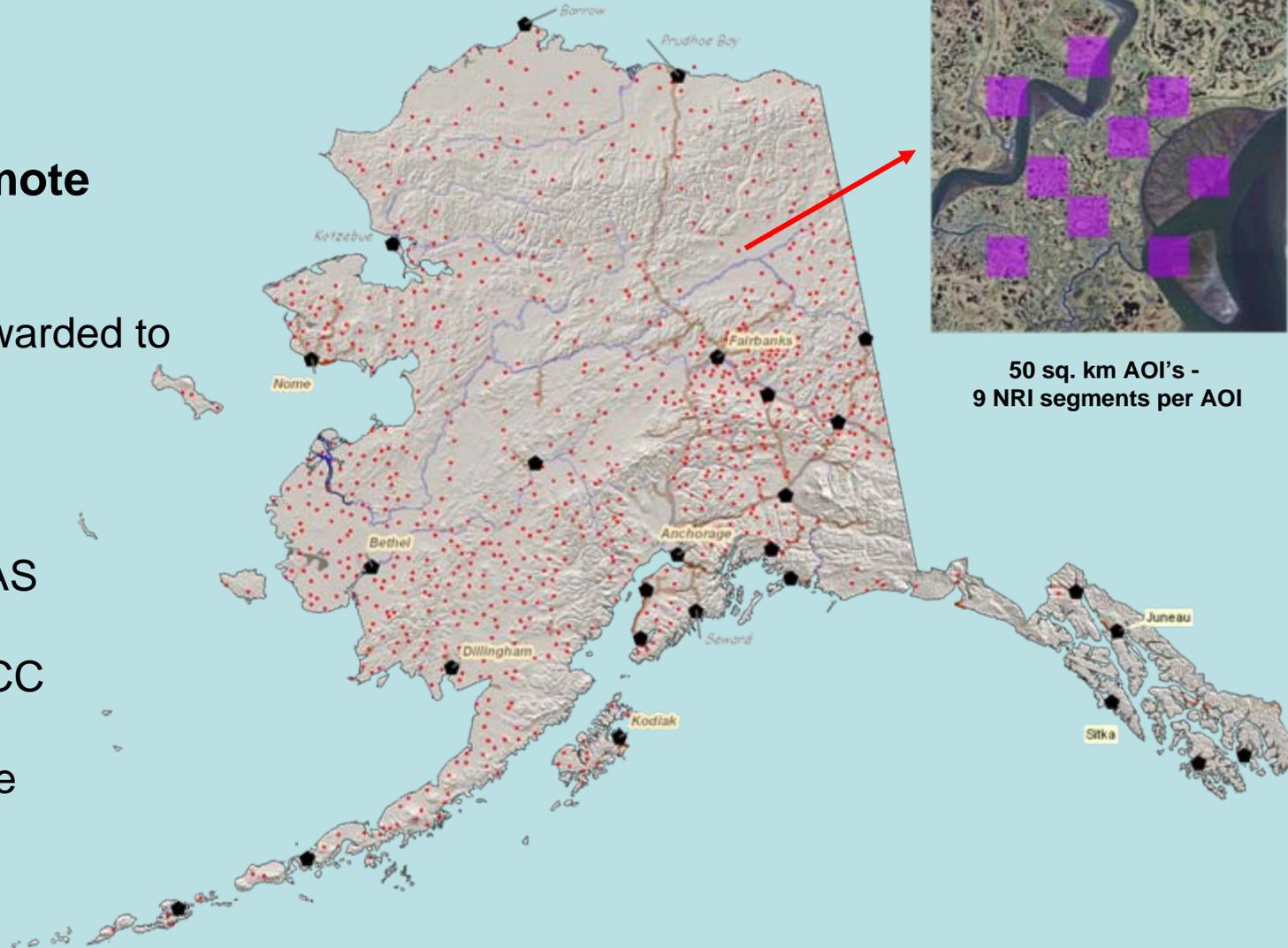




# NRI FAS Contract - Bush Sample (06)

- **2006 NRI - Remote Segments**

- 854 AOI's awarded to Geoye
- \$993,097
- 1:24000 NMAS
- 20% or less CC
- Tier 2 License

