



FEMA

Semi-Annual Geospatial Data Coordination Report

December 08, 2010



Introduction

The Department of Homeland Security's (DHS's) Federal Emergency Management Agency (FEMA) has developed a Geospatial Data Coordination Policy that establishes the principles for coordinating, communicating, documenting, and reporting existing and proposed geospatial data collected, produced, or manipulated under FEMA's Risk MAP Program. The purpose is to facilitate data sharing and secondary data use. The primary goals of this policy are to ensure that the Risk MAP Program will:

1. protect its investments in geospatial data by requiring data to be documented, standard-compliant, and easily accessible to the general public when appropriate and release of the data does not pose a security risk;
2. maximize the use of partnerships, including Federal, State and local partners, for the acquisition and production of geospatial data;
3. minimize duplicative requests from Federal agencies to State and local data stewards;
4. recognize the value of existing coordination efforts at the State and local levels; and
5. comply with all Federal requirements for coordination and reporting of geospatial activities.

This report supports the objectives of the coordination policy and summarizes some of the key results of the policy implementation.

Summary

This report has two primary purposes. The first is to provide a summary of the funds spent by FEMA on elevation and imagery data and the value of geospatial data investments provided by other Federal, State, and local government agencies that have been leveraged by the Risk Map Program. Summary data and project listings of geospatial data contributions are provided below in the section entitled "Geospatial Leverage in Risk Map Projects".

The second purpose is to provide a summary of the data used by Risk MAP for the two most critical types of geospatial data for Risk Map. Elevation and imagery data sets collected or produced by FEMA's Risk Map program are listed to provide Agency members of the National Digital Elevation Program (NDEP), the National Digital Orthophoto Program (NDOP), and other potential users with a summary of these data sets. Listings of these data sets are provided below in the section entitled "Risk Map Ortho and Elevation Data Sets".

Orthophoto data used on the Risk MAP program is managed, distributed and archived by the USGS EROS Data Center.

Elevation data used on Risk MAP program is often available through the USGS, but the comprehensive archive is managed by the FEMA Engineering Library. Most of the data is available without restriction, but fees are usually charged for research and retrieval. Some partners who provide elevation data for FEMA projects restrict the redistribution of the data and FEMA does not make it available. Information on obtaining data from the FEMA Engineering Library is available at: http://www.fema.gov/plan/prevent/fhm/st_order.shtm

This report is updated on a semi-annual basis occurring in the Spring and Fall.

Geospatial Leverage in Risk Map Projects

Geospatial Data Costs - FEMA Funding versus Leverage

| Region | Source | Base Map Data | | | | Topographic Data | | | |
|----------|-------------|---------------|------|------------|------|------------------|------|--------------|------|
| | | FY 2009 | | FY 2010 | | FY 2009 | | FY 2010 | |
| 1 | FEMA budget | \$ 44,089 | 100% | \$ 23,993 | 4% | \$ 680,262 | 100% | \$ 61,197 | 100% |
| | Leverage | \$ - | 0% | \$ 651,600 | 96% | \$ - | 0% | \$ - | 0% |
| 2 | FEMA budget | \$ 258,445 | 47% | | | \$ 342,048 | 100% | | |
| | Leverage | \$ 288,923 | 53% | | | \$ - | 0% | | |
| 3 | FEMA budget | \$ 239,326 | 76% | \$ - | 0% | \$ 80,136 | 9% | \$ - | 0% |
| | Leverage | \$ 74,500 | 24% | \$ 2,935 | 100% | \$ 796,500 | 91% | \$ 93,450 | 100% |
| 4 | FEMA budget | \$ 235,278 | 26% | | | \$ 1,452,544 | 47% | | |
| | Leverage | \$ 662,870 | 74% | | | \$ 1,623,460 | 53% | | |
| 5 | FEMA budget | \$ 178,396 | 64% | \$ 907 | 100% | \$ 38,229 | 16% | | |
| | Leverage | \$ 100,500 | 36% | \$ - | 0% | \$ 201,000 | 84% | | |
| 6 | FEMA budget | \$ 134,260 | 29% | | | \$ 742,584 | 59% | | |
| | Leverage | \$ 333,816 | 71% | | | \$ 526,000 | 41% | | |
| 7 | FEMA budget | \$ 140,927 | 100% | \$ 7,739 | 100% | \$ 867,853 | 75% | \$ 1,405,092 | 100% |
| | Leverage | \$ - | 0% | \$ - | 0% | \$ 287,147 | 25% | \$ - | 0% |
| 8 | FEMA budget | \$ 87,064 | 32% | \$ 75,345 | 100% | \$ 483,992 | 72% | \$ 378,380 | 100% |
| | Leverage | \$ 188,602 | 68% | \$ - | 0% | \$ 186,850 | 28% | \$ - | 0% |
| 9 | FEMA budget | \$ 183,317 | 100% | \$ 24,321 | 100% | \$ 733,063 | 99% | \$ 693,468 | 100% |
| | Leverage | \$ - | 0% | \$ - | 0% | \$ 11,000 | 1% | \$ - | 0% |
| 10 | FEMA budget | \$ 130,229 | 100% | | | \$ 414,911 | 100% | | |
| | Leverage | \$ - | 0% | | | \$ - | 0% | | |
| National | FEMA budget | \$ 1,631,331 | 50% | \$ 132,305 | 17% | \$ 5,835,622 | 62% | \$ 2,828,457 | 97% |
| | Leverage | \$ 1,649,211 | 50% | \$ 654,535 | 83% | \$ 3,631,957 | 38% | \$ 93,450 | 3% |

* Dollar values represent the total FEMA budget or value of Leverage, per region / per fiscal year / per data type (base map or topo data.)

In the columns immediately to the right of the dollar values are those FEMA budgets and Leverages expressed as a percentage of (FEMA budget + Leverage).

Empty cells indicate that no activity is reported.

FY09 is that last full reporting year. Budget and leverage data for FY10 is not complete as of the publication of this report.



Leverage in Risk MAP Projects

| Reg. | State | Case Number | Task Name | Leverage Contributing Partner | Leverage Funded Year | Leverage Dollar Value | Leverage Task Comments |
|------|-------|-------------|------------------|--|----------------------|-----------------------|------------------------|
| 1 | CT | 10-01-0662S | Acquire Base Map | Connecticut Department of Environmental Protection (CT DEP) | 2010 | \$83,700 | |
| 1 | CT | 10-01-0663S | Acquire Base Map | Connecticut Department of Environmental Protection (CT DEP) | 2010 | \$77,200 | |
| 1 | CT | 10-01-0664S | Acquire Base Map | Connecticut Department of Environmental Protection (CT DEP) | 2010 | \$43,900 | |
| 1 | CT | 10-01-0665S | Acquire Base Map | Connecticut Department of Environmental Protection (CT DEP) | 2010 | \$86,200 | |
| 1 | MA | 10-01-0661S | Acquire Base Map | Massachusetts Office of Geographic Information (MASS GIS) | 2010 | \$10,500 | |
| 1 | NH | 10-01-0438S | Acquire Base Map | New Hampshire Geographically Referenced Analysis and Information Transfer System | 2010 | \$99,200 | |
| 1 | NH | 10-01-0672S | Acquire Base Map | New Hampshire Geographically Referenced Analysis and Information Transfer System | 2010 | \$183,100 | |
| 1 | VT | 10-01-0671S | Acquire Base Map | VCGI | 2010 | \$67,800 | |
| 2 | NJ | 10-02-0568S | Acquire Base Map | New Jersey State Office of Information Technology | 2009 | \$56,107 | |
| 2 | NJ | 10-02-0680S | Acquire Base Map | New Jersey State Office of Information Technology | 2009 | \$11,750 | |
| 2 | NJ | 10-02-0675S | Acquire Base Map | New Jersey State Office of Information Technology | 2009 | \$2,927 | |
| 2 | NJ | 10-02-0673S | Acquire Base Map | New Jersey State Office of Information Technology | 2009 | \$2,962 | |
| 2 | NJ | 10-02-0672S | Acquire Base Map | New Jersey State Office of Information Technology | 2009 | \$18,529 | |
| 2 | NJ | 10-02-0671S | Acquire Base Map | New Jersey State Office of Information Technology | 2009 | \$47,158 | Task Complete. |
| 2 | NJ | 10-02-0670S | Acquire Base Map | New Jersey State Office of Information Technology | 2009 | \$13,230 | Task complete. |
| 2 | NJ | 10-02-0669S | Acquire Base Map | New Jersey State Office of Information Technology | 2009 | \$7,235 | Task complete. |
| 2 | NJ | 10-02-0591S | Acquire Base Map | New Jersey State Office of Information Technology | 2009 | \$33,788 | |
| 2 | NJ | 10-02-0956S | Acquire Base Map | New Jersey State Office of Information Technology | 2009 | \$10,492 | |
| 2 | NJ | 10-02-0578S | Acquire Base Map | New Jersey State Office of Information Technology | 2009 | \$25,519 | |



