



**FEMA**

# Semi-Annual Geospatial Data Coordination Report

**December 19, 2011**



## 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". These sections are subdivided into datasets "produced" in Risk MAP, and datasets "gathered" in Risk MAP. Produced in Risk MAP means that FEMA provided at least part of the funding for the data production. Gathered means that a community, state, other Federal Agency or other organization provided the data.

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](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 Data Usage in FEMA Flood Studies - FEMA Funding versus Leverage

| Region   | Source      | Base Map Data |      |            |      |           |      | Topographic Data |      |              |      |              |      |
|----------|-------------|---------------|------|------------|------|-----------|------|------------------|------|--------------|------|--------------|------|
|          |             | FY 2009       |      | FY 2010    |      | FY 2011   |      | FY 2009          |      | FY 2010      |      | FY 2011      |      |
| 1        | FEMA budget | \$ 44,089     | 100% | \$ 34,031  | 5%   | \$1,252   | 100% | \$ 680,262       | 100% | \$ 878,804   | 100% |              |      |
|          | Leverage    |               |      | \$ 651,600 | 95%  |           |      |                  |      |              |      |              |      |
| 2        | FEMA budget | \$ 258,446    | 47%  | \$ 27,579  | 100% |           |      | \$ 1,133,327     | 64%  | \$ 608,940   | 100% |              |      |
|          | Leverage    | \$ 288,923    | 53%  |            |      |           |      | \$ 650,016       | 36%  |              |      |              |      |
| 3        | FEMA budget | \$ 297,489    | 80%  | \$ 208,462 | 99%  | \$175,527 | 100% | \$ 123,988       | 45%  | \$ 1,605,038 | 94%  | \$ 860,942   | 100% |
|          | Leverage    | \$ 74,500     | 20%  | \$ 2,935   | 1%   |           |      | \$ 149,000       | 55%  | \$ 93,450    | 6%   |              |      |
| 4        | FEMA budget | \$ 299,055    | 21%  | \$ 7,890   | 100% |           |      | \$ 1,473,592     | 41%  | \$ 6,334,330 | 100% | \$ 39,695    | 100% |
|          | Leverage    | \$ 1,124,450  | 79%  |            |      |           |      | \$ 2,118,330     | 59%  |              |      |              |      |
| 5        | FEMA budget | \$ 188,396    | 65%  | \$ 49,349  | 100% | \$56,600  | 100% | \$ 40,729        | 11%  | \$ 1,896,804 | 86%  | \$ 1,202,894 | 100% |
|          | Leverage    | \$ 100,500    | 35%  |            |      |           |      | \$ 340,750       | 89%  | \$ 301,912   | 14%  |              |      |
| 6        | FEMA budget | \$ 134,260    | 29%  | \$ 17,784  | 91%  | \$10,005  | 100% | \$ 742,584       | 59%  | \$ 3,138,780 | 100% | \$ 85,571    | 100% |
|          | Leverage    | \$ 333,816    | 71%  | \$ 1,716   | 9%   |           |      | \$ 526,000       | 41%  |              |      |              |      |
| 7        | FEMA budget | \$ 140,927    | 52%  | \$ 35,055  | 47%  | \$104,957 | 100% | \$ 867,853       | 59%  | \$ 1,282,326 | 94%  | \$ 1,093,030 | 100% |
|          | Leverage    | \$ 128,242    | 48%  | \$ 40,190  | 53%  |           |      | \$ 593,600       | 41%  | \$ 80,380    | 6%   |              |      |
| 8        | FEMA budget | \$ 87,064     | 22%  | \$ 77,179  | 100% | \$18,488  | 71%  | \$ 483,992       | 62%  | \$ 424,567   | 100% | \$ 57,699    | 100% |
|          | Leverage    | \$ 310,362    | 78%  |            |      | \$7,600   | 29%  | \$ 301,775       | 38%  |              |      |              |      |
| 9        | FEMA budget | \$ 220,234    | 100% | \$ 227,881 | 99%  |           |      | \$ 1,296,585     | 99%  | \$ 2,084,310 | 100% |              |      |
|          | Leverage    |               |      | \$ 3,290   | 1%   |           |      | \$ 16,800        | 1%   |              |      |              |      |
| 10       | FEMA budget | \$ 143,195    | 100% | \$ 105,514 | 100% | \$13,104  | 100% | \$ 369,258       | 100% | \$ 886,853   | 100% | \$ 865,949   | 100% |
|          | Leverage    |               |      |            |      |           |      |                  |      |              |      |              |      |
| National | FEMA budget | \$ 1,813,155  | 43%  | \$ 790,724 | 53%  | \$379,933 | 98%  | \$ 7,212,170     | 61%  | \$19,140,752 | 98%  | \$ 4,205,780 | 100% |
|          | Leverage    | \$ 2,360,793  | 57%  | \$ 699,731 | 47%  | \$7,600   | 2%   | \$ 4,696,271     | 39%  | \$ 475,742   | 2%   | \$ -         | 0%   |

\* 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.

**FY10 is the last full reporting year. Budget and leverage data for FY11 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 | Leverage Dollar Value | Leverage Task Comments |
|------|-------|-------------|------------------|--|-----------------|-----------------------|------------------------|
| 1    | CT    | 10-01-0665S | Acquire Base Map | Connecticut Department of Environmental Protection (CT DEP)                      | 2010            | \$86,200              |                        |
| 1    | CT    | 10-01-0664S | Acquire Base Map | Connecticut Department of Environmental Protection (CT DEP)                      | 2010            | \$43,900              |                        |
| 1    | CT    | 10-01-0663S | Acquire Base Map | Connecticut Department of Environmental Protection (CT DEP)                      | 2010            | \$77,200              |                        |
| 1    | CT    | 10-01-0662S | Acquire Base Map | Connecticut Department of Environmental Protection (CT DEP)                      | 2010            | \$83,700              |                        |
| 1    | MA    | 10-01-0661S | Acquire Base Map | Massachusetts Office of Geographic Information (MASS GIS)                        | 2010            | \$10,500              |                        |
| 1    | NH    | 10-01-0672S | Acquire Base Map | New Hampshire Geographically Referenced Analysis and Information Transfer System | 2010            | \$183,100             |                        |
| 1    | NH    | 10-01-0438S | Acquire Base Map | New Hampshire Geographically Referenced Analysis and Information Transfer System | 2010            | \$99,200              |                        |
| 1    | VT    | 10-01-0671S | Acquire Base Map | VCGI   | 2010            | \$67,800              |                        |
| 2    | NJ    | 10-02-0578S | Acquire Base Map | New Jersey State Office of Information Technology                                | 2009            | \$25,519              |                        |
| 2    | NJ    | 10-02-0957S | Acquire Base Map | New Jersey State Office of Information Technology                                | 2009            | \$4,669               | Complete.              |
| 2    | NJ    | 10-02-0956S | Acquire Base Map | New Jersey State Office of Information Technology                                | 2009            | \$10,492              |                        |
| 2    | NJ    | 10-02-0954S | Acquire Base Map | New Jersey State Office of Information Technology                                | 2009            | \$5,627               | Task Complete.         |
| 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.         |



| Reg. | State | Case Number | Task Name                | Leverage Contributing Partner                        | Leverage Funded | Leverage Dollar Value | Leverage Task Comments  |
|------|-------|-------------|--------------------------|--|-----------------|-----------------------|---|
| 2    | NJ    | 10-02-0669S | Acquire Base Map         | New Jersey State Office of Information Technology    | 2009            | \$7,235               | Task complete.  |
| 2    | NJ    | 10-02-0581S | Acquire Base Map         | New Jersey State Office of Information Technology    | 2009            | \$48,930              |   |
| 2    | NJ    | 10-02-0568S | Acquire Base Map         | New Jersey State Office of Information Technology    | 2009            | \$56,107              |   |
| 2    | NJ    | 11-02-0615S | Develop Topographic Data | USGS - Missouri Water Science Center                 | 2009            | \$650,016             | USGS HQ and FEMA HQ entered in an inter-agency agreement where USGS contributed \$650,016.26 (ARRA funds). This leverage was placed under "USGS - Missouri Water Science Center" as there was no generic category for "USGS HQ" |
| 2    | NJ    | 10-02-0591S | Acquire Base Map         | New Jersey State Office of Information Technology    | 2009            | \$33,788              |   |
| 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    | 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    | PA    | 07-03-0436S | Acquire Base Map         | U.S. Geological Survey, Pennsylvania District        | 2007            | \$82,200              | base map provided by PAMAP, not available for selection in MIP  |
| 3    | PA    | 10-03-0271S | Develop Topographic Data |  | 2009            | \$149,000             | Lidar collection was by PAMAP, not RAMPP.   |
| 3    | PA    | 10-03-0271S | Acquire Base Map         | National Geospatial-Intelligence Agency (NGA)        | 2009            | \$74,500              | Also gathered by the USGS.  |
| 3    | PA    | 10-03-0359S | Develop Topographic Data | U.S. Geological Survey, Pennsylvania District        | 2010            | \$93,450              |   |
| 3    | VA    | 10-03-2084S | Acquire Base Map         | Virginia DCR   | 2010            | \$2,935               |   |
| 4    | AL    | 09-04-8084S | Acquire Base Map         | Alabama Department of Economic and Community Affairs | 2009            | \$80,500              |   |
| 4    | AL    | 09-04-7728S | Develop Topographic Data | Alabama Department of Economic and Community Affairs | 2009            | \$124,200             |   |
| 4    | AL    | 09-04-7729S | Acquire Base Map         | Alabama Department of Economic and Community Affairs | 2009            | \$79,000              |   |
| 4    | AL    | 09-04-7729S | Develop Topographic Data | Alabama Department of Economic and Community Affairs | 2009            | \$158,000             |   |
| 4    | AL    | 09-04-8024S | Develop Topographic Data | Alabama Department of Economic and Community Affairs | 2009            | \$159,000             |   |



| Reg. | State | Case Number | Task Name                | Leverage Contributing Partner   | Leverage Funded | Leverage Dollar Value | Leverage Task Comments                       |
|------|-------|-------------|--------------------------|---|-----------------|-----------------------|--|
| 4    | AL    | 09-04-8084S | Develop Topographic Data | Alabama Department of Economic and Community Affairs                  | 2009            | \$161,000             |  |
| 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    | 09-04-8024S | Acquire Base Map         | Alabama Department of Economic and Community Affairs                  | 2009            | \$79,500              |  |
| 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    | 10-04-3116S | Acquire Base Map         |   | 2009            | \$150,600             | 1ft resolution Countywide                    |
| 4    | FL    | 10-04-3115S | Acquire Base Map         |   | 2009            | \$95,300              | 1ft resolution Countywide                    |
| 4    | FL    | 10-04-3115S | Develop Topographic Data |   | 2009            | \$476,500             | Lidar Countywide 953 sq miles                |
| 4    | FL    | 10-04-3116S | Develop Topographic Data |   | 2009            | \$43,500              | Lidar 9 sq miles & 78 sq miles 1 ft contours |
| 4    | GA    | 10-04-6259S | Acquire Base Map         | Georgia Department of Natural Resources, Floodplain Management Office | 2009            | \$44,500              | Data provided by Coweta County               |
| 4    | GA    | 10-04-6258S | Develop Topographic Data | Georgia Department of Natural Resources, Floodplain Management Office | 2009            | \$68,800              | Data provided by Cobb County, GA.            |
| 4    | GA    | 10-04-6258S | Acquire Base Map         | Georgia Department of Natural Resources, Floodplain Management Office | 2009            | \$34,400              | Data provided by Cobb County, GA.            |
| 4    | GA    | 10-04-6259S | Develop Topographic Data | Georgia Department of Natural Resources, Floodplain Management Office | 2009            | \$89,000              | Data provided by Coweta County               |
| 4    | GA    | 10-04-6262S | Develop Topographic Data | Georgia Department of Natural Resources, Floodplain Management Office | 2009            | \$49,400              | Community-supplied topo                      |
| 4    | GA    | 10-04-6264S | Develop Topographic Data | Georgia Department of Natural Resources, Floodplain Management Office | 2009            | \$50,000              | Data provided by Gwinnett County, GA         |
| 4    | GA    | 10-04-6261S | Acquire Base Map         | Georgia Department of Natural Resources, Floodplain Management Office | 2009            | \$44,500              | Community-supplied base map                  |
| 4    | GA    | 10-04-6264S | Acquire Base Map         | Georgia Department of Natural Resources, Floodplain Management Office | 2009            | \$43,600              | Data provided by Gwinnett County, GA         |