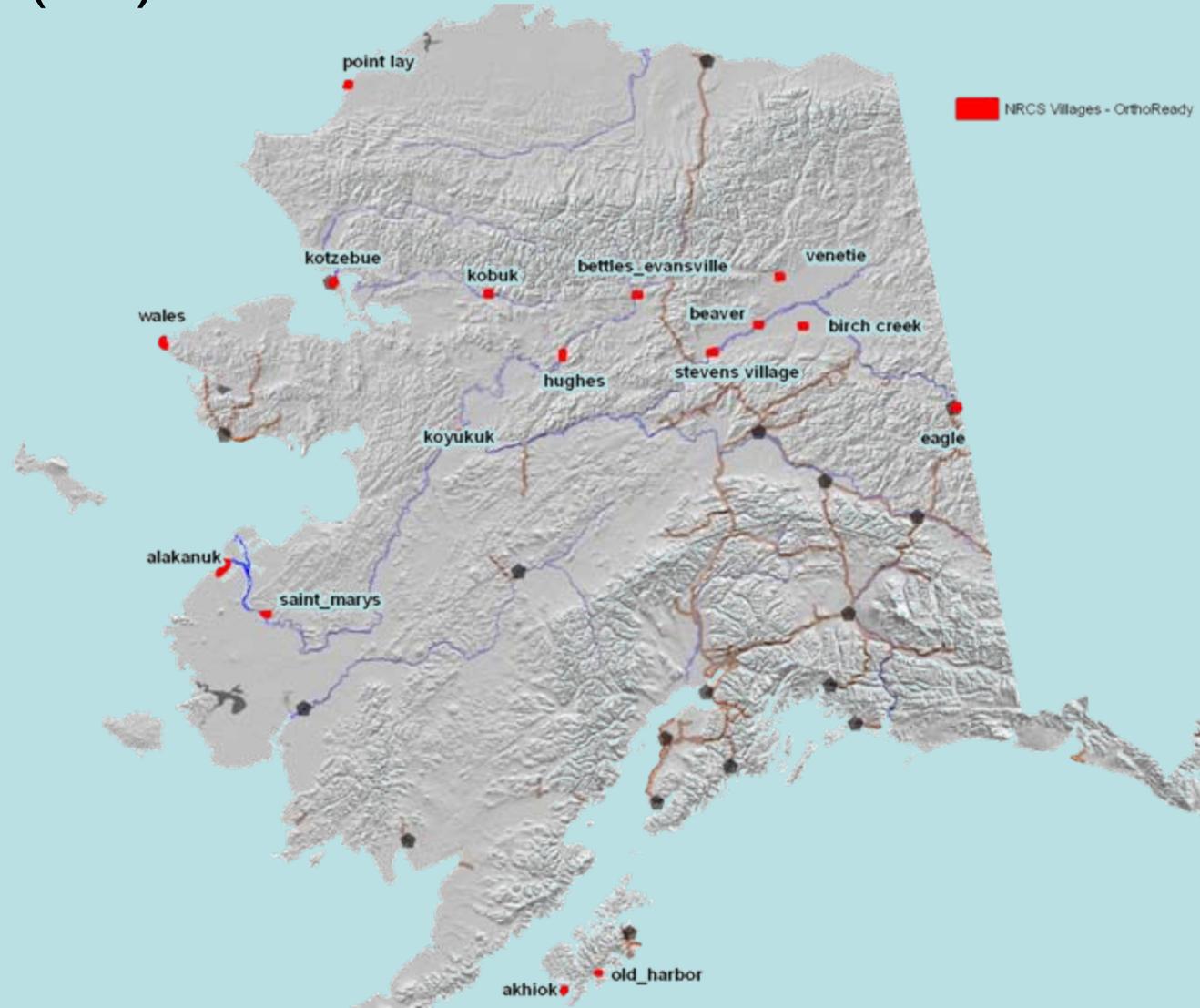


50 sq. km AOI's -  
9 NRI segments per AOI

# Port Graham Development Corp. (8a)

- **2006 Village Archives DG**

- 14 Village Areas  
Avg. 100 sq. km.
- \$ 45,000 Total Cost
- Ortho-Ready Bundle
- 2 Villages to be ortho with Vendor GCP's
- Federal Civil Org. License



# Future Needs

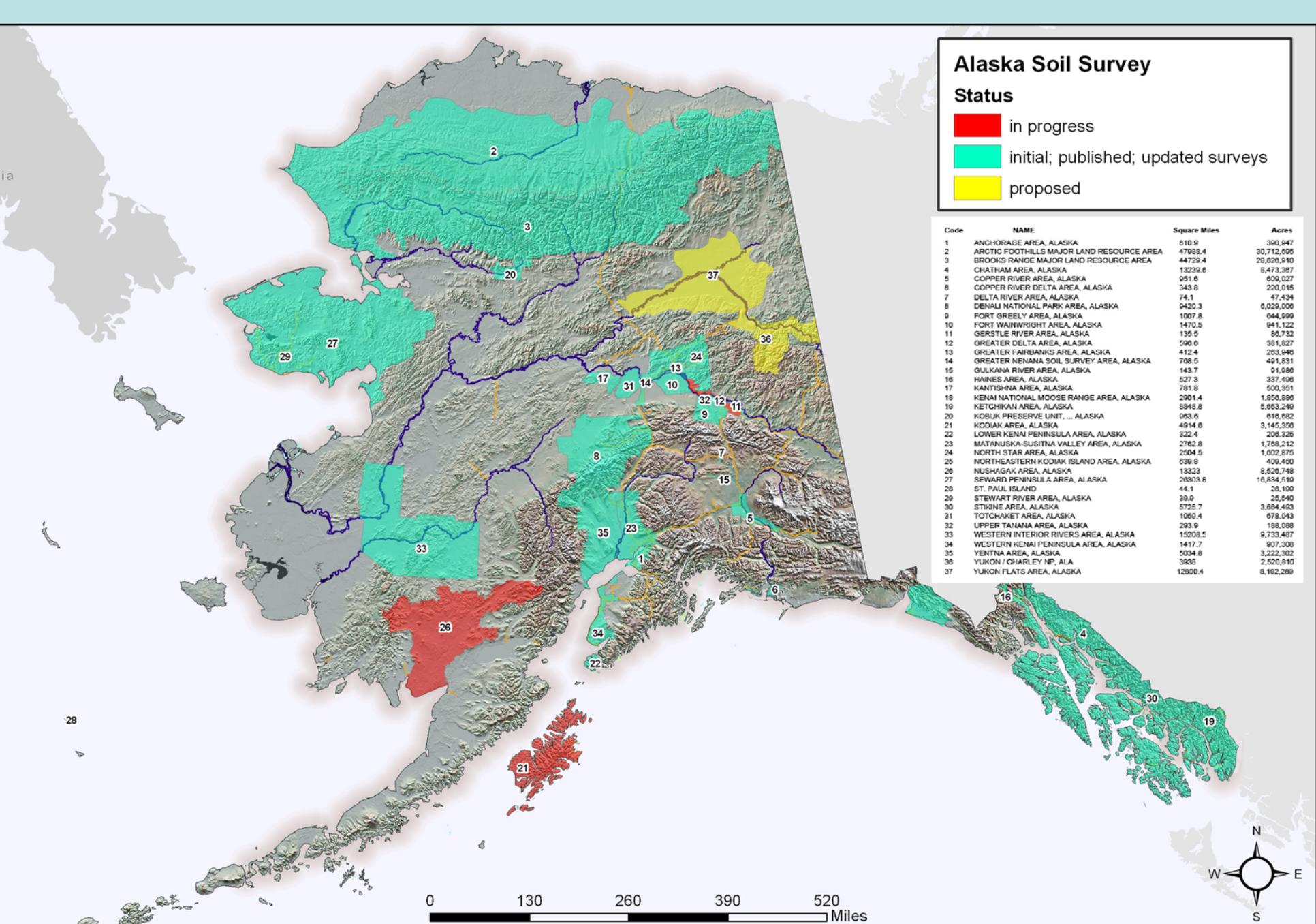
- Ortho and DEM's for Soil Survey Program
  - Variable requirements (village vs. regional mapping)
- Refresh DOQQ's in roaded corridor for Field Office Support - 1 m or better.
- Hi-Res (>1m) Village Imagery & Med-res (5-10m ) imagery over Private Lands