| Reg. | State | Case Number | Task Name | Leverage Contributing Partner | Leverage Funded Year | Leverage Dollar Value | Leverage Task Comments |
|------|-------|-------------|--------------------------|--|----------------------|-----------------------|---|
| 2 | NJ | 10-02-0957S | Acquire Base Map | New Jersey State Office of Information Technology | 2009 | \$4,669 | Complete. |
| 2 | NJ | 10-02-0581S | Acquire Base Map | New Jersey State Office of Information Technology | 2009 | \$48,930 | |
| 2 | NJ | 10-02-0954S | Acquire Base Map | New Jersey State Office of Information Technology | 2009 | \$5,627 | Task Complete. |
| 3 | PA | 07-03-0427S | Develop Topographic Data | U.S. Geological Survey, Pennsylvania District | 2007 | \$230,000 | |
| 3 | PA | 07-03-0435S | Develop Topographic Data | U.S. Geological Survey, Pennsylvania District | 2007 | \$112,500 | |
| 3 | PA | 10-03-0271S | Acquire Base Map | National Geospatial-Intelligence Agency (NGA) | 2009 | \$74,500 | Also gathered by the USGS. |
| 3 | PA | 10-03-0271S | Develop Topographic Data | | 2009 | \$149,000 | Lidar collection was by PAMAP, not RAMPP. |
| 3 | PA | 10-03-0359S | Develop Topographic Data | U.S. Geological Survey, Pennsylvania District | 2010 | \$93,450 | |
| 3 | PA | 07-03-0436S | Develop Topographic Data | U.S. Geological Survey, Pennsylvania District | 2007 | \$205,750 | |
| 3 | PA | 07-03-0438S | Develop Topographic Data | U.S. Geological Survey, Pennsylvania District | 2007 | \$99,250 | |
| 3 | VA | 10-03-2084S | Acquire Base Map | Virginia DCR | 2010 | \$2,935 | |
| 4 | AL | 09-04-7728S | Acquire Base Map | Alabama Department of Economic and Community Affairs | 2009 | \$92,140 | |
| 4 | AL | 09-04-7728S | Acquire Base Map | Alabama Department of Economic and Community Affairs | 2009 | \$62,100 | |
| 4 | AL | 09-04-7728S | Develop Topographic Data | Alabama Department of Economic and Community Affairs | 2009 | \$124,200 | |
| 4 | AL | 09-04-8084S | Acquire Base Map | Alabama Department of Economic and Community Affairs | 2009 | \$80,500 | |
| 4 | AL | 09-04-8084S | Develop Topographic Data | Alabama Department of Economic and Community Affairs | 2009 | \$161,000 | |
| 4 | FL | 10-04-3157S | Acquire Base Map | | 2009 | \$14,320 | |
| 4 | FL | 10-04-3157S | Develop Topographic Data | | 2009 | \$330,900 | LiDAR Terrain Data |
| 4 | FL | 09-04-8602S | Acquire Base Map | | 2009 | \$76,200 | |
| 4 | FL | 09-04-8602S | Develop Topographic Data | | 2009 | \$115,200 | Very Flat Terrain Less than 1000 sq mile |
| 4 | FL | 10-04-3115S | Acquire Base Map | | 2009 | \$95,300 | 1ft resolution Countywide |



| Reg. | State | Case Number | Task Name | Leverage Contributing Partner | Leverage Funded Year | Leverage Dollar Value | Leverage Task Comments |
|------|-------|-------------|--------------------------|---|----------------------|-----------------------|---|
| 4 | FL | 10-04-3116S | Develop Topographic Data | | 2009 | \$43,500 | Lidar 9 sq miles & 78 sq miles 1 ft contours |
| 4 | FL | 10-04-3116S | Acquire Base Map | | 2009 | \$150,600 | 1ft resolution Countywide |
| 4 | FL | 10-04-3115S | Develop Topographic Data | | 2009 | \$476,500 | Lidar Countywide 953 sq miles |
| 4 | TN | 10-04-3156S | Develop Topographic Data | | 2009 | \$31,360 | |
| 4 | TN | 10-04-3156S | Acquire Base Map | | 2009 | \$7,840 | |
| 4 | TN | 10-04-3155S | Acquire Base Map | | 2009 | \$5,080 | |
| 4 | TN | 09-04-8601S | Acquire Base Map | | 2009 | \$68,100 | |
| 4 | TN | 10-04-3117S | Develop Topographic Data | | 2009 | \$108,600 | |
| 4 | TN | 10-04-3155S | Develop Topographic Data | | 2009 | \$127,000 | |
| 4 | TN | 10-04-3113S | Acquire Base Map | | 2009 | \$5,260 | |
| 4 | TN | 10-04-3113S | Develop Topographic Data | | 2009 | \$105,200 | |
| 4 | TN | 10-04-3117S | Acquire Base Map | | 2009 | \$5,430 | |
| 5 | OH | 08-05-3698S | Develop Topographic Data | Ohio Department of Natural Resources | 2009 | \$94,600 | Countywide DEMs received from OSIP - Ohio Space Imagery Program |
| 5 | OH | 10-05-2400S | Acquire Base Map | Ohio Department of Natural Resources | 2009 | \$53,200 | |
| 5 | OH | 08-05-3698S | Acquire Base Map | Ohio Department of Natural Resources | 2009 | \$47,300 | MrSID Orthophotography was acquired from the Ohio Geographically Reference Information Program. |
| 5 | OH | 10-05-2400S | Develop Topographic Data | Ohio Department of Natural Resources | 2009 | \$106,400 | |
| 6 | AR | 10-06-0132S | Acquire Base Map | | 2009 | \$66,700 | Vector-based base map data provided by and approved for use in FEMA Flood Insurance Study by Arkansas Geographic Information Office (AGIO). Data was not in Appendix L format, but the shapes and attributes were used in preparation of the Digital Flood Insu |
| 6 | AR | 10-06-1124S | Acquire Base Map | Arkansas Geographic Information Office (AGIO) | 2009 | \$62,900 | Vector-based base map data provided by and approved for use in FEMA Flood Insurance Study by Arkansas Geographic Information Office (AGIO). Data was not in Appendix L format, but the shapes and attributes were used in preparation of the Digital Flood Ins |