| Reg. | State | Case Number | Task Name                | Leverage Contributing Partner   | Leverage Funded | Leverage Dollar Value | Leverage Task Comments                            |
|------|-------|-------------|--------------------------|---|-----------------|-----------------------|---|
| 4    | GA    | 10-04-6260S | Develop Topographic Data | Georgia Department of Natural Resources, Floodplain Management Office | 2009            | \$54,400              | Data provided by DeKalb County                    |
| 4    | GA    | 10-04-6260S | Acquire Base Map         | Georgia Department of Natural Resources, Floodplain Management Office | 2009            | \$27,200              | Data provided by DeKalb County                    |
| 4    | KY    | 10-04-7841S | Develop Topographic Data | Kentucky Division of Water  | 2009            | \$33,000              | Local 2ft. contour equivalent derived from LIDAR. |
| 4    | KY    | 10-04-7834S | Acquire Base Map         | Kentucky Division of Water  | 2009            | \$30,000              | Local 1 ft. aerial imagery.                       |
| 4    | KY    | 10-04-7837S | Acquire Base Map         | USDA Farm Service Agency (FSA)  | 2009            | \$21,200              | 2010 1ft. aerial imagery                          |
| 4    | KY    | 10-04-7841S | Acquire Base Map         | Kentucky Division of Water  | 2009            | \$16,500              | Local 1ft. resolution aerial imagery.             |
| 4    | KY    | 10-04-7843S | Acquire Base Map         | USDA Farm Service Agency (FSA)  | 2009            | \$30,900              | FSA 2010 1m aerial imagery.                       |
| 4    | KY    | 10-04-7844S | Acquire Base Map         | USDA Farm Service Agency (FSA)  | 2009            | \$24,600              | FSA 2 ft. aerial imagery                          |
| 4    | KY    | 10-04-7837S | Develop Topographic Data | Kentucky Division of Water  | 2009            | \$42,400              | Local 2' and 5' contour data.                     |
| 4    | KY    | 10-04-7834S | Develop Topographic Data | Kentucky Division of Water  | 2009            | \$60,000              | Local 2 ft. contour equivalent terrain.           |
| 4    | MS    | 10-04-4167S | Develop Topographic Data | Mississippi Department of Environmental Quality, Office of Geology    | 2009            | \$61,770              |   |
| 4    | TN    | 10-04-3156S | Develop Topographic Data |   | 2009            | \$31,360              |   |
| 4    | TN    | 10-04-3117S | Acquire Base Map         |   | 2009            | \$5,430               |   |
| 4    | TN    | 10-04-3113S | Develop Topographic Data |   | 2009            | \$105,200             |   |
| 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 | Acquire Base Map         |   | 2009            | \$5,080               |   |
| 4    | TN    | 10-04-3155S | Develop Topographic Data |   | 2009            | \$127,000             |   |
| 4    | TN    | 10-04-3156S | Acquire Base Map         |   | 2009            | \$7,840               |   |
| 4    | TN    | 10-04-3113S | Acquire Base Map         |   | 2009            | \$5,260               |   |



| Reg. | State | Case Number | Task Name                | Leverage Contributing Partner                        | Leverage Funded | Leverage Dollar Value | Leverage Task Comments  |
|------|-------|-------------|--------------------------|--|-----------------|-----------------------|---|
| 5    | MI    | 08-05-3687S | Develop Topographic Data |  | 2009            | \$139,750             | 559 square miles of IFSAR data. \$250 per square mile (Rolly to Hilly Terrain, less than 1000 square miles)   |
| 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    | 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             |   |
| 5    | OH    | 10-05-2400S | Acquire Base Map         | Ohio Department of Natural Resources                 | 2009            | \$53,200              |   |
| 5    | WI    | 10-05-0307S | Develop Topographic Data | Wisconsin Department of Commerce                     | 2010            | \$301,912             |   |
| 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  |
| 6    | LA    | 10-06-0136S | Develop Topographic Data | LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT | 2009            | \$237,800             |   |
| 6    | LA    | 10-06-0137S | Acquire Base Map         | Caldwell Parish, LA                                  | 2009            | \$26,016              | S_POL_AR and S_PLSS_AR  |
| 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.            |





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|------|-------|-------------|--------------------------|--|-----------------|-----------------------|--|
| 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    | 10-06-1139S | 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    | 11-06-1123S | Acquire Base Map         | TEXAS COMMISSION OF ENVIRONMENTAL QUALITY (TCEQ) | 2010            | \$1,716               | Orthophotos were provided by TNRIS and not TCEQ, but TNRIS is not available from the drop down menu.   |
| 7    | IA    | 10-07-0464S | Acquire Base Map         |  | 2009            | \$20,546              |  |
| 7    | IA    | 10-07-0464S | Develop Topographic Data |  | 2009            | \$205,460             |  |
| 7    | IA    | 10-07-0465S | Acquire Base Map         |  | 2009            | \$100,200             |  |
| 7    | IA    | 10-07-0465S | Develop Topographic Data |  | 2009            | \$7,440               |  |
| 7    | IA    | 10-07-0466S | Acquire Base Map         | Worth County, Iowa                               | 2010            | \$40,190              | Worth County Orthophoto  |
| 7    | IA    | 10-07-0466S | Develop Topographic Data | Iowa Department of Natural Resources             | 2010            | \$80,380              | 2 foot contours, Countywide DEM, and LiDAR points  |
| 7    | KS    | 10-07-0561S | Acquire Base Map         |  | 2009            | \$1,168               |  |
| 7    | KS    | 10-07-0561S | Develop Topographic Data |  | 2009            | \$14,600              |  |
| 7    | KS    | 10-07-0015S | Develop Topographic Data | Kansas Division of Water Resources               | 2009            | \$287,000             | LiDAR provided for more accuracy.  |
| 7    | NE    | 10-07-0558S | Acquire Base Map         |  | 2009            | \$6,328               |  |
| 7    | NE    | 10-07-0558S | Develop Topographic Data |  | 2009            | \$79,100              |  |
| 8    | CO    | 11-08-0572S | Acquire Base Map         |  | 2011            | \$5,100               | Base map task is complete.   |



| Reg. | State | Case Number | Task Name                | Leverage Contributing Partner                              | Leverage Funded | Leverage Dollar Value | Leverage Task Comments  |
|------|-------|-------------|--------------------------|--|-----------------|-----------------------|---|
| 8    | CO    | 11-08-0023S | Acquire Base Map         |  | 2011            | \$2,500               | The base map task is underway.  |
| 8    | MT    | 09-08-0967S | Acquire Base Map         | Montana Dept. of Natural Resources & Conservation (MTDNRC) | 2009            | \$89,600              |   |
| 8    | MT    | 07-08-0276S | Develop Topographic Data | Montana Dept. of Natural Resources & Conservation (MTDNRC) | 2009            | \$27,525              |   |
| 8    | MT    | 07-08-0276S | Acquire Base Map         | Montana Dept. of Natural Resources & Conservation (MTDNRC) | 2009            | \$29,860              |   |
| 8    | ND    | 09-08-1007S | Acquire Base Map         | North Dakota State Water Commission                        | 2009            | \$2,300               | 46 sq. mi. - 1m orthophoto @ \$50   |
| 8    | ND    | 09-08-1007S | Develop Topographic Data | North Dakota State Water Commission                        | 2009            | \$87,400              | 46 sq mi - 6" LiDAR w/ ground control @ \$1,900   |
| 8    | ND    | 10-08-0041S | Acquire Base Map         |  | 2009            | \$176,500             |   |
| 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    | SD    | 10-08-0039S | Acquire Base Map         |  | 2009            | \$8,228               |   |
| 8    | SD    | 10-08-0039S | Develop Topographic Data |  | 2009            | \$850                 |   |
| 8    | UT    | 10-08-0155S | Acquire Base Map         |  | 2009            | \$3,874               |   |
| 9    | CA    | 10-09-0037S | Develop Topographic Data | City of Santa Rosa, CA                                     | 2009            | \$5,800               | The data meets FEMA's G&S.  |
| 9    | CA    | 09-09-3068S | Develop Topographic Data | Mono County, CA  | 2009            | \$11,000              | Contributed by Mono County, CA for the Tri-Valley Floodplain Study                              |
| 9    | CA    | 09-09-0302S | Acquire Base Map         | City of Santa Rosa, CA                                     | 2010            | \$3,290               |   |



# Risk Map Elevation and Ortho Data Sets

## Elevation Data Sets Produced in Risk MAP

| Reg # | St. | Case Number | MIP Project Name                 | FEMA Regional Engineer | Task FY | Leverage Dollar Value | NDEP Title                                       | NDEP State - County     | NDEP Status | Vertical Datum | Data Format       | Collection Method | Use Constraints       | Horizontal Posting | Vertical Accuracy | Lead Agency |
|-------|-----|-------------|----------------------------------|------------------------|---------|-----------------------|--|-------------------------|-------------|----------------|-------------------|-------------------|-----------------------|--------------------|-------------------|-------------|
| 1     | CT  | 11-01-0721S | Quinnipiac HUC8 - LIDAR - FY10   | Kerry Bogdan           | 2010    |                       | Quinnipiac HUC8, CT                              | Unknown                 | Complete    | NAVD 88        | Mass Points/Varia | LIDAR             | Yes, contact the lead | 1                  | 0.363             | 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        |
| 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     | MA  | 11-01-0716S | Blackstone HUC8 - LIDAR - FY10   | Kerry Bogdan           | 2010    |                       | Blackstone                                       | Unknown                 | Complete    | NAVD 88        | Mass Points/Varia | LIDAR             | Yes, contact the lead | 1                  | 0.363             | FEMA        |
| 1     | MA  | 11-01-0888S | Concord HUC8 - study - FY10      | Kerry Bogdan           | 2010    |                       | Concord Watershed LiDAR (MA)                     | Unknown                 | Complete    | NAVD 88        | Mass Points/Varia | LIDAR             | No                    | 1                  | 0.363             | FEMA        |
| 1     | MA  | 11-01-0720S | Nashua HUC8 - LIDAR - FY10       | Kerry Bogdan           | 2010    |                       | Nashua Watershed LiDAR (MA and NH)               | Unknown                 | Complete    | NAVD 88        | Mass Points/Varia | LIDAR             | No                    | 1                  | 0.363             | FEMA        |
| 1     | MA  | 11-01-0718S | Narragansett HUC8 - LIDAR - FY10 | Kerry Bogdan           | 2010    |                       | Narragansett                                     | Unknown                 | Complete    | NAVD 88        | Mass Points/Varia | LIDAR             | Yes, contact the lead | 1                  | 0.363             | FEMA        |
| 1     | MA  | 11-01-0717S | Charles HUC8 - LIDAR - FY10      | Kerry Bogdan           | 2010    |                       | Charles  | Unknown                 | Complete    | NAVD 88        | Mass Points/Varia | LIDAR             | Yes, contact the lead | 1                  | 0.363             | FEMA        |
| 1     | MA  | 12-TBD      | Merrimack HUC8 - LiDAR - FY11    | Kerry Bogdan           | 2011    |                       |  |                         |             |                |                   |                   |                       |                    |                   |             |
| 1     | ME  | 10-01-0670S | Androscoggin , ME - DFIRM        |                        | 2009    |                       | FEMA Case# 10-01-0670S Androscoggin , ME - DFIRM | Maine                   | Complete    | NAVD 88        | Mass Points/Break | LIDAR             | To be determined      | 1                  | 0                 | 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     | NH  | 11-01-0720S | Nashua HUC8 - LIDAR - FY10       | Kerry Bogdan           | 2010    |                       | Nashua Watershed LiDAR (MA and NH)               | Unknown                 | Complete    | NAVD 88        | Mass Points/Varia | LIDAR             | No                    | 1                  | 0.363             | FEMA        |
| 1     | RI  | 10-01-0656S | Providence , RI - LiDAR          |                        | 2009    |                       | Providence, RI LiDAR and Checkpoint Survey       | Unknown                 | Complete    | NAVD 88        | TIN               | LIDAR             | No                    | 1                  | 0.18              | 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        |



# FEMA Semi-Annual Geospatial Data Coordination Report

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|-------|-------------|-------------|--|------------------------|---------|-----------------------|---|---------------------|-------------|----------------|-------------------|-------------------|------------------|--------------------|-------------------|-------------|
| 1     | RI          | 10-01-0658S | Newport , RI - DFIRM   |                        | 2009    |                       | Newport, RI LiDAR and Checkpoint Survey                 | Unknown             | Complete    | NAVD 88        | TIN               | LIDAR             | No               | 1                  | 0.18              | FEMA        |
| 1     | VT          | 10-01-0671S | Bennington , VT - DFIRM  |                        | 2009    |                       | FEMA Case# 10-01-0671S Bennington , VT - DFIRM          | Unknown             | Complete    | NAVD 88        | Mass Points/Break | LIDAR             | To be determined | 1                  | 0                 | FEMA        |
| 1     | VT          | 10-01-0671S | Bennington , VT - DFIRM  |                        | 2009    |                       | FEMA Case# 10-01-0671S Bennington , VT - DFIRM          | Unknown             | Complete    | NAVD 88        | Mass Points/Break | LIDAR             | To be determined | 1                  | 0                 | FEMA        |
| 2     | NJ          | 11-02-0615S | NJ LiDAR - FY09  | Paul Weberg            | 2009    | \$650,016             | Terrain data for Atlantic, Ocean, Monmouth Counties, NJ | Unknown             | Complete    | NAVD 88        | Mass Points/Break | LIDAR             | No               | 1                  | 0.185             | FEMA        |
| 2     | NJ          | 11-02-1255S | NJ Burlington and Camden Co. LiDAR - FY10                                | Paul Weberg            | 2010    |                       | FEMA 2010 LIDAR Burlington and Camden, NJ               | Unknown             | Complete    | NAVD 88        | Mass Points/Varia | LIDAR             | No               | 1                  | 0.36              | FEMA        |
| 2     | NY          | 11-02-1479S | Rensselaer County, NY - CW- FY09   |                        | 2009    |                       | Terrain data for Rensselaer County, NY                  | New York+Rensselaer | Proposed    | NAVD 88        | Mass Points/Break | LIDAR             | To be determined | 1                  | 0.185             | NYS DEC     |
| 2     | NY          | 11-02-1277S | REG-(E)-02050105-Chemung-FY10  | Alan Springett         | 2010    |                       | FEMA FY10 LIDAR Chemung, NY                             | New York+Chemung    | Complete    | NAVD 88        | Mass Points/Varia | LIDAR             | No               | 1                  | 0.36              | FEMA        |
| 2     | NY          | 12-TBD      | Seneca Watershed   |                        | 2011    |                       |   |                     |             |                |                   |                   |                  |                    |                   |             |
| 2     | NY          | 12-TBD      | Hudson-Hoosick Watershed   |                        | 2011    |                       |   |                     |             |                |                   |                   |                  |                    |                   |             |
| 3     | DC, MD, VA, | 12-03-0415S | Middle Potomac-Catoctin Basin-Wide Study (~28 Communities)               | Robin Danforth         | 2011    |                       |   |                     |             |                |                   |                   |                  |                    |                   |             |
| 3     | MD          | 11-03-2783S | FY10 Placeholder   | Robert Pierson         | 2010    |                       |   |                     |             |                |                   |                   |                  |                    |                   |             |
| 3     | MD, PA, VA, | 12-03-0413S | Conococheague-Opoquon Basin-Wide Study (~60 Communities)                 | Nikki Roberts          | 2011    |                       |   |                     |             |                |                   |                   |                  |                    |                   |             |
| 3     | MD, VA, WV  | 12-03-0447S | Topo Data Acq: Conococheague-Opoquon, Middle Potomac-Catoctin Watersheds | Robin Danforth         | 2011    |                       |   |                     |             |                |                   |                   |                  |                    |                   |             |
| 3     | VA          | 11-03-2089S | Topo Data Acq: VA LiDAR  | Robin Danforth         | 2010    |                       |   |                     |             |                |                   |                   |                  |                    |                   |             |
| 3     | WV          | 11-03-0773S | Topo Data Acq: WV LiDAR QA/QC  | Jon Janowicz           | 2010    |                       |   |                     |             |                |                   |                   |                  |                    |                   |             |
| 4     | AL          | 11-04-8021S | REG-AL TOPO FY10 MULTI HUC   | Laura Algeo            | 2010    |                       |   |                     |             |                |                   |                   |                  |                    |                   |             |