# Alaska Soil Survey

## Status

- in progress
- initial; published; updated surveys
- proposed

Code	NAME	Square Miles	Acres
1	ANCHORAGE AREA, ALASKA	610.9	390,947
2	ARCTIC FOOTHILLS MAJOR LAND RESOURCE AREA	47988.4	30,712,096
3	BROOKS RANGE MAJOR LAND RESOURCE AREA	44729.4	29,626,910
4	CHATHAM AREA, ALASKA	13239.6	8,473,367
5	COPPER RIVER AREA, ALASKA	951.6	609,027
6	COPPER RIVER DELTA AREA, ALASKA	343.8	220,015
7	DELTA RIVER AREA, ALASKA	74.1	47,434
8	DENALI NATIONAL PARK AREA, ALASKA	9420.3	6,029,000
9	FORT GREELY AREA, ALASKA	1007.8	644,999
10	FORT WAINWRIGHT AREA, ALASKA	1470.5	941,122
11	GERSTLE RIVER AREA, ALASKA	135.5	86,732
12	GREATER DELTA AREA, ALASKA	590.0	381,827
13	GREATER FAIRBANKS AREA, ALASKA	412.4	263,946
14	GREATER NENANA SOIL SURVEY AREA, ALASKA	708.5	491,831
15	GULKANA RIVER AREA, ALASKA	143.7	91,980
16	HAINES AREA, ALASKA	527.3	337,496
17	KANTISHNA AREA, ALASKA	781.3	500,351
18	KENAI NATIONAL MOOSE RANGE AREA, ALASKA	2901.4	1,850,880
19	KETCHIKAN AREA, ALASKA	8948.8	5,863,249
20	KOBUK PRESERVE UNIT, ... ALASKA	063.0	616,682
21	KODIAK AREA, ALASKA	4914.0	3,145,350
22	LOWER KENAI PENINSULA AREA, ALASKA	322.4	206,325
23	MATANUSKA-SUSTINA VALLEY AREA, ALASKA	2762.8	1,768,212
24	NORTH STAR AREA, ALASKA	2504.5	1,602,575
25	NORTHEASTERN KODIAK ISLAND AREA, ALASKA	639.8	409,450
26	NUSHAGAK AREA, ALASKA	1332.3	8,526,748
27	SEWARD PENINSULA AREA, ALASKA	26303.8	16,834,519
28	ST. PAUL ISLAND	44.1	28,199
29	STEWART RIVER AREA, ALASKA	30.6	19,540
30	STIKINE AREA, ALASKA	5725.7	3,694,400
31	TOTCHAKET AREA, ALASKA	1059.4	678,043
32	UPPER TANANA AREA, ALASKA	293.9	188,088
33	WESTERN INTERIOR RIVERS AREA, ALASKA	15208.5	9,733,407
34	WESTERN KENAI PENINSULA AREA, ALASKA	1417.7	907,308
35	YENTNA AREA, ALASKA	5034.8	3,222,302
36	YUKON / CHARLEY NP, ALA	3635	2,500,810
37	YUKON FLATS AREA, ALASKA	12900.4	8,162,289