| Reg. | State | Case Number | Task Name | Leverage Contributing Partner | Leverage Funded Year | Leverage Dollar Value | Leverage Task Comments |
|------|-------|-------------|--------------------------|--|----------------------|-----------------------|--|
| 6 | LA | 10-06-0137S | Acquire Base Map | | 2009 | \$26,016 | S_POL_AR and S_PLSS_AR |
| 6 | LA | 10-06-0136S | Develop Topographic Data | LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT | 2009 | \$237,800 | |
| 6 | TX | 10-06-1139S | Develop Topographic Data | TEXAS COMMISSION OF ENVIRONMENTAL QUALITY (TCEQ) | 2009 | \$57,000 | The Texas Natural Resources Information System (part of the Texas Water Development Board) provided lidar data with Independent QA/QC. According to Blue Book values for Rolling to Hilly Terrain, this data is valued at \$230/square mile. |
| 6 | TX | 10-06-1139S | Acquire Base Map | TEXAS COMMISSION OF ENVIRONMENTAL QUALITY (TCEQ) | 2009 | \$89,700 | The North Central Texas Council of Governments (NCTCOG) has provided 2009 orthophotographs for the full extent of Collin County, Texas. According to Blue Book values for Base Map Data 1 foot Orthophotos, the data is valued at \$100/square mile. |
| 6 | TX | 10-06-1117S | Develop Topographic Data | TEXAS COMMISSION OF ENVIRONMENTAL QUALITY (TCEQ) | 2009 | \$19,600 | The Texas Natural Resources Information System (part of the Texas Water Development Board) provided lidar data with Independent QA/QC. According to Blue Book values for Rolling to Hilly Terrain, this data is valued at \$230/square mile. |
| 6 | TX | 10-06-0147S | Develop Topographic Data | TEXAS COMMISSION OF ENVIRONMENTAL QUALITY (TCEQ) | 2009 | \$211,600 | The LIDAR data came from Texas Water Development Board but TWDB does not appear in the drop down. Perhaps TWDB is under TCEQ. |
| 6 | TX | 10-06-1117S | Acquire Base Map | TEXAS COMMISSION OF ENVIRONMENTAL QUALITY (TCEQ) | 2009 | \$88,500 | The North Central Texas Council of Governments (NCTCOG) has provided 2009 orthophotographs for the full extent of Collin County, Texas. According to Blue Book values for Base Map Data 1 foot Orthophotos, the data is valued at \$100/square mile. |
| 7 | KS | 10-07-0015S | Develop Topographic Data | Kansas Division of Water Resources | 2009 | \$287,147 | LiDAR provided for more accuracy. |
| 8 | ND | 10-08-0041S | Develop Topographic Data | | 2009 | \$186,000 | Not a contracted task, but have uploaded metadata for this task in order to get to the QC task. |
| 8 | ND | 10-08-0041S | Acquire Base Map | | 2009 | \$176,500 | |
| 8 | SD | 10-08-0039S | Develop Topographic Data | | 2009 | \$850 | |
| 8 | SD | 10-08-0039S | Acquire Base Map | | 2009 | \$8,228 | |
| 8 | UT | 10-08-0155S | Acquire Base Map | | 2009 | \$3,874 | |
| 9 | CA | 09-09-3068S | Develop Topographic Data | California Department of Water Resources | 2009 | \$11,000 | Contributed by Mono County, CA for the Tri-Valley Floodplain Study |



Risk Map Ortho and Elevation Data Sets

Risk MAP Ortho Data Sets

| Reg# | State | Case Number | Project Name | FEMA Regional Engineer | Task FY | Actual Start | Actual End | Leverage Dollar Value | NDOP Tracker Title | County+State | Status | Image Type | GSD |
|------|-------|-------------|---|------------------------|---------|--------------|------------|-----------------------|--|--------------|----------|--|-----------|
| 2 | NJ | 10-02-0673S | Somerset County, NJ - Millstone River PMR - FY09 | | 2009 | 10/1/09 | 5/11/10 | \$2,962 | New Jersey 2007 - 2008 High Resolution Orthophotography | New Jersey | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 2 | NJ | 10-02-0581S | Cumberland County, NJ - Coastal and Riverine CW w/ Post Prelim - FY09 | | 2009 | 10/1/09 | 1/29/10 | \$48,930 | New Jersey 2007 - 2008 High Resolution Orthophotography, MrSID 5K Tiles (2009 revision) fo | New Jersey | Complete | Source/RGB Natural Color+Product/RGB Natural Color | .3 meters |
| 2 | NJ | 10-02-0591S | Salem County, NJ - Coastal CW w/ Post Prelim - FY09 | | 2009 | 10/1/09 | 1/29/10 | \$33,788 | New Jersey 2007 - 2008 High Resolution Orthophotography, MrSID 5K Tiles (2009 revision) fo | New Jersey | Complete | Source/RGB Natural Color+Product/RGB Natural Color | .3 meters |
| 2 | NJ | 10-02-0672S | Passaic County, NJ - Passaic River PMR - FY09 | | 2009 | 10/1/09 | 3/4/10 | \$18,529 | New Jersey 2007 - 2008 High Resolution Orthophotography, MrSID 5K Tiles (2009 revision) fo | New Jersey | Complete | Source/RGB Natural Color+Product/RGB Natural Color | .3 meters |
| 2 | NJ | 10-02-0568S | Atlantic County, NJ - Coastal and Riverine CW - FY09 | | 2009 | 10/1/09 | 1/29/10 | \$56,107 | New Jersey 2007 - 2008 High Resolution Orthophotography | New Jersey | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 2 | NJ | 10-02-0669S | Middlesex County, NJ - Coastal PMR - FY09 | | 2009 | 10/1/09 | 3/26/10 | \$7,235 | New Jersey 2007 - 2008 High Resolution Orthophotography | New Jersey | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 2 | NJ | 10-02-0578S | Cape May County, NJ - Coastal and Riverine CW - FY09 | | 2009 | 10/1/09 | 1/15/10 | \$25,519 | New Jersey 2007 - 2008 High Resolution Orthophotography, MrSID 5K Tiles (2009 revision) fo | New Jersey | Complete | Source/RGB Natural Color+Product/RGB Natural Color | .3 meters |
| 2 | NJ | 10-02-0671S | Ocean County, NJ - Coastal and Riverine PMR - FY09 | | 2009 | 10/29/09 | 4/5/10 | \$47,158 | New Jersey 2007 - 2008 High Resolution Orthophotography | New Jersey | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 2 | NJ | 10-02-0675S | Union County, NJ - Coastal and Riverine PMR - FY09 | | 2009 | 11/1/09 | 4/5/10 | \$2,927 | New Jersey 2007 - 2008 High Resolution Orthophotography | New Jersey | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 2 | NJ | 10-02-0680S | Bergen County, NJ - Ind. Riverine QA/QC and Passaic River PMR - FY09 | | 2009 | 10/1/09 | 5/19/10 | \$11,750 | New Jersey 2007 - 2008 High Resolution Orthophotography | New Jersey | Complete | Source/RGB Natural Color+Product/RGB Natural Color | .3 meters |
| 2 | NJ | 10-02-0954S | Essex County, NJ - Coastal and Passaic River PMR - FY09 | | 2009 | 10/1/09 | 4/1/10 | \$5,627 | New Jersey 2007 - 2008 High Resolution Orthophotography | New Jersey | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 2 | NJ | 10-02-0956S | Morris County, NJ - Ind. Stream and Passaic River PMR CW Post Prelim -FYC | | 2009 | 10/1/09 | 5/19/10 | \$10,492 | New Jersey 2007 - 2008 High Resolution Orthophotography | New Jersey | Complete | Source/RGB Natural Color+Product/RGB Natural Color | .3 meters |