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|-------|-----|-------------|---|------------------------|---------|-----------------------|---------------------|---------------------|-------------|----------------|-------------|-------------------|-----------------------|--------------------|-------------------|-----------------------------------|
| 4     | AL  | 12-TBD      | Jackson, AL (01071)                         |                        | 2011    |                       |                     |                     |             |                |             |                   |                       |                    |                   |                                   |
| 4     | AL  | 12-TBD      | Calhoun, AL (01015)                         |                        | 2011    |                       |                     |                     |             |                |             |                   |                       |                    |                   |                                   |
| 4     | FL  | 11-04-8514S | REG-Lower St Johns Basin FY10 TOPO 03080103 | Mark Vieira            | 2010    |                       |                     |                     |             |                |             |                   |                       |                    |                   |                                   |
| 4     | FL  | 11-04-7858S | REG-Lower Suwannee 03110205 TOPO FY10       | Kristen Martinenza     | 2010    |                       |                     |                     |             |                |             |                   |                       |                    |                   |                                   |
| 4     | FL  | 12-TBD      | Ocklawaha Basin                             |                        | 2011    |                       |                     |                     |             |                |             |                   |                       |                    |                   |                                   |
| 4     | GA  | 11-04-8016S | REG-GA TOPO FY10 MULTI HUC                  | Laura Algeo            | 2010    |                       |                     |                     |             |                |             |                   |                       |                    |                   |                                   |
| 4     | GA  | 11-04-1621S | Coastal GA NE FL 18 Counties (FY2010)       | Tucker Mahoney         | 2010    |                       |                     |                     |             |                |             |                   |                       |                    |                   |                                   |
| 4     | KY  | 10-04-7842S | Lewis Co KY (FY2009)                        | Laura Algeo            | 2009    |                       | Lewis County, KY    | Unknown             | Complete    | NAVD 88        | DEM+TIN     | LIDAR             | Yes, contact the lead | 1                  | 0.18              | Kentucky Division of Water (KDOW) |
| 4     | KY  | 10-04-7843S | Magoffin Co KY (FY2009)                     | Laura Algeo            | 2009    |                       | Magoffin County, KY | Unknown             | Complete    | NAVD 88        | DEM+TIN     | LIDAR             | Yes, contact the lead | 1                  | 0.18              | Kentucky Division of Water (KDOW) |
| 4     | KY  | 10-04-7846S | Pike Co KY (FY2009)                         | Laura Algeo            | 2009    |                       | Pike County, KY     | Unknown             | Complete    | NAVD 88        | DEM+TIN     | LIDAR             | Yes, contact the lead | 1                  | 0.18              | Kentucky Division of Water (KDOW) |
| 4     | KY  | 10-04-7845S | Pendleton Co KY (FY2009)                    | Laura Algeo            | 2009    |                       |                     |                     |             |                |             |                   |                       |                    |                   |                                   |
| 4     | KY  | 10-04-7839S | Hancock Co KY (FY2009)                      | Laura Algeo            | 2009    |                       | Hancock County, KY  | Unknown             | Complete    | NAVD 88        | DEM+TIN     | LIDAR             | Yes, contact the lead | 1                  | 0.18              | Kentucky Division of Water (KDOW) |
| 4     | KY  | 10-04-7844S | Mason Co KY (FY2009)                        | Laura Algeo            | 2009    |                       | Mason County, KY    | Unknown             | Complete    | NAVD 88        | DEM+TIN     | LIDAR             | Yes, contact the lead | 1                  | 0.18              | Kentucky Division of Water (KDOW) |
| 4     | KY  | 10-04-7838S | Greenup Co KY (FY2009)                      | Laura Algeo            | 2009    |                       | Greenup County, KY  | Unknown             | Complete    | NAVD 88        | DEM+TIN     | LIDAR             | Yes, contact the lead | 1                  | 0.18              | Kentucky Division of Water (KDOW) |
| 4     | KY  | 10-04-7836S | Fayette Co KY (FY2009)                      | Laura Algeo            | 2009    |                       |                     |                     |             |                |             |                   |                       |                    |                   |                                   |
| 4     | KY  | 10-04-7833S | Bracken Co KY (FY2009)                      | Laura Algeo            | 2009    |                       |                     |                     |             |                |             |                   |                       |                    |                   |                                   |
| 4     | KY  | 10-04-7831S | Boyd Co KY (FY2009)                         | Laura Algeo            | 2009    |                       | Boyd County, KY     | Unknown             | Complete    | NAVD 88        | DEM+TIN     | LIDAR             | Yes, contact the lead | 1                  | 0.18              | Kentucky Division of Water (KDOW) |
| 4     | KY  | 11-04-8035S | REG-KY Topo FY10 Multi HUC                  | Laura Algeo            | 2010    |                       |                     |                     |             |                |             |                   |                       |                    |                   |                                   |



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|-------|-----|-------------|--|------------------------|---------|-----------------------|------------|---------------------|-------------|----------------|------------------------------|-------------------|------------------------------|--------------------|-------------------|-------------|
| 4     | KY  | 12-TBD      | Lower Cumberland River Basin                                 |                        | 2011    |                       |            |                     |             |                |                              |                   |                              |                    |                   |             |
| 4     | MS  | 11-04-7968S | REG-Tenn-Tom Topo Multi HUC                                  | Kristen Martinenza     | 2010    |                       |            |                     |             |                |                              |                   |                              |                    |                   |             |
| 4     | SC  | 10-04-4870S | Lexington CO SC (FY2009)                                     | Laura Algeo            | 2009    |                       |            |                     |             |                |                              |                   |                              |                    |                   |             |
| 4     | SC  | 11-04-8180S | REG-SC Topo FY10 Multi HUC                                   | Laura Algeo            | 2010    |                       |            |                     |             |                |                              |                   |                              |                    |                   |             |
| 4     | SC  | 12-TBD      | SC Topo FY11 Multi HUC                                       |                        | 2011    |                       |            |                     |             |                |                              |                   |                              |                    |                   |             |
| 4     | TN  | 11-04-8515S | REG-Stones River Basin FY10 TOPO 05130203                    | Mark Vieira            | 2010    |                       |            |                     |             |                |                              |                   |                              |                    |                   |             |
| 5     | IL  | 11-05-2220S | RM-FY10-IL-Piatt LiDAR Data Collection Project-E             | Suzanne Vermeer        | 2010    |                       | Piatt      | Unknown             | Complete    | NAVD 88        | Mass Points/Variable Spacing | LIDAR             | Yes, contact the lead        | TBD                | 0.363             | FEMA        |
| 5     | IL  | 11-05-2218S | RM-FY10-IL-Wabash LiDAR Data Collection Project-E            | Suzanne Vermeer        | 2010    |                       | Wabash     | Unknown             | In work     | NAVD 88        | Mass Points/Variable Spacing | LIDAR             | Yes, contact the lead agency | 1                  | 0.363             | FEMA        |
| 5     | IL  | 11-05-2219S | RM-FY10-IL-Saline LiDAR Data Collection Project-E            | Suzanne Vermeer        | 2010    |                       | Saline     | Unknown             | Complete    | NAVD 88        | Mass Points/Variable Spacing | LIDAR             | Yes, contact the lead        | TBD                | 0.363             | FEMA        |
| 5     | IL  | 12-05-0809S | RM-FY11-IL & IN-Wabash River LiDAR Processing-E              | Lee Traeger            | 2011    |                       |            |                     |             |                |                              |                   |                              |                    |                   |             |
| 5     | IL  | 12-05-0737S | RM-FY11-IL-07130006-Sangamon LiDAR Collection & Processing-E | Lee Traeger            | 2011    |                       |            |                     |             |                |                              |                   |                              |                    |                   |             |
| 5     | IL  | 12-05-0810S | RM-FY10-IL-Saline Watershed LiDAR Processing-E               | Lee Traeger            | 2011    |                       | Saline     | Unknown             | Complete    | NAVD 88        | Mass Points/Variable Spacing | LIDAR             | Yes, contact the lead agency | TBD                | 0.363             | FEMA        |
| 5     | IN  | 12-05-0809S | RM-FY11-IL & IN-Wabash River LiDAR Processing-E              | Lee Traeger            | 2011    |                       |            |                     |             |                |                              |                   |                              |                    |                   |             |
| 5     | MI  | 11-05-2215S | RM-FY10-MI-Traverse LiDAR Data Collection Project-E          | Mike Hanke             | 2010    |                       | Traverse   | Unknown             | In work     | NAVD 88        | Mass Points/Variable Spacing | LIDAR             | Yes, contact the lead agency | 2 meters           | 0.726             | FEMA        |
| 5     | MI  | 11-05-2212S | RM-FY10-MI-Ironwood-1 LiDAR Project-E                        | Mike Hanke             | 2010    |                       | Ironwood 1 | Unknown             | Complete    | NAVD 88        | DEM                          | LIDAR             | Yes, contact the lead        | TBD                | 0.726             | FEMA        |
| 5     | MI  | 11-05-2214S | RM-FY10-MI-Ironwood-2 LiDAR Collection Project-E             | Lee Traeger            | 2010    |                       | Ironwood2  | Unknown             | In work     | NAVD 88        | Mass Points/Variable Spacing | LIDAR             | Yes, contact the lead agency | 1                  | 0.363             | FEMA        |



