

## 4.0 FY03-FY04 PRODUCTION REPORT

### 4.1 Reviewing and Consolidating Cost, Schedule, and Production Data

FEMA is developing and refining its management systems to improve accessibility and maintenance of the data required to monitor cost, schedule, and production of Digital Flood Insurance Rate Maps (DFIRMs). Currently, FEMA has a system in place to track progress of contracted studies and a system to plan for projects. This section reports on the status of Map Modernization DFIRM production, as monitored by FEMA's existing systems.

In Spring 2005, these systems will be combined into a comprehensive planning, budgeting, and tracking application as part of the Multihazard Information Platform (MIP), a state-of-the-art hazard data delivery and management platform. The MIP will provide secure, web-based access to detailed views of not only flood data, but also data pertaining to other types of hazards, both natural and manmade. The benefits of combining the existing systems into one application include enhancing usability, integrating separate systems, and avoiding database duplication. The accessibility of data related to actual progress of flood map studies will be greatly enhanced by this new system.

When applying or interpreting data from existing and new systems, it is important to note that the life cycle of a DFIRM generally includes the following elements, listed in the order in which they occur:

1. Study funding
2. Map production (including scoping, terrain acquisition, engineering, and mapping)
3. Issuance of the preliminary DFIRM to the county
4. Community adoption of the DFIRM as effective flood hazard information
5. Map/data distribution
6. Map/data maintenance, revisions, and updates

This section addresses only the map production phase and does not include the progress associated with ongoing product maintenance or revisions.

### 4.2 Tracking Progress of Studies

Existing FEMA systems allow tracking progress of all contracted study tasks and planning for projects, and these systems are the sources of the data reported for FY03 and FY04. The individual party that is responsible for the project—whether it is a CTP, another Federal agency, a contractor, or FEMA itself—also bears responsibility for tracking contracted studies by baselining data and

updating the progress of each study task as the study progresses. These data updates are then aggregated to a national overview of progress to date.

Another existing FEMA system is used to obtain planning data for studies. This tool includes data on activities performed in FY03 and FY04, as well as activities planned for future years. It also provides a simplified aggregate of current activities in order to track three milestones of a project:

- Funding
- Map production
- Map adoption

FEMA systems also include information about funding contributions and/or in-kind services provided by the CTPs and other mapping partners, as well as funding allocations provided to CTPs by FEMA.

To report progress within the sequencing tool, FEMA verifies that all counties are represented. The support data from the other systems is reviewed to confirm that it is up-to-date and reports accurately on progress to date. The sequencing tool is reviewed to affirm that studies are following or are projected to follow the logical steps in map production (funding, DFIRM creation, preliminary issuance, and county adoption).

### **4.3 Progress of FY04 and Prior Funded Activities**

The tables, figures, and maps that follow present map production progress as of November 5, 2004 (by county) as measured by:

- Studies funded in FY04 and prior, including leveraged dollars
- Studies issued as preliminary and population affected
- Studies adopted and population affected

FEMA is transitioning from conducting smaller mapping studies to a countywide- and watershed-based mapping program, and some studies funded in FY04 and prior were designated for specific communities and not entire counties. If a community exercises land-use jurisdiction and is itself a participant in the NFIP, its study is considered “community-based.” If, on the other hand, a community is an unincorporated entity within a county, then a study of that community is defined as a “partial-countywide” study. In general, the studied communities tend to be the area(s) of greatest population within a county.

The progress to date is based on the standards and fiscal constraints that were in place at the time of funding. With limited funding, the needs of the communities are prioritized in consultation with state and local officials, and, in most cases, only the highest-risk areas have been updated. Other areas that may need updating will be considered in future budget years.

***A funded study is reported complete when the effective map is delivered to each community.***

A funded study is reported complete when the effective map is delivered to each community. However, while a county may be reported complete, that does not necessarily mean all of the mapping and study needs of every community within the county have been met. The effective map represents the best product that FEMA and its partners could produce, given the budget allocated for the study.

To track the progress of digital hazard mapping nationwide, a partial countywide study is not reported complete until the county in which it is located is complete. For example, if a community of 10,000 people is studied within a county of 15,000 people, the population of 10,000 people is not credited towards the national goals until the county is completed. This is a conservative accounting approach. Some counties funded prior to FY03, which met the former minimum DFIRM standards, have been counted in the national goals.