| Reg# | State | Case Number | Project Name | FEMA Regional Engineer | Task FY | Actual Start | Actual End | Leverage Dollar Value | NDOP Tracker Title | County+State | Status | Image Type | GSD |
|------|-------|-------------|--|------------------------|---------|--------------|------------|-----------------------|---|-----------------|----------|--|-------------------|
| 2 | NJ | 10-02-0957S | Hudson County, NJ - Coastal and Passaic River PMR - FY09 | | 2009 | 10/1/09 | 4/5/10 | \$4,669 | New Jersey 2007 - 2008 High Resolution Orthophotography | New Jersey | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 2 | NJ | 10-02-1225S | Hunterdon County, NJ - PMR, CW Post Prelim - FY09 | | 2009 | 2/1/10 | 5/14/10 | | New Jersey 2007 - 2008 High Resolution Orthophotography | New Jersey | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 2 | NJ | 10-02-1258S | Mercer County, NJ - PMR CW Post Prelim - FY09 | | 2009 | 3/1/10 | 5/14/10 | | New Jersey 2007 - 2008 High Resolution Orthophotography | New Jersey | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 2 | NJ | 10-02-0670S | Monmouth County, NJ - Coastal PMR - FY09 | | 2009 | 12/3/09 | 3/26/10 | \$13,230 | New Jersey 2007 - 2008 High Resolution Orthophotography | New Jersey | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 3 | PA | 10-03-0271S | Allegheny County, PA | Robert Pierson | 2009 | 11/2/09 | 3/26/10 | \$74,500 | PA MAP Program High Resolution Orthoimagery | Pennsylvania | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 3 | PA | 06-03-A652S | Armstrong County, PA | Nikki Roberts | 2009 | 8/7/06 | 8/17/09 | | PA MAP Program High Resolution Orthoimagery | Pennsylvania | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 3 | PA | 10-03-0359S | Northampton County, PA | Robert Pierson | 2009 | 6/1/10 | 7/13/10 | | PA MAP Program High Resolution Orthoimagery | Pennsylvania | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 3 | PA | 07-03-0438S | Wyoming County, PA | Tiffany Keane | 2009 | 10/15/09 | 11/30/09 | | PA MAP Program High Resolution Orthoimagery | Pennsylvania | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 3 | PA | 07-03-0436S | Susquehanna County, PA | Tiffany Keane | 2009 | 10/15/09 | 11/30/09 | | PA MAP Program High Resolution Orthoimagery | Pennsylvania | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 3 | PA | 07-03-0435S | Sullivan County, PA | Tiffany Keane | 2009 | 11/1/09 | 12/30/09 | | PA MAP Program High Resolution Orthoimagery | Pennsylvania | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 3 | PA | 07-03-0427S | Bradford County, PA | Tiffany Keane | 2009 | 11/1/09 | 3/4/10 | | PA MAP Program High Resolution Orthoimagery | Pennsylvania | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 3 | PA | 06-03-A623S | Butler County, PA | Nikki Roberts | 2009 | 8/7/06 | 8/17/09 | | PA MAP Program High Resolution Orthoimagery | Pennsylvania | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 3 | PA | 06-03-A631S | Greene County, PA | Nikki Roberts | 2009 | 8/7/06 | 11/30/09 | | PA MAP Program High Resolution Orthoimagery | Pennsylvania | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 4 | AL | 09-04-7729S | Montgomery County AL FY09 | Laura Algeo | 2009 | 6/16/09 | | | Montgomery County, AL | Alabama+Montgo | Complete | Source/To be determined+Produ | .3 meters |
| 4 | AL | 09-04-8023S | Mobile County AL FY09 | Laura Algeo | 2009 | 10/3/09 | | | Mobile County, AL | Alabama+Mobile | Complete | Source/To be determined+Produ | .3 meters |
| 4 | FL | 10-04-3157S | Volusia CO, FL (FY2009) | Mohammad Waliullah | 2009 | 2/1/10 | 8/30/10 | \$14,320 | Volusia County, Florida | Florida+Volusia | Proposed | Source/To be determined+Product/To be | Multiresolution 1 |
| 4 | FL | 10-04-3157S | Volusia CO, FL (FY2009) | Mohammad Waliullah | 2009 | 2/1/10 | 8/30/10 | \$14,320 | Volusia County, Florida | Florida+Volusia | Proposed | Source/To be determined+Product/To be | Multiresolution 1 |
| 4 | FL | 09-04-8602S | Manatee County FL FY09 | Mohammad Waliullah | 2009 | 3/1/10 | 5/21/10 | \$76,200 | Manatee County FL FY09 | Florida+Manatee | Proposed | Source/To be determined+Product/To be | To Be Determine |



| Reg# | State | Case Number | Project Name | FEMA Regional Engineer | Task FY | Actual Start | Actual End | Leverage Dollar Value | NDOP Tracker Title | County+State | Status | Image Type | GSD |
|------|-------|-------------|----------------------------------|------------------------|---------|--------------|------------|-----------------------|--|--------------------|----------|--|-----------------|
| 4 | TN | 10-04-3113S | Davidson CO, TN (FY2009) | Mohammad Waliullah | 2009 | 2/1/10 | 8/15/10 | \$5,260 | Davidson County FIRM | Unknown | In work | Source/RGB Natural Color+Product/RGB Natural | 1 meter |
| 4 | TN | 10-04-3113S | Davidson CO, TN (FY2009) | Mohammad Waliullah | 2009 | 2/1/10 | 8/15/10 | \$5,260 | Davidson County FIRM | Unknown | In work | Source/RGB Natural Color+Product/RGB Natural | 1 meter |
| 4 | TN | 09-04-8601S | Hamilton County TN FY09 | Mohammad Waliullah | 2009 | 5/26/10 | 6/23/10 | \$68,100 | Floodplain Mapping for Hamilton County, TN | Tennessee+Hamilton | Planned | Source/To be determined+Product/To be | To Be Determine |
| 4 | TN | 09-04-8601S | Hamilton County TN FY09 | Mohammad Waliullah | 2009 | 5/26/10 | 6/23/10 | \$68,100 | Floodplain Mapping for Hamilton County, TN | Tennessee+Hamilton | Planned | Source/To be determined+Product/To be | To Be Determine |
| 4 | TN | 09-04-8601S | Hamilton County TN FY09 | Mohammad Waliullah | 2009 | 5/26/10 | 6/23/10 | \$68,100 | Floodplain Mapping for Hamilton County, TN | Tennessee+Hamilton | Planned | Source/To be determined+Product/To be | To Be Determine |
| 4 | TN | 10-04-3117S | Sumner CO, TN (FY2009) | Mohammad Waliullah | 2009 | 1/18/10 | 8/15/10 | \$5,430 | Sumner County, TN FIRM | Unknown | Proposed | Source/Panchromatic+Product/Panchromatic | 1 meter |
| 4 | TN | 10-04-3155S | Knox CO, TN (FY2009) | Mohammad Waliullah | 2009 | 2/1/10 | 6/9/10 | \$5,080 | Knox County RiskMAP Study | Tennessee+Knox | In work | Source/RGB Natural Color+Product/RGB Natural | .2 meters |
| 4 | TN | 10-04-3156S | Shelby CO, TN (FY2009) | Mohammad Waliullah | 2009 | 2/1/10 | 4/16/10 | \$7,840 | Shelby County RiskMAP Study | Tennessee+Shelby | In work | Source/RGB Natural Color+Product/RGB Natural | .2 meters |
| 4 | TN | 10-04-3156S | Shelby CO, TN (FY2009) | Mohammad Waliullah | 2009 | 2/1/10 | 4/16/10 | \$7,840 | Shelby County RiskMAP Study | Tennessee+Shelby | In work | Source/RGB Natural Color+Product/RGB Natural | .2 meters |
| 4 | TN | 10-04-3156S | Shelby CO, TN (FY2009) | Mohammad Waliullah | 2009 | 2/1/10 | 4/16/10 | \$7,840 | Shelby County RiskMAP Study | Tennessee+Shelby | In work | Source/RGB Natural Color+Product/RGB Natural | .2 meters |
| 4 | TN | 10-04-3117S | Sumner CO, TN (FY2009) | Mohammad Waliullah | 2009 | 1/18/10 | 8/15/10 | \$5,430 | Sumner County, TN FIRM | Unknown | Proposed | Source/Panchromatic+Product/Panchromatic | 1 meter |
| 4 | TN | 10-04-3156S | Shelby CO, TN (FY2009) | Mohammad Waliullah | 2009 | 2/1/10 | 4/16/10 | \$7,840 | Shelby County RiskMAP Study | Tennessee+Shelby | In work | Source/RGB Natural Color+Product/RGB Natural | .2 meters |
| 4 | TN | 09-04-8601S | Hamilton County TN FY09 | Mohammad Waliullah | 2009 | 5/26/10 | 6/23/10 | \$68,100 | Floodplain Mapping for Hamilton County, TN | Tennessee+Hamilton | Planned | Source/To be determined+Product/To be | To Be Determine |
| 5 | MI | 10-05-2097S | RM-FY09-MI-Arenac County-O-CW | Mike Hanke | 2009 | 1/4/10 | 3/2/10 | | Arenac, MI | Michigan+Arenac | Complete | Source/Panchromatic+Product/Panchromatic | To Be Determine |
| 5 | MI | 10-05-2104S | RM-FY09-MI-Menominee County-O-CW | Mike Hanke | 2009 | 2/3/10 | 2/24/10 | | Menominee, MI | Michigan+Menominee | Complete | Source/Panchromatic+Product/Panchromatic | To Be Determine |
| 5 | MI | 08-05-3645S | RM-FY09-MI-Gladwin County-O-CW | Mike Hanke | 2009 | 1/4/10 | 2/16/10 | | Gladwin, MI | Michigan+Gladwin | Complete | Source/Panchromatic+Product/Panchromatic | To Be Determine |
| 5 | MI | 08-05-3687S | RM-FY09-MI-Dickinson County-O-CW | Mike Hanke | 2009 | 1/1/10 | 2/24/10 | | Dickinson, MI | Michigan+Dickinson | Complete | Source/RGB Natural Color+Product/RGB Natural | To Be Determine |
| 5 | MN | 10-05-2108S | RM-FY09-MN-Kittson County-O-CW | Suzanne Vermeer | 2009 | 1/4/10 | 1/6/10 | | Kittson County, MN DFIRM Mapping | Unknown | In work | Source/To be determined+Product/To be | To Be Determine |