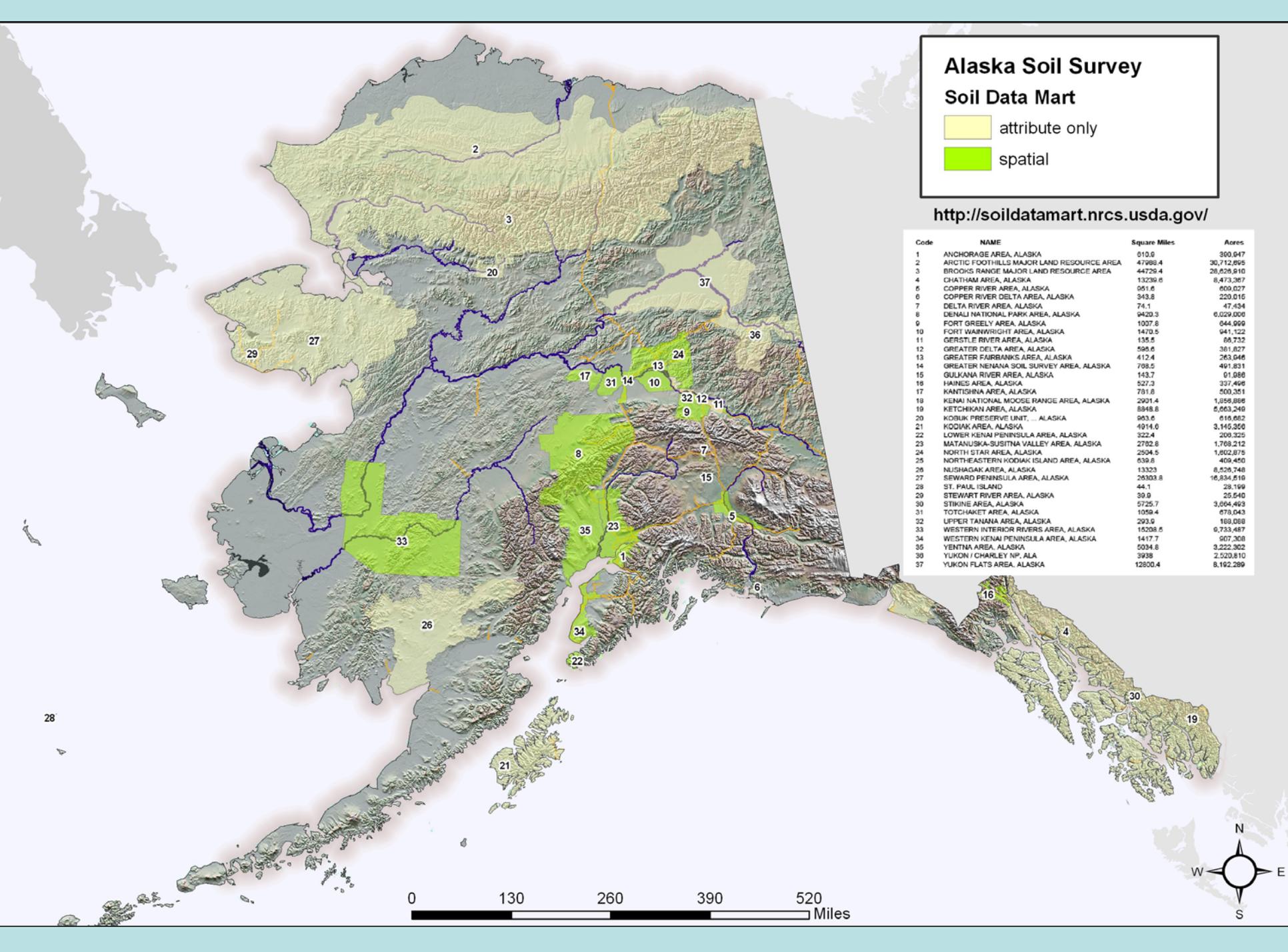
# Alaska Soil Survey

## Soil Data Mart

- attribute only
- spatial

<http://soiladatamart.nrcs.usda.gov/>

Code	NAME	Square Miles	Acres
1	ANCHORAGE AREA, ALASKA	513.0	300,547
2	ARCTIC FOOTHILLS MAJOR LAND RESOURCE AREA	4798.4	30,712,895
3	BROOKS RANGE MAJOR LAND RESOURCE AREA	44726.4	28,526,910
4	CHATHAM AREA, ALASKA	13239.6	8,473,367
5	COPPER RIVER AREA, ALASKA	951.6	609,027
6	COPPER RIVER DELTA AREA, ALASKA	543.8	220,016
7	DELTA RIVER AREA, ALASKA	74.1	47,434
8	DEHALI NATIONAL PARK AREA, ALASKA	9420.3	6,029,000
9	FORT GREELY AREA, ALASKA	1007.8	644,999
10	FORT WAINWRIGHT AREA, ALASKA	1470.5	941,122
11	GERSTLE RIVER AREA, ALASKA	135.5	88,732
12	GREATER DELTA AREA, ALASKA	596.6	381,827
13	GREATER FAIRBANKS AREA, ALASKA	412.4	263,046
14	GREATER NENANA SOIL SURVEY AREA, ALASKA	708.5	491,831
15	GULKANA RIVER AREA, ALASKA	143.7	91,088
16	HAINES AREA, ALASKA	527.3	337,499
17	KANTISHNA AREA, ALASKA	731.8	500,351
18	KENAI NATIONAL MOOSE RANGE AREA, ALASKA	2901.4	1,858,886
19	KETCHIKAN AREA, ALASKA	8848.8	5,663,249
20	KOBUK PRESERVE UNIT, ALASKA	963.6	616,662
21	KODIAK AREA, ALASKA	4914.0	3,145,350
22	LOWER KENAI PENINSULA AREA, ALASKA	322.4	209,325
23	MATANUSKA-SUSTINA VALLEY AREA, ALASKA	2782.6	1,769,212
24	NORTH STAR AREA, ALASKA	2504.5	1,602,875
25	NORTHEASTERN KODIAK ISLAND AREA, ALASKA	639.6	409,450
26	NUSHAGAK AREA, ALASKA	13323	8,526,748
27	SEWARD PENINSULA AREA, ALASKA	26303.8	16,834,616
28	ST. PAUL ISLAND	44.1	28,199
29	STEWART RIVER AREA, ALASKA	30.0	25,540
30	STIKINE AREA, ALASKA	5725.7	3,664,493
31	TOTCHAKET AREA, ALASKA	1059.4	678,043
32	UPPER TANANA AREA, ALASKA	293.9	189,089
33	WESTERN INTERIOR RIVERS AREA, ALASKA	15206.6	9,733,487
34	WESTERN KENAI PENINSULA AREA, ALASKA	1417.7	907,308
35	YENTNA AREA, ALASKA	5034.8	3,222,302
36	YUKON / CHARLEY NP, ALA	3938	2,520,810
37	YUKON FLATS AREA, ALASKA	12800.4	8,192,289



# Data Resources

- Soils Data

- Browser Download - <http://soildatamart.nrcs.usda.gov>
- ArcMap WMS <http://sdmws.nrcs.usda.gov>
- Web Soil Survey <http://websoilsurvey.nrcs.usda.gov>

- All other Geospatial Data

- NAIP WMS <http://gdw.apfo.usda.gov>
- Distribution of Vector & Imagery <http://datagateway.nrcs.usda.gov/>
- Distribution of Alaska Imagery <http://www.alaskamapped.org>
- WebServices of NRCS Imagery <http://gis1.ftw.nrcs.usda.gov/Alaska/>

Welcome to the Soil Data Mart! The Soil Data Mart allows you to:

- Determine where soil tabular and spatial data is available.
- Download data for one soil survey area at a time. (Download requests for more than one survey area at a time can be submitted through the [Geospatial Data Gateway](#). Going through the Geospatial Data Gateway also provides the option to obtain data on CD or DVD.)
- Download a template Microsoft Access® database for working with downloaded data.
- Generate a variety of reports for one soil survey area at a time.
- Find out who to contact for information about soil data for a particular state.
- "Subscribe" or "unsubscribe" to a soil survey area. A person who is subscribed will automatically be notified whenever data for that soil survey area is updated. You must register and login before doing this.

An alternative presentation of the soil survey area data contained in the Soil Data Mart, including on screen or printed soil maps and survey area manuscripts, when they exist for the corresponding survey area, is available through [Web Soil Survey](#).



Before you start, see [Soil Data Mart - Purpose and Procedures \(2579K\)](#).

Please either select from the list of options across the top of the page, or to request a download or generate reports, begin by selecting a state or territory.

Select State

The Soil Data Mart may be unavailable on Tuesdays and Thursdays from 6:30 to 8:30 p.m. Mountain time due to maintenance activities.

The Soil Data Mart has been tested under Mozilla Firefox® 1.0 and later, Microsoft Internet Explorer® 5.0 and later, and Netscape Navigator® 4.7 and later for Microsoft Windows®. There are differences in site navigation and mechanics under different versions of these browsers. Some differences are more significant than others. There are some major differences under Netscape Navigator® 4.7 and 4.8. For details on site navigation and mechanics under different versions of these browsers, please see [Navigating and Using the Soil Data Mart](#) on the [Soil Data Mart Help page](#).

The Soil Data Mart provides an entry point to allow its pages to be integrated easily into other web sites. [Get detailed information.](#)

Please select a state or territory with at least one survey area:

State or Territory Code	State or Territory Name	Available Survey Areas
AL	Alabama	67
AK	Alaska	29
AZ	Arizona	44
AR	Arkansas	66
CA	California	101
CO	Colorado	65
CT	Connecticut	1
DC	District of Columbia	1
DE	Delaware	3
FL	Florida	70
GA	Georgia	95
HI	Hawaii	6
ID	Idaho	43
IL	Illinois	102
IN	Indiana	92
IA	Iowa	99
KS	Kansas	105
KY	Kentucky	83
LA	Louisiana	64
ME	Maine	17
MD	Maryland	25

Please select a soil survey area:

Survey Area Symbol	Survey Area Name	Available Data
AK600	Matanuska-Susitna Valley Area, Alaska	Tabular and Spatial
AK605	Anchorage Area, Alaska	Tabular and Spatial
AK606	Salcha-Big Delta Area, Alaska	Tabular Only
AK608	Northeastern Kodiak Island Area, Alaska	Tabular Only
AK609	Goldstream-Nenana Area, Alaska	Tabular Only
AK610	Greater Fairbanks Area, Alaska	Tabular and Spatial
AK612	Copper River Area, Alaska	Tabular and Spatial
AK615	Gerstle River Area, Alaska	Tabular and Spatial
AK625	Totchaket Area, Alaska	Tabular and Spatial
AK631	Yentna Area, Alaska	Tabular and Spatial
AK639	Lower Kenai Peninsula Area, Alaska	Tabular and Spatial
AK640	Upper Tanana Area, Alaska	Tabular and Spatial
AK641	Haines Area, Alaska	Tabular and Spatial
AK642	North Star Area, Alaska	Tabular and Spatial
AK643	Kantishna Area, Alaska	Tabular and Spatial
AK644	Ketchikan Area, Alaska	Tabular Only
AK645	Stikine Area, Alaska	Tabular Only
AK646	Chatham Area, Alaska	Tabular Only
AK648	Kobuk Preserve Unit, Gates of the Arctic National Park, Alaska	Tabular Only
AK649	Gulkana River Area, Alaska	Tabular Only

\*Mapping for this survey area is still in progress, and the corresponding spatial and tabular data are not yet complete.