As discussed in section 3, Distribution of Funds to the Regions, FEMA planned for \$120 million in map production funding for FY04. However, during any fiscal year, the sum of the distributions within each Region described in section 3 may not total the number of the planned allocation for several reasons:

- Other funds may be allocated to Regions to address previously unidentified needs or to take an opportunity to leverage outside resources.
- The money budgeted for current and future fiscal years has not yet all been contracted, committed, or spent.
- In any given year, money is distributed to the Regions based on the national plan. FEMA's Regional Offices spend the money through contracts for map production for specific counties. However, the actual totals will not be updated in FEMA's reporting systems until those studies have been contracted, which may be as late as the end of the fiscal year.
- Studies are contracted after they are scoped, when the actual cost of the study is determined. The contracted amount may not be the same as the amount initially estimated in the sequencing tool.
- In any given year, some Regions choose to spend their funds on non-county-specific projects (for example, developing a coastal methodology for the West Coast, other technical investigations not tied to a specific study, etc.); or, additional funding may be allocated for specific studies as a result of a disaster or other unique situations (for example, wildfires are often followed by flooding, so risk would rise for counties affected by wildfire, and there may be an urgent need to study new conditions).

Table 4-1 details the distribution of funding by Region for FY04. This table also shows how much funding FEMA leveraged as well as the funding given directly to CTPs through grants.

**Table 4-1. Actual Distribution of Funding by Region for FY04**

Region	Allocated Funds	Total Number of Studies Funded	Additional Dollars Leveraged with Partners	Dollars Given Directly to CTPs for Portions of the Creation Process
1	\$4,206,000	22	\$306,930	\$390,000
2	\$9,119,047	16	\$2,468,985	\$2,000,000
3	\$9,759,536	78	\$7,282,000	\$4,317,798
4	\$35,928,085	136	\$20,315,405	\$29,780,682
5	\$12,809,826	77	\$11,136,776	\$5,455,900
6	\$17,543,000	40	\$13,981,000	\$1,235,000
7	\$7,413,253	47	\$8,141,720	\$906,600
8	\$5,431,490	26	\$364,000	\$0
9	\$11,464,213	35	\$1,070,000	\$137,000
10	\$4,547,440	17	\$1,133,218	\$700,000
<b>TOTAL</b>	<b>\$118,221,890</b>	<b>494</b>	<b>\$66,200,034</b>	<b>\$44,922,980</b>

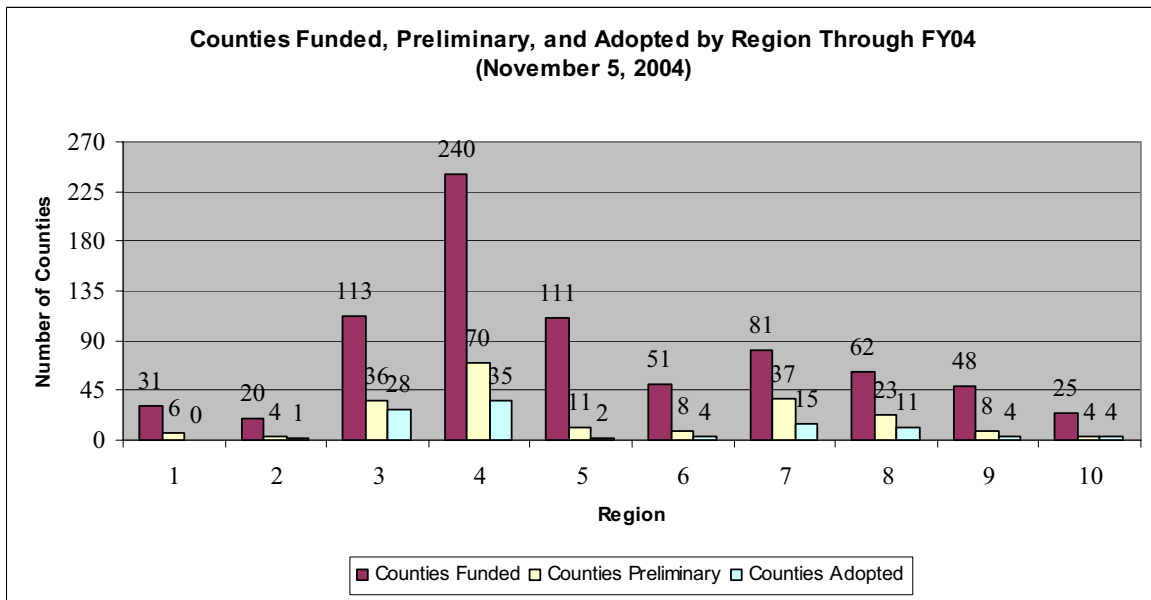
Notes: Data in table is subject to change as a result of ongoing verification of data in FEMA's study tracking and planning systems.

As shown in table 4-2 and figure 4-1, of 783 counties funded for map production, FEMA has issued preliminary maps to 207 counties, and 103 have effective flood maps. Appendix A provides a detailed list of all studies funded through FY04, including an update on the current status of each study as of November 5, 2004.