| Reg# | State | Case Number | Project Name | FEMA Regional Engineer | Task FY | Actual Start | Actual End | Leverage Dollar Value | NDOP Tracker Title | County+State | Status | Image Type | GSD |
|------|-------|-------------|---|------------------------|---------|--------------|------------|-----------------------|--|---------------------|----------|--|-----------------|
| 5 | MN | 07-05-0460S | Nobles County, MN (Countywide DFIRM) | Suzanne Vermeer | 2009 | 12/1/07 | 6/30/08 | | Nobles, MN | Minnesota+Nobles | Complete | Source/RGB Natural Color+Product/RGB Natural | To Be Determine |
| 5 | MN | 10-05-2109S | RM-FY09-MN-Wilkin County-O-CW | Suzanne Vermeer | 2009 | 2/22/10 | 3/29/10 | | Wilkin, MN | Minnesota+Wilkin | Complete | Source/Panchromatic+Product/Panchromatic | To Be Determine |
| 5 | OH | 10-05-2392S | RM-FY09-OH-Clermont County-O-PMR | Mike Hanke | 2009 | 1/25/10 | 2/11/10 | | 2009 Clermont County Aerial Photo | Ohio+Clermont | Complete | Source/RGB Natural Color+Product/RGB Natural | .2 meters |
| 5 | WI | 10-05-0308S | RM-FY09-WI-La Crosse County-O-CW | Ken Hinterlong | 2009 | 11/1/09 | 3/22/10 | | La Crosse, WI | Wisconsin+La Crosse | Complete | Source/Panchromatic+Product/Panchromatic | To Be Determine |
| 5 | WI | 10-05-2448S | RM-FY09-WI-Forest County-O-CW | Ken Hinterlong | 2009 | 1/15/10 | 4/7/10 | | Forest, WI | Wisconsin+Forest | Complete | Source/RGB Natural Color+Product/RGB Natural | To Be Determine |
| 5 | WI | 10-05-0716S | RM-FY09-WI-Rock River Main Stem (Rock, Jefferson, & Dodge Counties)-O-W | Lee Traeger | 2009 | 9/21/09 | 4/7/10 | | Dodge County, WI (Rock River RiskMap DFIRM Update) | Wisconsin+Dodge | Complete | Source/Panchromatic+Product/Panchromatic | .5 meters |
| 9 | CA | 10-09-0010S | Santa Cruz, CA - CW (NAVD) | Eric Simmons | 2009 | 3/15/10 | 4/30/10 | | Santa Cruz County imagery data | California+Santa Cr | In work | Source/Panchromatic+Product/R | .2 meters |
| 9 | CA | 10-09-0017S | Contra Costa CA (PAL) | Eric Simmons | 2009 | 2/15/10 | 4/2/10 | | 2008 Contra Costs County imagery | Unknown | In work | Source/Panchromatic+Product/P | 1 meter |
| 9 | NV | 09-09-3064S | Walker River PMR (Lyon County, NV) | Eric Simmons | 2009 | 7/15/10 | 10/27/10 | | Lyon County NV PMR | Unknown | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |



Risk MAP Elevation Data Sets

| Reg # | St. | Case Number | Project Name | FEMA Regional Engineer | Task FY | Leverage Dollar Value | NDEP Title | NDEP State - County | NDEP Status | Vertical Datum | Data Format | Collection Method | Use Constraint | Horizontal Posting | Vertical Accuracy | Lead Agency |
|-------|-----|-------------|---------------------------|------------------------|---------|-----------------------|---|-------------------------|-------------|------------------|--------------------|-------------------|-----------------------|--------------------|-------------------|----------------------------|
| 1 | MA | 10-01-0661S | Nantucket , MA - DFIRM | | 2009 | | LiDAR Terrain, Nantucket County, Massachusetts | Massachusetts+Nantucket | Complete | NAVD 88 | TIN | LIDAR | No | 1.2 Meters | 0.183 | FEMA |
| 1 | NH | 10-01-0672S | Coos , NH - DFIRM | | 2009 | | Coos County, NH 10-01-0672S | Unknown | Complete | NAVD 88 | Mass Points/Break | LIDAR | To be determined | 1 | 0.36 | FEMA |
| 1 | NH | 10-01-0438S | Carroll, NH - DFIRM | Kerry Bogdan | 2009 | | Carroll County, NH, 10-01-0438S | New Hampshire | Complete | NAVD 88 | Regular Grid | LIDAR | Yes, contact the lead | TBD | null | FEMA |
| 1 | RI | 10-01-0657S | Kent , RI - LiDAR | | 2009 | | LiDAR Terrain, Kent County, Rhode Island | Rhode Island+Kent | Complete | NAVD 88 | TIN | LIDAR | No | 1.2 meters | 0.183 | FEMA |
| 1 | RI | 10-01-0656S | Providence , RI - LiDAR | | 2009 | | LiDAR Terrain, Providence County, Rhode Island | Rhode Island+Providence | In work | NAVD 88 | TIN | LIDAR | No | 1.2 meters | 0.183 | FEMA |
| 1 | RI | 10-01-0658S | Newport , RI - DFIRM | | 2009 | | LiDAR Terrain, Newport County, Rhode Island | Rhode Island+Newport | In work | NAVD 88 | TIN | LIDAR | No | 1.2 meters | 0.183 | FEMA |
| 1 | MA | 10-01-0660S | Dukes , MA - LiDAR | | 2009 | | LiDAR Terrain, Dukes County, Massachusetts | Massachusetts+Dukes | Complete | NAVD 88 | TIN | LIDAR | No | 1.2 meters | 0.183 | FEMA |
| 3 | PA | 07-03-0436S | Susquehanna County, PA | Tiffany Keane | 2009 | \$205,750 | PAMAP Program LiDAR Data of Pennsylvania | Pennsylvania | Complete | NAVD 88 | Mass Points/Variab | LIDAR | No | 3 | 0.5 | PA MAP Program |
| 3 | PA | 07-03-0438S | Wyoming County, PA | Tiffany Keane | 2009 | \$99,250 | PAMAP Program LiDAR Data of Pennsylvania | Pennsylvania | Complete | NAVD 88 | Mass Points/Variab | LIDAR | No | 3 | 0.5 | PA MAP Program |
| 3 | PA | 10-03-0271S | Allegheny County, PA | Robert Pierson | 2009 | \$149,000 | PAMAP Program LiDAR Data of Pennsylvania | Pennsylvania | Complete | NAVD 88 | Mass Points/Variab | LIDAR | No | 3 | 0.5 | PA MAP Program |
| 3 | PA | 07-03-0427S | Bradford County, PA | Tiffany Keane | 2009 | \$230,000 | PAMAP Program LiDAR Data of Pennsylvania | Pennsylvania | Complete | NAVD 88 | Mass Points/Variab | LIDAR | No | 3 | 0.5 | PA MAP Program |
| 3 | PA | 07-03-0435S | Sullivan County, PA | Tiffany Keane | 2009 | \$112,500 | PAMAP Program LiDAR Data of Pennsylvania | Pennsylvania | Complete | NAVD 88 | Mass Points/Variab | LIDAR | No | 3 | 0.5 | PA MAP Program |
| 4 | AL | 09-04-8023S | Mobile County AL FY09 | Laura Algeo | 2009 | | Mobile County, AL | Alabama+Mobile | Complete | NAVD 88 | Mass Points/Break | LIDAR | Yes, contact the lead | 1 | null | Mobile County, Alabama |
| 4 | AL | 09-04-7728S | Elmore County AL FY09 | Laura Algeo | 2009 | \$124,200 | Elmore County, Alabama | Alabama+Elmore | Complete | NAVD 88 | Contours | LIDAR | Yes, contact the lead | TBD | null | Alabama Power |
| 4 | AL | 09-04-7729S | Montgomery County AL FY09 | Laura Algeo | 2009 | | Montgomery County, AL | Alabama+Montgomery | Complete | NAVD 88 | Contours | LIDAR | Yes, contact the lead | 1 | 0.6 | Montgomery County, Alabama |
| 4 | MS | 10-04-4167S | Lauderdale CO MS (FY2009) | Laura Algeo | 2009 | | Two-foot interval contours for the City of Meridian, MS | Unknown | Complete | NAVD 88 | Contours+DEM+TIN | Photogrammetric | Yes, contact the lead | TBD | .363 | N/A |
| 4 | TN | 09-04-8601S | Hamilton County TN FY09 | Mohammad Waliullah | 2009 | | Floodplain Mapping for Hamilton County, TN | Tennessee+Hamilton | In work | To be Determined | To be Determined | To be Determined | Yes, contact the lead | TBD | null | FEMA |



| Reg # | St. | Case Number | Project Name | FEMA Regional Engineer | Task FY | Leverage Dollar Value | NDEP Title | NDEP State - County | NDEP Status | Vertical Datum | Data Format | Collection Method | Use Constraint | Horizontal Posting | Vertical Accuracy | Lead Agency |
|-------|-----|-------------|---|------------------------|---------|-----------------------|---|---------------------|-------------|------------------|--------------------|-------------------|------------------------------|--------------------|-------------------|--------------------------------------|
| 4 | AL | 09-04-8023S | Mobile County AL FY09 | Laura Algeo | 2009 | | Mobile County, AL | Unknown | In work | To be Determined | To be Determined | To be Determined | To be determined | TBD | null | FEMA |
| 4 | FL | 09-04-8602S | Manatee County FL FY09 | Mohammad Waliullah | 2009 | \$115,200 | Manatee County FL FY09 | Florida+Manatee | Proposed | To be Determined | To be Determined | To be Determined | To be determined | TBD | null | To Be Determined |
| 4 | AL | 09-04-8023S | Mobile County AL FY09 | Laura Algeo | 2009 | | Mobile County, AL | Unknown | In work | To be Determined | To be Determined | To be Determined | To be determined | TBD | null | FEMA |
| 4 | AL | 09-04-8085S | Baldwin County AL FY09 | Laura Algeo | 2009 | | Baldwin County, AL | Alabama+Baldwin | Complete | NAVD 88 | Mass Points/Break | LIDAR | Yes, contact the lead | 1 | .3 | Baldwin County Commission |
| 4 | TN | 10-04-3117S | Sumner CO, TN (FY2009) | Mohammad Waliullah | 2009 | \$108,600 | Sumner County, TN FIRM | Unknown | In work | NAVD 88 | DEM | Photogrammetric | Yes, contact the lead | TBD | 0.1 | FEMA |
| 4 | TN | 10-04-3156S | Shelby CO, TN (FY2009) | Mohammad Waliullah | 2009 | \$31,360 | Shelby County RiskMAP Study | Tennessee+Shelby | In work | NAVD 88 | DEM | Photogrammetric | To be determined | TBD | 3.05 | FEMA |
| 4 | TN | 10-04-3117S | Sumner CO, TN (FY2009) | Mohammad Waliullah | 2009 | \$108,600 | Sumner County, TN FIRM | Unknown | In work | NAVD 88 | DEM | Photogrammetric | Yes, contact the lead | TBD | 0.1 | FEMA |
| 4 | TN | 10-04-3113S | Davidson CO, TN (FY2009) | Mohammad Waliullah | 2009 | \$105,200 | Davidson County FIRM | Tennessee+Davidson | In work | NAVD 88 | Contours+DEM | LIDAR | Yes, contact the lead | TBD | 0.1 | FEMA |
| 4 | TN | 10-04-3113S | Davidson CO, TN (FY2009) | Mohammad Waliullah | 2009 | \$105,200 | Davidson County FIRM | Tennessee+Davidson | In work | NAVD 88 | Contours+DEM | LIDAR | Yes, contact the lead | TBD | 0.1 | FEMA |
| 4 | MS | 10-04-4165S | George Co MS (FY2009) | Laura Algeo | 2009 | | Topographic Data Development (LiDAR acquisition and processing) for Camp Shelby, MS | Unknown | Complete | NAVD 88 | DEM+TIN | LIDAR | Yes, contact the lead agency | 3 | .363 | N/A |
| 4 | TN | 10-04-3156S | Shelby CO, TN (FY2009) | Mohammad Waliullah | 2009 | \$31,360 | Shelby County | Tennessee+Shelby | Complete | NAVD 88 | Mass Points/Break | Photogrammetric | Yes, contact the lead | 1 | 3.05 | FEMA |
| 4 | TN | 10-04-3156S | Shelby CO, TN (FY2009) | Mohammad Waliullah | 2009 | \$31,360 | Shelby County | Tennessee+Shelby | Complete | NAVD 88 | Mass Points/Break | Photogrammetric | Yes, contact the lead | 1 | 3.05 | FEMA |
| 4 | FL | 10-04-3157S | Volusia CO, FL (FY2009) | Mohammad Waliullah | 2009 | \$330,900 | Volusia County LiDAR | Florida+Volusia | Complete | NAVD 88 | Mass Points/Variab | LIDAR | Yes, contact the lead | 1 | 1 | FEMA |
| 4 | TN | 10-04-3155S | Knox CO, TN (FY2009) | Mohammad Waliullah | 2009 | \$127,000 | Knox County RiskMAP Study | Tennessee+Knox | In work | NAVD 88 | DEM | LIDAR | Yes, contact the lead | 1 | .34 | FEMA |
| 5 | WI | 10-05-0307S | RM-FY09-WI-Juneau County-O-CW | Ken Hinterlong | 2009 | | Juneau County (WI) 2010 LiDAR | Wisconsin+Juneau | Complete | NAVD 88 | Mass Points/Break | LIDAR | Yes, contact the lead | TBD | .173 | --Please Select-- |
| 5 | WI | 10-05-0716S | RM-FY09-WI-Rock River Main Stem (Rock, Jefferson, & Dodge Counties)-O-W | Lee Traeger | 2009 | | Jefferson County, WI | Wisconsin+Jefferson | Complete | NAVD 88 | Contours | To be Determined | Yes, contact the lead agency | TBD | 3.109 | Jefferson County, WI |
| 5 | WI | 10-05-0716S | RM-FY09-WI-Rock River Main Stem (Rock, Jefferson, & Dodge Counties)-O-W | Lee Traeger | 2009 | | Rock River RiskMap, Dodge County Portion DFIRM | Wisconsin+Dodge | Complete | NAVD 88 | DEM | LIDAR | Yes, contact the lead agency | | .061 | Dodge County Land Information Office |