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The time needed to process a download request varies based on which spatial format option was selected, if any, and whether or not a download for the survey area in question is already cached. The overall average time required to process a download request is 1.2 minutes. Therefore, to estimate your wait time, in minutes, multiply your initial queue position by 1.2. Please keep in mind that this is only an estimate. Please also remember that downloads are not processed from 10:00 PM to 6:00 AM, Mountain Time Zone.

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  - ▶ Soil Series Extent Mapping Tool
  - ▶ Soil Data Mart
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The simple yet powerful way to access and use soil data.



### Welcome to Web Soil Survey (WSS)



Web Soil Survey (WSS) provides soil data and information produced by the National Cooperative Soil Survey. It is operated by the USDA Natural Resources Conservation Service (NRCS) and provides access to the largest natural resource information system in the world. NRCS has soil maps and data available online for more than 95 percent of the nation's counties and anticipates having 100 percent in the near future. The site is updated and maintained online as the single authoritative source of soil survey information.

### Three Basic Steps

**1** Define.



[Use the Area of Interest tab](#) to define your area of interest.

### I Want To...

- [Start Web Soil Survey \(WSS\)](#)
- [Know the requirements for running Web Soil Survey](#)
- [Know whether my web browser works with Web Soil Survey](#)
- [Know the Web Soil Survey hours of operation](#)
- [Find what areas of the U.S. have soil data](#)

### Announcements/Events

- [Web Soil Survey 2.0 has been released! View description of new features.](#)

### I Want Help With...

- [How to use Web Soil Survey](#)
- [Known problems and workarounds](#)

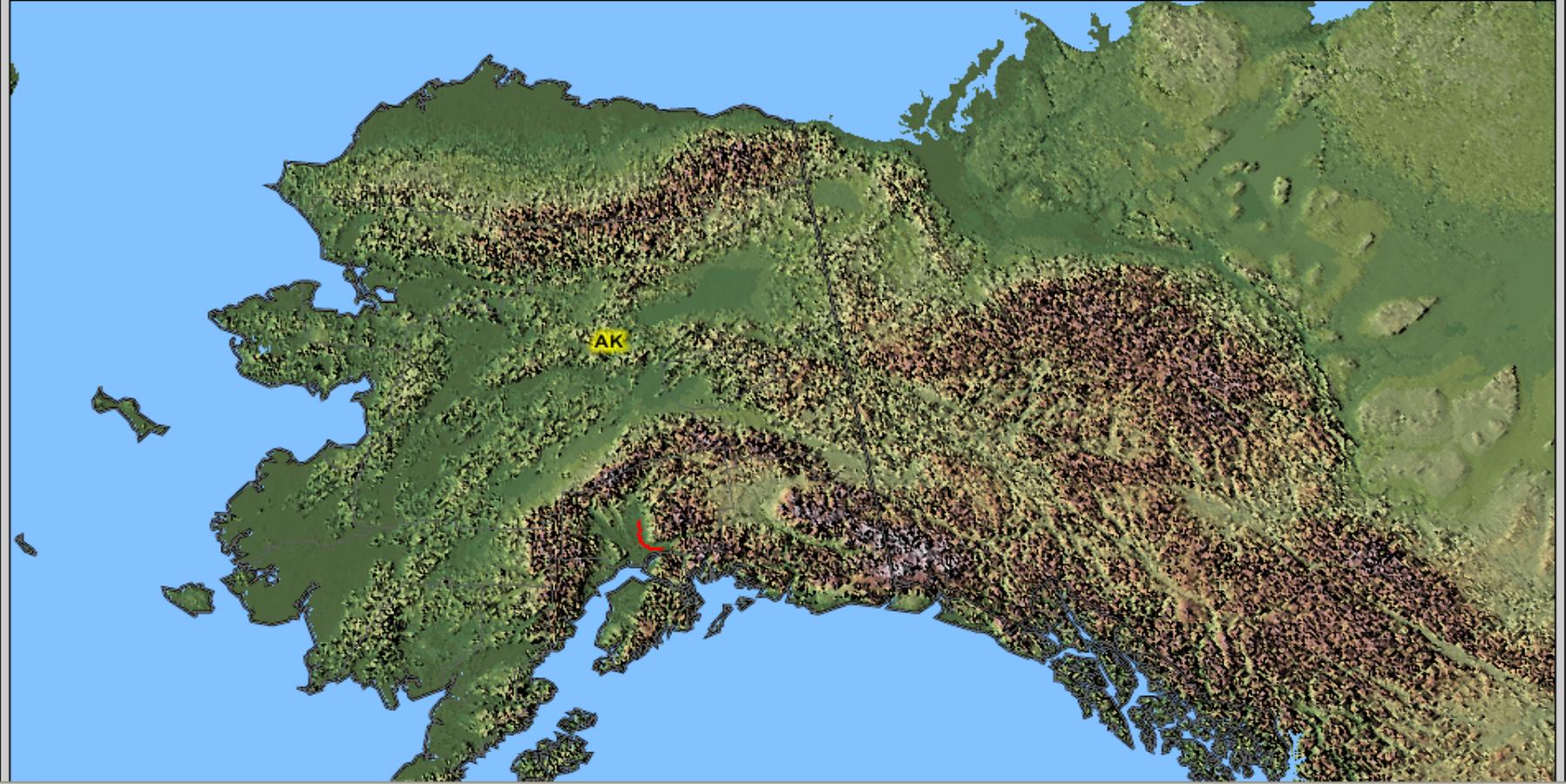
Area of Interest (AOI) | Soil Map | Soil Data Explorer | Shopping Cart



Area of Interest Interactive Map

Legend

View Extent: Alaska | Scale: 1:11,200,000 ± 1 %



- Area of Interest (AOI)
- Soil Map
- Soil Data Explorer
- Shopping Cart



Area of Interest Interactive Map

Legend View Extent Alaska Scale 1:18,900 ± 1 %



Area of Interest (AOI)