# FEMA Semi-Annual Geospatial Data Coordination Report

| Reg # | St.    | Case Number | MIP Project Name                                  | FEMA Regional Engineer    | Task FY | Leverage Dollar Value | NDEP Title                              | NDEP State - County | NDEP Status | Vertical Datum | Data Format                  | Collection Method | Use Constraints              | Horizontal Posting | Vertical Accuracy | Lead Agency |
|-------|--------|-------------|---|---------------------------|---------|-----------------------|---|---------------------|-------------|----------------|------------------------------|-------------------|------------------------------|--------------------|-------------------|-------------|
| 5     | MI     | 12-05-0819S | RM-FY11-MI- Traverse, MI LiDAR Processing-E       | Lee Traeger               | 2011    |                       |   |                     |             |                |                              |                   |                              |                    |                   |             |
| 5     | MI     | 12-05-0817S | RM-FY11-MI-Ironwood 1 LiDAR Processing-E          | Lee Traeger               | 2011    |                       | Ironwood 1                              | Unknown             | Complete    | NAVD 88        | DEM                          | LIDAR             | Yes, contact the lead        | TBD                | 0.726             | FEMA        |
| 5     | MI, WI | 12-05-0818S | RM-FY11-MI & WI-Ironwood 2 LiDAR Processing-E     | Lee Traeger               | 2011    |                       |   |                     |             |                |                              |                   |                              |                    |                   |             |
| 5     | WI     | 11-05-2223S | RM-FY10-Rock LiDAR Data Collection Project-E      | Lee Traeger               | 2010    |                       | Rock                                    | Unknown             | Complete    | NAVD 88        | Mass Points/Varia            | LIDAR             | Yes, contact the lead        | TBD                | 0.363             | FEMA        |
| 5     | WI     | 11-05-2224S | RM-FY10-WI-Ozaukee LiDAR Collection Project-E     | Lee Traeger               | 2010    |                       | Ozaukee                                 | Unknown             | Complete    | NAVD 88        | Mass Points/Variable Spacing | LIDAR             | Yes, contact the lead agency | TBD                | 0.363             | FEMA        |
| 5     | WI     | 12-05-0817S | RM-FY11-MI-Ironwood 1 LiDAR Processing-E          | Lee Traeger               | 2011    |                       | Ironwood 1                              | Unknown             | Complete    | NAVD 88        | DEM                          | LIDAR             | Yes, contact the lead        | TBD                | 0.726             | FEMA        |
| 5     | WI     | 12-05-0735S | RM-FY11-WI-Sawyer LiDAR Collection & Processing-E | Lee Traeger               | 2011    |                       | Sawyer, WI                              | Unknown             | In work     | NAVD 88        | Mass Points/Variable Spacing | LIDAR             | Yes, contact the lead agency | 1                  | 0.363             | FEMA        |
| 6     | AR     | 10-06-0131S | Grant Co, AR (FY09)                               | Guy Lowes                 | 2009    |                       | Grant County, AR LiDAR                  | Arkansas+Grant      | Complete    | NAVD 88        | Mass Points/Varia            | LIDAR             | No                           | 1                  | 0.12              | FEMA        |
| 6     | AR     | 10-06-1127S | Pulaski Co, AR (FY09 Levee)                       | Guy Lowes                 | 2009    |                       |   |                     |             |                |                              |                   |                              |                    |                   |             |
| 6     | AR     | 11-06-1553S | FY10 LiDAR Acquisition - Northeast AR             | LiDAR Project - Guy Lowes | 2010    |                       | FEMA FY1- LIDAR North East Arkansas     | Unknown             | Complete    | NAVD 88        | Mass Points/Varia            | LIDAR             | No                           | 1                  | 0.36              | FEMA        |
| 6     | AR     | 11-06-1563S | FY10 LiDAR Acquisition - Pulaski AR               | LiDAR Project - Guy Lowes | 2010    |                       | FEMA FY10 LIDAR Pulaski County, AR      | Arkansas+Pulaski    | Complete    | NAVD 88        | Mass Points/Varia            | LIDAR             | No                           | 1                  | 0.36              | FEMA        |
| 6     | NM     | 10-06-0143S | Socorro Co, NM (FY09)                             | Jim Orwat                 | 2009    |                       |   |                     |             |                |                              |                   |                              |                    |                   |             |
| 6     | OK     | 11-06-1560S | FY10 LiDAR Acquisition - Ottawa, Delaware OK      | LiDAR Project - Guy Lowes | 2010    |                       | FEMA FY10 LIDAR Ottawa and Delaware, TX | Unknown             | Complete    | NAVD 88        | Mass Points/Varia            | LIDAR             | No                           | 1                  | 0.36              | FEMA        |
| 6     | TX     | 11-06-1562S | FY10 LiDAR Acquisition - Parker TX                | LiDAR Project - Guy Lowes | 2010    |                       | FEMA FY10 LIDAR Parker County, TX       | Texas+Parker        | Complete    | NAVD 88        | Mass Points/Varia            | LIDAR             | No                           | 1                  | 0.36              | FEMA        |
| 6     | TX     | 11-06-1551S | FY10 LiDAR Acquisition - Central TX               | LiDAR Project - Guy Lowes | 2010    |                       | FEMA FY10 LIDAR Central Texas           | Unknown             | Complete    | NAVD 88        | Mass Points/Varia            | LIDAR             | No                           | 1                  | 0.36              | FEMA        |
| 6     | TX     | 11-06-1552S | FY10 LiDAR Acquisition - Liberty TX               | LiDAR Project - Guy Lowes | 2010    |                       | FEMA FY10 LIDAR Liberty, TX             | Texas+Liberty       | Complete    | NAVD 88        | Mass Points/Varia            | LIDAR             | No                           | 1                  | 0.36              | FEMA        |
| 6     | TX     | 11-06-0896S | Harris Co TX Addicks Reservoir (FY10)             | Larry Voice               | 2011    |                       |   |                     |             |                |                              |                   |                              |                    |                   |             |



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|-------|-----|-------------|--|------------------------|---------|-----------------------|---------------------|---------------------|-------------|----------------|------------------|-------------------|-----------------------|--------------------|-------------------|-------------|
| 7     | IA  | 11-07-1083S | Upper Grand HUC10280101 - FY11/FY10 (O-W) - REG            | Bob Franke             | 2010    |                       |                     |                     |             |                |                  |                   |                       |                    |                   |             |
| 7     | IA  | 11-07-0236S | Upper Grand - 76 RMAP FY10                                 | Bob Franke             | 2010    |                       |                     |                     |             |                |                  |                   |                       |                    |                   |             |
| 7     | IA  | 12-07-0368S | Lower Grand HUC10280103 - FY 11 (O-W) - REG                | Bob Franke             | 2011    |                       |                     |                     |             |                |                  |                   |                       |                    |                   |             |
| 7     | KS  | 10-07-0016S | RENO COUNTY, KS. RISK MAP 09                               | Bob Franke             | 2009    |                       |                     |                     |             |                |                  |                   |                       |                    |                   |             |
| 7     | KS  | 10-07-0005S | ATCHISON CO KS RISK MAP 09                                 | Bob Franke             | 2009    |                       |                     |                     |             |                |                  |                   |                       |                    |                   |             |
| 7     | KS  | 10-07-0012S | MIAMI COUNTY, KS. RISK MAP 09                              | Bob Franke             | 2009    |                       |                     |                     |             |                |                  |                   |                       |                    |                   |             |
| 7     | KS  | 10-07-0009S | LEAVENWORTH COUNTY. RISK MAP 09                            | Bob Franke             | 2009    |                       |                     |                     |             |                |                  |                   |                       |                    |                   |             |
| 7     | KS  | 11-07-1996S | REG - Saline Co., Salina, KS. FY10 (Levee-PMR)             | Bob Franke             | 2010    |                       |                     |                     |             |                |                  |                   |                       |                    |                   |             |
| 7     | KS  | 11-07-3553S | South Fork Ninnescah,KS. HUC 11030015 ( LiDAR Acquisition) | Bob Franke             | 2011    |                       |                     |                     |             |                |                  |                   |                       |                    |                   |             |
| 7     | MO  | 09-07-2044S | CALLAWAY COUNTY, MO. RISK MAP 09                           | Bob Franke             | 2009    |                       |                     |                     |             |                |                  |                   |                       |                    |                   |             |
| 7     | MO  | 09-07-2050S | COLE COUNTY, MO. RISK MAP 09                               | Bob Franke             | 2009    |                       |                     |                     |             |                |                  |                   |                       |                    |                   |             |
| 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  | 09-07-2054S | OSAGE COUNTY, MO. RISK MAP 09                              | Bob Franke             | 2009    |                       |                     |                     |             |                |                  |                   |                       |                    |                   |             |
| 7     | MO  | 11-07-1083S | Upper Grand HUC10280101 - FY11/FY10 (O-W) - REG            | Bob Franke             | 2010    |                       |                     |                     |             |                |                  |                   |                       |                    |                   |             |
| 7     | MO  | 11-07-1077S | Cahokia-Joachim-Huc 7140101 - 102 -RMAP FY10               | Rick Nusz              | 2010    |                       |                     |                     |             |                |                  |                   |                       |                    |                   |             |
| 7     | MO  | 11-07-0542S | Dunklin County, Mo FY10 (Countywide)                       | Bob Franke             | 2010    |                       |                     |                     |             |                |                  |                   |                       |                    |                   |             |





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|-------|-----|-------------|--|------------------------|---------|-----------------------|------------------|---------------------|-------------|----------------|-------------------|-------------------|-----------------|--------------------|-------------------|-------------|
| 7     | MO  | 11-07-0236S | Upper Grand - 76 RMAP FY10                                     | Bob Franke             | 2010    |                       |                  |                     |             |                |                   |                   |                 |                    |                   |             |
| 7     | MO  | 11-07-0235S | Big - Huc # 7140104 - 21 - RMAP FY 10                          | Bob Franke             | 2010    |                       |                  |                     |             |                |                   |                   |                 |                    |                   |             |
| 7     | MO  | 11-07-0317S | Mermac - Huc # 07140102 - 44 - RMAP FY10                       | Bob Franke             | 2010    |                       |                  |                     |             |                |                   |                   |                 |                    |                   |             |
| 7     | MO  | 12-07-0373S | Lower Missouri HUC10300200 - FY 11 (O-W) (Discovery Only) REG  | Bob Franke             | 2011    |                       |                  |                     |             |                |                   |                   |                 |                    |                   |             |
| 7     | MO  | 12-07-0376S | Sac HUC10290106 - FY11 (O-W) REG                               | Bob Franke             | 2011    |                       |                  |                     |             |                |                   |                   |                 |                    |                   |             |
| 7     | MO  | 12-07-0377S | Upper Gasconade HUC10290201 - FY11 (O-W) REG                   | Bob Franke             | 2011    |                       |                  |                     |             |                |                   |                   |                 |                    |                   |             |
| 7     | MO  | 12-07-0375S | Lower Missouri Moreau HUC10300102 - FY 11 (O-W) - REG          | Bob Franke             | 2011    |                       |                  |                     |             |                |                   |                   |                 |                    |                   |             |
| 7     | MO  | 12-07-0371S | South Fork Salt HUC07110006 - FY 11 (O-W) - REG                | Bob Franke             | 2011    |                       |                  |                     |             |                |                   |                   |                 |                    |                   |             |
| 7     | MO  | 12-07-0370S | Lower Chariton HUC10280202 - FY11 (O-W) REG                    | Bob Franke             | 2011    |                       |                  |                     |             |                |                   |                   |                 |                    |                   |             |
| 7     | MO  | 12-07-0368S | Lower Grand HUC10280103 - FY 11 (O-W) - REG                    | Bob Franke             | 2011    |                       |                  |                     |             |                |                   |                   |                 |                    |                   |             |
| 7     | MO  | 12-07-0408S | Butler County, MO. Levee PMR                                   | Bob Franke             | 2011    |                       |                  |                     |             |                |                   |                   |                 |                    |                   |             |
| 7     | MO  | 12-07-0372S | Cuivre HUC07110008 - FY 11 (O-W) REG                           | Bob Franke             | 2011    |                       |                  |                     |             |                |                   |                   |                 |                    |                   |             |
| 7     | NE  | 11-07-0469S | Elkhorn River, RMAP FY10-HQ Topo                               | Bob Franke             | 2010    |                       | Cuming, NE LIDAR | Nebraska+Cuming     | Complete    | NAVD 88        | Mass Points/Varia | LIDAR             | No              | 1                  | null              | FEMA        |
| 8     | CO  | 09-08-0493S | Prowers County, CO   |                        | 2009    |                       |                  |                     |             |                |                   |                   |                 |                    |                   |             |
| 8     | CO  | 10-08-1058S | Arkansas Headwaters basin-wide -4 communities (Chaffee County) |                        | 2010    |                       |                  |                     |             |                |                   |                   |                 |                    |                   |             |



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|-------|-----|-------------|---|------------------------|---------|-----------------------|--|----------------------|-------------|----------------|-------------------|-------------------|--------------------------|--------------------|-------------------|----------------|
| 8     | MT  | 09-08-0967S | Sanders County, MT                            |                        | 2009    |                       |  |                      |             |                |                   |                   |                          |                    |                   |                |
| 8     | ND  | 10-08-1044S | Morton County, ND<br>PMR FY10                 |                        | 2010    |                       |  |                      |             |                |                   |                   |                          |                    |                   |                |
| 8     | SD  | 10-08-0040S | Sanborn County, SD<br>(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  | 12-TBD      | Union County Topo                             |                        | 2011    |                       |  |                      |             |                |                   |                   |                          |                    |                   |                |
| 8     | UT  | 09-08-1009S | Weber County, UT PMR<br>FY09                  |                        | 2009    |                       |  |                      |             |                |                   |                   |                          |                    |                   |                |
| 9     | AZ  | 09-09-3053S | Richland Area PMR<br>(Cochise, AZ)            | Bob Bezek              | 2009    |                       | Benson/St. David Cochise County<br>Arizona | Arizona+Cochise      | Complete    | NAVD 88        | DEM               | LIDAR             | No                       | 2m                 | 3.6               | FEMA           |
| 9     | AZ  | 09-09-3053S | Richland Area PMR<br>(Cochise, AZ)            | Bob Bezek              | 2009    |                       | Sierra Vista Cochise County Arizona        | Unknown              | Complete    | NAVD 88        | Contours          | Photogrammetric   | No                       | n/a                | 0.6               | Cochise County |
| 9     | CA  | 11-09-2895S | North Yuba & Downie<br>River PMR (Sierra, CA) | Kathy Schaefer         | 2009    |                       |  |                      |             |                |                   |                   |                          |                    |                   |                |
| 9     | CA  | 11-09-2894S | Sierra Valley PMR<br>(Plumas, CA)             | Kathy Schaefer         | 2009    |                       |  |                      |             |                |                   |                   |                          |                    |                   |                |
| 9     | CA  | 11-09-0675S | Central San Francisco<br>Bay Study (Coastal)  | Kathy Schaefer         | 2009    |                       | Central San Francisco Bay LiDAR            | Unknown              | Complete    | NAVD 88        | TIN               | LIDAR             | Yes, contact<br>the lead | 1                  | 0.185             | FEMA           |
| 9     | CA  | 11-09-1846S | Sacramento, CA (LiDAR)                        | Kathy Schaefer         | 2010    |                       |  |                      |             |                |                   |                   |                          |                    |                   |                |
| 9     | CA  | 11-09-0211S | San Bernardino, CA -<br>LiDAR                 | Ed Curtis              | 2010    |                       |  |                      |             |                |                   |                   |                          |                    |                   |                |
| 9     | CA  | 11-09-2195S | South Bay (Bay Area<br>Coastal)               | Kathy Schaefer         | 2010    |                       |  |                      |             |                |                   |                   |                          |                    |                   |                |
| 9     | CA  | 11-09-1852S | Yolo, CA (LiDAR)                              | Kathy Schaefer         | 2010    |                       |  |                      |             |                |                   |                   |                          |                    |                   |                |
| 9     | CA  | 11-09-1851S | Tehama, CA (LiDAR)                            | Kathy Schaefer         | 2010    |                       |  |                      |             |                |                   |                   |                          |                    |                   |                |
| 9     | CA  | 11-09-1850S | Stanislaus, CA (LiDAR)                        | Kathy Schaefer         | 2010    |                       |  |                      |             |                |                   |                   |                          |                    |                   |                |
| 9     | CA  | 11-09-1849S | Solano, CA (LiDAR)                            | Kathy Schaefer         | 2010    |                       |  |                      |             |                |                   |                   |                          |                    |                   |                |
| 9     | CA  | 11-09-1848S | Shasta, CA (LiDAR)                            | Kathy Schaefer         | 2010    |                       |  |                      |             |                |                   |                   |                          |                    |                   |                |