**Table 4-2. Progress to Date by Region of Counties Funded FY04 and Prior**

Region	Counties Funded	Counties Preliminary	Affected Population	Counties Adopted	Affected Population
1	31	6	1,220,647	0	618,925
2	20	4	5,498,662	1	309,893
3	113	36	6,349,259	28	4,543,011
4	240	70	10,829,495	35	6,663,515
5	111	11	3,193,870	2	1,126,312
6	51	8	6,085,722	4	1,278,831
7	81	37	1,373,724	15	289,124
8	62	23	1,468,971	11	614,114
9	48	8	12,285,585	4	5,338,386
10	26	4	1,111,607	4	1,103,189
<b>TOTAL</b>	<b>783</b>	<b>207</b>	<b>49,417,542</b>	<b>104</b>	<b>21,885,300</b>

# FY03-FY04 Production Report

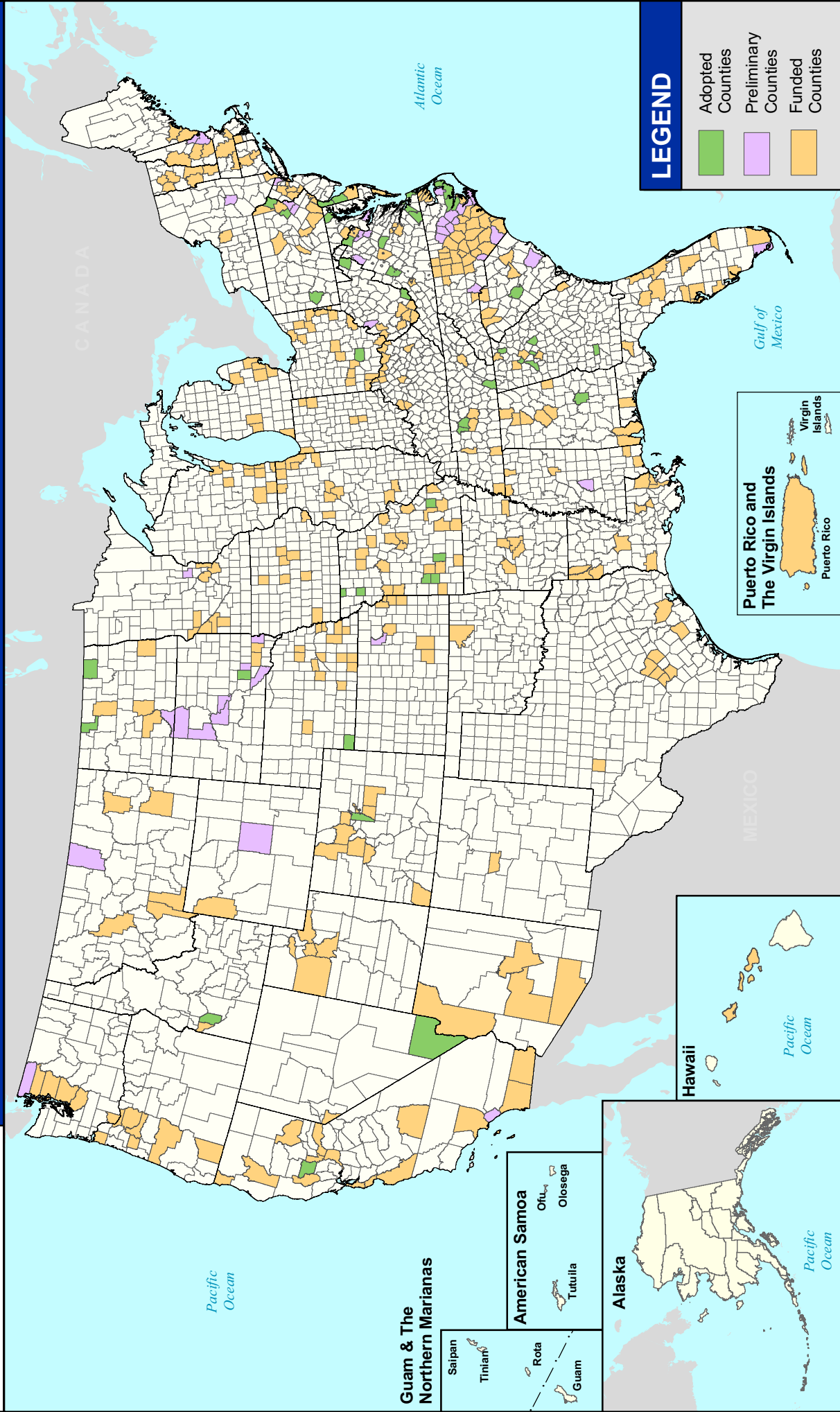


**Figure 4-1. Counties Funded, Preliminary, and Adopted DFIRMs by Region Through FY04  
(November 5, 2004)**

Map 4-1 shows the progress of map production—including the funding, preliminary issuance, and map adoption for specific counties by the end of FY03, which is the starting point for measuring progress. Map 4-2 shows progress of map production through the end of FY04.