**Soil Map**

Soil Data Explorer

Shopping Cart

Printable Version

Add to Shopping Cart

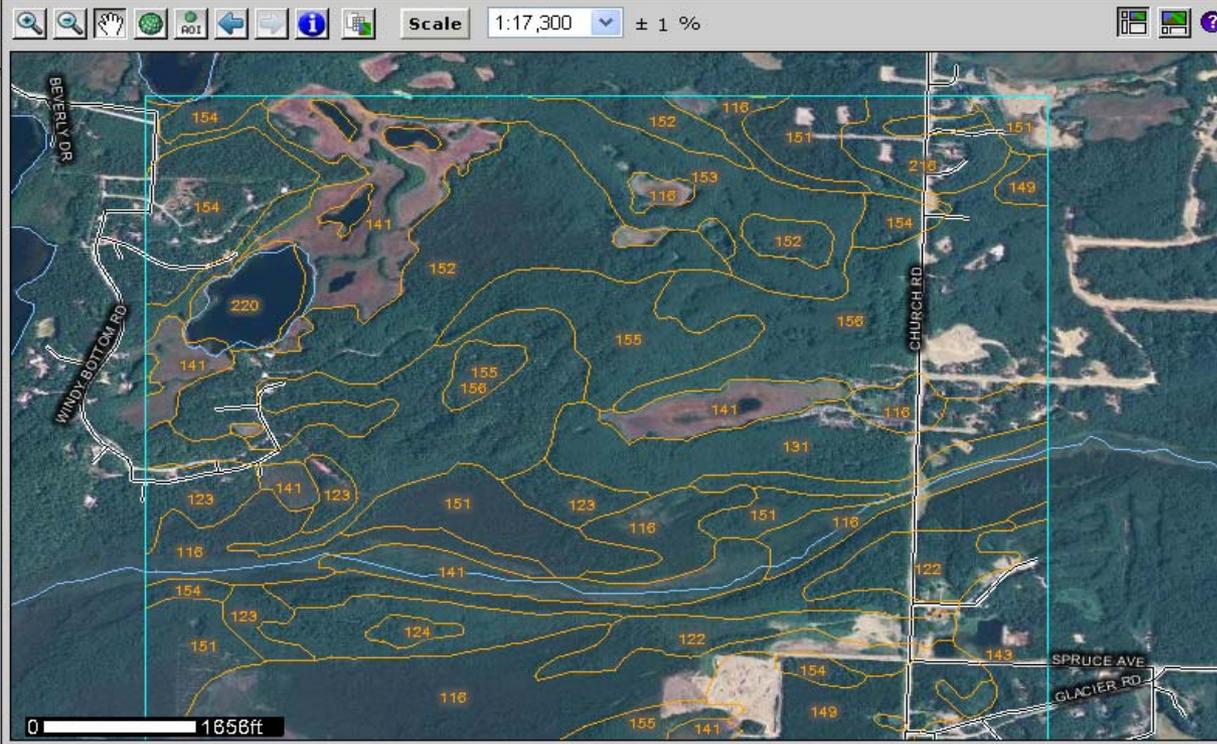
Map Unit Legend

Matanuska-Susitna Valley Area, Alaska (AK600)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
116	Cryaquepts, depressional, 0 to 7 percent slopes	294.4	16.6%
120	Cryods, low elevation, and Cryochrepts, 30 to 70 percent slopes	79.7	4.5%
122	Deception silt loam, rolling	72.3	4.1%
123	Deception silt loam, sloping and moderately steep	49.0	2.8%
124	Deception silt loam, steep and sloping	34.0	1.9%
131	Estelle silt loam, rolling	75.9	4.3%
141	Histosols	171.1	9.6%
143	Kalambach silt loam, sloping and moderately steep	63.3	3.6%
149	Kashwitna silt loam, undulating	56.2	3.2%
151	Kichatna silt loam,	122.3	6.9%

**Totals for Area of Interest (AOI)**      **1,773.7**      **100.0%**

Soil Map



Suitabilities and Limitations Ratings

Open All Close All

- Building Site Development
- Disaster Recovery Planning
- Land Classifications
- Military Operations
- Sanitary Facilities
- Vegetative Productivity

Soil Map

Scale 1:20,300 ± 1 %



Suitabilities and Limitations Ratings

Open All Close All

Building Site Development

- Corrosion of Concrete
- Corrosion of Steel
- Dwellings With Basements
- Dwellings Without Basements

Local Roads and Streets

View Description View Rating

View Options

- Map
- Table
- Component Breakdown and Rating Reasons
  - Rating Values (Numbers)
- Description of Rating
- Rating Options 
  - Detailed Description