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|-------|--------|-------------|---------------------------------------|------------------------|---------|-----------------------|-------------|---------------------|-------------|----------------|-------------------|-------------------|-----------------------|--------------------|-------------------|-------------|
| 9     | CA     | 11-09-1847S | San Joaquin, CA (LiDAR)               | Kathy Schaefer         | 2010    |                       |             |                     |             |                |                   |                   |                       |                    |                   |             |
| 9     | CA     | 11-09-0213S | Kern, CA - LiDAR                      | Ed Curtis              | 2010    |                       |             |                     |             |                |                   |                   |                       |                    |                   |             |
| 9     | CA     | 11-09-0212S | Riverside, CA - LiDAR                 | Ed Curtis              | 2010    |                       |             |                     |             |                |                   |                   |                       |                    |                   |             |
| 9     | CA     | 11-09-0461S | Modoc, CA - LiDAR                     | Kathy Schaefer         | 2010    |                       |             |                     |             |                |                   |                   |                       |                    |                   |             |
| 9     | CA     | 11-09-1177S | Kern, CA (Topo)                       | Ed Curtis              | 2010    |                       |             |                     |             |                |                   |                   |                       |                    |                   |             |
| 9     | CA     | 11-09-1840S | Butte, CA (LiDAR)                     | Kathy Schaefer         | 2010    |                       |             |                     |             |                |                   |                   |                       |                    |                   |             |
| 9     | CA     | 11-09-1841S | Colusa, CA (LiDAR)                    | Kathy Schaefer         | 2010    |                       |             |                     |             |                |                   |                   |                       |                    |                   |             |
| 9     | CA     | 11-09-1842S | Fresno, CA (LiDAR)                    | Kathy Schaefer         | 2010    |                       |             |                     |             |                |                   |                   |                       |                    |                   |             |
| 9     | CA     | 11-09-1843S | Glenn, CA (LiDAR)                     | Kathy Schaefer         | 2010    |                       |             |                     |             |                |                   |                   |                       |                    |                   |             |
| 9     | CA     | 11-09-1844S | Merced, CA (LiDAR)                    | Kathy Schaefer         | 2010    |                       |             |                     |             |                |                   |                   |                       |                    |                   |             |
| 9     | CA     | 11-09-1845S | Placer, CA (LiDAR)                    | Kathy Schaefer         | 2010    |                       |             |                     |             |                |                   |                   |                       |                    |                   |             |
| 9     | CA, AZ | 12-TBD      | FY11 CA and AZ - USGS LIDAR IAA       |                        | 2011    |                       |             |                     |             |                |                   |                   |                       |                    |                   |             |
| 9     | NV     | 09-09-3064S | Walker River PMR (Lyon County, NV)    | Eric Simmons           | 2009    |                       |             |                     |             |                |                   |                   |                       |                    |                   |             |
| 10    | AK     | 11-10-0344S | REG-Anchorage PMR-FY09 (EO)           |                        | 2009    |                       |             |                     |             |                |                   |                   |                       |                    |                   |             |
| 10    | AK     | 12-10-0018S | RM-FY11-AK-Prince William Sound-LiDAR |                        | 2011    |                       | Cordova, AK | Unknown             | In work     | NAVD 88        | Mass Points/Varia | LIDAR             | Yes, contact the lead | 1                  | 0.363             | FEMA        |
| 10    | ID     | 11-10-0412S | Upper Henrys-ID-Fremont               |                        | 2010    |                       |             |                     |             |                |                   |                   |                       |                    |                   |             |
| 10    | ID     | 11-10-0411S | Teton-ID-Teton                        |                        | 2010    |                       |             |                     |             |                |                   |                   |                       |                    |                   |             |
| 10    | ID     | 11-10-0401S | Lower Henrys-ID-Fremont               |                        | 2010    |                       |             |                     |             |                |                   |                   |                       |                    |                   |             |



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|-------|-----|-------------|---|------------------------|---------|-----------------------|------------|---------------------|-------------|----------------|-------------|-------------------|-----------------|--------------------|-------------------|-------------|
| 10    | ID  | 11-10-0502S | Payette-ID-Gem  |                        | 2010    |                       |            |                     |             |                |             |                   |                 |                    |                   |             |
| 10    | OR  | 11-10-0352S | Lane - Willamette   |                        | 2009    |                       |            |                     |             |                |             |                   |                 |                    |                   |             |
| 10    | OR  | 11-10-0501S | LiDAR Acquisition-<br>Harney Co. (Silvies) and<br>Jackson Co. (Upper<br>Rogue)-OR |                        | 2010    |                       |            |                     |             |                |             |                   |                 |                    |                   |             |
| 10    | WA  | 11-10-0110S | REG-Kittitas County CW-<br>FY09 (EO)  |                        | 2010    |                       |            |                     |             |                |             |                   |                 |                    |                   |             |
| 10    | WA  | 12-TBD      | Lower Chehalis Basin<br>(Grays Harbor /<br>Thurston Counties)                     |                        | 2011    |                       |            |                     |             |                |             |                   |                 |                    |                   |             |



## Elevation Data Sets Gathered in Risk MAP

| Reg # | St. | Case Number | MIP Project Name                                     | FEMA Regional Engineer | Task FY | Leverage Dollar Value | NDEP Title  | NDEP State - County | NDEP Status | Vertical Datum | Data Format                      | Collection Method | Use Constraints              | Horizontal Posting | Vertical Accuracy | Lead Agency                                      |
|-------|-----|-------------|--|------------------------|---------|-----------------------|---|---------------------|-------------|----------------|----------------------------------|-------------------|------------------------------|--------------------|-------------------|--|
| 1     | MA  | 11-01-0535S | Suffolk MA - coastal study - FY10                    | Kerry Bogdan           | 2010    |                       | Charles   | Unknown             | Complete    | NAVD 88        | Mass Points/Varia                | LIDAR             | Yes, contact the lead        | 1                  | 0.363             | FEMA   |
| 1     | MA  | 11-01-0532S | Norfolk MA - coastal study - FY10                    | Kerry Bogdan           | 2010    |                       | Charles   | Unknown             | Complete    | NAVD 88        | Mass Points/Varia                | LIDAR             | Yes, contact the lead        | 1                  | 0.363             | FEMA   |
| 2     | NJ  | 10-02-0568S | Atlantic County, NJ - Coastal and Riverine CW - FY09 |                        | 2009    |                       | Terrain data for Atlantic, Ocean, Monmouth Counties, NJ | Unknown             | Complete    | NAVD 88        | Mass Points/Break Lines          | LIDAR             | No                           | 1                  | 0.185             | FEMA   |
| 3     | MD  | 11-03-0518S | REG Harford County, MD, Countywide Rev               | Robert Pierson         | 2009    |                       | Harford County Maryland LiDAR                           | Maryland+Harford    | Complete    | NAVD 88        | Mass Points/Varia<br>ble Spacing | LIDAR             | Yes, contact the lead agency | TBD                | 0.3048            | Harford County Department of Planning and Zoning |
| 3     | MD  | 11-03-0518S | REG Harford County, MD, Countywide Rev               | Robert Pierson         | 2010    |                       | Harford County Maryland LiDAR                           | Maryland+Harford    | Complete    | NAVD 88        | Mass Points/Varia<br>ble Spacing | LIDAR             | Yes, contact the lead agency | TBD                | 0.3048            | Harford County Department of Planning and Zoning |
| 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/Varia                | 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/Varia                | LIDAR             | No                           | 3                  | 0.5               | PA MAP Program                                   |
| 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/Varia                | 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/Varia                | LIDAR             | No                           | 3                  | 0.5               | PA MAP Program                                   |
| 3     | PA  | 10-03-0271S | REG Allegheny County, PA                             | Robert Pierson         | 2009    | \$149,000             | PAMAP Program LiDAR Data of Pennsylvania                | Pennsylvania        | Complete    | NAVD 88        | Mass Points/Varia                | LIDAR             | No                           | 3                  | 0.5               | PA MAP Program                                   |
| 3     | VA  | 11-03-0846S | Topo Data Acq: WV LiDAR QA/QC (See 11-03-0773S)      | Jon Janowicz           | 2010    |                       | WV DEP 2010 LIDAR                                       | Unknown             | Complete    | NAVD 88        | Mass Points/Varia<br>ble Spacing | LIDAR             | No                           | 1                  | 0.36              | WVDEP  |
| 3     | WV  | 11-03-0846S | Topo Data Acq: WV LiDAR QA/QC (See 11-03-0773S)      | Jon Janowicz           | 2010    |                       | WV DEP 2010 LIDAR                                       | Unknown             | Complete    | NAVD 88        | Mass Points/Varia<br>ble Spacing | LIDAR             | No                           | 1                  | 0.36              | WVDEP  |
| 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                  | 0.3               | Baldwin County Commission                        |
| 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                                    |



# FEMA Semi-Annual Geospatial Data Coordination Report

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|-------|-----|-------------|---------------------------|------------------------|---------|-----------------------|---|---------------------|-------------|------------------|-------------------|-------------------|------------------------------|--------------------|-------------------|---|
| 4     | AL  | 09-04-7729S | Montgomery County AL FY09 | Laura Algeo            | 2009    | \$158,000             | Montgomery County, AL   |                     |             |                  |                   |                   |                              |                    |                   |   |
| 4     | FL  | 10-04-3115S | Lake CO, FL (FY2009)      | Mohammad Waliullah     | 2009    | \$476,500             | Lake, FL  | Unknown             | Complete    | NAVD 88          | Contours+DEM      | LIDAR             | Yes, contact the lead agency | 1                  | 0.3048            | Lake County Board of County Commissioners, GIS Division |
| 4     | FL  | 10-04-3157S | Volusia CO, FL (FY2009)   | Mohammad Waliullah     | 2009    |                       | Volusia County LiDAR  | Florida+Volusia     | Complete    | NAVD 88          | Mass Points/Varia | LIDAR             | Yes, contact the lead        | 1                  | 1                 | FEMA  |
| 4     | FL  | 09-04-8602S | Manatee County FL FY09    | Mohammad Waliullah     | 2009    | \$115,200             | Manatee County FL FY09  | Florida+Manatee     | Complete    | To be Determined | To be Determined  | To be Determined  | To be determined             | TBD                | null              | To Be Determined  |
| 4     | FL  | 10-04-3116S | Osceola CO, FL (FY2009)   | Mohammad Waliullah     | 2009    | \$43,500              | Osceola FL LIDAR  | Unknown             | Complete    | NAVD 88          | Regular Grid      | LIDAR             | No                           | 1                  | 0.3048            | FEMA  |
| 4     | MS  | 10-04-4165S | George Co MS (FY2009)     | Laura Algeo            | 2009    |                       | George, MS  | Unknown             | Complete    | NAVD 88          | DEM+TIN           | LIDAR             | Yes, contact the lead        | 1                  | 1                 | George County, Mississippi                              |
| 4     | MS  | 10-04-4167S | Lauderdale CO MS (FY2009) | Laura Algeo            | 2009    | \$61,770              | Lauderdale, MS  | Unknown             | Complete    | NAVD 88          | DEM+TIN           | LIDAR             | Yes, contact the lead agency | 1                  | 0.6096            | City of Meridian, Public Works-Engineering Department   |
| 4     | MS  | 10-04-4167S | Lauderdale CO MS (FY2009) | Laura Algeo            | 2009    | \$61,770              | Two-foot interval contours for the City of Meridian, MS                             | Unknown             | Complete    | NAVD 88          | Contours+DEM+TIN  | Photogrammetric   | Yes, contact the lead        | TBD                | 0.363             | N/A   |
| 4     | MS  | 10-04-4168S | Lee CO MS FY(2009)        | Laura Algeo            | 2009    |                       | Lee County MS   | Unknown             | Complete    | NAVD 88          | DEM+TIN           | LIDAR             | Yes, contact the lead        | 1                  | 0.6096            | Lee County, Mississippi                                 |
| 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                  | 0.363             | N/A   |
| 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             | Complete    | 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  | Complete    | 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  | Complete    | NAVD 88          | Contours+DEM      | LIDAR             | Yes, contact the lead        | TBD                | 0.1               | 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                  | 0.34              | FEMA  |
| 4     | TN  | 09-04-8601S | Hamilton County TN FY09   | Mohammad Waliullah     | 2009    |                       | Hamilton County TN  | Unknown             | In work     | To be Determined | Regular Grid      | To be Determined  | Yes, contact the lead        | TBD                | null              | FEMA  |