| Reg # | St. | Case Number | Project Name | FEMA Regional Engineer | Task FY | Leverage Dollar Value | NDEP Title | NDEP State - County | NDEP Status | Vertical Datum | Data Format | Collection Method | Use Constrains | Horizontal Posting | Vertical Accuracy | Lead Agency |
|-------|-----|-------------|----------------------------------|------------------------|---------|-----------------------|--|---------------------|-------------|----------------|-------------------------|-------------------|------------------------------|--------------------|-------------------|---|
| 5 | MI | 08-05-3687S | RM-FY09-MI-Dickinson County-O-CW | Mike Hanke | 2009 | | Dickinson County, MI | Michigan+Dickinson | In work | NAVD 88 | Regular Grid | IFSAR | Yes, contact the lead | TBD | null | FEMA |
| 5 | MI | 10-05-2095S | RM-FY09-MI-Alcona County-O-CW | Mike Hanke | 2009 | | Alcona, MI | Michigan+Alcona | In work | NAVD 88 | Regular Grid | IFSAR | Yes, contact the lead | 5 | 1 | FEMA |
| 5 | MI | 10-05-2099S | RM-FY09-MI-Crawford County-O-CW | Mike Hanke | 2009 | | Crawford County, MI (Countywide DFIRM) | Michigan+Crawford | Complete | NAVD 88 | DEM | IFSAR | Yes, contact the lead | TBD | 1 | FEMA |
| 5 | MN | 10-05-2109S | RM-FY09-MN-Wilkin County-O-CW | Suzanne Vermeer | 2009 | | Wilkin County, MN (Countywide DFIRM) | Minnesota+Wilkin | Proposed | NAVD 88 | Mass Points/Break Lines | LIDAR | Yes, contact the lead agency | TBD | .353 | Minnesota Department of Natural Resources (DNR) |
| 5 | MI | 10-05-2097S | RM-FY09-MI-Arenac County-O-CW | Mike Hanke | 2009 | | ARENAC COUNTY, MICHIGAN, USA | Michigan+Arenac | Complete | NAVD 88 | DEM | IFSAR | Yes, contact the lead | TBD | .7 | FEMA |
| 5 | OH | 10-05-2392S | RM-FY09-OH-Clermont County-O-PMR | Mike Hanke | 2009 | | CLERMONT COUNTY, OHIO USA, Physical Map Revision | Ohio+Clermont | Complete | NAVD 88 | Contours | LIDAR | Yes, contact the lead | TBD | .589 | Clermont County GIS Department |
| 5 | WI | 10-05-0308S | RM-FY09-WI-La Crosse County-O-CW | Ken Hinterlong | 2009 | | La Crosse County, WI LIDAR Survey | Wisconsin+La Crosse | Complete | NAVD 88 | Mass Points/Break | LIDAR | Yes, contact the lead | TBD | .107 | La Crosse County, WI LIDAR Survey |
| 5 | MI | 08-05-3645S | RM-FY09-MI-Gladwin County-O-CW | Mike Hanke | 2009 | | Gladwin, MI | Michigan+Gladwin | Complete | NAVD 88 | Regular Grid | IFSAR | Yes, contact the lead | 5 | 1 | FEMA |
| 5 | MI | 10-05-2104S | RM-FY09-MI-Menominee County-O-CW | Mike Hanke | 2009 | | Menominee, MI | Michigan+Menominee | Complete | NAVD 88 | Regular Grid | IFSAR | Yes, contact the lead agency | 5 | 1 | FEMA |
| 5 | MN | 10-05-2108S | RM-FY09-MN-Kittson County-O-CW | Suzanne Vermeer | 2009 | | Kittson County, MN (Countywide DFIRM) | Minnesota+Kittson | Complete | NAVD 88 | DEM | LIDAR | No | TBD | .314 | International Water Institute's |
| 6 | TX | 10-06-0147S | Zapata Co, TX (FY09) | Larry Voice | 2009 | \$211,600 | Texas Water Development Board LiDAR | Texas+Zapata | Complete | NAVD 88 | Mass Points/Break | LIDAR | No | 1 | 0.228 | Texas Water Development Board |
| 6 | LA | 10-06-0136S | St. Helena Parish, LA (FY09) | Shona Gibson | 2009 | \$237,800 | Louisiana Statewide LiDAR | Louisiana | Complete | NAVD 88 | Mass Points/Break | LIDAR | No | 1 | 0.1279 | FEMA/Louisiana |
| 7 | KS | 10-07-0012S | MIAMI COUNTY, KS. RISK MAP 09 | Bob Franke | 2009 | | NA | Kansas+Miami | In work | NAVD 88 | Contours | LIDAR | Yes, contact the lead | TBD | null | FEMA |
| 7 | NE | 09-07-1965S | CITY OF LINCOLN, NE RISK MAP 09 | Bob Franke | 2009 | | DCS Terrain Submission for Little Salt Creek Watershed Study for the City of Lincoln, NE | Nebraska+Lancaster | In work | NAVD 88 | DEM | LIDAR | Yes, contact the lead agency | 1 | null | FEMA |
| 7 | KS | 10-07-0009S | LEAVENWORTH COUNTY. RISK MAP 09 | Bob Franke | 2009 | | NA | Kansas+Leavenworth | Proposed | NAVD 88 | To be Determined | LIDAR | Yes, contact the lead | TBD | null | FEMA |
| 7 | MO | 09-07-2056S | SALINE COUNTY, MO. RISK MAP 09 | Bob Franke | 2009 | | Taney Missouri DEM | Missouri+Taney | Complete | NAVD 88 | DEM | LIDAR | Yes, contact the lead | TBD | null | FEMA |
| 7 | MO | 09-07-2044S | CALLAWAY COUNTY, MO. RISK MAP 09 | Bob Franke | 2009 | | Callaway County LiDAR | Missouri+Callaway | In work | NAVD 88 | To be Determined | LIDAR | Yes, contact the lead | TBD | null | FEMA |