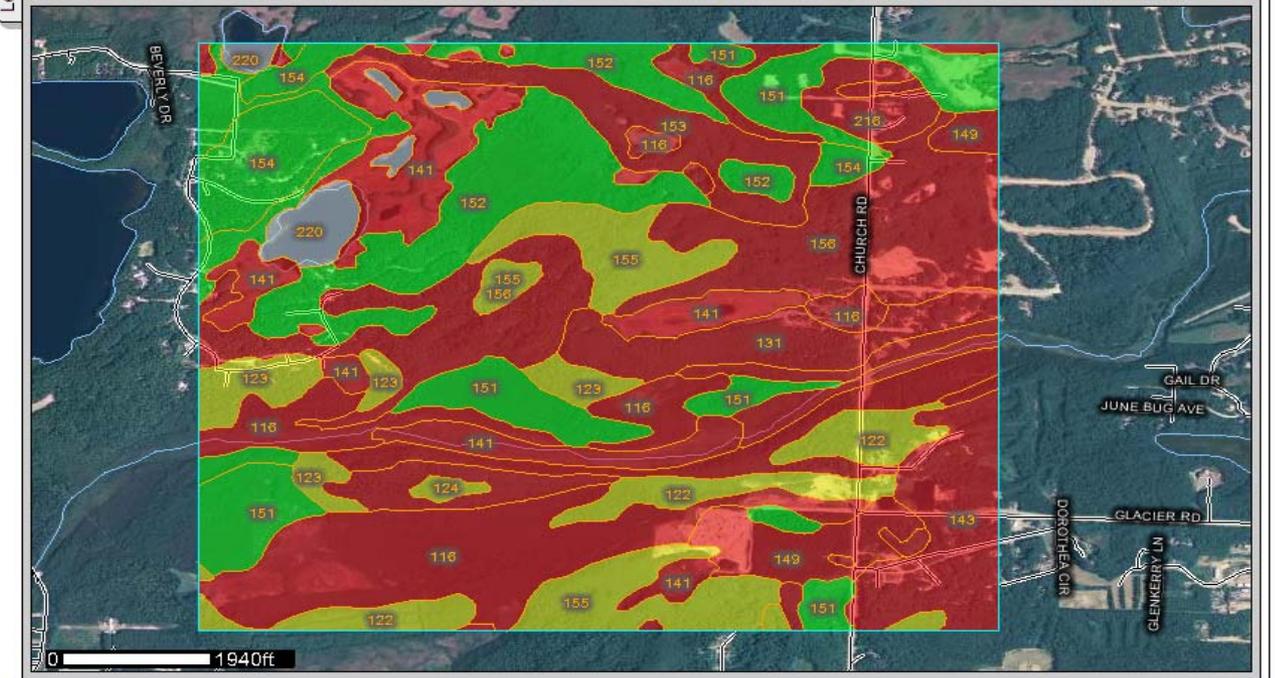
Advanced Options

View Description View Rating

- Shallow Excavations
- Small Commercial Buildings
- Disaster Recovery Planning
- Land Classifications
- Military Operations
- Sanitary Facilities
- Vegetative Productivity

Map - Local Roads and Streets

Scale 1:20,300 ± 1 %



Tables - Local Roads and Streets - Summary By Map Unit

Summary by Map Unit - Matanuska-Susitna Valley Area, Alaska

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (rating values)	Acres in AOI	Percent of AOI
116	Cryaquepts, depressional, 0 to 7 percent slopes	Very limited	Cryaquepts, depressional (90%)	Depth to saturated zone (1.00) Frost action (1.00)	318.5	15.5%

### Legend

#### Map Legend

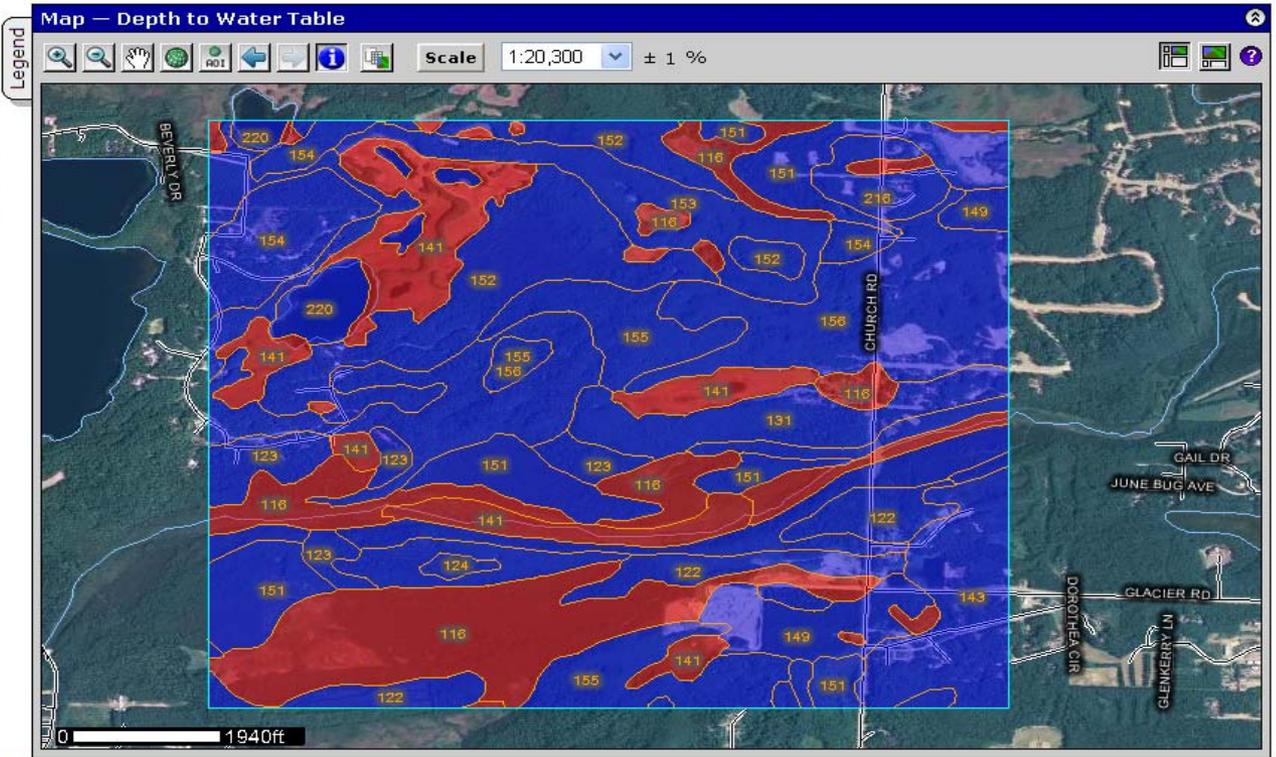
- Area of Interest (AOI)
  - Area of Interest (AOI)
- Soils
  - Soil Survey Areas
  - Soil Map Units
  - Soil Ratings
    - 0 - 25
    - 25 - 50
    - 50 - 100
    - 100 - 150
    - 150 - 200
    - > 200
- Special Point Features
- Special Line Features
- Political Features
  - Postal Code
  - Public Land Survey
    - Township and Range
    - Section
  - States
  - Counties
  - Municipalities
    - Cities
    - Urban Areas
- Federal Land
  - Bureau of Land Management
  - Bureau of Reclamation
  - Department of Defense

Ending Month: December

[View Description](#) [View Rating](#)

Flooding Frequency Class

Ponding Frequency Class



### Identify Results

To identify a feature in a map layer at a specific point on the map:

1. Open the *Legend* control by clicking the **Legend** tab.
2. Click a map layer name in the *Legend* panel to make it the **active layer**. You cannot identify a layer that is disabled because that layer does not appear at the current view scale. To identify a disabled layer, zoom in or out until it is visible.
3. Click the map at the location of interest.
4. The point you identified is marked with the cursor.

### Data Available

[Status Map](#)

To see available data for a specific point on the map, click the map at the location of interest.

To see a map showing available data for all locations in the U.S. and territories, as a PDF in a separate browser window, click the **Status Map** button.