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|-------|-----|-------------|---|------------------------|---------|-----------------------|-------------------------|---------------------|-------------|-------------------------------------|-------------|-------------------|------------------------------|--------------------|-------------------|---|
| 5     | IL  | 11-05-0446S | RM-FY10-IL-City of Carmi, Unnamed Tributary, White County-O-W | Suzanne Vermeer        | 2010    |                       | City of Carmi, Illinois | Illinois+White      | Complete    | National Geodetic Vertical Datum of | Contours    | Photogrammetric   | Yes, contact the lead agency | TBD                | null              | City of Carmi, IL                       |
| 5     | IL  | 11-05-1526S | RM-FY10-IL-Lower Fox River Watershed (Kane County)-O-PMR      | Suzanne Vermeer        | 2010    |                       | Kane County, IL         | Illinois+Kane       | Complete    | NAVD 88                             | Contours    | To be Determined  | Yes, contact the lead agency | TBD                | 0.366             | Kane County, IL                         |
| 5     | IL  | 11-05-0446S | RM-FY10-IL-City of Carmi, Unnamed Tributary, White County-O-W | Suzanne Vermeer        | 2010    |                       | City of Carmi, Illinois | Illinois+White      | Complete    | National Geodetic Vertical Datum of | Contours    | Photogrammetric   | Yes, contact the lead agency | TBD                | null              | City of Carmi, IL                       |
| 5     | IL  | 11-05-0446S | RM-FY10-IL-City of Carmi, Unnamed Tributary, White County-O-W | Suzanne Vermeer        | 2010    |                       | City of Carmi, Illinois | Illinois+White      | Complete    | National Geodetic Vertical Datum of | Contours    | Photogrammetric   | Yes, contact the lead agency | TBD                | null              | City of Carmi, IL                       |
| 5     | IN  | 10-05-2672S | RM-FY09-IN-Hamilton County-O-PMR                              | Mike Hanke             | 2009    |                       | Hamilton County, IN     | Indiana+Hamilton    | Complete    | NAVD 88                             | Contours    | Photogrammetric   | Yes, contact the lead        | TBD                | 0.305             | Hamilton County Surveyors Office        |
| 5     | IN  | 10-05-2675S | RM-FY09-IN-Johnson County-O-PMR                               | Mike Hanke             | 2009    |                       | Johnson County, IN      | Indiana+Johnson     | Complete    | NAVD 88                             | Contours    | Photogrammetric   | Yes, contact the lead        | TBD                | 0.305             | Johnson County, IDNR and IDHS           |
| 5     | IN  | 10-05-2666S | RM-FY09-IN-Allen County-O-PMR                                 | Mike Hanke             | 2009    |                       | Allen County,IN         | Indiana+Allen       | Complete    | NAVD 88                             | Contours    | LIDAR             | Yes, contact the lead        | TBD                | null              | ALLEN COUNTY, IN                        |
| 5     | IN  | 10-05-2683S | RM-FY09-IN-Vigo County-L-PMR                                  | Erin Maloney           | 2009    |                       | Vigo County, IN         | Indiana+Vigo        | Complete    | NAVD 88                             | Contours    | To be Determined  | Yes, contact the lead        | TBD                | 0.305             | City of Terre Haute                     |
| 5     | IN  | 10-05-2674S | RM-FY09-IN-Hancock County-O-PMR                               | Mike Hanke             | 2009    |                       | Hancock County, IN      | Indiana+Hancock     | Complete    | NAVD 88                             | Contours    | Photogrammetric   | Yes, contact the lead        | TBD                | 0.305             | Indiana Department of Natural Resources |
| 5     | IN  | 10-05-2671S | RM-FY09-IN-Bartholomew County-O-PMR                           | Mike Hanke             | 2009    |                       | Bartholomew County, IN  | Indiana+Bartholomew | Complete    | To be Determined                    | DEM         | To be Determined  | Yes, contact the lead agency | TBD                | 1.8288            | Indiana Department of Natural Resources |
| 5     | IN  | 10-05-2671S | RM-FY09-IN-Bartholomew County-O-PMR                           | Mike Hanke             | 2009    |                       | Bartholomew County, IN  | Indiana+Bartholomew | Complete    | To be Determined                    | DEM         | To be Determined  | Yes, contact the lead agency | TBD                | 1.8288            | Indiana Department of Natural Resources |
| 5     | IN  | 10-05-2666S | RM-FY09-IN-Allen County-O-PMR                                 | Mike Hanke             | 2009    |                       | Allen County,IN         | Indiana+Allen       | Complete    | NAVD 88                             | Contours    | LIDAR             | Yes, contact the lead        | TBD                | null              | ALLEN COUNTY, IN                        |
| 5     | IN  | 10-05-2674S | RM-FY09-IN-Hancock County-O-PMR                               | Mike Hanke             | 2009    |                       | Hancock County, IN      | Indiana+Hancock     | Complete    | NAVD 88                             | Contours    | Photogrammetric   | Yes, contact the lead        | TBD                | 0.305             | Indiana Department of Natural Resources |
| 5     | IN  | 10-05-2675S | RM-FY09-IN-Johnson County-O-PMR                               | Mike Hanke             | 2009    |                       | Johnson County, IN      | Indiana+Johnson     | Complete    | NAVD 88                             | Contours    | Photogrammetric   | Yes, contact the lead        | TBD                | 0.305             | Johnson County, IDNR and IDHS           |
| 5     | IN  | 10-05-2675S | RM-FY09-IN-Johnson County-O-PMR                               | Mike Hanke             | 2009    |                       | Johnson County, IN      | Indiana+Johnson     | Complete    | NAVD 88                             | Contours    | Photogrammetric   | Yes, contact the lead        | TBD                | 0.305             | Johnson County, IDNR and IDHS           |



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|-------|-----|-------------|--|------------------------|---------|-----------------------|--|---------------------|-------------|------------------|-------------------------|-------------------|------------------------------|--------------------|-------------------|---|
| 5     | IN  | 10-05-3845S | RM-FY09-IN-Marion County Updates-O-PMR                   | Mike Hanke             | 2009    |                       | Marion County, IN                                | Indiana+Marion      | Complete    | NAVD 88          | Contours                | To be Determined  | Yes, contact the lead agency | TBD                | 0.305             | City of Indianapolis, Marion County, IDNR and IDHS                      |
| 5     | IN  | 11-05-2687S | RM-FY10-IN-Little Calumet Leverage PMR Lake County-O-PMR | Erin Maloney           | 2010    |                       | LAKE COUNTY, INDIANA                             | Indiana+Lake        | Complete    | NAVD 88          | Contours+DEM            | To be Determined  | Yes, contact the lead agency | TBD                | 0.304             | Indiana Geographic Information Council                                  |
| 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     | 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  | 08-05-3687S | RM-FY09-MI-Dickinson County-O-CW                         | Mike Hanke             | 2009    | \$139,750             | Dickinson County, MI                             | Michigan+Dickinson  | Complete    | NAVD 88          | Regular Grid            | IFSAR             | Yes, contact the lead        | TBD                | null              | 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     | MI  | 10-05-2095S | RM-FY09-MI-Alcona County-O-CW                            | Mike Hanke             | 2009    |                       | Alcona, MI                                       | Michigan+Alcona     | Complete    | NAVD 88          | Regular Grid            | IFSAR             | Yes, contact the lead        | 5                  | 1                 | FEMA  |
| 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                | 0.7               | FEMA  |
| 5     | MI  | 11-05-1544S | RM-FY10-MI-Ottawa County (Lower Grand River)-O-PMR       | Mike Hanke             | 2010    |                       | OTTAWA COUNTY, MI                                | Michigan+Ottawa     | Complete    | NAVD 88          | To be Determined        | LIDAR             | Yes, contact the lead agency | TBD                | null              | OTTAWA COUNTY, MI   |
| 5     | MI  | 11-05-1539S | RM-FY10-MI-Macomb County (Lake St. Clair)-O-PMR          | Erin Maloney           | 2010    |                       | MACOMB COUNTY, MI                                | Michigan+Macomb     | Complete    | NAVD 88          | Mass Points/Break Lines | LIDAR             | Yes, contact the lead agency | TBD                | 0.124             | Southeast Michigan council of Governments Airborne Lidar Project Report |
| 5     | MI  | 11-05-1544S | RM-FY10-MI-Ottawa County (Lower Grand River)-O-PMR       | Mike Hanke             | 2010    |                       | OTTAWA COUNTY, MI                                | Michigan+Ottawa     | Complete    | NAVD 88          | To be Determined        | LIDAR             | Yes, contact the lead agency | TBD                | null              | Ottawa County GIS   |
| 5     | MI  | 11-05-5071S | RM-FY10-MI-Midland County-O-PMR                          | Erin Maloney           | 2010    |                       | Midland County, Michigan                         | Michigan+Midland    | Complete    | To be Determined | To be Determined        | To be Determined  | Yes, contact the lead        | TBD                | null              | Midland County, Michigan  |
| 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                | 0.314             | International Water Institute's   |
| 5     | MN  | 10-05-2109S | RM-FY09-MN-Wilkin County-O-CW                            | Suzanne Vermeer        | 2009    |                       | Wilkin County, MN (Countywide DFIRM)             | Minnesota+Wilkin    | Complete    | NAVD 88          | Mass Points/Break Lines | LIDAR             | Yes, contact the lead agency | TBD                | 0.353             | Minnesota Department of Natural Resources (DNR)                         |
| 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                | 0.589             | Clermont County GIS Department  |





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|-------|-----|-------------|---|------------------------|---------|-----------------------|--|---------------------|-------------|----------------|-------------------|-------------------|------------------------------|--------------------|-------------------|--------------------------------------|
| 5     | OH  | 11-05-1557S | RM-FY10-OH-Delaware County-O-PMR  | Mike Hanke             | 2010    |                       | Delaware County, OH                            | Ohio+Delaware       | Complete    | NAVD 88        | Mass Points/Break | LIDAR             | Yes, contact the lead        | TBD                | 0.366             | Delaware County, OH                  |
| 5     | OH  | 11-05-2569S | RM-FY10-OH-Lucas County (Swan Creek FCP)-L-PMR                          | Mike Hanke             | 2010    |                       | LUCAS COUNTY, OHIO                             | Ohio+Lucas          | Complete    | NAVD 88        | Contours          | LIDAR             | Yes, contact the lead agency | TBD                | 0.304             | LUCAS COUNTY, OHIO                   |
| 5     | WI  | 10-05-0307S | RM-FY09-WI-Juneau County-O-CW   | Ken Hinterlong         | 2009    | \$301,912             | Juneau County (WI) 2010 LiDAR                  | Wisconsin+Juneau    | Complete    | NAVD 88        | Mass Points/Break | LIDAR             | Yes, contact the lead        | TBD                | 0.173             | --Please Select--                    |
| 5     | WI  | 11-05-5511S | RM-FY09-WI-07070004-Sauk County Update (Baraboo River Watershed)-O-PMR  | Lee Traeger            | 2009    |                       | Sauk countywide terrain dataset                | Wisconsin+Sauk      | Complete    | NAVD 88        | DEM               | To be Determined  | No                           | TBD                | 0.3               | Sauk County, WI                      |
| 5     | WI  | 10-05-0308S | RM-FY09-WI-La Crosse County-O-CW  | Lee Traeger            | 2009    |                       | La Crosse County, WI LIDAR Survey              | Wisconsin+La Crosse | Complete    | NAVD 88        | Mass Points/Break | LIDAR             | Yes, contact the lead        | TBD                | 0.107             | La Crosse County, WI LIDAR Survey    |
| 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 |                    | 0.061             | Dodge County Land Information Office |
| 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                 |
| 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                       |
| 6     | TX  | 10-06-1139S | Tarrant Co, TX (FY09 PMR)   | Ron Wanhanen           | 2009    | \$57,000              | Tarrant County, TX LiDAR                       | Unknown             | Complete    | NAVD 88        | Mass Points/Break | LIDAR             | Yes, contact the lead        | 0.6 m              | 0.07              | Texas Water Development Board        |
| 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     | TX  | 10-06-0145S | Leon Co, TX (FY09)  | Larry Voice            | 2009    |                       | Terrain, Leon County, TX                       | Texas+Leon          | Complete    | NAVD 88        | Regular Grid+Mass | LIDAR             | No                           | 5-foot             | 0.125             | Texas Water Development Board        |
| 7     | KS  | 10-07-0015S | SEDGWICK COUNTY, KS. RISK MAP 09  | Bob Franke             | 2009    | \$287,000             | Wichita/Sedgwick LiDAR project 02015796        | Kansas+Sedgwick     | Complete    | NAVD 88        | Contours          | LIDAR             | Yes, contact the lead        | 2 FT               | 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  | 09-07-2047S | 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     | MO  | 09-07-2057S | TANEY COUNTY, MO. RISK MAP 09   | Bob Franke             | 2009    |                       | TERRAIN, TANEY COUNTY, Missouri USA            | Unknown             | Complete    | NAVD 88        | DEM               | LIDAR             | Yes, contact the lead        | 1                  | 0.60136           | FEMA                                 |
| 7     | NE  | 11-07-0778S | Platte, NE. Leve PMR (FY10)   | Rick Nusz              | 2010    | \$13,920              | City of Columbus, Platte County, NE            | Nebraska+Platte     | Complete    | NAVD 88        | DEM               | LIDAR             | Yes, contact the lead        | 1                  | null              | FEMA                                 |