| Reg # | St. | Case Number | Project Name | FEMA Regional Engineer | Task FY | Leverage Dollar Value | NDEP Title | NDEP State - County | NDEP Status | Vertical Datum | Data Format | Collection Method | Use Constrains | Horizontal Posting | Vertical Accuracy | Lead Agency |
|-------|-----|-------------|---|------------------------|---------|-----------------------|---|----------------------|-------------|----------------|-------------------------|-------------------|------------------------------|--------------------|-------------------|---------------------------------------|
| 7 | KS | 10-07-0013S | MONTGOMERY COUNTY, KS. RISK MAP 09 | Bob Franke | 2009 | | NA | Kansas+Montgomery | In work | NAVD 88 | Contours | LIDAR | Yes, contact the lead agency | TBD | null | FEMA |
| 7 | KS | 10-07-0015S | SEDGWICK COUNTY, KS. RISK MAP 09 | Bob Franke | 2009 | \$287,147 | Wichita/Sedgwick LiDAR project 02015796 | Kansas+Sedgwick | Complete | NAVD 88 | Contours | LIDAR | Yes, contact the lead | 2 FT | null | FEMA |
| 7 | MO | 09-07-2051S | JASPER COUNTY, MO. RISK MAP 09 | Bob Franke | 2009 | | Jasper County LiDAR | Missouri+Jasper | Complete | NAVD 88 | To be Determined | To be Determined | Yes, contact the lead | TBD | null | FEMA |
| 7 | MO | 09-07-2047S | CASS COUNTY, MO. RISK MAP 09 | Bob Franke | 2009 | | Cass County, MO LiDAR | Missouri+Cass | Complete | NAVD 88 | Contours | LIDAR | Yes, contact the lead | 2 Ft | 0.69 | FEMA |
| 7 | KS | 10-07-0570S | BUTLER-EL DORADO, KS. RISK MAP 09 (LEVEE PMR) | Rick Nusz | 2009 | | TERRAIN, City of El Dorado, Butler County, KS | Unknown | In work | NAVD 88 | DEM | Photogrammetric | No | 1 | 1 | FEMA |
| 7 | KS | 10-07-0569S | BUTLER-AGUSTA, KS. RISK MAP 09 (LEVEE PMR) | Rick Nusz | 2009 | | TERRAIN, City of Augusta, Butler County, KS | Unknown | In work | NAVD 88 | Mass Points/Break Lines | Photogrammetric | No | 4 ft | 1.3 | FEMA |
| 7 | KS | 10-07-0016S | RENO COUNTY, KS. RISK MAP 09 | Bob Franke | 2009 | | DCS Terrain Submission for Reno County, KS | Unknown | In work | NAVD 88 | DEM | LIDAR | Yes, contact the lead | 1 | .242 | FEMA |
| 7 | KS | 10-07-0016S | RENO COUNTY, KS. RISK MAP 09 | Bob Franke | 2009 | | DCS Terrain Submission for Reno County, KS | Kansas+Reno | In work | NAVD 88 | DEM | LIDAR | Yes, contact the lead | 1 | 1 | FEMA |
| 7 | KS | 10-07-0570S | BUTLER-EL DORADO, KS. RISK MAP 09 (LEVEE PMR) | Rick Nusz | 2009 | | TERRAIN, City of El Dorado, Butler County, KS | Unknown | In work | NAVD 88 | DEM | LIDAR | Yes, contact the lead agency | 1 | 1 | FEMA |
| 7 | NE | 10-07-0557S | DOUGLAS/WATERLOO, NE. RISK MAP 09 (LEVEE PMR) | Rick Nusz | 2009 | | DCS Terrain Submission for The Village of Waterloo, Douglas County, NE (Levee PMR) | Unknown | In work | NAVD 88 | Contours | LIDAR | Yes, contact the lead agency | 1 | 1 | FEMA |
| 7 | NE | 10-07-0558S | RED WILLOW, NE RISK MAP 09 (LEVEE PMR) | Rick Nusz | 2009 | | TERRAIN, RED WILLOW COUNTY, Nebraska USA | Unknown | In work | NAVD 88 | DEM | LIDAR | Yes, contact the lead | 1 | 0.5892 | FEMA |
| 7 | MO | 09-07-2057S | TANEY COUNTY, MO. RISK MAO 09 | Bob Franke | 2009 | | TERRAIN, TANEY COUNTY, Missouri USA | Unknown | Complete | NAVD 88 | DEM | LIDAR | Yes, contact the lead | 1 | 0.60136 | FEMA |
| 8 | SD | 10-08-0040S | Sanborn County, SD (Woonsocket PMR) 09 | | 2009 | | Sanborn Co, SD LiDAR Acquisition | South Dakota+Sanborn | Complete | NAVD 88 | Regular Grid+Mass | LIDAR | No | 1 | 0.182 | FEMA |
| 8 | SD | 10-08-0039S | Minnehaha County, SD (Sioux Falls PAL PMR) 09 | | 2009 | \$850 | Minnehaha Sioux Falls Physical Map Revision | Unknown | Complete | NAVD 88 | Contours | LIDAR | No | | 0.185 | FEMA |
| 8 | ND | 10-08-0041S | Cass County, ND (Sheyenne/Maple PCW) 09 | | 2009 | \$186,000 | Cass Co, ND FEMA remapping project | North Dakota+Cass | Complete | NAVD 88 | Mass Points/Break Lines | LIDAR | Yes, contact the lead agency | 1 | null | International Water Institute at NDSU |
| 8 | ND | 09-08-1008S | Morton County, ND PMR FY09 | | 2009 | | Morton County, ND PMR | Unknown | In work | NAVD 88 | Mass Points/Break | Photogrammetric | No | 1 | 0.008467 | FEMA |
| 8 | ND | 09-08-1007S | Pembina County, ND PMR FY09 | | 2009 | | Pembina County, ND PMR | Unknown | In work | NAVD 88 | Contours | LIDAR | No | 1 | 0.15 | FEMA |



| Reg # | St. | Case Number | Project Name | FEMA Regional Engineer | Task FY | Leverage Dollar Value | NDEP Title | NDEP State - County | NDEP Status | Vertical Datum | Data Format | Collection Method | Use Constraint | Horizontal Posting | Vertical Accuracy | Lead Agency |
|-------|-----|-------------|--|------------------------|---------|-----------------------|--|----------------------|-------------|----------------|-------------------|-------------------|----------------|--------------------|-------------------|--------------------------------|
| 9 | AZ | 10-09-0012S | Mohave AZ (PAL) | Ed Curtis | 2009 | | Mohave County LiDAR data | Arizona+Mohave | In work | NAVD 88 | Contours | LIDAR | No | TBD | 0.06096 | Mohave County |
| 9 | CA | 10-09-0024S | Ventura CA (PAL) | Ed Curtis | 2009 | | Ventura County LiDAR data | Unknown | In work | NAVD 88 | Mass Points/Break | LIDAR | No | TBD | 0.6096 | Ventura County LiDAR |
| 9 | CA | 10-09-0023S | San Diego, Tijuana, Nestor PAL; SD River PMR (San Diego, CA) | Ed Curtis | 2009 | | LiDAR for the City of San Diego | Unknown | In work | NAVD 88 | DEM | LIDAR | No | TBD | 0.6096 | City of San Diego |
| 9 | CA | 09-09-3057S | Calaveras PMR (Calaveras, CA) | Kathy Schaefer | 2009 | | IfSAR data for Calaveras County | California+Calaveras | Proposed | NAVD 88 | DEM | IFSAR | No | 5 | 1 | Calaveras County |
| 9 | AZ | 09-09-3051S | City of Maricopa PMR (Pinal, AZ) | Ed Curtis | 2009 | | Topo data for City of Maricopa, Pinal County, AZ | Unknown | Proposed | NAVD 88 | Mass Points/Break | Photogrammetric | No | 0.6096 | 0.125 | City of Maricopa, Pinal County |
| 9 | AZ | 10-09-0012S | Mohave AZ (PAL) | Ed Curtis | 2009 | | Mohave County LiDAR data | Arizona+Mohave | In work | NAVD 88 | Contours | LIDAR | No | TBD | 0.06096 | Mohave County |
| 9 | NV | 10-09-0035S | Truckee River PMR (Washoe, NV) | Eric Simmons | 2009 | | Washoe County PMR | | | | | | | | | |
| 9 | CA | 09-09-3068S | Crowley Lake Watershed PMR (Mono, CA) | Eric Simmons | 2009 | \$11,000 | Tri-Valley LiDAR project for Mono County, CA | Unknown | In work | NAVD 88 | Mass Points/Break | LIDAR | No | TBD | 0.36576 | Mono County Public Works |
| 9 | CA | 09-09-3049S | Lake County, CA (NAVD) | Eric Simmons | 2009 | | Lake County Contours | California+Lake | In work | NAVD 88 | Contours | Photogrammetric | No | TBD | 0.06096 | Lake County Public Works |