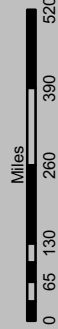
# Map 4-1. Progress of Mapping Activities Through FY03

Projected as of November 5, 2004



**LEGEND**

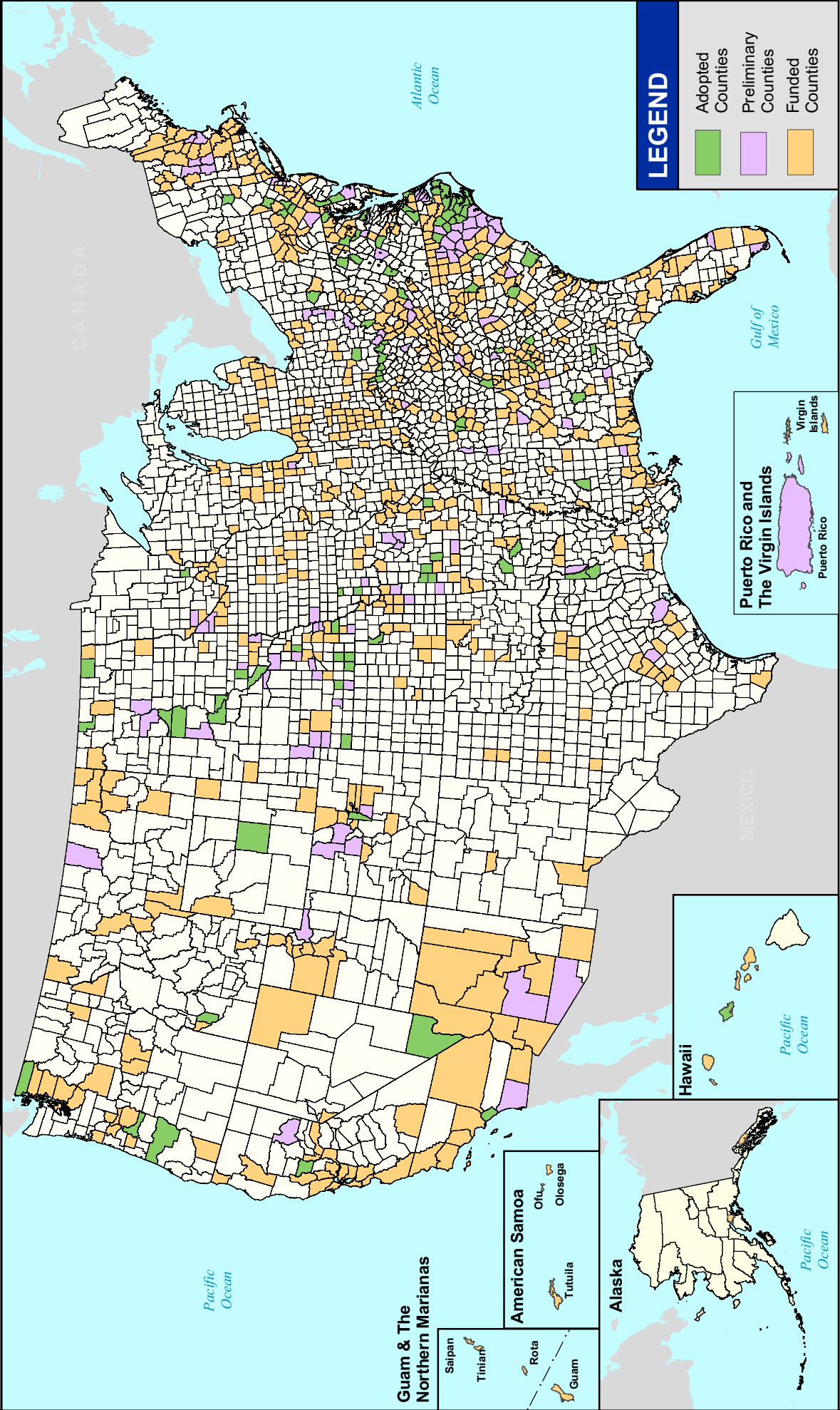
- Adopted Counties
- Preliminary Counties
- Funded Counties



Projection: North America Albers Equal-Area Conic  
Data Source: FEMA Sequencing Tool

# Map 4-2. Progress of Mapping Activities Through FY04

Projected as of November 5, 2004



**LEGEND**

- Adopted Counties
- Preliminary Counties
- Funded Counties

Projection: North America Albers Equal-Area Conic  
 Data Source: FEMA Sequencing Tool