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|-------|-----|-------------|--|------------------------|---------|-----------------------|---|---------------------|-------------|----------------|-------------------------|-------------------|------------------------------|--------------------|-------------------|---|
| 8     | ND  | 09-08-10075 | Pembina County, ND PMR FY09                                  |                        | 2009    | \$87,400              | Pembina County, ND PMR                      | Unknown             | In work     | NAVD 88        | Contours                | LIDAR             | No                           | 1                  | 0.15              | 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     | 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     | SD  | 10-08-1075S | McCook County, SD  |                        | 2010    |                       | Lake Vermillion LiDAR, McCook County, SD    | Unknown             | Complete    | NAVD 88        | DEM+TIN                 | LIDAR             | Yes, contact the lead        | 1                  | 1                 | FEMA  |
| 9     | CA  | 09-09-3059S | Contra Costa PMR (Contra Costa, CA)                          | Eric Simmons           | 2009    |                       | Contra Costa County CA EAR Topo Review      | Unknown             | Complete    | NAVD 88        | Contours+DEM            | LIDAR             | No                           | 1.5                | 0.304             | FEMA  |
| 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             | Complete    | NAVD 88        | DEM                     | LIDAR             | No                           | TBD                | 0.6096            | City of San Diego   |
| 9     | CA  | 10-09-0024S | Ventura CA (PAL)   | Ed Curtis              | 2009    |                       | Ventura County LiDAR data                   | Unknown             | Complete    | NAVD 88        | Mass Points/Break       | LIDAR             | No                           | TBD                | 0.6096            | Ventura County LiDAR  |
| 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                                      |
| 9     | CA  | 09-09-3052S | Dominguez Channel, Compton Creek PAL (Los Angeles, CA)       | Ed Curtis              | 2009    |                       | Los Angeles County, CA                      | Unknown             | Complete    | NAVD 88        | DEM+TIN                 | LIDAR             | Yes, contact the lead agency | 1                  | 0.6096            | Los Angeles Region ? Imagery Acquisition Consortium (LAR-IAC) |
| 9     | CA  | 10-09-0039S | Penitencia, Coyote Creeks PMR (Santa Clara, CA)              | Eric Simmons           | 2009    |                       | Santa Clara County CA PMR Topo Review       | Unknown             | Complete    | NAVD 88        | DEM                     | LIDAR             | No                           | 1.5                | 0.182             | FEMA  |
| 9     | CA  | 11-09-0708S | Kings River-Murphy's Slough PMR (Fresno, CA)                 | Kathy Schaefer         | 2009    |                       | Kings River-Murphy's Slough, CA             | Unknown             | Complete    | NAVD 88        | DEM+TIN                 | LIDAR             | Yes, contact the lead agency | 1                  | 0.112             | California Department of Water Resources (DWR)                |
| 9     | CA  | 11-09-0707S | Sutter Creek Study (Amador, CA)                              | Kathy Schaefer         | 2009    |                       | Amador County, CA                           | Unknown             | Complete    | NAVD 88        | DEM+TIN                 | Photogrammetric   | Yes, contact the lead        | 1                  | 0.6096            | City of Ione, Amador County, CA                               |
| 9     | CA  | 10-09-0039S | Penitencia, Coyote Creeks PMR (Santa Clara, CA)              | Eric Simmons           | 2010    |                       | Santa Clara County CA PMR Topo Review       | Unknown             | Complete    | NAVD 88        | DEM                     | LIDAR             | No                           | 1.5                | 0.182             | FEMA  |
| 9     | CA  | 11-09-0919S | Bellona Creek Study (Los Angeles, CA)                        | Ed Curtis              | 2010    |                       | Ballona Creek Study - LA, CA                | Unknown             | Complete    | NAVD 88        | DEM+TIN                 | LIDAR             | Yes, contact the lead agency | 1                  | 0.24              | Los Angeles Region ? Imagery Acquisition Consortium (LAR-IAC) |



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|-------|-----|-------------|---|------------------------|---------|-----------------------|---|---------------------|-------------|------------------|-------------------|-------------------|------------------------------|--------------------|-------------------|---|
| 9     | CA  | 11-09-09255 | Santa Clara River & Tribs PMR (Los Angeles, CA)   | Ed Curtis              | 2010    |                       | City of Palos Verdes Estates - LA, CA           | Unknown             | Complete    | NAVD 88          | DEM+TIN           | LIDAR             | Yes, contact the lead agency | 1                  | 0.24              | Los Angeles Region ? Imagery Acquisition Consortium (LAR-IAC) |
| 9     | CA  | 11-09-06755 | Central San Francisco Bay Study (Coastal)         | Kathy Schaefer         | 2010    |                       | Central San Francisco Bay LiDAR                 | Unknown             | Complete    | NAVD 88          | TIN               | LIDAR             | Yes, contact the lead        | 1                  | 0.185             | FEMA  |
| 9     | CA  | 11-09-09205 | Las Virgenes Creek Study (Los Angeles, CA)        | Ed Curtis              | 2010    |                       | Las Virgenes Creek Study - LA, CA               | Unknown             | Complete    | NAVD 88          | DEM+TIN           | LIDAR             | Yes, contact the lead agency | 1                  | 0.24              | Los Angeles Region ? Imagery Acquisition Consortium (LAR-IAC) |
| 9     | CA  | 11-09-08655 | Magpie Creek Study (PAL) (Sacramento, CA)         | Kathy Schaefer         | 2010    |                       | Sacramento County CA Magpie Creek PMR           | Unknown             | Complete    | NAVD 88          | Regular Grid      | LIDAR             | Yes, contact the lead        | 2m                 | 1.2               | City of Sacramento  |
| 9     | HI  | 11-09-09185 | Waikapu Stream, Kehei Gulch PMR (Maui, HI)        | Eric Simmons           | 2010    |                       | 2004 Maui Kihei LiDAR                           | Unknown             | Complete    | To be Determined | Mass Points/Break | LIDAR             | No                           | 1                  | 0.18              | Maui County, HI   |
| 9     | HI  | 11-09-08785 | Honolulu, HI (PAL)                                | Eric Simmons           | 2010    |                       | Oahu FEMA LiDAR                                 | Unknown             | Complete    | To be Determined | Mass Points/Break | LIDAR             | No                           | 1                  | 0.18              | Ouahu FEMA LiDAR  |
| 9     | NV  | 10-09-00355 | Evans Creek & White Lake PMR (Washoe, NV)         | Eric Simmons           | 2009    |                       | Cirt of Reno contour data for Washoe County PMR | Unknown             | Complete    | NAVD 88          | Regular Grid      | Photogrammetric   | Yes, contact the lead        | 1                  | 0.3048            | City of Reno  |
| 10    | ID  | 11-10-01075 | REG-Clark Fork (Lightning Cr) PAL PMR-FY09 (L)    |                        | 2009    |                       | Columbia River Treaty 2014/2024 Project         | Unknown             | Complete    | NAVD 88          | DEM               | LIDAR             | To be determined             | Unknown            | 0.13              | USACE   |
| 10    | ID  | 11-10-01045 | REG-Gem County CW-FY09 (O)                        |                        | 2009    |                       | Payette River - Gem, Valley, Payette Counties   | Unknown             | In work     | NAVD 88          | Mass Points/Varia | LIDAR             | Yes, contact the lead        | 1                  | 0.363             | FEMA  |
| 10    | ID  | 11-10-01055 | REG-Valley County CW-FY09 (O)                     |                        | 2009    |                       | Payette River - Gem, Valley, Payette Counties   | Unknown             | In work     | NAVD 88          | Mass Points/Varia | LIDAR             | Yes, contact the lead        | 1                  | 0.363             | FEMA  |
| 10    | OR  | 11-10-03515 | REG-OR-Klamath County-CW-FY09 (EO)                |                        | 2009    |                       | Klamath COunty, Oregon                          | Oregon+Klamath      | Complete    | NAVD 88          | Regular Grid+TIN  | LIDAR             | Yes, contact the lead        | TBD                | 0.03              | FEMA  |
| 10    | OR  | 11-10-01275 | REG-Columbia County, OR PMR-FY09 (L)              | David Ratte            | 2009    |                       | Columbia River Treaty 2014/2024 Project         | Unknown             | Complete    | NAVD 88          | DEM               | LIDAR             | To be determined             | Unknown            | 0.13              | USACE   |
| 10    | OR  | 11-10-01285 | REG- Rainier PAL Columbia County PMR - FY09 (L)   | David Ratte            | 2009    |                       | Columbia River Treaty 2014/2024 Project         | Unknown             | Complete    | NAVD 88          | DEM               | LIDAR             | To be determined             | Unknown            | 0.13              | USACE   |
| 10    | OR  | 11-10-01295 | REG- Scappoose PAL Columbia County PMR - FY09 (L) | David Ratte            | 2009    |                       | Columbia River Treaty 2014/2024 Project         | Unknown             | Complete    | NAVD 88          | DEM               | LIDAR             | To be determined             | Unknown            | 0.13              | USACE   |
| 10    | WA  | 11-10-01425 | REG-Woodland PAL Cowlitz County PMR-FY09 (L)      |                        | 2009    |                       | Columbia River Treaty 2014/2024 Project         | Unknown             | Complete    | NAVD 88          | DEM               | LIDAR             | To be determined             | Unknown            | 0.13              | USACE   |



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|-------|-----|-------------|---|------------------------|---------|-----------------------|---|---------------------|-------------|----------------|-------------|-------------------|------------------|--------------------|-------------------|-------------|
| 10    | WA  | 11-10-0130S | REG-Cowlitz County PAL PMR-FY09 (L)                     | David Ratte            | 2009    |                       | Columbia River Treaty 2014/2024 Project | Unknown             | Complete    | NAVD 88        | DEM         | LIDAR             | To be determined | Unknown            | 0.13              | USACE       |
| 10    | WA  | 11-10-0131S | REG-Cowlitz River-Kelso PAL Cowlitz County PMR-FY09 (L) | David Ratte            | 2009    |                       | Columbia River Treaty 2014/2024 Project | Unknown             | Complete    | NAVD 88        | DEM         | LIDAR             | To be determined | Unknown            | 0.13              | USACE       |
| 10    | WA  | 11-10-0132S | REG-Longview PAL Cowlitz County PMR-FY09 (L)            | David Ratte            | 2009    |                       | Columbia River Treaty 2014/2024 Project | Unknown             | Complete    | NAVD 88        | DEM         | LIDAR             | To be determined | Unknown            | 0.13              | USACE       |
| 10    | WA  | 11-10-0116S | REG-Washougal PAL-Clark County PMR-FY09 (L)             |                        | 2009    |                       | Columbia River Treaty 2014/2024 Project | Unknown             | Complete    | NAVD 88        | DEM         | LIDAR             | To be determined | Unknown            | 0.13              | USACE       |



## Ortho Data Sets Produced in Risk MAP

| Reg# | State | Case Number | MIP 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    | 10-02-0568S | 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 |
| 3    | MD    | 11-03-2783S | FY10 Placeholder                                     | Robert Pierson         | 2010    |              |            |                       |   |              |          |  |           |
| 4    | FL    | 11-04-1990S | Okaloosa Co FL (FY09)                                | Laura Algeo            | 2009    | 1/10/11      |            |                       |   |              |          |  |           |
| 7    | IA    | 11-07-1083S | Upper Grand HUC10280101 - FY11/FY10 (O-W) - REG      | Bob Franke             | 2011    |              |            |                       |   |              |          |  |           |
| 7    | MO    | 11-07-1083S | Upper Grand HUC10280101 - FY11/FY10 (O-W) - REG      | Bob Franke             | 2011    |              |            |                       |   |              |          |  |           |
| 10   | ID    | 11-10-0428S | PMR-Priest Lake-ID-Bonner                            |                        | 2010    | 12/20/10     | 12/21/10   |                       |   |              |          |  |           |
| 10   | OR    | 11-10-0355S | REG-OR-Clatsop County Coastal-FY09 (C)               |                        | 2010    | 12/1/10      | 10/18/11   |                       |   |              |          |  |           |
| 10   | OR    | 11-10-0350S | REG-OR-Lincoln County Coastal-FY09 (C)               |                        | 2010    | 5/1/11       |            |                       |   |              |          |  |           |
| 10   | OR    | 11-10-0349S | REG-OR-Tillamook County Coastal-FY09 (C)             |                        | 2010    | 5/1/11       |            |                       |   |              |          |  |           |
| 10   | WA    | 11-10-0102S | King County CTP FY09                                 | David Ratte            | 2009    | 4/15/10      |            |                       |   |              |          |  |           |