Option View Soil Report

Option View Soil Report



Report — Water Features

Matanuska-Susitna Valley Area, Alaska

Map unit symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Surface depth	Ponding		Flooding	
				Upper limit	Lower limit		Duration	Frequency	Duration	Frequency
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>				
116—Cryaquepts, depressional, 0 to 7 percent slopes										
Cryaquepts, depressional	D	Very high	January	0.0-1.5	5.0-5.0	—	—	None	—	None
			February	0.0-1.5	5.0-5.0	—	—	None	—	None
			March	0.0-1.5	5.0-5.0	—	—	None	—	None
			April	0.0-1.5	5.0-5.0	—	—	None	—	None
			May	0.0-1.5	5.0-5.0	—	—	None	—	None
			June	0.0-1.5	5.0-5.0	—	—	None	—	None

Check Out ?

Report Properties ?

Title

Title Custom Soil Resource Report for Matanuska-Susitna Valley Area, Alaska

Subtitle

Area of Interest Name: (none defined)

Custom Subtitle:

Church Road Area, Wasilla

None

Size

Total Size 1,468 KB (1.4 MB)

Map Options

Show UTM Coordinate Ticks

Map Page Size

Map Scale

Generating custom soil resource report...

Table of Contents ?

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<input checked="" type="checkbox"/>	Contents	1 KB
<input checked="" type="checkbox"/>	How Soil Surveys Are Made	5 KB
<input checked="" type="checkbox"/>	Soil Map	512 KB
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<input type="checkbox"/>	Intro to Soils	
<input checked="" type="checkbox"/>	Soil Properties and Qualities	382 KB
<input checked="" type="checkbox"/>	Water Features	382 KB
<input checked="" type="checkbox"/>	Depth to Water Table	382 KB

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    - 155—Kichatna-Deception complex, sloping and moderately steep
    - 156—Kichatna-Deception complex, steep and sloping
    - 216—Yohn silt loam, rolling
    - 220—Water
- Soil Information for All Uses
  - Soil Properties and Qualities
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      - Depth to Water Table (depth to water)
  - Soil Reports



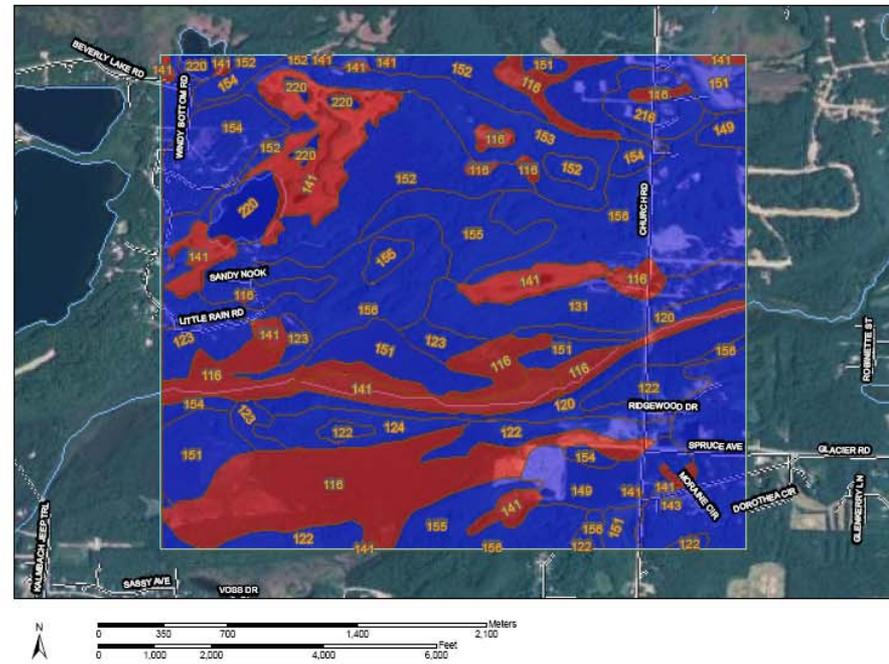
A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

# Custom Soil Resource Report for Matanuska-Susitna Valley Area, Alaska

## Church Road Area, Wasilla



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Custom Soil Resource Report  
Legend—Depth to Water Table (depth to water)

MAP LEGEND	MAP INFORMATION
<p><b>Area of Interest (AOI)</b></p> <p>□ Area of Interest (AOI)</p> <p><b>Soils</b></p> <p>□ Soil Map Units</p> <p><b>Soil Ratings</b></p> <ul style="list-style-type: none"> <li>0 - 25</li> <li>25 - 50</li> <li>50 - 100</li> <li>100 - 150</li> <li>150 - 200</li> <li>&gt; 200</li> </ul>	<p>Original soil survey map sheets were prepared at publication scale. Viewing scale and printing scale, however, may vary from the original. Please rely on the bar scale on each map sheet for proper map measurements.</p> <p>Source of Map: Natural Resources Conservation Service Web Soil Survey URL: <a href="http://websoilsurvey.nrcs.usda.gov">http://websoilsurvey.nrcs.usda.gov</a> Coordinate System: UTM Zone 6N</p> <p>This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.</p> <p>Soil Survey Area: Matanuska-Susitna Valley Area, Alaska Survey Area Data: Version 7, Mar 27, 2007</p>

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### 149—Kashwitna silt loam, undulating

#### Map Unit Setting

Elevation: 50 to 400 feet  
 Mean annual precipitation: 15 to 20 inches  
 Mean annual air temperature: 34 to 36 degrees F  
 Frost-free period: 90 to 122 days

#### Map Unit Composition

Kashwitna and similar soils: 90 percent  
 Minor components: 10 percent

#### Description of Kashwitna

##### Setting

Landform: Outwash plains  
 Down-slope shape: Linear  
 Across-slope shape: Linear  
 Parent material: Silty volcanic ash and/or silty loess over sandy and gravelly outwash

##### Properties and qualities

Slope: 0 to 8 percent  
 Depth to restrictive feature: More than 80 inches  
 Drainage class: Well drained  
 Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)  
 Depth to water table: More than 80 inches  
 Frequency of flooding: None  
 Frequency of ponding: None  
 Available water capacity: Moderate (about 7.7 inches)

##### Interpretive groups

Land capability (nonirrigated): 3e  
 Ecological site: Glaciofluvial deposits, 15-25 inch pz. (F170XY006AK)

##### Typical profile

0 to 3 inches: Slightly decomposed plant material  
 3 to 5 inches: Silt loam  
 5 to 20 inches: Silt loam  
 20 to 60 inches: Very gravelly sand

#### Minor Components

##### Steeper soils

Percent of map unit: 3 percent  
 Landform: Outwash plains  
 Down-slope shape: Linear  
 Across-slope shape: Linear

##### Kichatna soils

Percent of map unit: 3 percent  
 Landform: Outwash plains  
 Down-slope shape: Linear  
 Across-slope shape: Linear  
 Ecological site: Glaciofluvial deposits, thin surface (F170XC009AK)