## Ortho Data Sets Gathered in Risk MAP

| Reg# | State | Case Number | MIP 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    | 10-02-1225S | 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    | 10-02-0673S | 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    | 10-02-0672S | 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    | 10-02-0591S | 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    | 10-02-0670S | 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 |
| 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    | 10-02-1258S | 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    | 10-02-0581S | 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    | 10-02-0957S | 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    | 10-02-0675S | 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    | 10-02-0956S | 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 |
| 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 |



| Reg# | State | Case Number | MIP 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    | 10-02-0680S | 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    | NY    | 11-02-1429S | REG-(W-PCW)-02050105-Chemung-FY10-Steuben Co. NY                     | Robert Schaefer        | 2010    | 4/15/11      |            |                       | Orthoimagery for Steuben County, NY                     | New York+Steuben  | Complete | Source/RGB Natural Color+Product/RGB Natural       | .5 meters |
| 2    | NY    | 11-02-1425S | REG-(W-PMR)-02050105-Chemung-FY10-Chemung Co. NY                     | Robert Schaefer        | 2010    | 4/15/11      |            |                       | 2010 imagery for Chemung County, NY                     | New York+Chemung  | Complete | Source/RGB Natural Color+Product/RGB Natural       | .2 meters |
| 2    | NY    | 11-02-1428S | REG-(W-PCW)-02050105-Chemung-FY10-Schuyler Co. NY                    | Robert Schaefer        | 2010    | 4/15/11      |            |                       | Orthoimagery for Schuyler County, NY                    | New York+Schuyler | Complete | Source/RGB Natural Color+Product/RGB Natural       | 1 meter   |
| 3    | MD    | 11-03-0518S | REG Harford County, MD, Countywide Rev                               | Robert Pierson         | 2010    | 2/1/11       | 3/31/11    |                       | Harford County Maryland Orthoimagery                    | Unknown           | Complete | Source/Panchromatic+Product/Panchromatic           | 1 meter   |
| 3    | PA    | 07-03-0436S | Susquehanna County, PA   | Tiffany Keane          | 2009    | 10/15/09     | 11/30/09   | \$82,200              | PA MAP Program High Resolution Orthoimagery             | Pennsylvania      | Complete | Source/RGB Natural Color+Product/RGB Natural       | .3 meters |
| 3    | PA    | 10-03-0271S | REG 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    | 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    | 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    | 07-03-0435S | 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    | 07-03-0438S | 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    | 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-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    | 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    | 09-04-8023S | Mobile County AL FY09  | Laura Algeo            | 2009    | 10/3/09      | 10/28/11   |                       | Mobile County, AL                                       | Alabama+Mobile    | Complete | Source/To be determined+Prod                       | .3 meters |
| 4    | AL    | 09-04-7728S | Elmore County AL FY09  | Laura Algeo            | 2009    | 6/16/09      | 9/8/09     | \$154,240             | Elmore County Aerials                                   |                   |          |  |           |
| 4    | AL    | 09-04-7729S | Montgomery County AL FY09  | Laura Algeo            | 2009    | 6/16/09      | 10/29/10   | \$79,000              | Montgomery County, AL                                   |                   |          |  |           |
| 4    | FL    | 10-04-3116S | Osceola CO, FL (FY2009)  | Mohammad Waliullah     | 2009    | 1/18/10      | 8/17/10    | \$150,600             | Osceola Fl Orthophotography                             | Unknown           | Complete | Source/RGB Natural Color+Product/RGB Natural       | 1 meter   |



| Reg# | State | Case Number | MIP Project Name   | FEMA Regional Engineer | Task FY | Actual Start | Actual End | Leverage Dollar Value | NDOP Tracker Title                   | County+State       | Status   | Image Type   | GSD             |
|------|-------|-------------|--|------------------------|---------|--------------|------------|-----------------------|--------------------------------------|--------------------|----------|--|-----------------|
| 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    | Complete | Source/To be determined+Product/To be              | To Be Determine |
| 4    | FL    | 10-04-3115S | Lake CO, FL (FY2009)                                     | Mohammad Waliullah     | 2009    | 1/18/10      | 8/17/10    | \$95,300              | LakeCo_Imagery                       | Florida+Lake       | Complete | Source/RGB Natural Color+Product/BW                | .3 meters       |
| 4    | FL    | 10-04-3157S | Volusia CO, FL (FY2009)                                  | Mohammad Waliullah     | 2009    | 2/1/10       | 8/30/10    |                       | Volusia County Flood Insurance Study | Florida+Volusia    | In work  | Source/RGB Natural Color+Product/RGB Natural       | .3 meters       |
| 4    | TN    | 10-04-3113S | Davidson CO, TN (FY2009)                                 | Mohammad Waliullah     | 2009    | 2/1/10       | 8/15/10    | \$5,260               | Davidson County FIRM                 | Unknown            | Complete | Source/RGB Natural Color+Product/RGB Natural       | 1 meter         |
| 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            | Complete | Source/Panchromatic+Product/Panchromatic           | 1 meter         |
| 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            | Complete | 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    | 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    | 09-04-8601S | Hamilton County TN FY09                                  | Mohammad Waliullah     | 2009    | 5/26/10      | 6/23/10    | \$68,100              | Hamilton County TN                   | Unknown            | In work  | Source/To be determined+Product/To be              | To Be Determine |
| 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       |
| 5    | IL    | 10-05-0922S | RM-FY09-IL-Cook County 2009 Updates-O-PMR                | Suzanne Vermeer        | 2009    | 1/4/10       |            |                       | Cook County, Illinois                | Illinois+Cook      | Complete | Source/RGB Natural Color+Product/RGB Natural       | To Be Determine |
| 5    | IL    | 10-05-0922S | RM-FY09-IL-Cook County 2009 Updates-O-PMR                | Suzanne Vermeer        | 2009    | 1/4/10       |            |                       | Cook County, Illinois                | Illinois+Cook      | Complete | Source/RGB Natural Color+Product/RGB Natural       | To Be Determine |
| 5    | IL    | 11-05-1526S | RM-FY10-IL-Lower Fox River Watershed (Kane County)-O-PMR | Suzanne Vermeer        | 2010    | 4/1/11       | 5/27/11    |                       | KANE COUNTY, ILLINOIS                | Illinois+Kane      | Complete | Source/RGB Natural Color+Product/RGB Natural Color | .2 meters       |
| 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    | 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 |





| Reg# | State | Case Number | MIP Project Name   | FEMA Regional Engineer | Task FY | Actual Start | Actual End | Leverage Dollar Value | NDOP Tracker Title                | County+State        | Status   | Image Type                                       | GSD             |
|------|-------|-------------|--|------------------------|---------|--------------|------------|-----------------------|-----------------------------------|---------------------|----------|--|-----------------|
| 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    | 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    | 11-05-1539S | RM-FY10-MI-Macomb County (Lake St. Clair)-O-PMR                        | Erin Maloney           | 2010    | 1/31/11      | 5/13/11    |                       | MACOMB COUNTY, MI                 | Michigan+Macomb     | Complete | Source/To be determined+Product/To be            | .2 meters       |
| 5    | MI    | 11-05-1544S | RM-FY10-MI-Ottawa County (Lower Grand River)-O-PMR                     | Mike Hanke             | 2010    | 12/15/10     | 2/4/11     |                       | OTTAWA COUNTY, MI                 | Michigan+Ottawa     | Complete | Source/To be determined+Product/To be            | To Be Determine |
| 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    | 10-05-2108S | RM-FY09-MN-Kittson County-O-CW   | Suzanne Vermeer        | 2009    | 1/4/10       | 1/6/10     |                       | Kittson County, MN DFIRM Mapping  | Unknown             | Complete | Source/To be determined+Product/To be            | 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    | OH    | 11-05-1557S | RM-FY10-OH-Delaware County-O-PMR                                       | Mike Hanke             | 2010    | 2/1/11       | 5/3/11     |                       | DELAWARE COUNTY, OHIO             | Ohio+Delaware       | Complete | Source/RGB Natural Color+Product/RGB Natural     | .3 meters       |
| 5    | OH    | 11-05-2568S | RM-FY10-OH-Lucas County (Point Place FCP)-L-PMR                        | Mike Hanke             | 2010    | 2/18/11      | 3/9/11     |                       | LUCAS COUNTY, OH                  | Ohio+Lucas          | Complete | Source/To be determined+Product/To be            | To Be Determine |
| 5    | WI    | 10-05-6390S | RM-FY09-WI-Vilas County-O-CW   | Lee Traeger            | 2009    | 9/1/10       | 3/21/11    |                       | Vilas County, WI Countywide       | Wisconsin+Vilas     | Complete | Source/RGB Natural Color+Prod                    | To Be Det       |
| 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    | 10-05-0308S | RM-FY09-WI-La Crosse County-O-CW                                       | Lee Traeger            | 2009    | 11/1/09      | 3/22/10    |                       | La Crosse, WI                     | Wisconsin+La Crosse | Complete | Source/Panchromatic+Product/Panchromatic         | To Be Determine |
| 5    | WI    | 10-05-6388S | RM-FY09-WI-Jackson County-O-CW   | Lee Traeger            | 2009    | 9/1/10       | 12/15/10   |                       | Jackson County, WI                | Wisconsin+Jackson   | Complete | Source/RGB Natural Color+Product/RGB Natural     | .5 meters       |
| 5    | WI    | 10-05-6392S | RM-FY09-WI-Waushara County-O-CW  | Lee Traeger            | 2009    | 12/1/10      | 7/18/11    |                       | Waushara County, WI               | Wisconsin+Waushara  | Complete | Source/RGB Natural Color+Product/RGB Natural     | .5 meters       |
| 5    | WI    | 11-05-5511S | RM-FY09-WI-07070004-Sauk County Update (Baraboo River Watershed)-O-PMR | Lee Traeger            | 2009    | 10/19/09     | 5/13/11    |                       | Sauk County, WI                   | Wisconsin+Sauk      | Complete | Source/Panchromatic+Product/Panchromatic         | .3 meters       |
| 5    | WI    | 10-05-6387S | RM-FY09-WI-Oneida County-O-CW  | Lee Traeger            | 2009    | 4/1/11       | 8/3/11     |                       | Oneida County, WI                 | Wisconsin+Oneida    | Complete | Source/RGB Natural Color+Product/Panchromatic+Pr | .3 meters       |



| Reg# | State | Case Number | MIP Project Name  | FEMA Regional Engineer | Task FY | Actual Start | Actual End | Leverage Dollar Value | NDOP Tracker Title                                 | County+State     | Status   | Image Type                                   | GSD       |
|------|-------|-------------|---|------------------------|---------|--------------|------------|-----------------------|--|------------------|----------|--|-----------|
| 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 |
| 5    | WI    | 10-05-0307S | RM-FY09-WI-Juneau County-O-CW   | Ken Hinterlong         | 2009    | 9/21/09      | 12/20/10   |                       | Juneau County, WI                                  | Wisconsin+Juneau | Complete | Source/RGB Natural Color+Product/RGB Natural | .3 meters |
| 8    | CO    | 11-08-0572S | Mesa County, CO PMR   |                        | 2010    | 4/15/11      | 5/27/11    | \$5,100               | Ranchmen's Ditch PMR                               | Unknown          | Complete | Source/RGB Natural Color+Prod                | .2 meters |
| 9    | AZ    | 11-09-0922S | Verde River PMR (Yavapai, AZ)   | Bob Bezek              | 2010    | 12/27/10     | 4/30/11    |                       | Yavapai County DFIRM                               | Arizona+Yavapai  | Complete | Source/RGB Natural Color+Prod                | .2 meters |
| 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 |
| 10   | OR    | 11-10-0351S | REG-OR-Klamath County-CW-FY09 (EO)                                      |                        | 2009    | 3/14/11      | 9/30/11    |                       | Klamath County, OR                                 | Oregon+Klamath   | Complete | Source/RGB Natural Color+Product/RGB Natural | .5 meters |
| 10   | OR    | 11-10-0351S | REG-OR-Klamath County-CW-FY09 (EO)                                      |                        | 2009    | 3/14/11      | 9/30/11    |                       | Klamath County, OR                                 | Oregon+Klamath   | Complete | Source/RGB Natural Color+Product/RGB Natural | .5 meters |
| 10   | OR    | 11-10-0351S | REG-OR-Klamath County-CW-FY09 (EO)                                      |                        | 2009    | 3/14/11      | 9/30/11    |                       | Klamath County, OR                                 | Oregon+Klamath   | Complete | Source/RGB Natural Color+Product/RGB Natural | .5 meters |
| 10   | OR    | 11-10-0351S | REG-OR-Klamath County-CW-FY09 (EO)                                      |                        | 2009    | 3/14/11      | 9/30/11    |                       | Klamath County, OR                                 | Oregon+Klamath   | Complete | Source/RGB Natural Color+Product/RGB Natural | .5 meters |
| 10   | OR    | 11-10-0351S | REG-OR-Klamath County-CW-FY09 (EO)                                      |                        | 2009    | 3/14/11      | 9/30/11    |                       | Klamath County, OR                                 | Oregon+Klamath   | Complete | Source/RGB Natural Color+Product/RGB Natural | .5 meters |
| 10   | OR    | 11-10-0351S | REG-OR-Klamath County-CW-FY09 (EO)                                      |                        | 2009    | 3/14/11      | 9/30/11    |                       | Klamath County, OR                                 | Oregon+Klamath   | Complete | Source/RGB Natural Color+Product/RGB Natural | .5 meters |
| 10   | OR    | 11-10-0351S | REG-OR-Klamath County-CW-FY09 (EO)                                      |                        | 2009    | 3/14/11      | 9/30/11    |                       | Klamath County, OR                                 | Oregon+Klamath   | Complete | Source/RGB Natural Color+Product/RGB Natural | .5 meters |
| 10   | OR    | 11-10-0351S | REG-OR-Klamath County-CW-FY09 (EO)                                      |                        | 2009    | 3/14/11      | 9/30/11    |                       | Klamath County, OR                                 | Oregon+Klamath   | Complete | Source/RGB Natural Color+Product/RGB Natural | .5 meters |